Reference 10 (Part 3 of 3) –

WNYNSC Off-Site Radiation Investigation,

Volume III-Technical Data Annex (D&M, 1995)

Reference 10 - WNYNSC Off-Site Radiation Investigation, Volume III

New York State
Energy Research and Development Authority

Western New York Nuclear Service Center
Off-Site Radiation Investigation

Volume III: Technical Data Annex

April 20, 1995

DAMES & MOORE

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WESTERN NEW YORK NUCLEAR SERVICE CENTER OFF-SITE RADIATION INVESTIGATION

VOLUME III: TECHNICAL DATA ANNEX

April 20, 1995

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Contract Number: 2003-WV-RWM-92
Task Order D&M-92-3

Note: The WNYNSC Off-Site Radiation Investigation discussed in this report is fully described in three separate volumes

- Volume I: *Summary Report*, April 1995
- Volume II: *Technical Report*, April 1995
- Volume III: *Technical Data Annex*, April 1995

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Appendix A

Field Instrument Data Quality Assurance

Overview of the Technical Data Annex

TAB A: Field Instrument Data Quality Assurance

Instruments were calibrated and windows peaked to the gamma radiation from a Cs-137 source by external calibration laboratories.[1] Each day before use, instrument operation and stability were verified with measurements of two reference sources[2] of Cs-137 and the ambient background in Springville, NY, approximately 6 km north of the investigation study area.

Stability checks were performed before and after leaving the field, when breaking for lunch and at the end of the day. Instruments were checked in the mode in which they were planned to be used, either by accumulating 30 second counts or in the peak-trap count rate mode. These readings were recorded on field log sheets. Data from the field log sheets has been compiled into a spreadsheet file by date of use, instrument and source/background.

To verify measurement reproducibility and instrument stability in the field, upon completion of a block of 25 10 m x 10 m grids, the surveyor re-surveyed the initial grid of the block. This resulted in a quality re-survey of approximately 4% of the grids surveyed. The downloaded data file was reviewed to compare the initial and resurvey data. Data from six stability resurveys resulted in rejection of the data, necessitating a resurvey of the block of 25 grids. A listing of the initial and resurveyed data for accepted data is provided, as well as a listing of data files not used.

After the field portion of the investigation was completed, all field data files were validated before their inclusion into the accepted data set. Validation procedures are in the Technical Work Plan. The essential part of the validation procedure was a review of the electronic file with the field log of the initial reading in each grid, to ensure that data was assigned to the appropriate grid. A copy of the validation form is provided in TAB C.

Enclosures

- Table of daily instrument operations
- Plots of the daily quality assurance measurements, by instrument and source
- Tables of grids re-surveyed to verify instrument response stability

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[1] Dames & Moore instruments were calibrated by GTS Instrument Services, Pittsburgh, PA. Instruments supplied by the WVDP were calibrated by WVDP.

[2] A high count rate, button check source, nominal activity 1 microcurie and a low activity bulk source of 950 grams of soil in a plastic container, nominal activity 6 pCi/g.

Record of ESP-2 Instrument Status/Use and Data Memory LogXXX Files

Date	SN 701	SN 764	SN 773	SN 911	SN1674
Aug 31	at GTS for repair	not used		[available Sep 27]	[available Oct 03]
Sep 01	log121	not used			
Sep 02	log123; correlate at DG#1	ship to vendor for repair			
Sep 06	log125; log126	not available			
Sep 07	log127; log128	not available			
Sep 08	log129; log130	not available	rec'd at Springville		
Sep 09	log131	not available	to WVNS		
Sep 12	log132; log133	not available	not available		
Sep 13	log134; log135	not available	not available		
Sep 14	log 136; log137; correlate at DG#1	not available	correlate at DG#1		
Sep 15	log138; log139 [stop 0.5 m height survey]	not available	data not used [log131; log132]		
Sep 16	log140; log141	not available	log133; log134		
Sep 19	log142; log143	rec'd at Springville	log135; log136		
Sep 20	log144; log145	to WVNS	log137; log138		
Sep 21	log146; log147	not available	log139; log140		
Sep 22	log148; log149	not available	log141; log142		
Sep 23	log150; rain in p.m.	not available	log143; rain in p.m.		
Sep 26	not used	not available	not used		

Record of ESP-2 Instrument Status/Use and Data Memory LogXXX Files

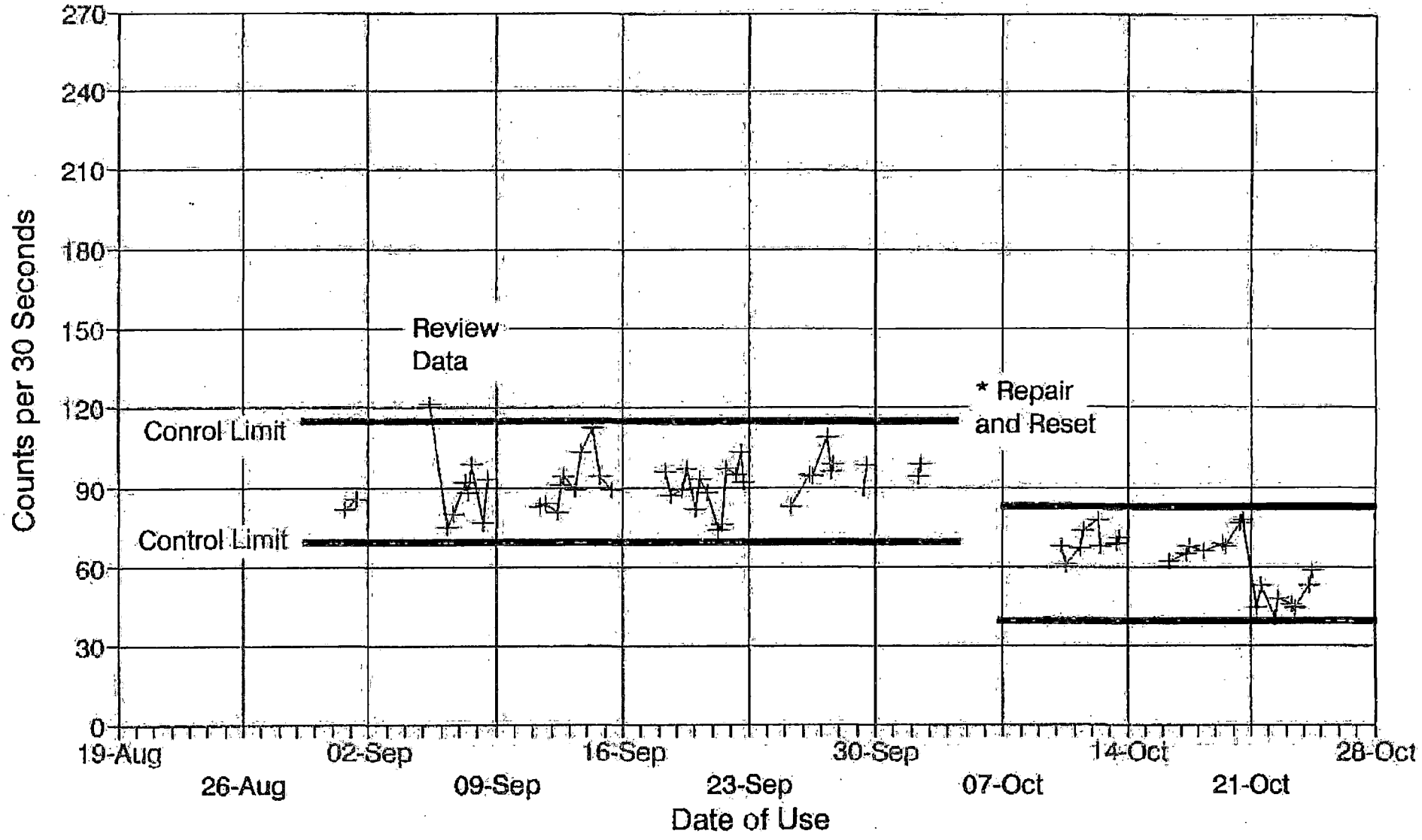
Date	SN 701	SN 764	SN 773	SN 911	SN1674
Sep 27	log152; log153	not available	log144; log145	pickup at WVNS	
Sep 28	log154; log155	not available	log146; log147	Correlate at DG#1	
Sep 29	rain	not available	rain	not used	
Sep 30	log156; log157	not available	log148; log149	not used	
Oct 03	log158; log159; log160 correlated at DG#1	pick up from WVNS	log150; log151	log159; log160	rec'd at Springville
Oct 04	HV fail during walkover reject data [log161]	correlated at DG#1 log132; log133	log152; log153	QA Response Fail, data rejected [log161; log162]	correlate at DG#1
Oct 05	to GTS for repair	log134; log135	log154; log155	QA response fail, data rejected; [log163]	not used
Oct 06	not available	log136; log137	data lost on download [log156]; log157	to WVNS for repair	log135; log136
Oct 07	not available	HV failure during walkover; data lost	log158; log159	not available	log137; log138
Oct 10	rec'd at Springville	not used	random shift in mode by on/off; not used	not available	log139; log140
Oct 11	Correlate at DG#1	log138; log139	log160; log161	pickup from WVNS	log141; log142
Oct 12	log163; log164	log140	log162	correlate at DG#1	log143; log144
Oct 13	log165; log166	log141; log142	log163; log164	not used	QA Response fail, reject data [log145; log146]
Oct 14	log167; log168	log143; log144	log165; log166	not used	return to vendor
Oct 17	not used	QA Response fail, reject data [log145; log146]	data lost on download [log167]; log168	log164; log165	not available

Record of ESP-2 Instrument Status/Use and Data Memory LogXXX Files

Date	SN 701	SN 764	SN 773	SN 911	SN1674
Oct 18	log169; log170	not used	instrument in wrong mode reject data [log169]	not used	not available
Oct 19	Rain	not used	rain	rain	not available
Oct 20	log171; log172	to WVNS for repair	log170; log171	log167; log168	not available
Oct 21	log173; log174	not available	log172; log173	log169; log170	on site, not used
Oct 22	log175; log176	not available	log174	not used	not used
Oct 23	log177; log178	not available	not used	not used	not used
Oct 24	QA response fail reject data [log179]	not available	log175; log176	not used	not used
Oct 25	not used	pickup from WVNS	log177; log180 [no data log178; log179]	not used to/from WVNS for reset	not used
Oct 26	not used	correlated at DG#1 log147; log148	correlated at DG#1	correlated at DG#1 log171; log172	not used
Oct 27	not used	log149	log181	log173	not used
Oct 28	not used	not used	not used	not used	not used

WNYNSC Off-Site Radiation Investigation

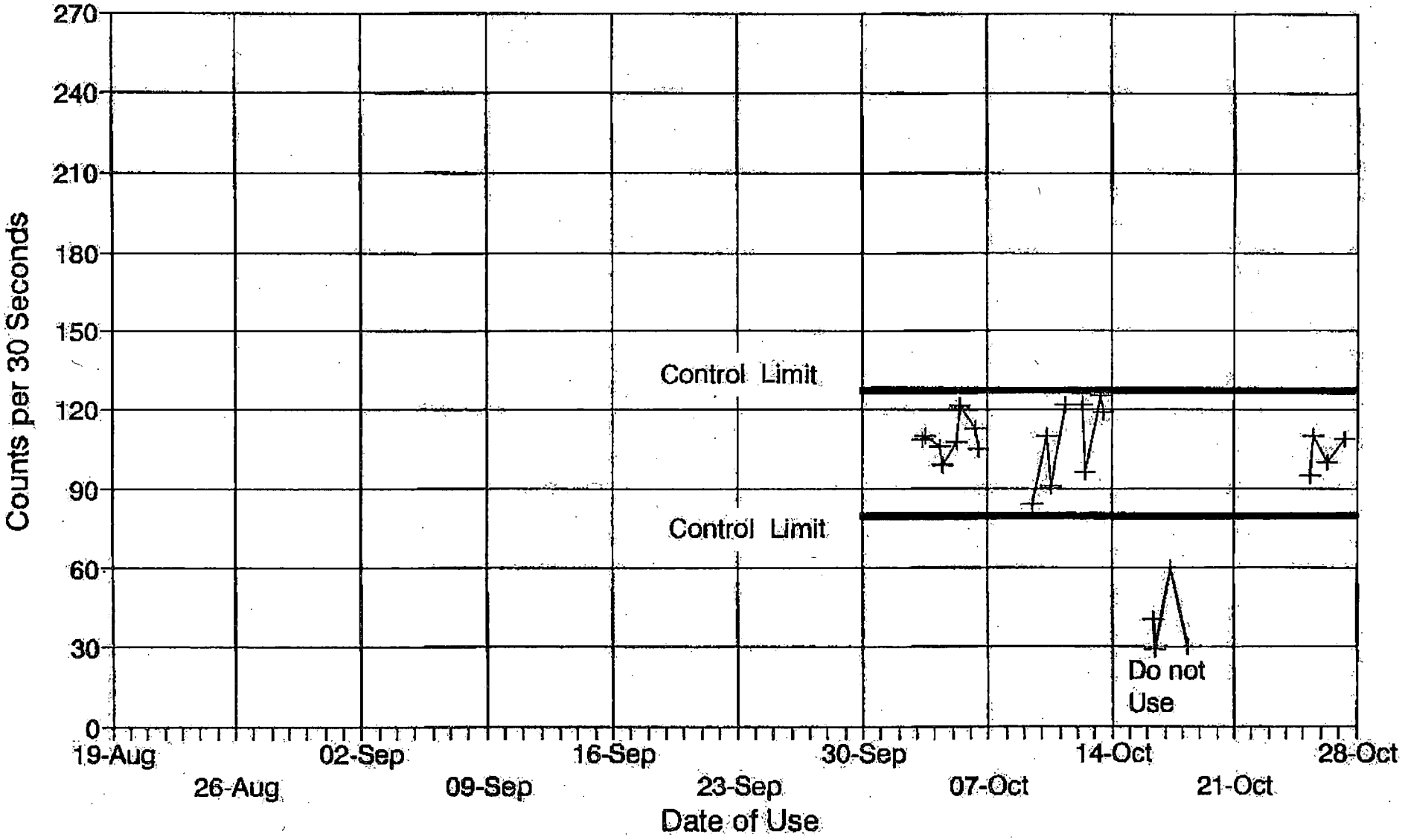
Instrument Response Checks



ESP-2 SN 701

WNYNSC Off-Site Radiation Investigation

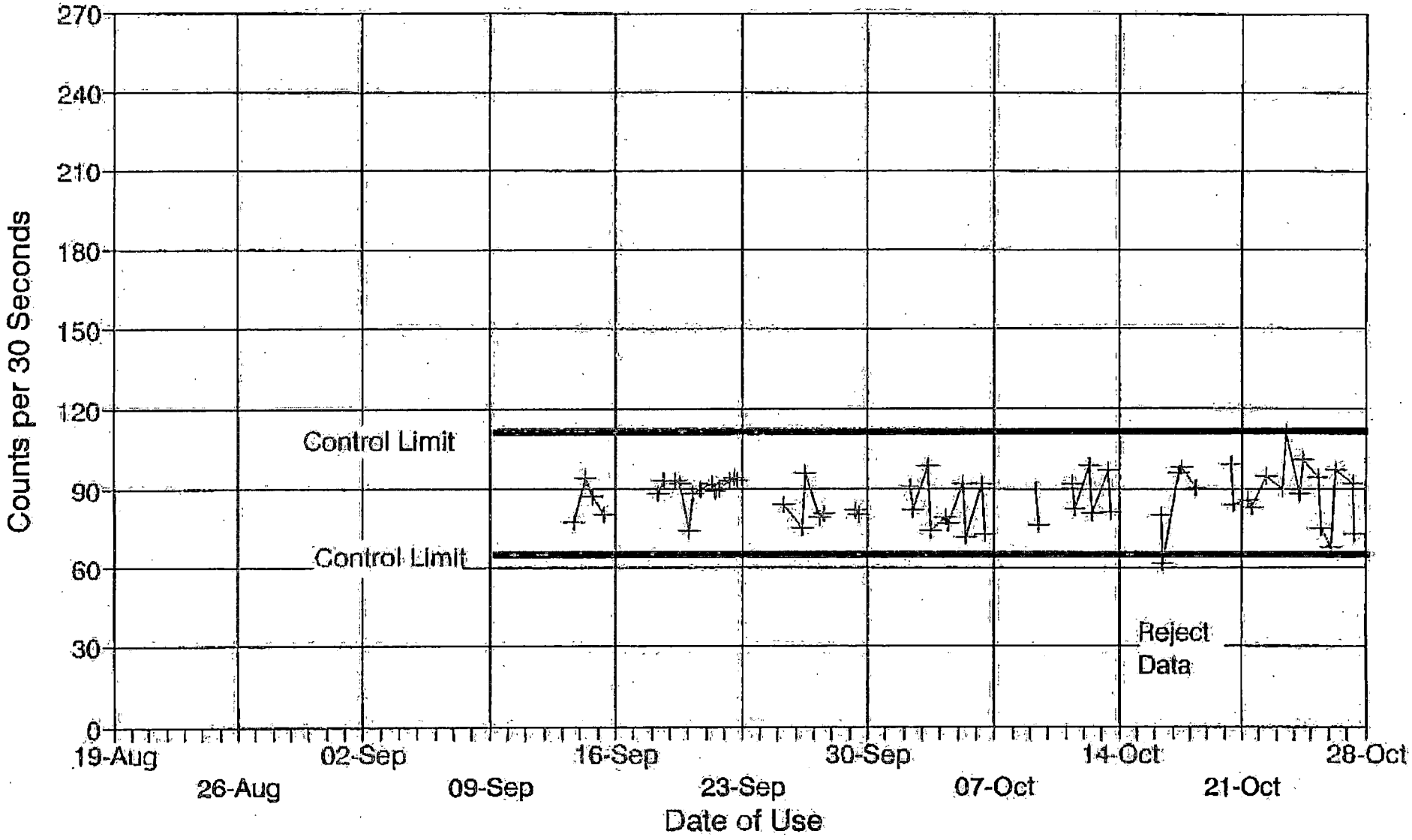
Instrument Response Checks



ESP-2 SN 764

WNYNSC Off-Site Radiation Investigation

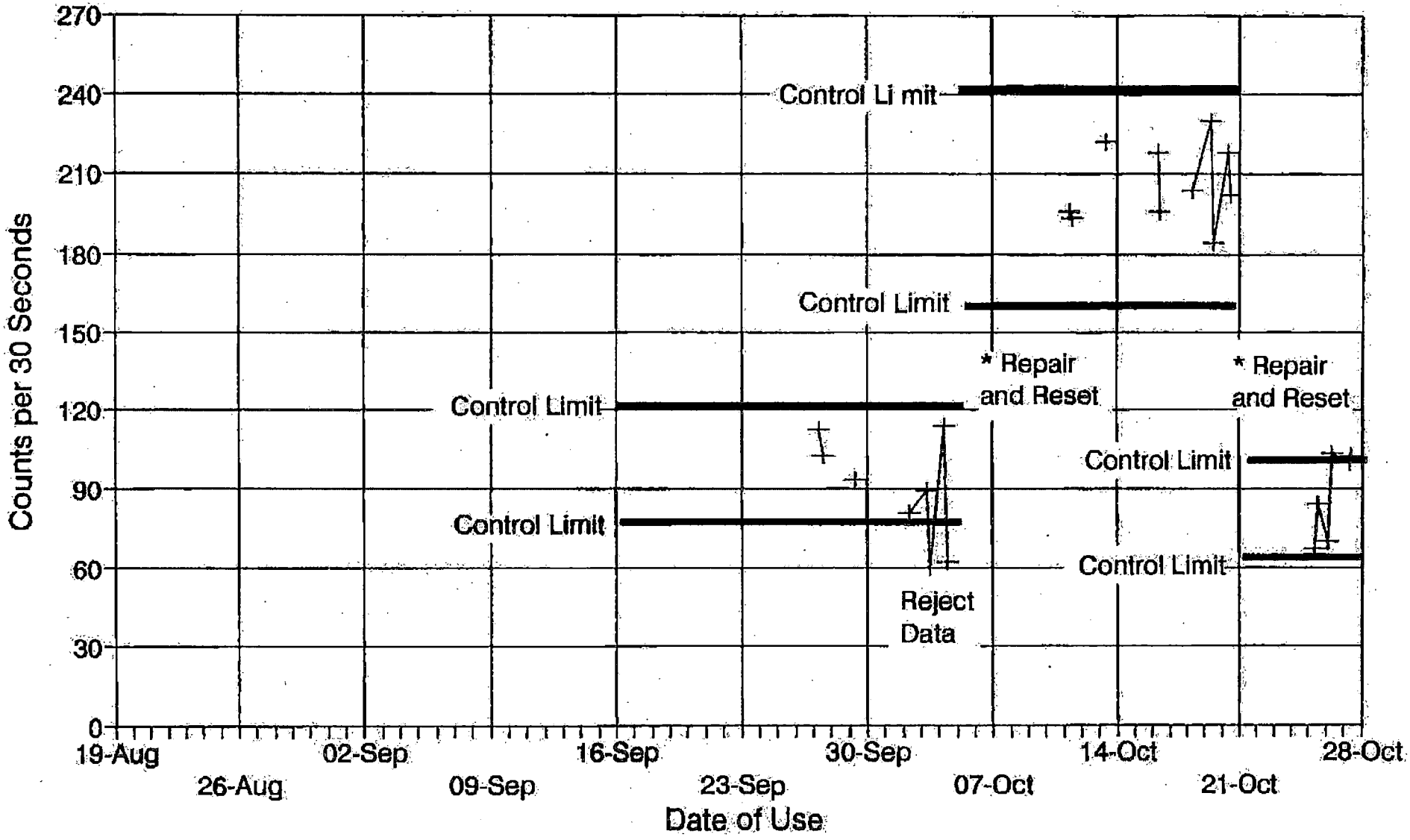
Instrument Response Checks



ESP-2 SN 773

WNYNSC Off-Site Radiation Investigation

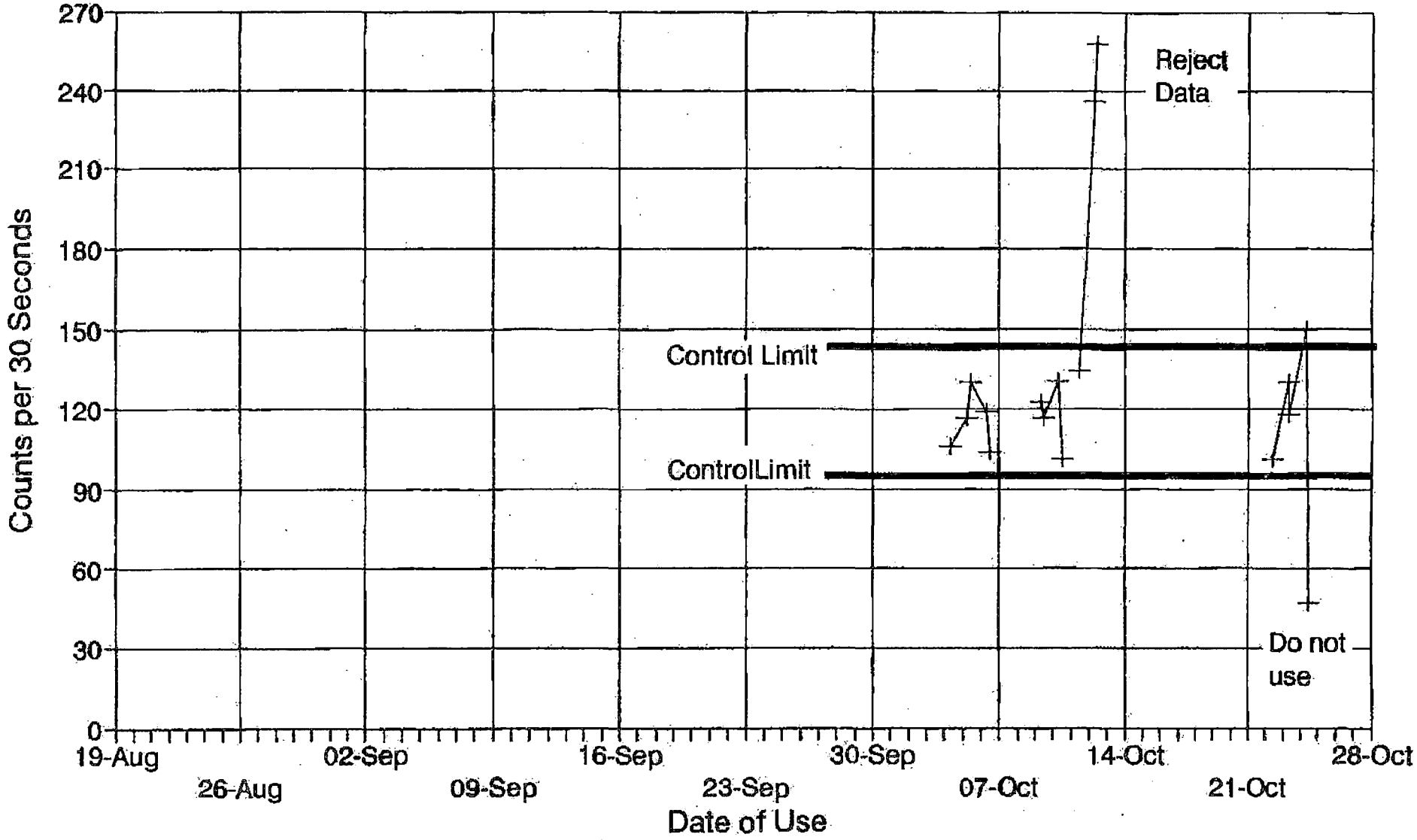
Instrument Response Checks



ESP-2 SN 911

WNYNSC Off-Site Radiation Investigation

Instrument Response Checks



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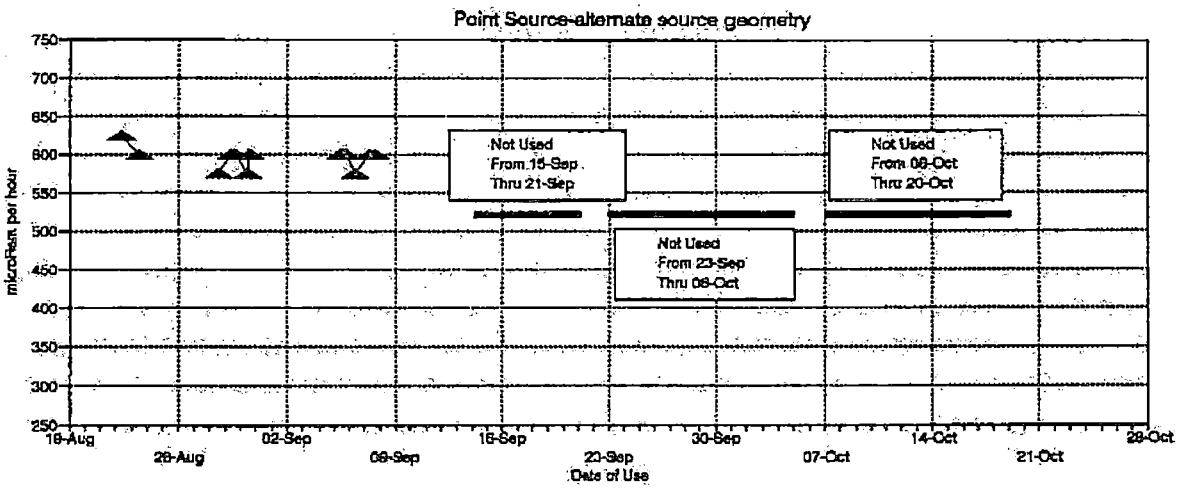
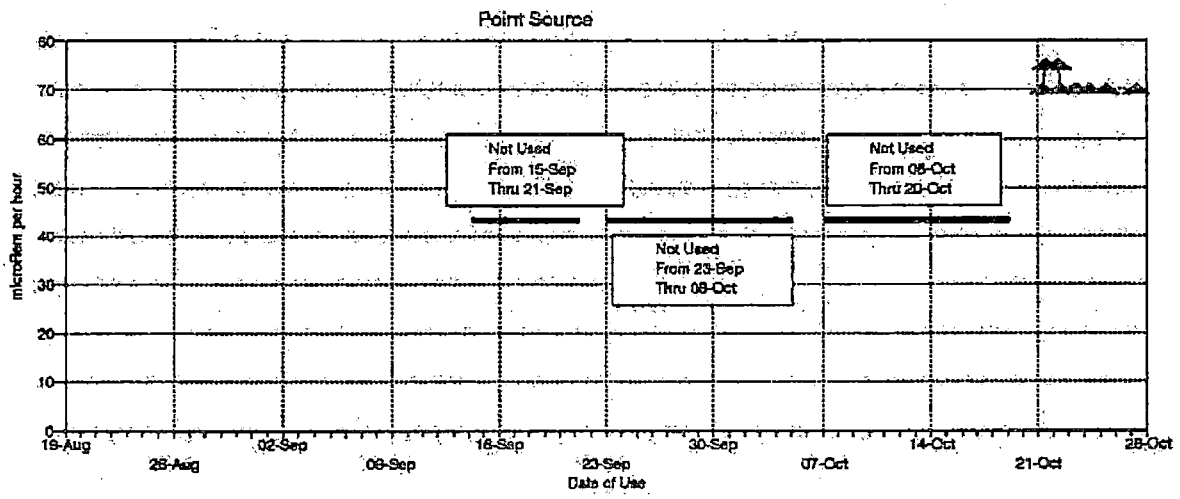
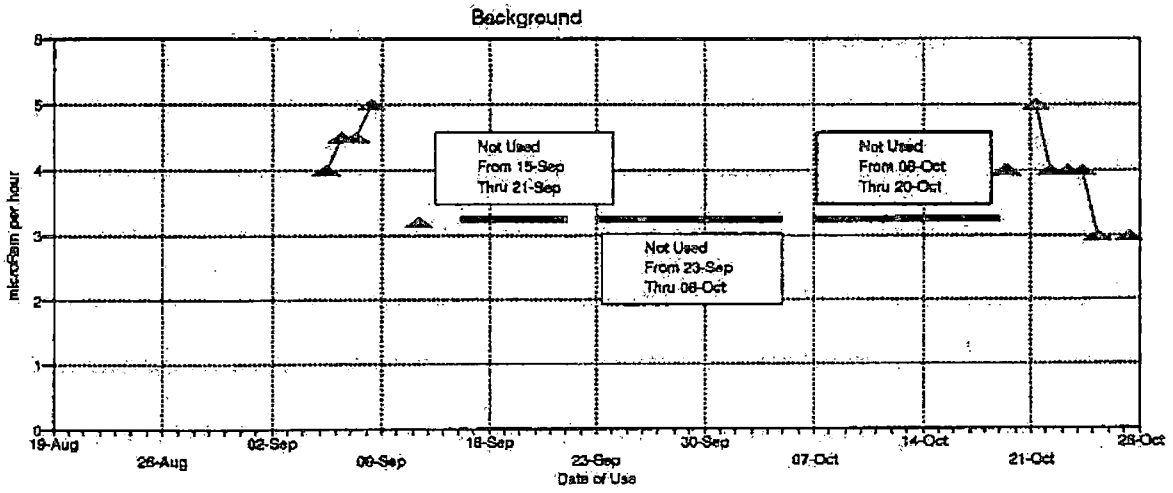
Instrument Responce Checks

BICRON SN A880N

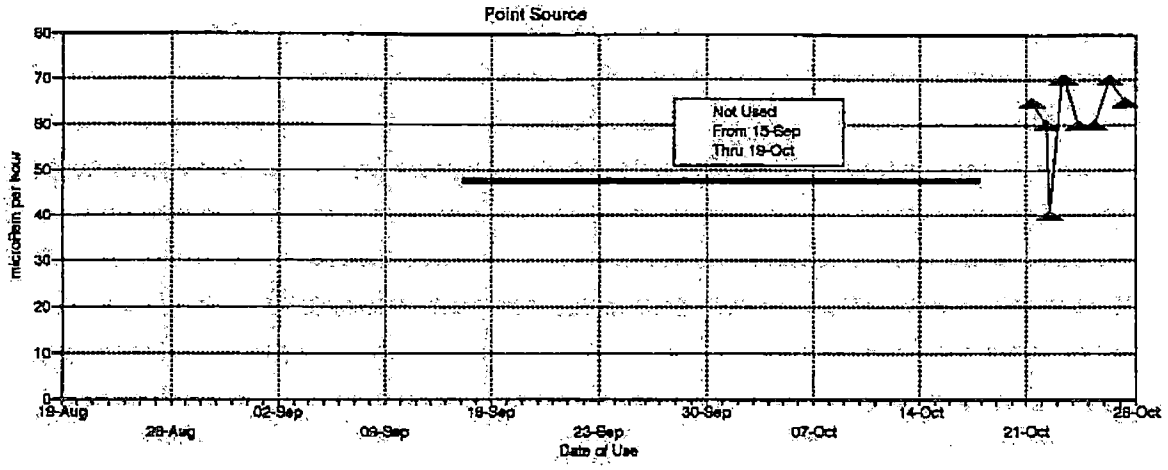


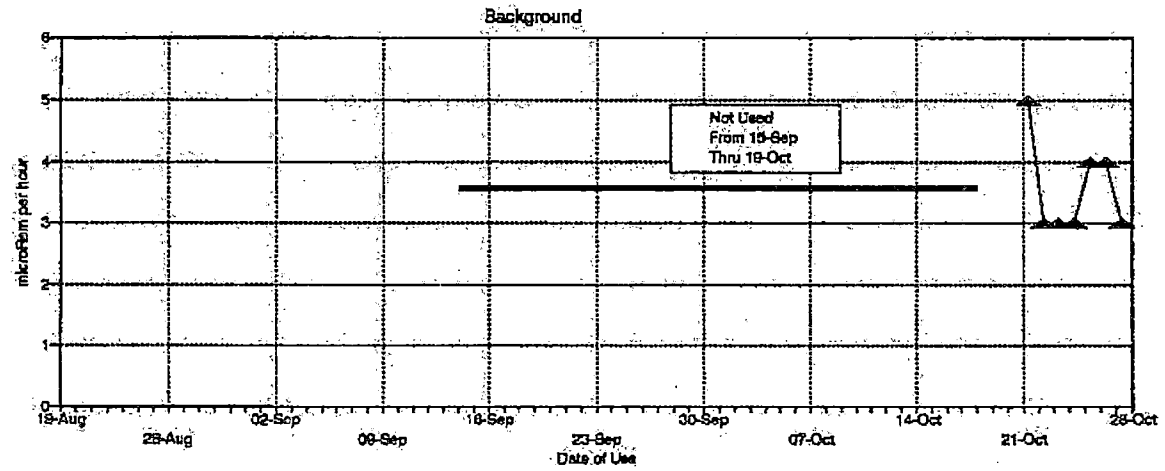




WNYNSC Off-Site Radiation Investigation

Instrument Responce Checks
BICRON SN A523M



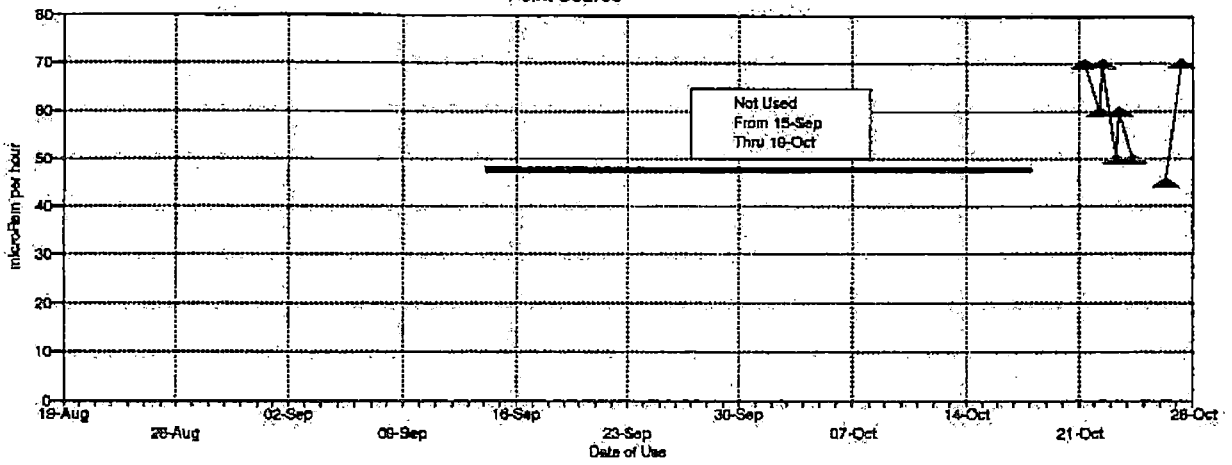


WNYNSC Off-Site Radiation Investigation

Instrument Responce Checks

BICRON SN A882N

Point Source



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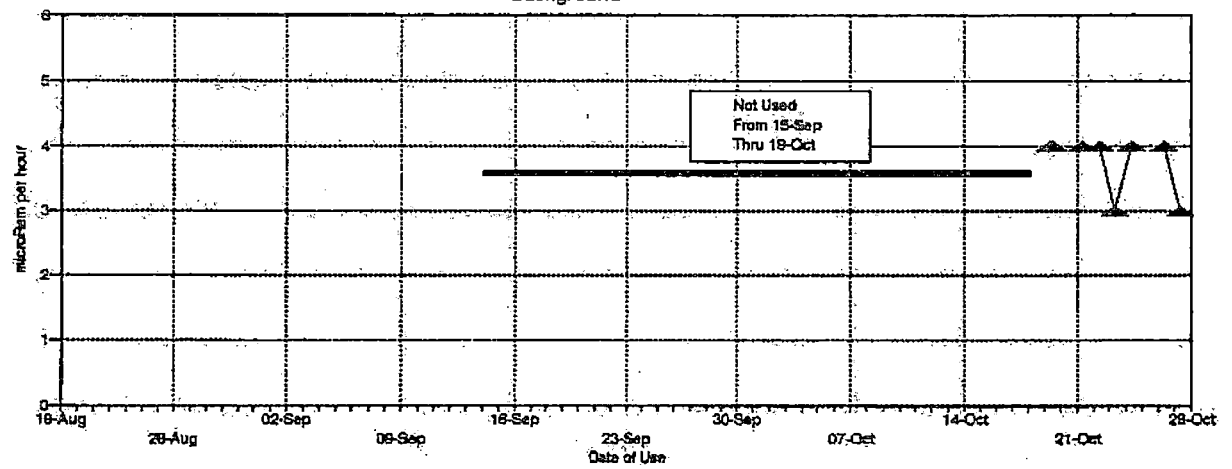

DIR	Location	Grid AVG (pCi/g)	Grid STD (pCi/g)	METERS X	Y	Rel % Diff of AVG	
NW	454208	9.0	7.8	-420	450	4.9	
NW	454208	9.5	2.7	-420	450		
NW	304008	5.7	0.6	-400	300	6.3	
NW	304008	6.1	0.6	-400	300		
NW	354008	5.9	1.8	-400	350	2.9	
NW	354008	6.0	1.7	-400	350		
NW	404008	9.5	3.5	-400	400	22.6	
NW	404008	7.7	3.4	-400	400		
NW	253508	7.8	0.6	-350	250	1.5	
NW	253508	7.7	1.0	-350	250		
NW	303508	9.7	1.1	-350	300	3.0	
NW	303508	9.4	1.9	-350	300		
NW	353508	20.7	3.9	-350	350	9.6	
NW	353508	18.9	1.8	-350	350		
NW	403508	18.3	2.4	-350	400	76.9	**
NW	403508	10.3	1.5	-350	400		
NW	203008	7.8	1.5	-300	200	0.2	
NW	203008	7.8	2.0	-300	200		
NW	253008	7.8	0.7	-300	250	7.3	
NW	253008	8.4	0.6	-300	250		
NW	303008	13.1	1.9	-300	300	2.6	
NW	303008	13.4	3.3	-300	300		
NW	353008	14.9	3.3	-300	350	3.5	
NW	353008	15.5	3.2	-300	350		
NW	403008	9.2	1.2	-300	400	6.0	
NW	403008	9.8	0.9	-300	400		

DIR	Location	Grid AVG (pCi/g)	Grid STD (pCi/g)	METERS X	METERS Y	Rel % Diff of AVG
NW	202508	8.5	0.9	-250	200	4.6
NW	202508	8.2	0.8	-250	200	
NW	252508	15.9	3.9	-250	250	2.4
NW	252508	16.3	4.7	-250	250	
NW	302508	19.6	6.2	-250	300	5.9
NW	302508	18.5	4.0	-250	300	
NW	352508	8.5	2.0	-250	350	8.3
NW	352508	9.3	2.4	-250	350	
NW	402508	7.4	1.2	-250	400	0.9
NW	402508	7.5	1.0	-250	400	
NW	452508	9.1	0.7	-250	450	2.6
NW	452508	9.4	0.9	-250	450	
NW	232308	13.1	2.4	-230	230	4.1
NW	232308	12.6	2.3	-230	230	
NW	152008	7.8	0.9	-200	150	4.3
NW	152008	7.5	0.8	-200	150	
NW	202008	12.2	1.8	-200	200	4.9
NW	202008	11.6	2.0	-200	200	
NW	252008	16.6	7.3	-200	250	15.4
NW	252008	19.6	8.0	-200	250	
NW	302008	13.2	2.5	-200	300	0.1
NW	302008	13.2	2.4	-200	300	
NW	352008	9.2	0.7	-200	350	5.6
NW	352008	9.8	1.0	-200	350	
NW	402008	8.7	1.3	-200	400	0.5
NW	402008	8.7	1.2	-200	400	

DIR	Location	Grid AVG (pCi/g)	Grid STD (pCi/g)	METERS X	Y	Rel % Diff of AVG
NW	331808	8.1	2.0	-180	330	12.7
NW	331808	9.2	2.5	-180	330	
NW	51508	9.3	1.0	-150	50	5.2
NW	51508	8.9	0.8	-150	50	
NW	101508	4.2	1.2	-150	100	1.7
NW	101508	4.2	0.8	-150	100	
NW	151508	9.7	1.9	-150	150	6.6
NW	151508	10.4	1.2	-150	150	
NW	201508	19.1	2.3	-150	200	5.2
NW	201508	18.1	1.6	-150	200	
NW	251508	11.2	0.9	-150	250	6.1
NW	251508	12.0	0.9	-150	250	
NW	351508	8.1	1.0	-150	350	2.8
NW	351508	7.9	0.6	-150	350	
NW	401508	6.5	1.3	-150	400	2.0
NW	401508	6.7	2.0	-150	400	
NW	41008	6.3	1.3	-100	40	1.7
NW	41008	6.4	1.6	-100	40	
NW	51008	5.4	0.8	-100	50	3.9
NW	51008	5.2	1.6	-100	50	
NW	151008	9.8	1.3	-100	150	19.2
NW	151008	12.1	2.2	-100	150	
NW	201008	10.5	3.5	-100	200	14.9
NW	201008	12.3	4.5	-100	200	
NW	251008	10.7	1.4	-100	250	9.3
NW	251008	9.7	0.8	-100	250	

DIR	Location	Grid AVG (pCi/g)	Grid STD (pCi/g)	METERS X	METERS Y	Rel % Diff of AVG	
NW	301008	8.2	0.7	-100	300	3.8	
NW	301008	8.5	0.9	-100	300		
NW	351008	8.2	0.8	-100	350	2.1	
NW	351008	8.1	0.7	-100	350		
NW	401008	6.3	1.1	-100	400	24.9	*
NW	401008	5.0	1.5	-100	400		
NW	10908	8.1	2.5	-90	10	12.1	
NW	10908	9.2	0.9	-90	10		
SW	40816	6.0	0.4	-80	-40	12.9	
SW	40816	6.8	0.9	-80	-40		
SW	90608	4.9	1.2	-60	-90	17.5	
SW	90608	6.0	1.4	-60	-90		
SW	80608	4.6	1.6	-60	-80	16.7	
SW	80608	5.5	2.0	-60	-80		
NW	100608	34.5	9.6	-60	100	1.9	
NW	100608	33.9	10.1	-60	100		
NW	110608	28.5	9.1	-60	110	5.5	
NW	110608	30.2	12.4	-60	110		
NW	70508	20.7	2.6	-50	70	4.2	
NW	70508	21.6	1.8	-50	70		
NW	80508	20.4	5.8	-50	80	7.9	
NW	80508	18.9	4.3	-50	80		
NW	150508	7.7	2.0	-50	150	9.8	
NW	150508	8.6	2.4	-50	150		
NW	200508	5.8	1.8	-50	200	5.8	
NW	200508	6.2	0.8	-50	200		

DIR	Location	Grid AVG (pCi/g)	Grid STD (pCi/g)	METERS X	METERS Y	Rel % Diff of AVG
NW	120408	12.5	3.8	-40	120	6.3
NW	120408	13.3	3.5	-40	120	
NW	30308	13.7	4.6	-30	30	17.9
NW	30308	11.6	4.2	-30	30	
SW	100008	5.1	0.6	0	-100	2.1
SW	100008	5.0	1.1	0	-100	
SW	90008	4.6	1.2	0	-90	5.6
SW	90008	4.9	0.8	0	-90	
NW	16	24.1	4.3	0	0	4.5
NW	16	23.0	4.0	0	0	
NW	150008	6.7	1.3	0	150	7.3
NW	150008	6.2	1.7	0	150	
SE	20116	8.8	2.9	10	-20	1.4
SE	20116	8.9	2.5	10	-20	
SE	100516	4.8	0.4	50	-100	18.7
SE	100516	5.9	1.1	50	-100	

* - Relative percent difference >25% but grid average <5 pCi/g

** - Grid was extremely brushy and hard to enter; surveyor could not assure that he returned to the same spot for resurvey. Data accepted.

DIR	Location	Grid AVG (counts)	Grid STD (counts)	METERS X	Y	Rel % Diff of AVG
SW	90004	187.4	26.5	0	-90	13.1
SW	90004	162.8	17.8	0	-90	
SW	100404	132	75.0	-40	-100	40.8
SW	100404	185.8	24.3	-40	-100	
SW	90404	171.6	17.3	-40	-90	4.3
SW	90404	179	30.7	-40	-90	
NW	70504	430.4	246.5	-50	70	22.0
NW	70504	525	137.0	-50	70	
NW	80504	569.3	35.8	-50	80	7.4
NW	80504	611.5	79.6	-50	80	
NW	51004	177.5	122.8	-100	50	42.0
NW	51004	252	109.0	-100	50	
NW	150004	187.8	107.5	0	150	30.2
NW	150004	244.6	76.0	0	150	
NW	150204	224.6	126.3	-20	150	2.1
NW	150204	229.4	22.7	-20	150	
NW	200004	182.6	107.5	0	200	25.7
NW	200004	229.6	66.3	0	200	
NW	352004	167.2	127.9	-200	350	8.1
NW	352004	180.8	31.7	-200	350	
NW	402004	155.8	92.5	-200	400	9.2
NW	402004	170.2	33.2	-200	400	
NW	202004	208	129.9	-200	200	22.7
NW	202004	255.2	23.9	-200	200	
NW	51504	134	77.6	-150	50	27.2
NW	51504	170.4	20.5	-150	50	

DIR	Location	Grid AVG (counts)	Grid STD (counts)	METERS X	Y	Rel % Diff of AVG
NW	151504	203	130.8	-150	150	15.2
NW	151504	233.8	48.0	-150	150	
NW	251504	193	109.8	-150	250	3.6
NW	251504	186	35.2	-150	250	
NW	201504	436	246.7	-150	200	33.0
NW	201504	580	101.2	-150	200	
NW	251004	202	124.0	-100	250	33.9
NW	251004	270.5	36.6	-100	250	
NW	302004	287.4	169.2	-200	300	21.0
NW	302004	347.8	55.8	-200	300	
NW	403004	220.6	125.2	-300	400	12.3
NW	403004	247.8	17.0	-300	400	
NW	351004	172.2	98.6	-100	350	37.2
NW	351004	236.25	85.6	-100	350	
NW	452504	167.2	98.4	-250	450	28.2
NW	452504	214.4	28.5	-250	450	
SW	100504	146.6	82.6	-50	-100	49.7
SW	100504	219.4	79.5	-50	-100	
SW	90504	181.8	11.6	-50	-90	7.5
SW	90504	168.2	15.3	-50	-90	
NW	100604	504.6	323.0	-60	100	31.4
NW	100604	662.8	218.8	-60	100	
NW	1004	185.2	104.9	-100	0	22.6
NW	1004	227	24.0	-100	0	
NW	101004	248.8	139.4	-100	100	30.5
NW	101004	324.8	79.6	-100	100	

DIR	Location	Grid AVG (counts)	Grid STD (counts)	METERS X	Y	Rel % Diff of AVG
NW	150704	212	135.9	-70	150	20.6
NW	150704	255.6	39.6	-70	150	
NW	200504	172.8	118.2	-50	200	9.8
NW	200504	189.8	24.5	-50	200	
NW	252004	298.6	179.6	-200	250	34.2
NW	252004	400.6	42.9	-200	250	
NW	302504	296	6.6	-250	300	5.2
NW	302504	311.5	11.7	-250	300	
NW	303004	235.4	133.1	-300	300	41.6
NW	303004	333.4	26.1	-300	300	
NW	352504	243.25	27.1	-250	350	10.3
NW	352504	218.25	17.7	-250	350	
NW	301504	195.8	121.1	-150	300	13.3
NW	301504	221.8	18.2	-150	300	
NW	401504	162.4	92.7	-150	400	25.7
NW	401504	204.2	16.0	-150	400	
NW	201004	219.8	123.7	-100	200	15.9
NW	201004	254.8	22.2	-100	200	
NW	404404	163.6	92.5	-440	400	35.0
NW	404404	220.8	12.0	-440	400	
NW	202504	142	79.9	-250	200	39.7
NW	202504	198.4	39.9	-250	200	
NW	151004	340	196.2	-100	150	15.1
NW	151004	288.8	38.3	-100	150	
NW	201004	341.8	193.7	-100	200	21.8
NW	201004	416.2	43.6	-100	200	

DIR	Location	Grid AVG (counts)	Grid STD (counts)	METERS X	METERS Y	Rel % Diff of AVG
NW	304004	222	149.3	-400	300	43.9
NW	304004	319.4	47.2	-400	300	
NW	152004	421.4	260.5	-200	150	9.3
NW	152004	382	42.3	-200	150	
NW	303504	423	248.4	-350	300	19.6
NW	303504	505.8	124.8	-350	300	
NW	252504	588.2	345.3	-250	250	0.6
NW	252504	584.8	54.3	-250	250	
NW	353004	420	239.1	-300	350	18.2
NW	353004	496.6	61.4	-300	350	
NW	353504	509.4	290.9	-350	350	26.6
NW	353504	645	69.4	-350	350	
NW	402504	273.5	54.3	-250	400	11.9
NW	402504	241	31.5	-250	400	
NW	351504	166.25	112.0	-150	350	38.2
NW	351504	229.8	31.4	-150	350	
NW	301004	250.4	144.0	-100	300	4.8
NW	301004	262.4	28.7	-100	300	

Instrument Used	DIR	Location	Grid AVG (urem/hr)	Grid STD (urem/hr)	METERS X	Y	Rel % Diff of AVG
A882N	NW	304108	4.0	0.8	-410	300	5.9
A880N	NW	304108	4.3	0.7	-410	300	
A880N	NW	314108	4.3	0.7	-410	310	9.7
A882N	NW	314108	3.9	0.8	-410	310	
A880N	NW	324108	4.0	0.8	-410	320	11.1
A882N	NW	324108	4.5	0.8	-410	320	
A880N	NW	334108	4.5	0.5	-410	330	0.0
A882N	NW	334108	4.5	0.5	-410	330	
A882N	NW	344108	3.5	0.8	-410	340	12.5
A880N	NW	344108	4.0	0.8	-410	340	
A880N	NW	304008	4.1	0.6	-400	300	17.9
A882N	NW	304008	3.5	0.8	-400	300	
A880N	NW	314008	4.1	0.8	-400	310	10.0
A882N	NW	314008	3.8	0.9	-400	310	
A882N	NW	324008	3.6	1.2	-400	320	9.4
A880N	NW	324008	4.0	0.5	-400	320	
A880N	NW	334008	4.3	0.5	-400	330	6.3
A882N	NW	334008	4.0	0.9	-400	330	
A880N	NW	344008	4.1	0.6	-400	340	13.8
A882N	NW	344008	3.6	0.7	-400	340	
A882N	NW	221408	5.1	1.2	-140	220	8.0
A523M	NW	221408	4.7	1.1	-140	220	
A880N	NW	30908	3.6	1.1	-90	30	9.1
A523M	NW	30908	4.0	0.6	-90	30	
A523M	NW	40908	4.9	0.6	-90	40	39.2
A880N	NW	40908	3.0	0.5	-90	40	
A882N	NW	30808	3.9	0.5	-80	30	8.6

Instrument Used	DIR	Location	Grid AVG (urem/hr)	Grid STD (urem/hr)	METERS X	Y	Rel % Diff of AVG
A880N	NW	30808	3.6	0.5	-80	30	
A882N	NW	40808	4.2	1.2	-80	40	8.1
A880N	NW	40808	3.9	1.0	-80	40	
A880N	NW	30708	3.6	1.1	-70	30	19.4
A523M	NW	30708	4.5	1.1	-70	30	
A523M	NW	40708	4.7	0.8	-70	40	1.4
A523M	NW	40708	4.6	0.9	-70	40	
A880N	NW	40708	3.6	0.5	-70	40	
A523M	NW	30608	4.9	1.1	-60	30	20.5
A880N	NW	30608	3.9	0.6	-60	30	
A523M	NW	40608	4.1	0.4	-60	40	2.9
A880N	NW	40608	4.3	0.5	-60	40	
A523M	NW	40608	5.1	0.4	-60	40	
A882N	NW	240608	4.2	0.7	-60	240	6.9
A882N	NW	240608	4.5	0.8	-60	240	
A523M	NW	30508	4.8	1.0	-50	30	15.2
A880N	NW	30508	4.1	1.0	-50	30	
A880N	NW	40508	4.6	1.1	-50	40	3.9
A523M	NW	40508	4.8	0.7	-50	40	
A882N	NW	30408	4.3	0.7	-40	30	7.8
A880N	NW	30408	4.0	0.9	-40	30	
A882N	NW	40408	5.1	0.9	-40	40	19.1
A880N	NW	40408	4.3	1.0	-40	40	
A523M	NW	30308	4.6	0.5	-30	30	20.5
A880N	NW	30308	3.6	0.7	-30	30	
A880N	NW	40308	5.1	1.0	-30	40	2.4
A523M	NW	40308	5.3	0.3	-30	40	

Instrument Used	DIR	Location	Grid AVG (urem/hr)	Grid STD (urem/hr)	METERS X	Y	Rel % Diff of AVG
A880N	NW	30208	4.3	0.7	-20	30	17.1
A882N	NW	30208	5.1	0.9	-20	30	
A880N	NW	40208	4.6	1.4	-20	40	14.0
A882N	NW	40208	5.4	1.1	-20	40	
A880N	NW	30108	4.6	0.9	-10	30	26.7
A882N	NW	30108	6.3	1.4	-10	30	
A882N	NW	40108	5.1	1.1	-10	40	1.3
A880N	NW	40108	5.0	1.3	-10	40	
A882N	NW	50108	5.9	1.3	-10	50	25.5
A880N	NW	50108	4.4	0.5	-10	50	
A880N	NW	60108	4.5	0.5	-10	60	25.8
A882N	NW	60108	6.1	1.2	-10	60	
A882N	NW	70108	6.1	1.9	-10	70	32.7
A880N	NW	70108	4.1	0.6	-10	70	
A882N	NW	80108	5.4	1.1	-10	80	31.0
A880N	NW	80108	3.8	0.7	-10	80	
A882N	NW	90108	4.3	0.9	-10	90	15.0
A880N	NW	90108	3.8	0.7	-10	90	
A880N	NW	100108	4.0	0.5	-10	100	22.9
A882N	NW	100108	5.2	1.6	-10	100	
A882N	NW	110108	4.4	1.1	-10	110	16.7
A880N	NW	110108	3.8	0.5	-10	110	
A880N	NW	120108	3.9	0.6	-10	120	6.1
A882N	NW	120108	4.1	0.6	-10	120	
A880N	NW	130108	4.0	0.8	-10	130	26.4
A882N	NW	130108	5.4	1.3	-10	130	
A882N	NW	140108	5.3	1.4	-10	140	26.2

Instrument Used	DIR	Location	Grid AVG (urem/hr)	Grid STD (urem/hr)	METERS X	Y	Rel % Diff of AVG
A880N	NW	140108	3.9	0.8	-10	140	
A880N	NW	30008	5.1	1.0	0	30	22.8
A882N	NW	30008	6.6	0.8	0	30	
A880N	NW	40008	5.5	0.5	0	40	3.5
A882N	NW	40008	5.3	0.7	0	40	
A880N	NW	50008	4.3	0.7	0	50	29.2
A882N	NW	50008	6.0	1.4	0	50	
A880N	NW	60008	4.4	0.7	0	60	20.5
A882N	NW	60008	5.5	1.3	0	60	
A880N	NW	70008	3.6	0.5	0	70	22.7
A882N	NW	70008	4.7	0.8	0	70	
A880N	NW	80008	4.0	0.8	0	80	3.2
A882N	NW	80008	3.9	0.6	0	80	
A882N	NW	90008	4.8	0.8	0	90	21.6
A880N	NW	90008	3.8	1.0	0	90	
A882N	NW	100008	4.3	0.8	0	100	11.3
A880N	NW	100008	3.9	0.6	0	100	
A882N	NW	110008	4.9	1.0	0	110	31.6
A880N	NW	110008	3.4	0.5	0	110	
A882N	NW	120008	4.5	0.6	0	120	19.4
A880N	NW	120008	3.6	0.5	0	120	
A880N	NW	130008	4.0	0.8	0	130	1.5
A882N	NW	130008	4.1	0.7	0	130	
A880N	NW	140008	3.8	0.5	0	140	17.8
A882N	NW	140008	4.6	0.9	0	140	

Appendix B

Correlation of Instrument Response to Soil Radioactivity

TAB B: Correlation of Instrument Response to Soil Radioactivity

The ESP-2 single channel analyzer provides a response proportional to the energy and number of gamma radiations detected. The interpretation of the instrument response relies on a knowledge of the geometrical distribution of the source being measured. Calibration laboratories in the U.S. provide calibration with a point source and do not have an extended geometry source available. For the Phase II study, in order to infer ground concentration from measurements near the ground surface, the instrument response must be correlated in the field to known ground concentrations of Cs-137.

Methods

Instrument correlation is accomplished through a procedure of establishing the response of an instrument (the *primary* instrument) to known concentrations of soil activity, then comparing other instruments response (the *secondary* instruments) to that of the primary instrument. The procedure is detailed in the Technical Work Plan. Briefly, the correlation procedure involves:

STEP 1 The primary instrument (SN0701) was used at DG#3 and DG#4 to obtain measurements over soil positions prior to sampling. Linear regression analysis was then used to establish a correlation between instrument response and the activity concentration in the 0-2" layer reported by the laboratory.

STEP 2 A reference range was set up along row 3 in DG#1 and the primary instrument was used to infer the ground activity concentration at 11 positions on the row.

STEP 3 When another meter was readied for use in the survey, it was taken to DG#3 and measurements of gamma radiation were obtained at the 11 positions.

STEP 4 Linear regression analysis was then used to establish a correlation between response of the secondary instrument and the activity concentration in the 0-2" layer inferred from the primary instrument.

Results and Discussion

The correlation of the primary instrument was performed by measurements at DG#3 on 14 July and at DG#4 on 15 August. The data for the primary instrument correlation and subsequent secondary correlations is provided. A graph illustrating the correlation relationship for the primary instrument is provided in Figure 4-5.

Using Pearson's product moment method, analysis indicates that a statistically significant correlation ($\alpha = 0.01$) exists between the counts measured by the primary instrument and the soil activity in the 0-2" layer. Linear regression analysis determined that the correlation equation was

$$\underset{(pCi/g)}{\text{Activity}} = \underset{(\text{in 30 sec})}{\text{Counts}} * 0.090 - 0.39 \quad [R\text{^}2 = 0.74]$$

where 0.090 is the *slope coefficient* in units of (pCi/g) per (counts in 30 seconds)

and - 0.39 is the *intercept coefficient* in units of (pCi/g).

Using this correlation equation, one can predict the Cs-137 activity in the 0-2" soil layer with a value of counts observed in a 30-second measurement at the ground surface.

The *correlation coefficient* [R^2] is a measure of the prediction strength of the correlation. A value of R^2 = 1.0 describes a perfect correlation while a value of R^2 = 0 indicates that there is no correlation between the paired data of observed counts and soil activity.

The primary instrument correlation in DG#3 and DG#4 resulted in a correlation coefficient of R^2 = 0.74. This is interpreted to mean that 74% of the difference between the observed and predicted Cs-137 concentration in the 0-2" soil layer is explained by the regression equation. The unexplained difference could be due to physical factors such as depth of the humus-clay interface and radioactivity in the layer(s) below the 0-2" layer, as well as random noise in the detector electronics.

The 95% confidence interval indicated on the graph in Figure 4-5 shows the range of the uncertainty in the correlation, due to the unexplained difference, due to random decay of the Cs-137 and due to random noise signals in the detector. The uncertainty in the activity interpreted from the counts ranges from ± 1.7 pCi/g near the center of the range, (at 15 pCi/g) to ± 4.1 pCi/g near the extremes (at 5 and 25 pCi/g). For inferred activities above 15 pCi/g, the 95% confidence interval is approximately ± 11-16% of the activity. As the total counts and the inferred activity get smaller, the uncertainty as a percent of the activity grows larger. For small activity concentrations, e.g. 5 ± 4 pCi/g, the uncertainty can grow to ± 80%, or more. Thus the regression/correlation equation is more precise at evaluating activities above 12-15 pCi/g. At lower activities, the correlation can verify that the activity is low, but the predicted value could have a large confidence interval or uncertainty.

Five ESP-2 instruments were used on the project during the field survey. Two were supplied by the Energy Authority contractor, Dames & Moore, and three were provided by West Valley Demonstration project (WVDP). The instruments were correlated before the initial use in the field, and the correlation remained assigned to the instrument so long as operational and stability checks performed before daily use were acceptable. When an instrument failed in the field, upon receipt from repair and calibration support, the instrument was correlated again prior to use in the field survey. Table 4-5 summarizes the correlation factors for secondary instruments used during the survey. Data and graphs for each of the correlations is provided.

Enclosures

- Table and graph of primary instrument Correlation Data
- Summary table of secondary instrument Correlation Data
- Table and graph of Correlation Data for each secondary instrument

Primary Instrument Correlation

ESP-2, SN 0701
WNYNSC Off-Site Radiation Investigation

GRID: DG#3 & DG#4

Average Instrument Reading Counts/30 sec @ surface	@ 0.5 m	@ 1.0 m	Location in Grid	Cs-137 Activity in pCi / g Layer (in) 0-2"	2-4"	4-6"	DG #	Activity Ratio to surface layer % in layer 0-2"	2-4"	4-6"
83.6			1F	7.22	1.86	0.21	3	1.000	0.258	0.029
101.4			5J	7.87	4.31	2.24	3	1.000	0.548	0.285
107.9			5H	8.56	3.91	1.12	3	1.000	0.457	0.131
120.5			3F	10.7	4.96	1.04	3	1.000	0.464	0.097
143.8			5F	15.7	5.45	0.68	3	1.000	0.347	0.043
150.7			5D	16	11.6	3.43	3	1.000	0.725	0.214
162.1	115.3		5B	10.0	2.00	0.13	4	1.000	0.200	0.013
169.0	142.5		3F	12.0	8.00	0.58	4	1.000	0.667	0.048
194.9	150.8		8I	18.0	1.60	0.14	4	1.000	0.089	0.008
200.0	152.7		5D	15.0	6.60	0.95	4	1.000	0.440	0.063
200.0	151.9		9F	17.0	2.80	0.65	4	1.000	0.165	0.038
207.0	167.8		5H	22.0	3.10	0.84	4	1.000	0.141	0.038
216.7	180.9		5F	19.0	2.60	0.47	4	1.000	0.137	0.025
217.9	135.7		5J	25.0	6.80	0.38	4	1.000	0.272	0.015
270.4	176.5		7F	21.0	7.20	1.00	4	1.000	0.343	0.048

Regression Output:		
Constant		-0.38821
Std Err of Y Est		2.89279
R Squared		0.741487
No. of Observations		15
Degrees of Freedom		13
X Coefficient(s)	0.090684	
Std Err of Coef.	0.014851	

Sum_x =	2545.9
Sum_x^2	470050.4
Sum_y =	225.1
Sum_y^2	3797.3
Sum_xy =	2771.0
Avg_x =	169.7
SEE =	2.893
t a/2 =	2.160

Slope	=	0.0907
Intercept	=	-0.3882
R^2	=	0.7415

Counts @ 5 cm x	0-2" Activity y	Regression Activity y'	x^2	y^2	x*y	95% Uncertainty E	y'-E	y'+E
50.0		4.15	2500.0	0.0	50.0	4.166	-0.020	8.312
83.6	7.22	7.19	6989.0	52.1	90.8	3.199	3.994	10.392
101.4	7.87	8.81	10282.0	61.9	109.3	2.722	6.086	11.529
107.9	8.56	9.40	11642.4	73.3	116.5	2.557	6.840	11.953
120.5	10.7	10.54	14520.3	114.5	131.2	2.258	8.282	12.797
143.8	15.7	12.85	20678.4	246.5	159.5	1.815	10.837	14.467
150.7	16.0	13.28	22710.5	256.0	166.7	1.725	11.553	15.003
162.1	10.0	14.31	26276.4	100.0	172.1	1.632	12.680	15.943
169.0	12.0	14.94	28561.0	144.0	181.0	1.614	13.324	16.551
194.9	18.0	17.29	37986.0	324.0	212.9	1.804	15.482	19.090
200.0	15.0	17.75	40000.0	225.0	215.0	1.883	15.866	19.632
200.0	17.0	17.75	40000.0	289.0	217.0	1.883	15.866	19.632
207.0	22.0	18.38	42849.0	484.0	229.0	2.008	16.375	20.392
216.7	19.0	19.26	46958.9	361.0	235.7	2.208	17.056	21.471
217.9	25.0	19.37	47480.4	625.0	242.9	2.234	17.138	21.606
270.4	21.0	24.13	73116.2	441.0	291.4	3.810	20.523	27.743
290.0		25.91	84100.0	0.0	290.0	4.182	21.728	30.092
2545.9	225.05	225.05	470050.4	3797.3189	2770.95			

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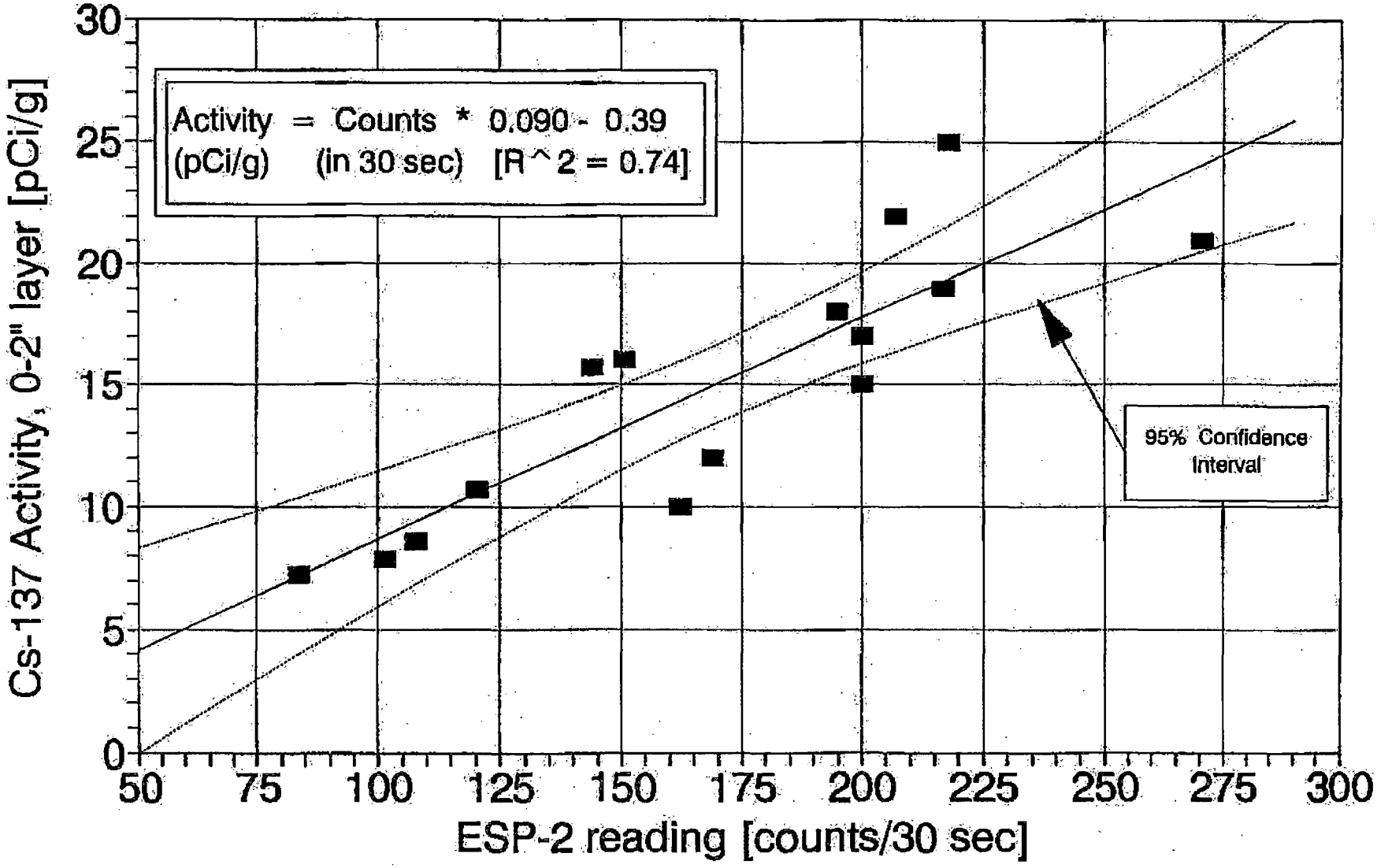
Instrument Correlation



SN 0701, detector at 5 cm, DG#3 and DG#4

Table 4-5
Correlation Factors for
Secondary Instruments During Fine Grid Survey

Date	Instrument Serial Number	Slope Coefficient [1]	Intercept Coefficient [1]	Regression Coefficient [2]
02-Sep-94	0701 [3]	0.0931	+1.335	0.98
14-Sep-94	0701 [3]	0.0907	-0.388	1.00
14-Sep-94	0773	0.178	-4.89	0.94
28-Sep-94	0911	0.0762	+3.19	0.80
03-Oct-94	0701	0.0836	+2.44	0.97
04-Oct-94	0764	0.0755	+3.05	0.94
04-Oct-94	1674	0.0649	+2.71	0.94
11-Oct-94	0701	0.0928	+4.27	0.94
12-Oct-94	0911	0.0367	+2.54	0.95
26-Oct-94	0764	0.0782	+2.29	0.95
26-Oct-94	0773	0.142	-0.55	0.94
26-Oct-94	0911	0.150	+0.63	0.93

NOTE: 1 Linear Regression Equation: Activity (pCi/g) = slope * counts in 30 sec + Intercept

2 Significant linear correlation at α=0.01 level. R^2 near 1.0 indicates a strong correlation, while R^2 near 0.0 indicates little or no correlation.

3 Primary instrument correlated to itself.

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INSTRUMENT CORRELATION

Date 02-Sep-94

DG#1	Counts in 30 seconds within 5 cm of surface					Average	Stnd Dev
3A	137		4A	192	197	194.5	3.5
3B	123		4B	167	142	154.5	17.7
3C	160		4C	185	182	183.5	2.1
3D	247		4D	259	265	262.0	4.2
3E	85		4E	228	209	218.5	13.4
3F	256		4F	119	118	118.5	0.7
3G	347	348	4G	262	264	263.0	1.4
3H	258		4H	229	242	235.5	9.2
3I	243		4I	152	134	143.0	12.7
3J	275		4J	230	224	227.0	4.2
3K	170		4K	239	264	251.5	17.7

Location	Count @ 5 cm	Activity							
	x	y	y'	x^2	y^2	x*y	E	y'-E	y'+E
	55		6.46	3025.0	0.0	0.0	1.861	4.596	8.318
3E	85.0	9.27	9.25	7225.0	85.9	788.0	1.575	7.676	10.826
3B	123.0	11.72	12.79	15129.0	137.4	1441.6	1.242	11.548	14.031
3A	137.0	14.76	14.09	18769.0	217.9	2022.1	1.132	12.961	15.225
3C	160.0	16.07	16.23	25600.0	258.2	2571.2	0.976	15.259	17.211
3K	170.0	18.56	17.17	28900.0	344.5	3155.2	0.922	16.245	18.088
3I	243.0	22.65	23.96	59049.0	513.0	5504.0	0.896	23.068	24.860
3D	247.0	25.73	24.34	61009.0	662.0	6355.3	0.914	23.422	25.251
3F	256.0	23.55	25.17	65536.0	554.6	6028.8	0.962	24.213	26.137
3H	258.0	26.54	25.36	66564.0	704.4	6847.3	0.974	24.387	26.335
3J	275.0	25.82	26.94	75625.0	666.7	7100.5	1.085	25.859	28.029
3G	347.5	34.34	33.70	120756.3	1179.2	11933.2	1.707	31.989	35.403
	375		36.26	140625.0	0.0	0.0	1.974	34.283	38.230
Sums	2301.5	229.01	229.01	544162.3	5323.8	53747.1	12.4	216.6	241.4

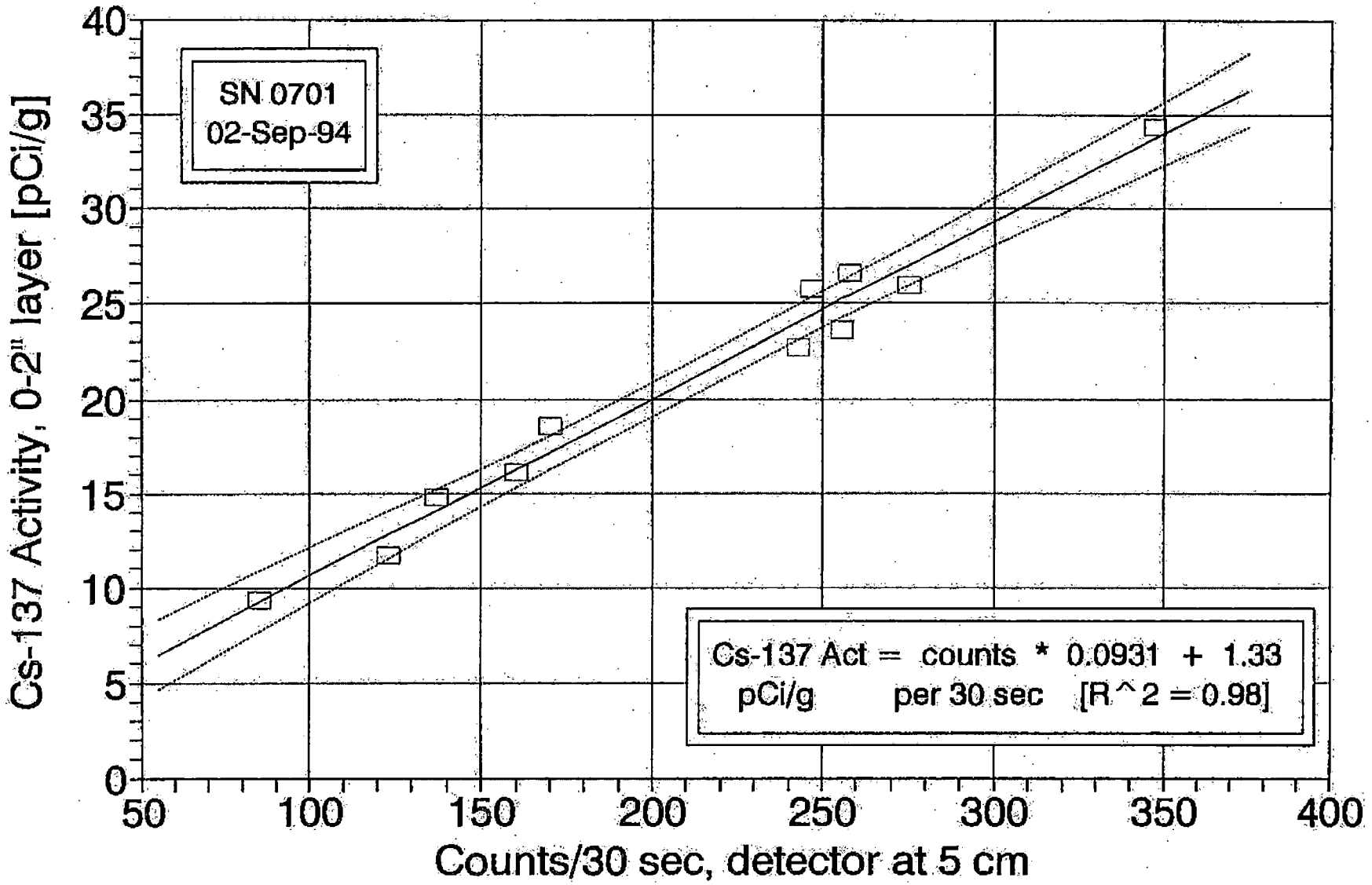
Regression Output:		
Constant		1.335116
Std Err of Y Est		1.198884
R Squared		0.976735
No. of Observations		11
Degrees of Freedom		9
X Coefficient(s)	0.09312	
Std Err of Coef.	0.00479	

Sum x =	2301.5
Sum x^2	544162.3
Sum y =	229.0
Sum y^2	5323.8
Sum x*y =	53747.1
Avg x =	209.2
SEE =	1.1989
t a/2 =	2.262

Slope	0.093
Intercept	1.335
R^2	0.977

WNYNSC Off-Site Radiation Investigation

Instrument Correlation



WNYNSC Off-Site Radiation Investigation

INSTRUMENT CORRELATION

DG#1	Counts in 30 sec		Average	Stnd Dev
3A	178	156	167.0	15.56
3B	125	142	133.5	12.02
3C	186	177	181.5	6.36
3D	278	298	288.0	14.14
3E	112	101	106.5	7.78
3F	275	253	264.0	15.56
3G	383	383	383.0	0.00
3H	308	286	297.0	15.56
3I	269	239	254.0	21.21
3J	282	298	289.0	9.90
3K	194	224	209.0	21.21

ESP-2 SN 0701
Date 14-Sep-94

NOTE: This is the data set used to infer the ground activity. Thus, it has perfect regression and no error in measuring the ground activity.

SLOPE	=	**0.091**
Intercept	=	**-0.385**
R^2	=	**1.000**

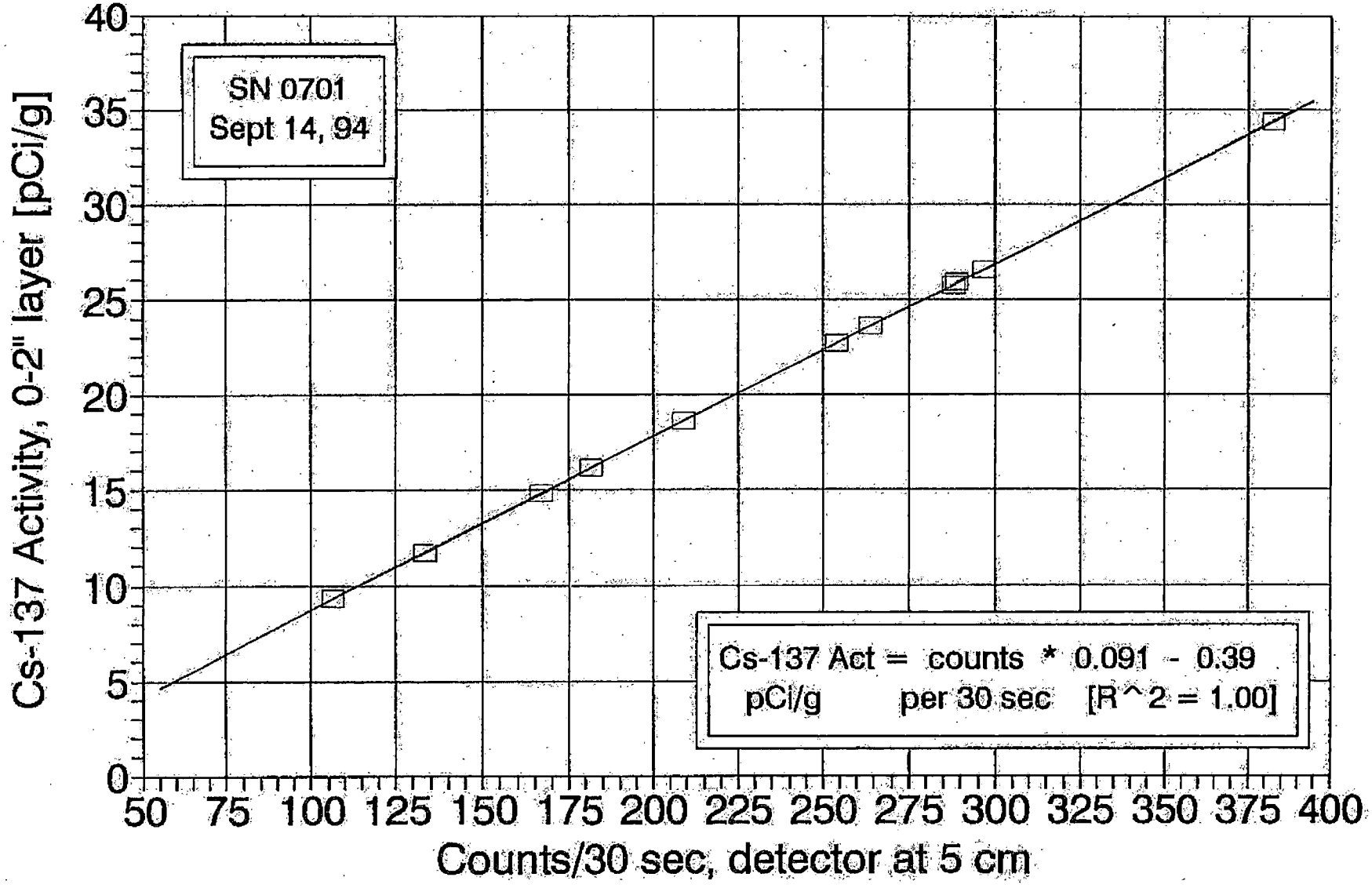
Location	Count @ 5 cm x	Activity y	y'	x^2	y^2	x*y	E	y'-E	y'+E
	55		4.60	3025.0	0.0	0.0	0.005	4.597	4.607
3E	106.5	9.27	9.27	11342.3	85.9	987.3	0.004	9.267	9.275
3B	133.5	11.72	11.72	17822.3	137.4	1564.6	0.003	11.716	11.723
3A	167.0	14.76	14.76	27889.0	217.9	2464.9	0.003	14.754	14.760
3C	181.5	16.07	16.07	32942.3	258.2	2916.7	0.003	16.069	16.074
3K	209.0	18.56	18.56	43681.0	344.5	3879.0	0.002	18.563	18.567
3I	254.0	22.65	22.64	64516.0	513.0	5753.1	0.002	22.643	22.647
3F	264.0	23.55	23.55	69696.0	554.6	6217.2	0.002	23.549	23.554
3D	288.0	25.73	25.73	82944.0	662.0	7410.2	0.003	25.725	25.730
3J	289.0	25.82	25.82	83521.0	666.7	7462.0	0.003	25.816	25.821
3H	297.0	26.54	26.54	88209.0	704.4	7882.4	0.003	26.541	26.546
3G	383.0	34.34	34.34	146689.0	1179.2	13152.2	0.005	34.336	34.346
	395		35.43	156025.0	0.0	0.0	0.005	35.424	35.434
Sums	2572.5	229.01	229.01	669251.8	5323.8	59689.7	0.0	229.0	229.0

Regression Output:		
Constant		-0.38481
Std Err of Y Est		0.003154
R Squared		1.000000
No. of Observations		11
Degrees of Freedom		9
X Coefficient(s)	0.090668	
Std Err of Coef.	1.21E-05	

Sum x =	2572.5
Sum x^2	669251.8
Sum y =	229.0
Sum y^2	5323.8
Sum x*y =	59689.7
Avg x =	233.9
SEE =	0.003
t a/2 =	2.262

WNYNSC Off-Site Radiation Investigation

Instrument Correlation



WNYNSC Off-Site Radiation Investigation

INSTRUMENT CORRELATION

DG#1	Counts in 30 sec		Average	Stnd Dev
3A	102	106	104.0	2.83
3B	103	116	109.5	9.19
3C	140	126	133.0	9.90
3D	188	172	180.0	11.31
3E	76.7	74.7	75.7	1.41
3F	148	143	145.5	3.54
3G	203	241	222.0	26.87
3H	174	151	162.5	16.26
3I	139	161	150.0	15.56
3J	157	192	174.5	24.75
3K	125	135	130.0	7.07

ESP-2 SN 0773
Date 14-Sep-94

SLOPE	=	**0.178**
Intercept	=	**-4.888**
R^2	=	**0.940**

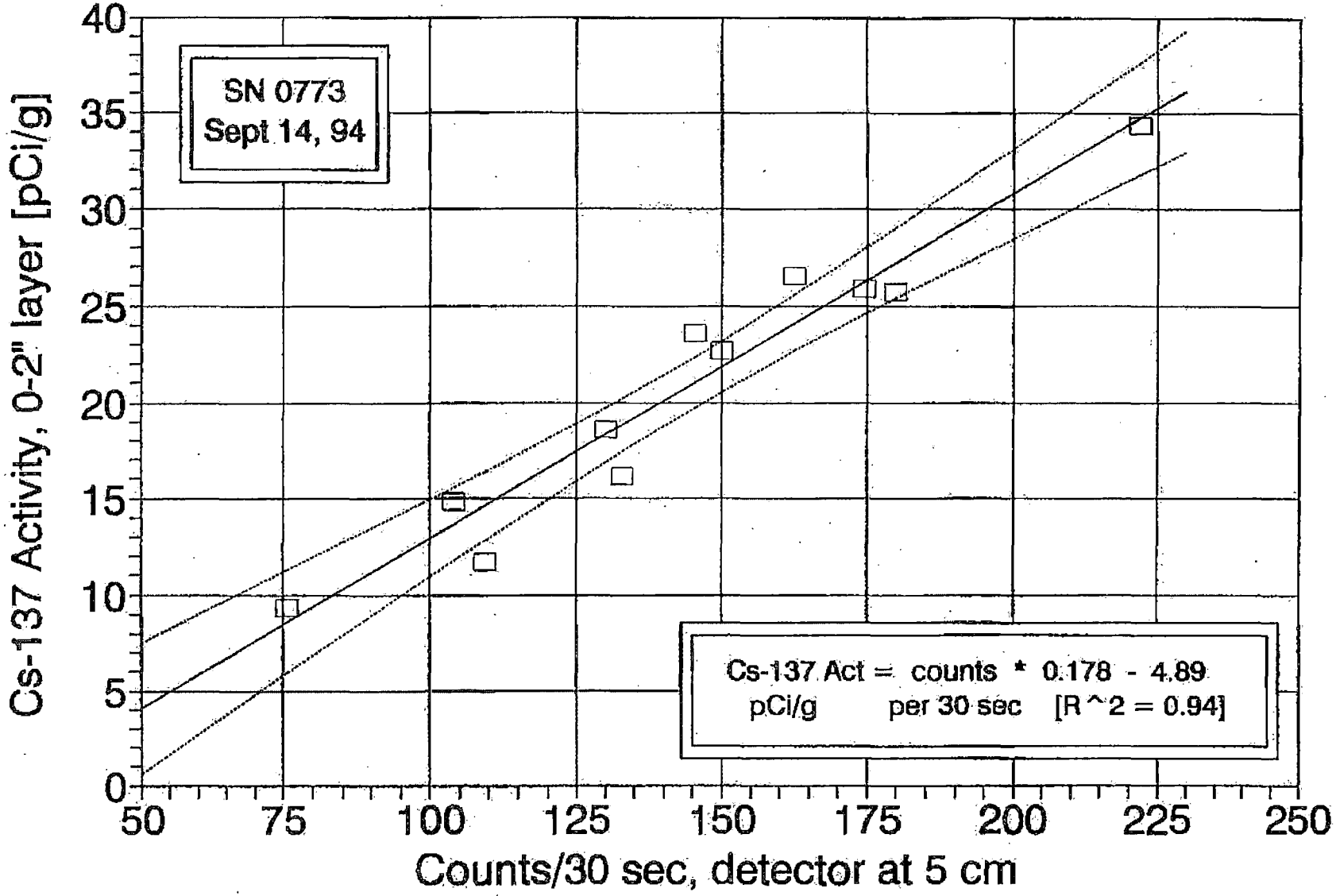
Location	Count @ 5 cm	Activity							
	x	y	y'	x^2	y^2	x*y	E	y'-E	y'+E
	50		4.02	2500.0	0.0	0.0	3.448	0.575	7.471
3E	75.7	9.27	8.60	5730.5	85.9	701.7	2.664	5.939	11.267
3A	104.0	14.76	13.65	10816.0	217.9	1535.0	1.889	11.757	15.536
3B	109.5	11.72	14.63	11990.3	137.4	1283.3	1.760	12.867	16.387
3K	130.0	18.56	18.28	16900.0	344.5	2412.8	1.395	16.885	19.676
3C	133.0	16.07	18.81	17689.0	258.2	2137.3	1.364	17.451	20.179
3F	145.5	23.55	21.04	21170.3	554.6	3426.5	1.310	19.733	22.353
3I	150.0	22.65	21.84	22500.0	513.0	3397.5	1.324	20.521	23.168
3H	162.5	26.54	24.07	26406.3	704.4	4312.8	1.448	22.625	25.520
3J	174.5	25.82	26.21	30450.3	666.7	4505.6	1.662	24.549	27.873
3D	180.0	25.73	27.19	32400.0	662.0	4631.4	1.783	25.408	28.974
3G	222.0	34.34	34.68	49284.0	1179.2	7623.5	2.939	31.737	37.616
	230		36.10	52900.0	0.0	0.0	3.184	32.918	39.286
Sums	1586.7	229.01	229.01	245336	5323.8	35967.5	19.539	209.47	248.55

Regression Output:		
Constant		-4.8877
Std Err of Y Est		1.91985
R Squared		0.94034
No. of Observations		11
Degrees of Freedom		9
X Coefficient(s)	0.17822	
Std Err of Coef.	0.01496	

Sum x	1586.7
Sum x^2	245336
Sum y	229.01
Sum y^2	5323.8
Sum x*y	35967
Avg x	144.25
SEE	1.9199
t a/2	2.262

WNYNSC Off-Site Radiation Investigation

Instrument Correlation



WNYNSC Off-Site Radiation Investigation — ESP-2 SN 0911

INSTRUMENT CORRELATION

Date 28 Sep 94

Location	Counts in 30 seconds within 5 cm of surface					Average	Stnd Dev
3A	166	169	153	168	169	165.0	6.8
3B	134	113	149	133	140	133.8	13.3
3C	256	238	284	253	284	263.0	20.3
3D	256	256	219	249	235	243.0	15.9
3E	80	76	97	81	76	82.0	8.7
3F	232	397	325	335	321	322.0	59.0
3G	387	378	374	382	403	384.8	11.3
3H	277	229	269	260	252	257.4	18.4
3I	226	246	252	236	228	237.6	11.3
3J	289	295	273	279	289	285.0	8.8
3K	166	172	176	191	156	172.2	12.9

Location	Count @ 5 cm	Activity							
	x	y	y'	x^2	y^2	x*y	E	y'-E	y'+E
	50		7.00	2500.0	0.0	0.0	5.814	1.184	12.812
3E	82.0	9.27	9.44	6724.0	85.9	760.1	4.982	4.453	14.418
3B	133.8	11.72	13.38	17902.4	137.4	1568.1	3.737	9.645	17.119
3A	165.0	14.76	15.76	27225.0	217.9	2435.4	3.102	12.656	18.860
3K	172.2	18.56	16.31	29652.8	344.5	3196.0	2.976	13.331	19.282
3I	237.6	22.65	21.29	56453.8	513.0	5381.6	2.431	18.857	23.720
3D	243.0	25.73	21.70	59049.0	662.0	6252.4	2.448	19.252	24.148
3H	257.4	26.54	22.80	66254.8	704.4	6831.4	2.540	20.257	25.337
3C	263.0	16.07	23.22	69169.0	258.2	4226.4	2.593	20.631	25.816
3J	285.0	25.82	24.90	81225.0	666.7	7358.7	2.883	22.016	27.782
3F	322.0	23.55	27.72	103684.0	554.6	7583.1	3.583	24.135	31.301
3G	384.8	34.34	32.50	148071.0	1179.2	13214.0	5.083	27.419	37.584
	395		33.28	156025.0	0.0	0.0	5.346	27.933	38.624
Sums	2545.8	229.01	229.01	665410.8	5323.8	58807.4	36.4	192.7	265.4

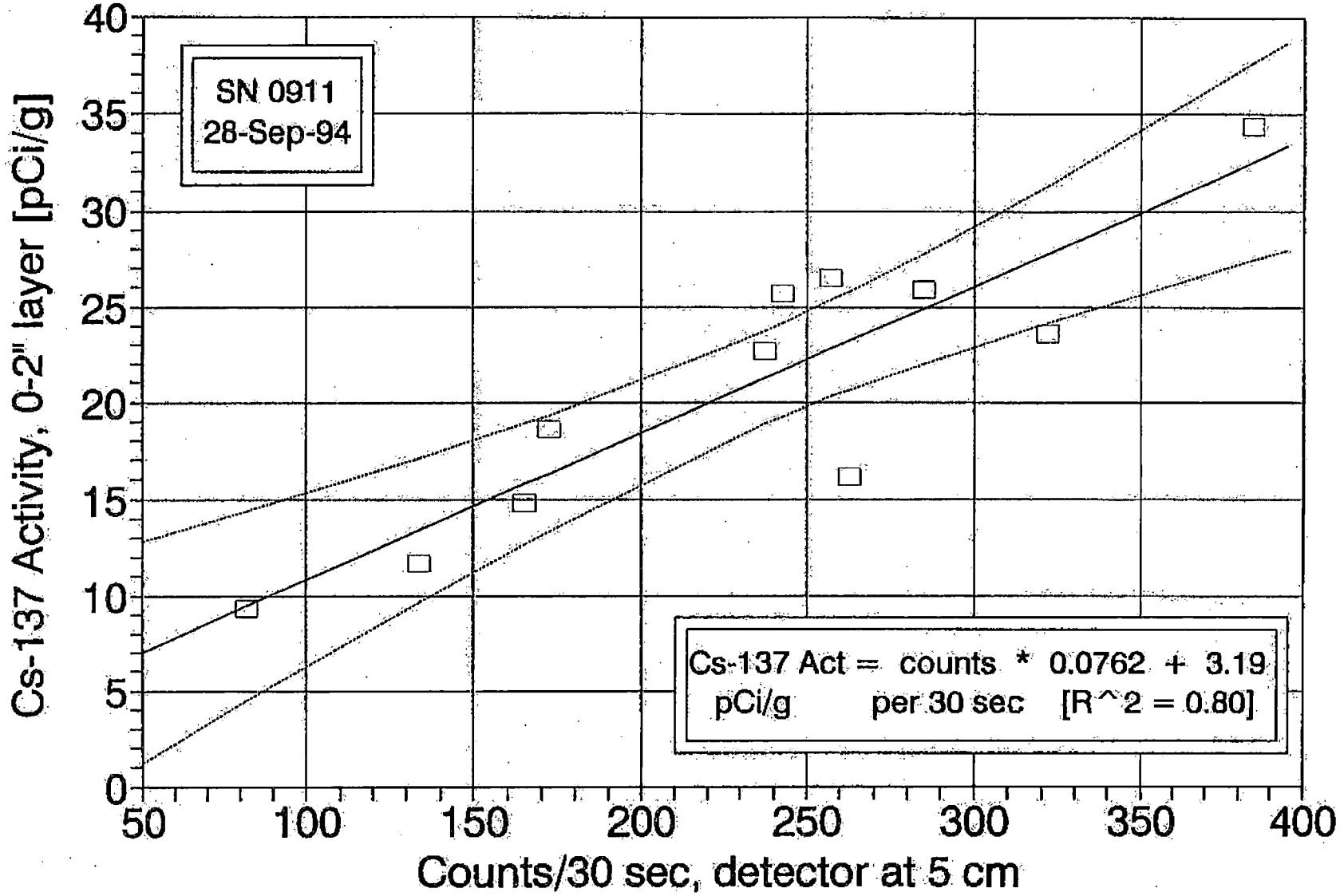
Regression Output:		
Constant		3.189229
Std Err of Y Est		3.554929
R Squared		0.795445
No. of Observations		11
Degrees of Freedom		9
X Coefficient(s)	0.07618	
Std Err of Coef.	0.01288	

Sum x =	2545.8
Sum x^2	665411
Sum y =	229.0
Sum y^2	5323.8
Sum x*y	58807.4
Avg x =	231.4
SEE =	3.5549
t a/2 =	2.262

Slope	0.076
Intercept	3.189
R^2	0.795

WNYNSC Off-Site Radiation Investigation

Instrument Correlation



WNYNSC Off-Site Radiation Investigation — ESP-2 SN 0701

INSTRUMENT CORRELATION — Date 03-Oct-94

DG#1	Counts in 30 seconds within 5 cm of surface					Average	Stnd Dev
3A	147	123	154	142	147	142.6	11.8
3B	104	120	125	125	125	119.8	9.1
3C	184	190	205	169	206	190.8	15.4
3D	229	263	241	240	284	251.4	22.0
3E	71	69	72	78	83	70.6	5.4
3F	260	276	266	283	288	274.6	11.6
3G	344	386	383	389	406	381.6	22.8
3H	280	236	274	275	277	268.4	18.3
3I	245	251	247	232	246	244.2	7.2
3J	281	286	287	301	258	282.6	15.6
3K	171	184	191	210	201	191.4	15.1

Location	Count @ 5 cm x	Activity y	y'	x^2	y^2	x*y	E	y'-E	y'+E
	55		7.04	3025.0	0.0	0.0	2.155	4.888	9.198
3E	70.6	9.27	8.35	4984.4	85.9	654.5	1.995	6.352	10.341
3B	119.8	11.72	12.46	14352.0	137.4	1404.1	1.520	10.939	13.979
3A	142.6	14.76	14.36	20334.8	217.9	2104.8	1.327	13.037	15.692
3C	190.8	16.07	18.39	36404.6	258.2	3066.2	1.032	17.361	19.426
3K	191.4	18.56	18.44	36634.0	344.5	3552.4	1.030	17.414	19.474
3I	244.2	22.65	22.86	59633.6	513.0	5531.1	1.016	21.841	23.873
3D	251.4	25.73	23.46	63202.0	662.0	6468.5	1.042	22.416	24.501
3H	268.4	26.54	24.88	72038.6	704.4	7123.3	1.128	23.752	26.008
3F	274.6	23.55	25.40	75405.2	554.6	6466.8	1.166	24.232	26.564
3J	282.6	25.82	26.07	79862.8	666.7	7296.7	1.219	24.847	27.286
3G	381.6	34.34	34.34	145618.6	1179.2	13104.1	2.123	32.218	36.465
	395		35.46	156025.0	0.0	0.0	2.263	33.198	37.725
Sums	2418	229.01	229.01	608470.4	5323.8	56772.5	14.6	214.4	243.6

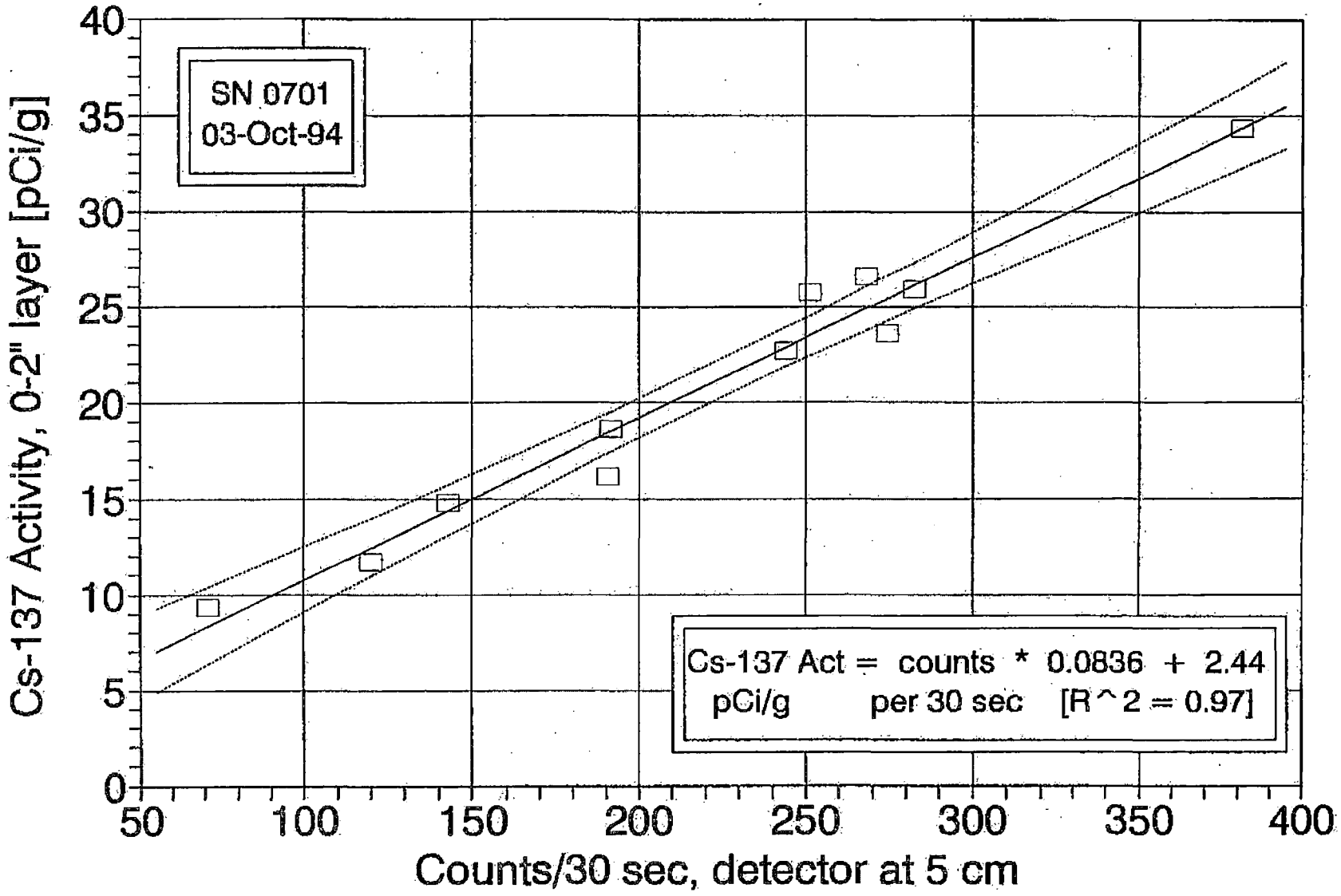
Regression Output:		
Constant		2.44531
Std Err of Y Est		1.429874
R Squared		0.966906
No. of Observations		11
Degrees of Freedom		9
X Coefficient(s)	0.08359	
Std Err of Coef.	0.00515	

Sum x =	2418.0
Sum x^2	608470.4
Sum y =	229.0
Sum y^2	5323.8
Sum x*y =	56772.5
Avg x =	219.8
SEE =	1.4299
t a/2 =	2.262

Slope	0.084
Intercept	2.445
R^2	0.967

WNYNSC Off-Site Radiation Investigation

Instrument Correlation



WNYNSC Off-Site Radiation Investigation — ESP-2 SN 0764

INSTRUMENT CORRELATION

Date 03-Oct-94

DG#1	Counts in 30 seconds within 5 cm of surface					Average	Stds
3A	137	117	142	145	156	139.4	14.3
3B	121	118	111	120	117	117.4	3.9
3C	218	204	238	207	240	221.4	16.9
3D	266	255	288	264	268	268.2	12.1
3E	83	74	81	80	88	81.2	5.1
3F	304	300	279	278	311	294.4	15.0
3G	418	399	410	391	414	406.4	11.1
3H	284	248	279	271	277	271.8	14.1
3I	248	258	247	276	291	264.0	19.1
3J	303	298	331	341	329	320.4	18.8
3K	200	197	207	206	206	203.2	4.4

Location	Count @ 5 cm	Activity								
	x	y	y'	x^2	y^2	x*y	E	y'-E	y'+E
	60		7.59	3600.0	0.0	0.0	2.930	4.655	10.515
3E	81.2	9.27	9.19	6593.4	85.9	752.7	2.655	6.531	11.841
3B	117.4	11.72	11.92	13782.8	137.4	1375.9	2.210	9.710	14.129
3A	139.4	14.76	13.58	19432.4	217.9	2057.5	1.962	11.619	15.543
3K	203.2	18.56	18.40	41290.2	344.5	3771.4	1.433	16.966	19.831
3C	221.4	16.07	19.77	49018.0	258.2	3557.9	1.367	18.406	21.140
3I	264.0	22.65	22.99	69696.0	513.0	5979.6	1.417	21.573	24.407
3D	268.2	25.73	23.31	71931.2	662.0	6900.8	1.437	21.870	24.744
3H	271.8	26.54	23.58	73875.2	704.4	7213.6	1.456	22.123	25.035
3F	294.4	23.55	25.29	86671.4	554.6	6933.1	1.611	23.674	26.897
3J	320.4	25.82	27.25	102656.2	666.7	8272.7	1.850	25.399	29.098
3G	406.4	34.34	33.74	165161.0	1179.2	13955.8	2.876	30.867	36.619
	415		34.39	172225.0	0.0	0.0	2.989	31.403	37.381
Sums	2587.8	229.01	229.01	700107.7	5323.8	60771.1	20.3	208.7	249.3

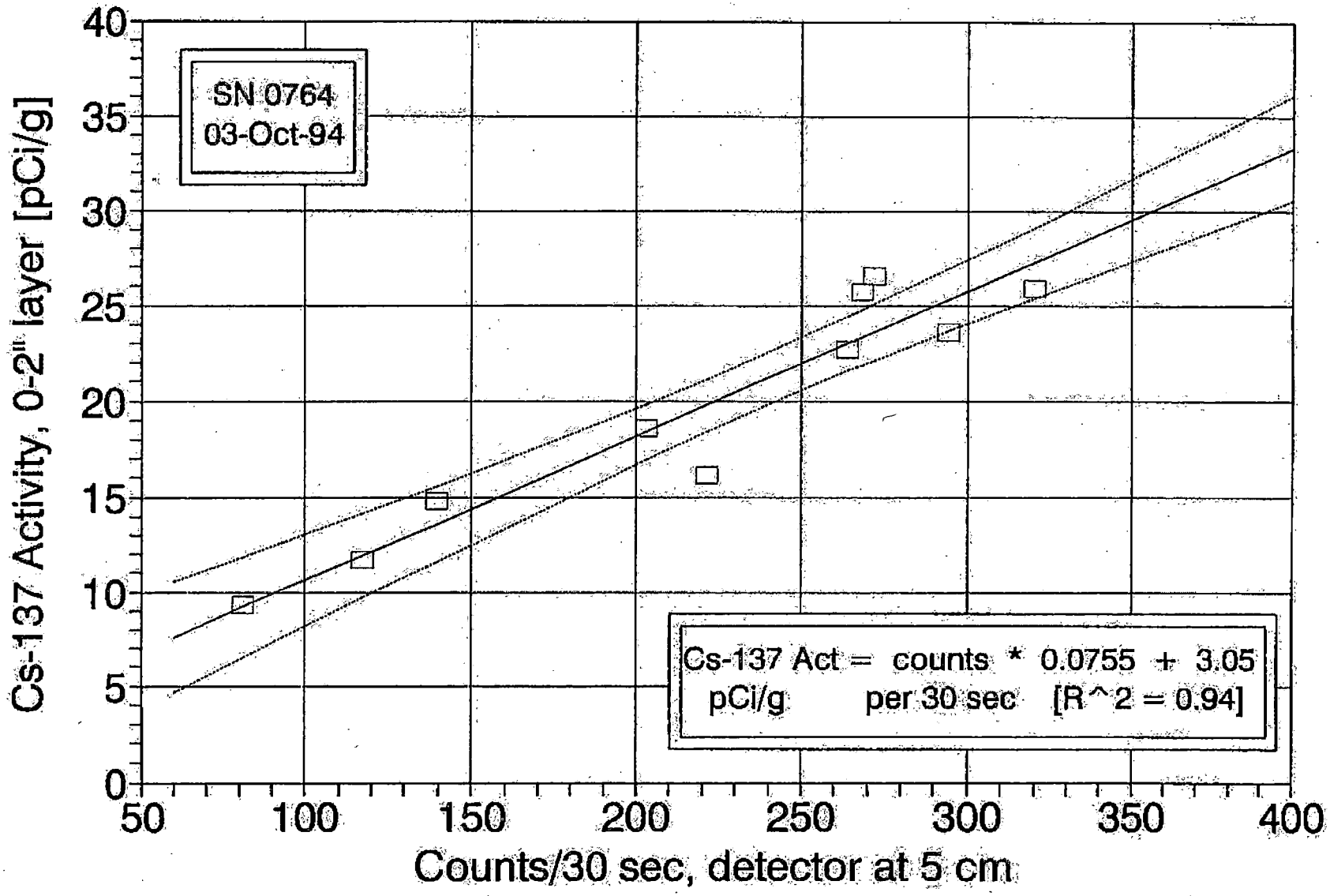
Regression Output:		
Constant		3.054626
Std Err of Y Est		1.961577
R Squared		0.936442
No. of Observations		11
Degrees of Freedom		9
X Coefficient(s)	0.07551	
Std Err of Coef.	0.00656	

Sum x =	2587.8
Sum x^2	700108
Sum y =	229.0
Sum y^2	5323.8
Sum x*y =	60771.1
Avg x =	235.3
SEE =	1.9816
t a/2 =	2.262

Slope	0.076
Intercept	3.055
R^2	0.936

WNYNSC Off-Site Radiation Investigation

Instrument Correlation



WNYNSC Off-Site Radiation Investigation — ESP-2 SN 1674

INSTRUMENT CORRELATION — Date 04-Oct-94

DG#1	Counts in 30 seconds within 5 cm of surface					Average	Stnd Dev
3A	172	192	177	178	164	176.6	10.2
3B	156	155	150	140	148	149.8	6.4
3C	262	281	242	257	262	260.8	14.0
3D	318	321	322	331	309	320.2	7.9
3E	116	121	117	111	99	112.8	8.5
3F	356	330	355	345	339	345.0	11.0
3G	504	528	517	488	489	505.2	17.5
3H	325	331	320	319	312	321.4	7.1
3I	287	302	308	314	311	304.4	10.7
3J	369	364	411	365	367	375.2	20.1
3K	233	228	213	230	218	224.4	8.5

Location	Count @ 5 cm	Activity							
	x	y	y'	x^2	y^2	x*y	E	y'-E	y'+E
	55		6.27	3025.0	0.0	0.0	3.274	3.000	9.548
3E	112.8	9.27	10.02	12723.8	85.9	1045.7	2.611	7.412	12.633
3B	149.8	11.72	12.42	22440.0	137.4	1755.7	2.222	10.200	14.643
3A	176.6	14.76	14.16	31187.6	217.9	2606.6	1.969	12.191	16.128
3K	224.4	18.56	17.26	50355.4	344.5	4164.9	1.618	15.642	18.877
3C	260.8	16.07	19.62	68016.6	258.2	4191.1	1.483	18.137	21.103
3I	304.4	22.65	22.45	92659.4	513.0	6894.7	1.522	20.926	23.969
3D	320.2	25.73	23.47	102528.0	662.0	8238.7	1.589	21.884	25.061
3H	321.4	26.54	23.55	103298.0	704.4	8530.0	1.595	21.955	25.144
3J	375.2	25.62	27.04	140775.0	666.7	9687.7	1.983	25.055	29.022
3G	505.2	34.34	35.47	255227.0	1179.2	17348.6	3.394	32.076	38.863
	535		37.40	286225.0	0.0	0.0	3.754	33.648	41.156
Sums	2750.8	205.46	205.46	879210.9	4769.2	64463.4	20.0	185.5	225.4

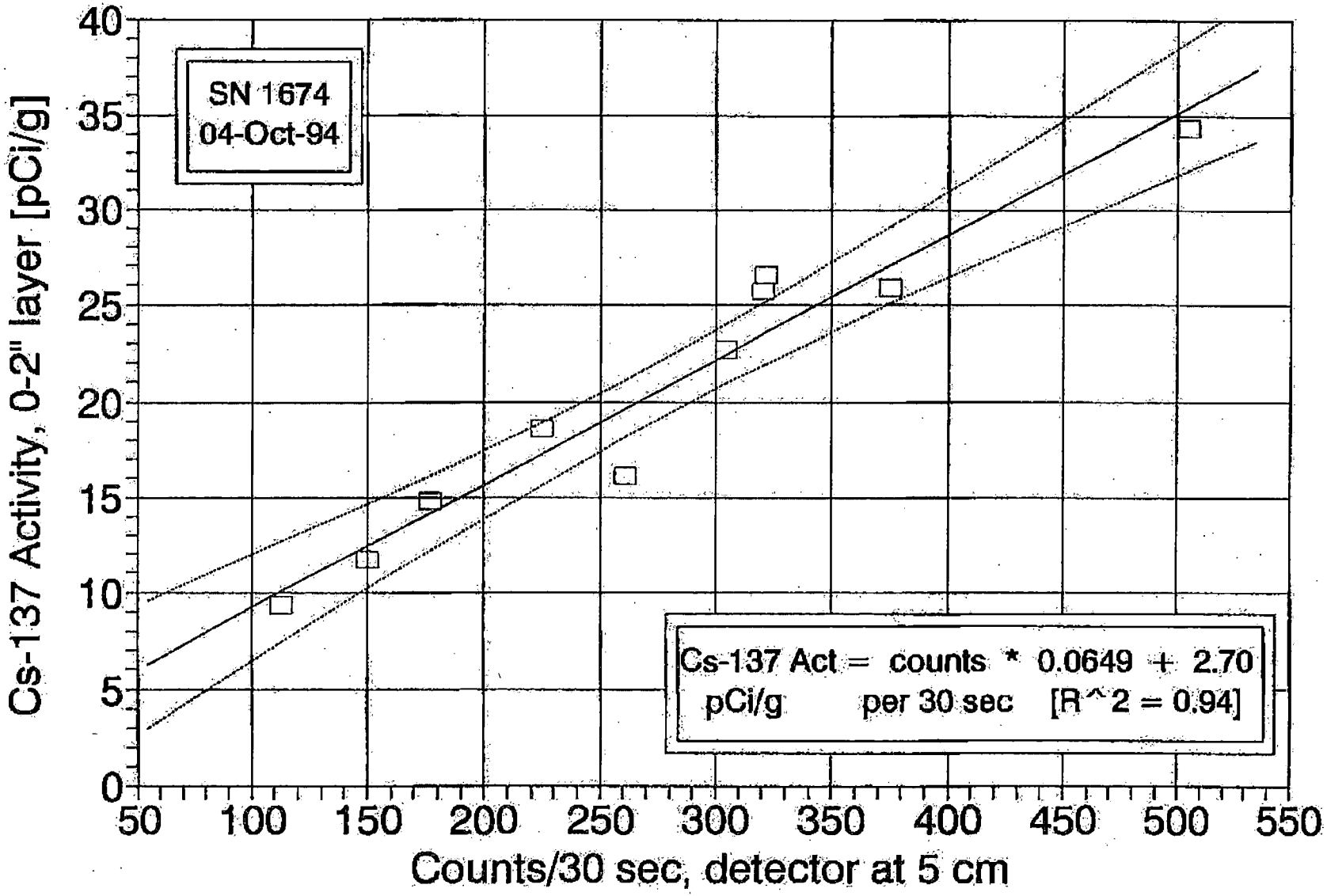
Regression Output:		
Constant		2.706994
Std Err of Y Est		2.017215
R Squared		0.940577
No. of Observations		10
Degrees of Freedom		8
X Coefficient(s)	0.06485	
Std Err of Coef.	0.00576	

Sum x =	2750.8
Sum x^2	879211
Sum y =	205.5
Sum y^2	4769.2
Sum x*y =	64463.4
Avg x =	275.08
SEE =	2.0172
t a/2 =	2.306

Slope	0.065
Intercept	2.707
R^2	0.941

WNYNSC Off-Site Radiation Investigation

Instrument Correlation



WNYNSC Off-Site Radiation Investigation — ESPN-2 SN 0701

INSTRUMENT CORRELATION

Date 11-Oct-94

DG#1	Counts in 30 seconds within 5 cm of surface					Average	Stnd Dev
3A	112	116	125	116	110	115.8	5.8
3B	81	96	98	87	100	92.8	8.3
3C	171	154	164	152	149	158.0	9.2
3D	223	200	190	170	185	193.6	19.7
3E	56	56	53	60	55	54.4	3.0
3G	352	344	341	351	319	341.4	13.4
3H	199	207	230	205	197	207.6	13.2
3I	211	204	204	233	215	213.4	11.9
3J	242	238	221	229	240	234.0	8.8
3K	132	164	152	147	150	149.0	11.5

Location	Count @ 5 cm	Activity							
	x	y	y'	x^2	y^2	x*y	E	y'-E	y'+E
	15		5.66	225.0	0.0	0.0	3.301	2.363	8.964
3E	54.4	9.27	9.32	2959.4	85.9	504.3	2.657	6.661	11.976
3B	92.8	11.72	12.88	8611.8	137.4	1087.8	2.083	10.798	14.963
3A	115.8	14.76	15.01	13409.6	217.9	1709.2	1.785	13.229	16.799
3K	149.0	16.56	18.09	22201.0	344.5	2785.4	1.467	16.627	19.560
3C	158.0	16.07	18.93	24964.0	258.2	2539.1	1.414	17.514	20.343
3D	193.6	25.73	22.23	37481.0	662.0	4981.3	1.392	20.839	23.623
3F	202.2	23.55	23.03	40884.8	554.6	4761.8	1.432	21.596	24.461
3H	207.6	26.54	23.53	43097.8	704.4	5509.7	1.466	22.064	24.995
3I	213.4	22.65	24.07	45539.6	513.0	4833.5	1.508	22.559	25.576
3J	234.0	25.82	25.98	54756.0	666.7	6041.9	1.705	24.273	27.683
3G	341.4	34.34	35.94	116554.0	1179.2	11723.7	3.294	32.646	39.235
	350		36.74	122500.0	0.0	0.0	3.439	33.299	40.178
Sums	1962.2	229.01	229.01	410458.9	5323.805	46457.52	20.20363	208.806	249.214

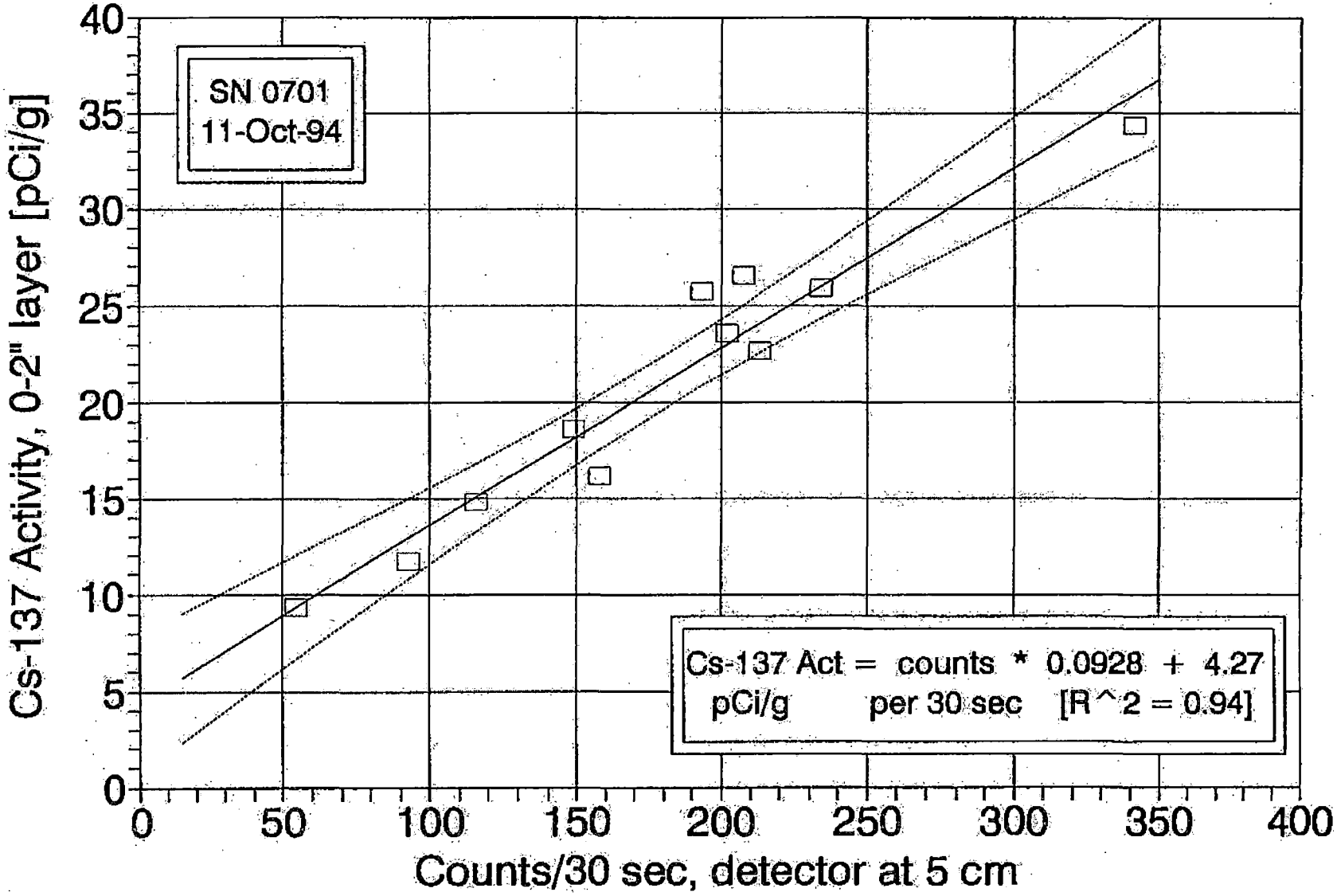
Regression Output:		
Constant		4.272216
Std Err of Y Est		1.999415
R Squared		0.935293
No. of Observations		11
Degrees of Freedom		9
X Coefficient(s)	0.09276	
Std Err of Coef.	0.00813	

Sum x =	1962.2
Sum x^2	410459
Sum y =	229.0
Sum y^2	5323.8
Sum x*y	46457.5
Avg x =	178.381818
SEE =	1.9994
t a/2 =	2.262

Slope	0.093
Intercept	4.272
R^2	0.935

WNYNSC Off-Site Radiation Investigation

Instrument Correlation



WNYNSC Off-Site Radiation Investigation — ESP-2 SN 0911

INSTRUMENT CORRELATION — Date 12-Oct-94

DG#1	Counts in 30 seconds within 5 cm of surface					Average	STDS
3A	314	346	366	356	312	338.8	24.60
3B	260	244	258	300	296	273.6	23.93
3C	489	453	461	416	455	454.8	26.06
3D	551	567	529	561	557	553.0	14.63
3E	176	174	156	180	150	167.2	13.31
3G	895	947	873	883	869	893.4	31.60
3H	533	597	601	617	571	583.8	32.85
3I	581	593	559	531	609	574.6	30.44
3J	631	673	645	607	663	643.8	26.18
3K	364	416	471	398	469	423.6	46.30

Location	Count @ 5 cm	Activity								
	x	y	y'	x^2	y^2	x*y	E	y'-E	y'+E
	100		6.21	10000.0	0.0	0.0	3.060	3.153	9.272
3E	167.2	9.27	8.68	27955.8	85.9	1549.9	2.648	6.030	11.326
3B	273.6	11.72	12.58	74857.0	137.4	3206.6	2.048	10.534	14.630
3A	338.8	14.76	14.97	114785.4	217.9	5000.7	1.737	13.237	16.712
3K	423.6	18.56	18.09	179437.0	344.5	7862.0	1.452	16.633	19.538
3C	454.8	16.07	19.23	206843.0	258.2	7308.6	1.397	17.833	20.627
3D	553.0	25.73	22.83	305809.0	662.0	14228.7	1.442	21.391	24.275
3I	574.6	22.65	23.63	330165.2	513.0	13014.7	1.495	22.131	25.120
3H	583.8	26.54	23.96	340822.4	704.4	15494.1	1.521	22.442	25.484
3J	643.8	25.82	26.16	414478.4	666.7	16622.9	1.743	24.422	27.907
3G	893.4	34.34	35.32	798163.6	1179.2	30679.4	3.135	32.187	38.458
	938.07		36.96	879975.3	0.0	0.0	3.419	33.542	40.380
Sums	4906.6	205.46	205.46	2793317	4769.202	114967.58	18.61655	186.841	224.079

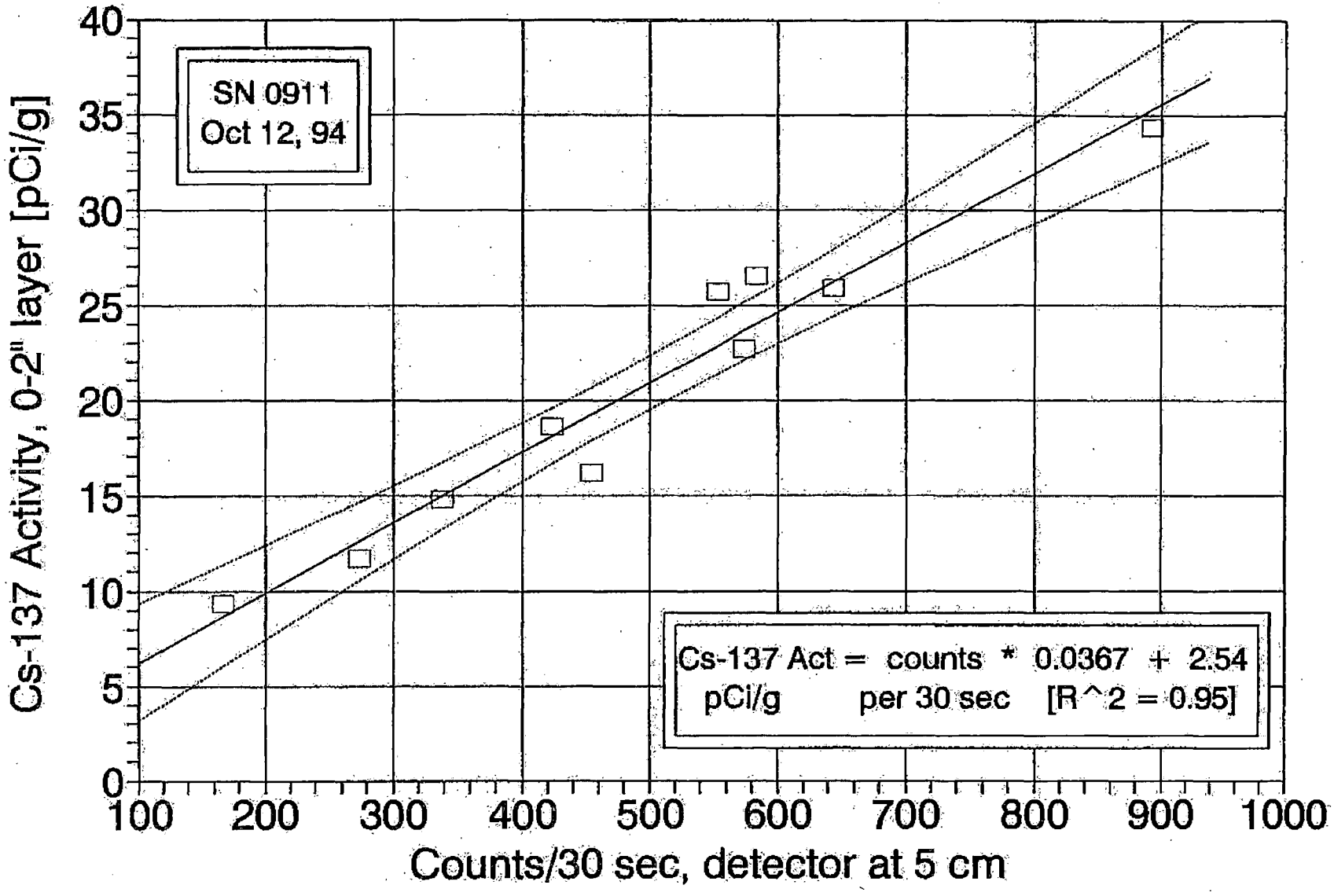
Regression Output:		
Constant		2.543758
Std Err of Y Est		1.88476
R Squared		0.948124
No. of Observations		10
Degrees of Freedom		8
X Coefficient(s)	0.03669	
Std Err of Coef.	0.00303	

Sum x =	4906.6
Sum x^2	2793317
Sum y =	205.5
Sum y^2	4769.2
Sum x*y	114967.6
Avg x =	490.66
SEE =	1.8848
t a/2 =	2.306

SLOPE	0.037
Intercept	2.544
R^2	0.948

WNYNSC Off-Site Radiation Investigation

Instrument Correlation



WNYNSC Off-Site Radiation Investigation — ESP-2 SN 0764

INSTRUMENT CORRELATION — Date 26-Oct-94

DG#1	Counts in 30 seconds within 5 cm of surface					Average	Stnd Dev
3A	148	137	133	161	143	144.4	10.9
3B	114	137	122	123	111	121.4	10.1
3C	202	222	195	193	217	205.8	13.1
3D	288	236	283	284	281	274.4	21.6
3E	73	80	81	85	84	80.6	4.7
3G	420	421	382	414	408	409.0	16.0
3H	282	304	274	288	272	284.0	12.9
3I	262	273	271	270	264	268.0	4.7
3J	302	309	280	284	311	297.2	14.3
3K	239	242	266	270	232	249.8	17.1

Location	Count @ 5 cm	Activity							
	x	y	y'	x^2	y^2	x*y	E	y'-E	y'+E
	55		6.59	3025.0	0.0	0.0	2.889	3.701	9.480
3E	80.6	9.27	8.59	6496.4	85.9	747.2	2.568	6.024	11.161
3B	121.4	11.72	11.78	14738.0	137.4	1422.8	2.088	9.695	13.871
3A	144.4	14.76	13.58	20851.4	217.9	2131.3	1.845	11.738	15.427
3C	205.8	16.07	18.38	42353.6	258.2	3307.2	1.386	16.998	19.770
3K	249.8	18.56	21.83	62400.0	344.5	4636.3	1.348	20.477	23.174
3I	268.0	22.65	23.25	71824.0	513.0	6070.2	1.418	21.831	24.667
3D	274.0	25.73	23.72	75076.0	662.0	7050.0	1.450	22.268	25.168
3H	284.0	26.54	24.50	80656.0	704.4	7537.4	1.514	22.986	26.014
3J	297.2	25.82	25.53	88327.8	666.7	7673.7	1.614	23.919	27.146
3G	409.2	34.34	34.29	167444.6	1179.2	14051.9	2.855	31.437	37.147
	440		36.70	193600.0	0.0	0.0	3.254	33.447	39.955
Sums	2334.4	205.46	205.46	630167.8	4769.2	54628.0	18.1	187.4	223.5

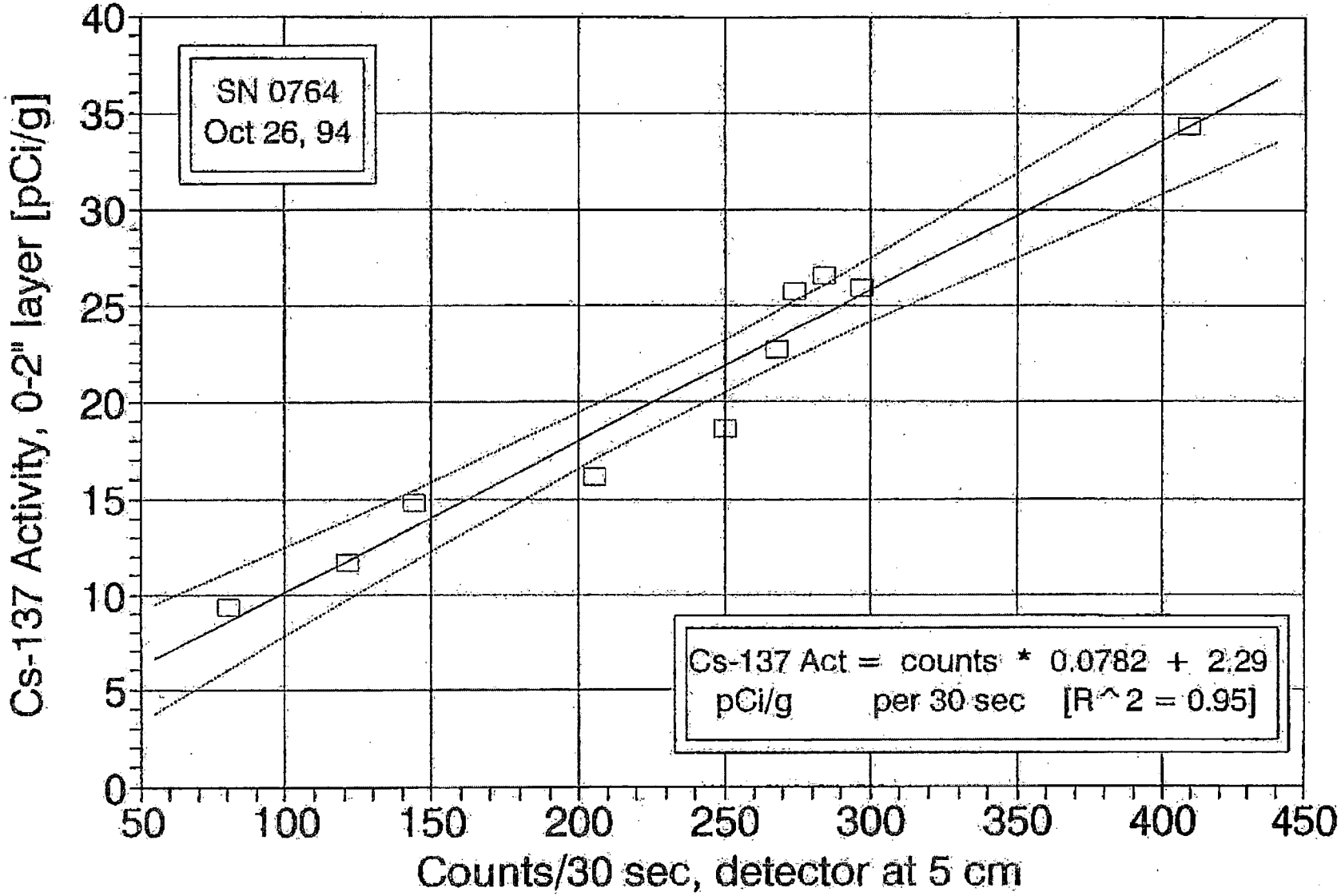
Regression Output:		
Constant		2.288792
Std Err of Y Est		1.820755
R Squared		0.951588
No. of Observations		10
Degrees of Freedom		8
X Coefficient(s)	0.07821	
Std Err of Coef.	0.00624	

Sum x =	2334.4
Sum x^2	630168
Sum y =	205.5
Sum y^2	4769.2
Sum x*y =	54628.0
Avg x =	233.44
SEE =	1.821
t a/2 =	2.306

Slope	0.078
Intercept	2.289
R^2	0.952

WNYNSC Off-Site Radiation Investigation

Instrument Correlation



WNYNSC Off-Site Radiation Investigation — ESP-2 SN 0773

INSTRUMENT CORRELATION

Date 26-Oct-94

DG#1	Counts in 30 seconds within 5 cm of surface					Average	Stds
3A	106	113	97	109	113	107.6	6.6
3B	80	84	101	76	99	88.0	11.3
3C	125	149	147	154	162	147.4	13.8
3D	182	183	169	167	187	177.6	9.0
3E	61	61	78	69	50	63.8	10.4
3G	255	266	224	227	238	242.0	18.1
3H	178	163	164	179	179	172.6	8.3
3I	165	163	176	153	156	162.6	9.0
3J	210	176	194	174	217	194.2	19.4
3K	129	120	106	126	146	125.4	14.5

Location	Count @ 5 cm x	Activity y	y'	x^2	y^2	x*y	E	y'-E	y'+E
	60		7.99	3600.0	0.0	0.0	2.859	5.134	10.852
3E	63.8	9.27	8.53	4070.4	85.9	591.4	2.767	5.768	11.301
3B	88.0	11.72	11.98	7744.0	137.4	1031.4	2.210	9.772	14.192
3A	107.6	14.76	14.77	11577.8	217.9	1588.2	1.823	12.951	16.596
3K	125.4	18.56	17.31	15725.2	344.5	2327.4	1.559	15.751	18.868
3C	147.4	16.07	20.44	21726.8	258.2	2368.7	1.422	19.022	21.865
3I	162.6	22.65	22.61	26438.8	513.0	3682.9	1.479	21.130	24.087
3H	172.6	26.54	24.03	29790.8	704.4	4580.8	1.580	22.454	25.613
3D	177.6	25.73	24.75	31541.8	662.0	4569.6	1.646	23.100	26.391
3J	194.2	25.82	27.11	37713.6	666.7	5014.2	1.924	25.186	29.035
3G	242.0	34.34	33.92	58564.0	1179.2	8310.3	3.001	30.919	36.920
	254.1		35.64	64566.8	0.0	0.0	3.305	32.339	38.948
Sums	1481.2	205.46	205.5	244893.0	4769.2	34065.0	19.4	186.1	224.9

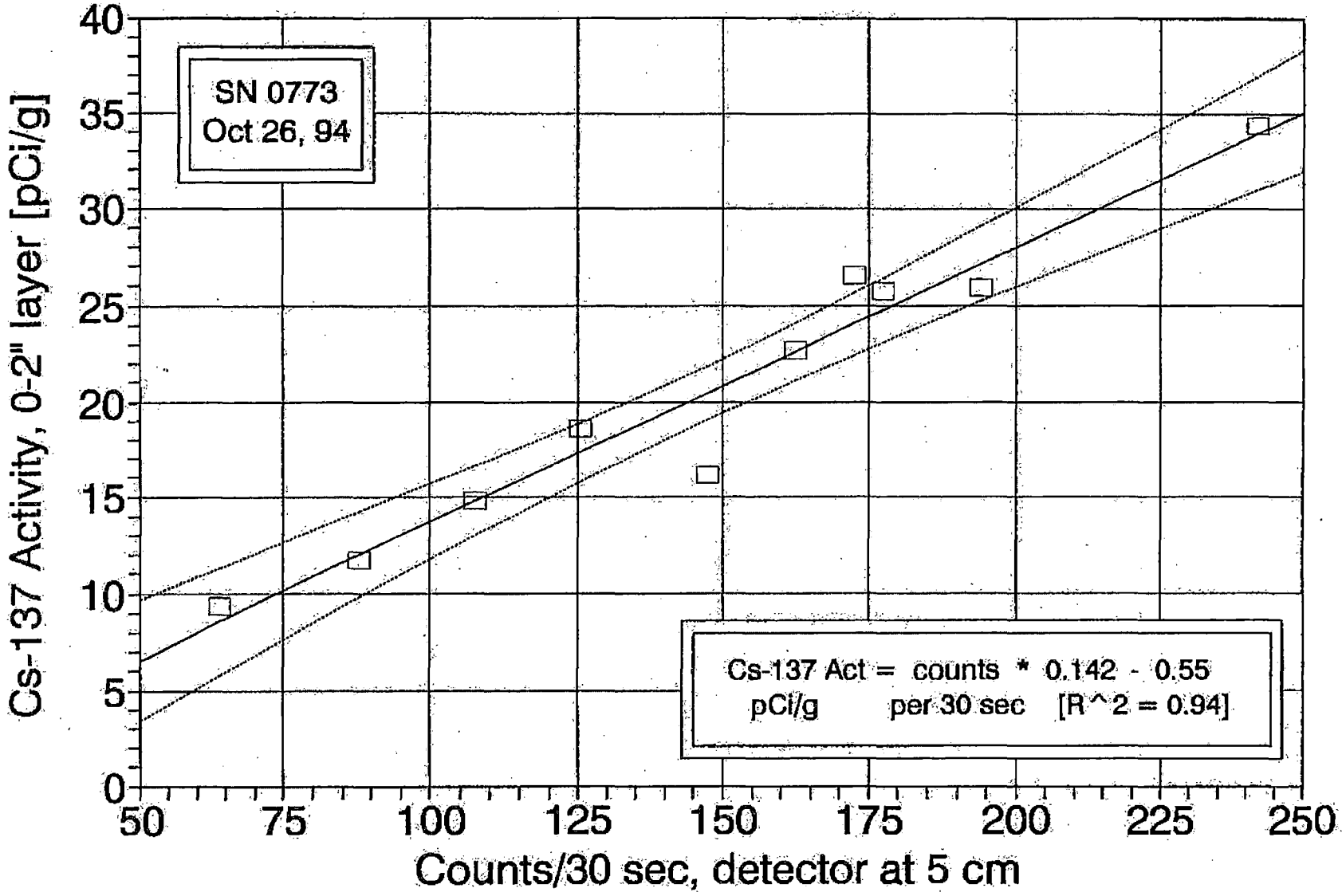
Regression Output:		
Constant		-0.55421
Std Err of Y Est		1.949258
R Squared		0.944513
No. of Observations		10
Degrees of Freedom		8
X Coefficient(s)	0.14245	
Std Err of Coef.	0.01221	

Sum x =	1481.2
Sum x^2 =	244893
Sum y =	205.46
Sum y^2 =	4769.20
Sum x*y =	34064.97
Avg x =	148.12
SEE =	1.949
t a/2 =	2.306

Slope	0.142
Intercept	-0.554
R^2	0.945

WNYNSC Off-Site Radiation Investigation

Instrument Correlation



WNYNSC Off-Site Radiation Investigation — ESP-2 SN 0911

INSTRUMENT CORRELATION — Date 26-Oct-94

DG#1	Counts in 30 seconds within 5 cm of surface					Average	Stds
3A	84	94	100	85	108	94.2	10.2
3B	71	67	84	73	80	75.0	6.9
3C	123	121	124	113	98	115.8	10.8
3D	130	148	133	157	144	142.0	10.8
3E	60	53	70	45	50	55.6	9.7
3G	223	224	239	218	234	227.6	8.6
3H	166	146	160	177	145	158.8	13.6
3I	122	127	161	151	153	142.6	17.2
3J	154	182	193	156	186	174.2	18.0
3K	135	153	143	149	135	143.0	8.1

Location	Count @ 5 cm x	Activity y	y'	x^2	y^2	x*y	E	y'-E	y'+E
	52.82		8.55	2790.0	0.0	0.0	3.020	5.533	11.573
3E	55.6	9.27	8.97	3091.4	85.9	515.4	2.943	6.026	11.913
3B	75.0	11.72	11.88	5625.0	137.4	879.0	2.431	9.447	14.309
3A	94.2	14.76	14.76	8873.6	217.9	1390.4	1.991	12.766	16.747
3C	115.0	16.07	17.87	13225.0	258.2	1848.1	1.652	16.223	19.526
3D	142.0	25.73	21.92	20164.0	662.0	3653.7	1.576	20.347	23.498
3I	142.8	22.65	22.04	20391.8	513.0	3234.4	1.581	20.461	23.623
3K	143.0	18.56	22.07	20449.0	344.5	2654.1	1.582	20.490	23.654
3H	158.8	26.54	24.44	25217.4	704.4	4214.6	1.762	22.679	26.202
3J	174.2	25.82	26.75	30345.6	666.7	4497.8	2.048	24.701	28.797
3G	227.6	34.34	34.75	51801.8	1179.2	7815.8	3.441	31.314	38.195
	238.98		36.46	57111.4	0.0	0.0	3.774	32.687	40.235
Sums	1328.2	205.46	205.46	199184.7	4769.2	30703.2	21.0	184.5	226.5

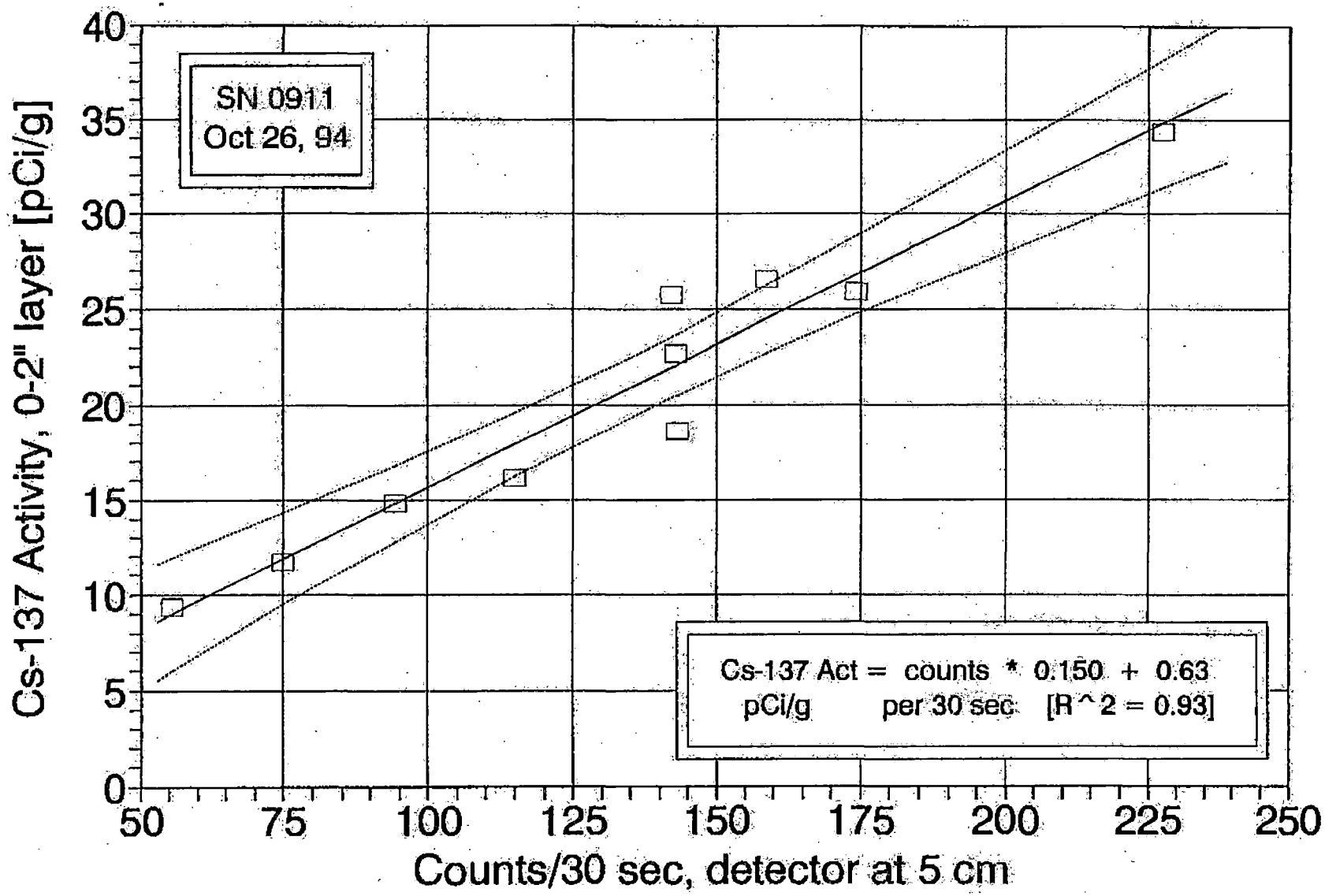
Regression Output:		
Constant		0.634528
Std Err of Y Est		2.121852
R Squared		0.934252
No. of Observations		10
Degrees of Freedom		8
X Coefficient(s)	0.14991	
Std Err of Coef.	0.01406	

Sum x =	1328.2
Sum x^2	199185
Sum y =	205.5
Sum y^2	4769.2
Sum x*y	30703.2
Avg x =	132.82
SEE =	2.1219
t a/2 =	2.306

Slope	0.150
Intercept	0.635
R^2	0.934

WNYNSC Off-Site Radiation Investigation

Instrument Correlation



Appendix C

Data File Manipulation and Management

TAB C: Data File manipulation and management

The WNYNSC Off-Site Radiation Investigation (Phase II) has three types of instrument data

- timed interval or integrated count data measured for 30 seconds with the ESP-2 meter at systematic positions in each 10 m x 10 m grid
- walkover or peak-trapped count rate data measured with the ESP-2 meter during a serpentine traverse of 10 m x 2.5 m quarter grids
- dose rate data measured with the Bicron "microrem" meter with a tissue equivalent response detector at systematic positions in each 10 m x 10 m grid.

The measurement data from the surveys using the ESP-2 meter was downloaded to spreadsheet files from the instrument memory, with each file specific to the instrument and date of the survey. Bicron data was written by hand on field log sheets as the survey was performed, each sheet specific to the instrument and date of the survey. The flow of data and data file management is shown on the figure and discussed below.

Timed interval or integrated count data

The ESP-2 logfile was imported into a QuattroPRO spreadsheet file format for processing. In the "Processed" data file, correlation factors for the instrument are applied to convert the count data into a response interpreted as radioactivity in the ground (pCi/g). This file also performs the averaging and statistical tests of NUREG/CR-5849 to determine the standard deviation and 95th percentile value of the activity in each 10 m x 10 m grid. Each processed data file is validated by a review procedure to ensure the data quality for inclusion in summary tables. The location codes, activity and statistics from many processed data files are accumulated into "Intermediate" data files to enable data manipulation and processing under computer memory limitations.

Walkover or peak-trapped count rate data

The ESP-2 logfile was imported into a QuattroPRO spreadsheet file format for processing. In the "Processed" data file, the walkover data is validated by a review procedure to ensure the data quality for inclusion in summary tables. The grid location codes and the four peak values from many processed data files are accumulated into "Intermediate" data files to enable calculation of peak-to-average ratios under computer memory limitations.

The data from multiple intermediate data files for both types of ESP-2 surveys are combined into an "Output" data file. This file provides a summary of the two Cs-137 surveys in a single file, with grid location code, grid average counts and standard deviation, the four peak count rates and the maximum peak-to-average count rate ratio for each of the grids, the grid average activity, standard deviation, and the grid activity 95th percentile. A print out of the output data file for the Cs-137 surveys is provided.

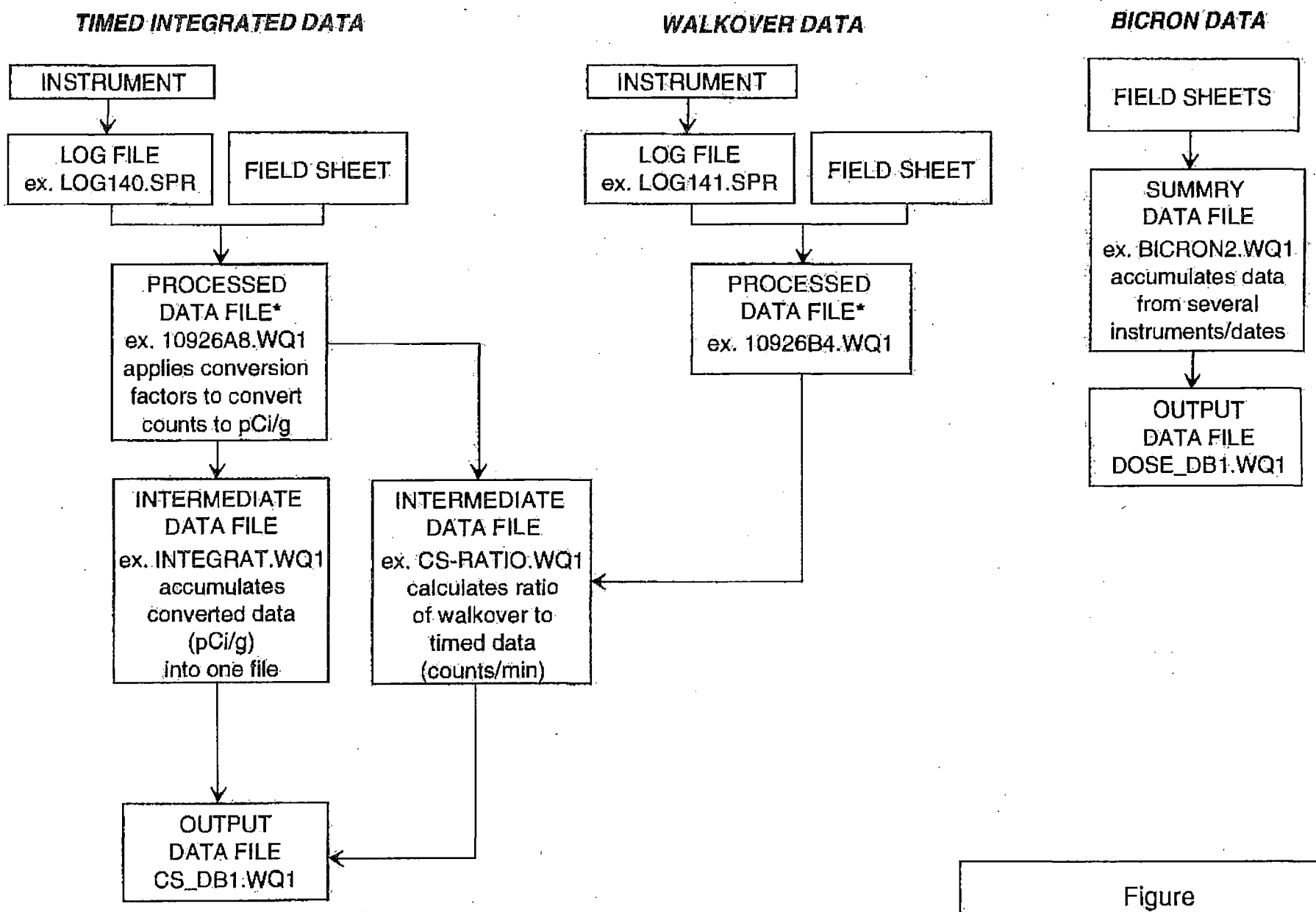
Dose rate or Bicron data

The Bicron survey data was entered from the field logsheets into a QuattroPRO spreadsheet file format for processing. For ease of data handling, the data was entered directly into "summary" data files that contained data from several instruments and dates in a single file. This was possible since an instrument-specific conversion or correlation did not need to be applied to this data. The data files produced elements with grid location code, grid average dose rate, standard deviation and 95th percentile dose rate for each 10 m x 10 m grid. The dose rate data is validated by a review procedure to ensure the data quality for inclusion in summary tables.

The data from multiple summary data files for dose rate surveys are combined into an output data file. This file provides a summary of the surveys in a single file, with grid location code, grid average dose rate, standard deviation and grid 95th percentile. A print out of the output data file for the dose rate surveys is enclosed.

Enclosures

- Figure illustrating the data file management flow
- Processed data File Validation instruction sheet and Validation Record Form
- Summary Table of Cesium-137 Instrument interpreted readings
- Summary Table of Dose Rate Measurements



* There are many processed data files generated by date and instrument.
All processed data files feed into the intermediate data file to be collected.

Figure

Data File Management Flow Chart

DAMES & MOORE | February 23, 1995

NYSERDA WNYNSC Off-Site Radiation Investigation
Processed Data File Validation Procedure

Integrated 5cm Readings

For each Quattro file

(1) Write date from field sheets (on upper right hand corner) on the validation record and verify (check box) with processed Quattro file (left hand column).

(2) Write Meter Serial No. from field sheets (at top of each column of readings) and verify with processed Quattro file (upper right hand of heading). [i.e. 00764 etc.]

(3) Write "LOGFILE" from field sheets (usually in remarks column or above readings column) and verify with processed Quattro file (right side of heading).

(4) Write surveyor's initials from field sheets (middle top) and verify with processed Quattro file (left side heading, next to USER I.D. #), if there are no initials in the Quattro file then enter them into Quattro file.

(5) Write QuattroPro file name on validation record.

(6) Write calibration constants (slope and constant) from calibration list (by date) and verify with processed Quattro file (right side of heading).

(7) Verify that the direction (NW, NE, SW or SE) is entered into the Quattro file.

(8) Write average activity of the QA replicate grid(s) (10x10), from the Quattro file, and its corresponding initial value(s) on the validation record as well as the location of the QA grid(s).

For 20% of grids (i.e. every 5th grid: 1,6,11,16,21,26 for 25 grids and a QA grid).

(9) Write the Grid coordinates from field sheet on the validation record and verify the location in the processed Quattro file.

(10) Write the noted value of each grid (10x10) from the field sheet and verify with the 1st (unless so noted on field sheet) value from each grid (xxxx01) in the processed Quattro file.

(11) Write the number of values for each grid from the Quattro file. If the value is not 8 and no explanation is on the field sheet then make a note.

Finally

- Note any problems with the validation in the Comments/Problems section.
- Find the Grid coordinates from the field sheet on the File summary list (2nd form) and fill in the name of the Quattro file and the "LOGFILE".

(12) Sign your name and date on the validation record and initial the File summary list.

NYSERDA WNYNSC Off-site Radiation Investigation
Processed Data File Validation Record

	(field sheet)	Quattro (check)				
DATE:			(1)	Quattro file:		(5)
Meter No.			(2)	Calibration Constant		(6)
Log file			(3)	Calibration Slope		(6)
Surveyor:			(4)			
				Direction in File		(7)

(1st QA Grid)	(8)		(2nd QA Grid)	(8)	
QA Grid Average Activity			QA Grid Average Activity		
Initial Value of QA Grid			Initial Value of QA Grid		
QA Grid Co-ordinates			QA Grid Co-ordinates		

	Location (9)		(10) 1st Value		(11) No. of values	Notes
1						
6						
11						
16						
21						
26						QA

Comments/Problems with your review:

Verified By: _____ Date: _____ (12)

Summary Table of Interpreted Instrument Readings

Explanation of Tabulated Data and Notes

Grid Location - Location of the 10 m x 10 m grid with respect to the grid shown in the Figure. Grid origin is a concrete monument at a corner of the Western New York Nuclear Services Center and Tax Map Property 16. Distances are in meters and refer to the distance from the origin to the lower right (SE) corner of the grid square. Directions refer to map north with respect to the Tax Map not magnetic north.

Interval Counts - (counts in 30 sec) The average counts of gamma radiations observered in a 30-second interval with the detector placed within 5 cm (2 in) of the surface at eight positions in the grid.

$$\text{Ave} = \bar{c} = \Sigma c_i / n \qquad \text{STD} = s_c = \sqrt{\Sigma (c - c_i)^2/(n-1)}$$

Peak Count Rate - (1/2 * counts/min) The peak value of the count rate observed in each quadrant of the grid during the walkover search for "hot spots". The observed peak counts per minute have been halved to allow ease in comparison to the 30-second readings. Ratio is the maximum of the four peaks divided by the average timed counts.

Correlated Activity - The inferred concentration of Cs-137 in the humus layer calculated from the observed counts from measurements in the grid. Calculation is based on the 30-sec readings and correlation factors specific to the detector used on the survey of that grid.

$$\text{Avg} = \bar{x} = \Sigma x_i / n \qquad \text{STD} = s_x = \sqrt{\Sigma (x - x_i)^2/(n-1)}$$

Grid 95th A statistical test of the activity concentration based on the variation of the observed measurements used in the correlation. The statistical probability is 95% that the actual mean activity concentration is less than or equal to the calculated value μ_x.

$$\mu_x = \bar{x} + s_x * t_{1-\alpha,df} / \sqrt{n} = \text{Avg} + \text{STD} * 1.895 / \sqrt{8}\ .$$

Notes:

x one or more of the peak count rates observed during the walkover scan exceeds 3X the average count rate for the grid.

y grid average was measured with a different instrument than that used during the walkover scan, thus the 3X average criteria is not directly applicable.

b the grid was overgrown with brush or otherwise inaccessible; the stationary timed readings were obtained but a walkover scan could not be performed.

e *extra* grid; timed surveys were performed to define an edge but walkover was not performed.

q the walkover data was rejected due to instrument operational concerns.

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
300N 440W	99	10		181	142	131	142	1.8	6.2	0.4	6.4
310N 440W	93	11		165	140	147	155	1.8	6.0	0.4	6.2
320N 440W	97	11		139	170	148	155	1.7	6.1	0.4	6.4
330N 440W	94	16		149	153	160	159	1.7	6.0	0.6	6.4
340N 440W	100	12		129	177	147	152	1.8	6.2	0.4	6.5
350N 440W	52	5		94	96	104	95	2.0	4.4	0.9	5.0
360N 440W	52	7		93	95	112	98	2.2	4.3	1.2	5.1
370N 440W	61	8		116	124	95	117	2.0	6.0	1.4	6.9
380N 440W	60	11		100	94	102	133	2.2	5.8	1.9	7.0
390N 440W	63	9		94	118	120	114	1.9	6.4	1.6	7.5
400N 440W	69	6		93	106	111	100	1.6	7.3	1.0	8.0
410N 440W	66	7		99	102	106	99	1.6	6.9	1.2	7.7
420N 440W	68	10		96	103	95	99	1.5	7.1	1.7	8.3
430N 440W	68	9		99	95	112	100	1.6	7.2	1.6	8.3
440N 440W	67	11		106	97	103	100	1.6	7.1	1.9	8.3
300N 430W	89	12		155	140	188	173	2.1	5.8	0.5	6.1
310N 430W	91	12		181	164	152	151	2.0	5.9	0.4	6.2
320N 430W	89	13		182	161	154	147	2.0	5.8	0.5	6.1
330N 430W	105	23		142	186	162	152	1.8	6.4	0.8	7.0
340N 430W	104	11		156	158	155	169	1.6	6.3	0.4	6.6
350N 430W	53	9		103	98	99	94	1.9	4.5	1.5	5.5
360N 430W	60	9		108	103	113	109	1.9	5.8	1.6	6.9
370N 430W	61	5		87	105	117	96	1.9	6.0	0.9	6.6
380N 430W	61	9		111	99	125	117	2.0	6.0	1.5	7.0
390N 430W	68	8		118	113	107	118	1.7	7.2	1.5	8.1
400N 430W	70	10		133	125	135	103	1.9	7.6	1.9	8.8
410N 430W	68	10		104	108	103	107	1.6	7.2	1.8	8.4
420N 430W	73	8		119	105	105	112	1.6	8.1	1.4	9.0
430N 430W	70	7		101	103	113	121	1.7	7.6	1.2	8.4
440N 430W	68	8		118	118	103	111	1.7	7.1	1.4	8.1
300N 420W	89	9		167	165	131	193	2.2	5.8	0.3	6.0
310N 420W	80	14		162	165	146	150	2.1	5.5	0.5	5.8
320N 420W	87	21		140	175	128	177	2.0	5.7	0.8	6.2
330N 420W	86	15		145	143	156	158	1.8	5.7	0.6	6.1
340N 420W	98	16		155	177	179	203	2.1	6.2	0.6	6.6
350N 420W	59	6		91	94	100	93	1.7	5.6	1.1	6.4
360N 420W	61	7		96	102	92	115	1.9	6.0	1.2	6.8
370N 420W	61	10		126	109	96	114	2.1	5.9	1.7	7.1
380N 420W	66	11		106	116	100	97	1.8	6.8	2.0	8.1
390N 420W	62	12		106	133	121	109	2.1	6.2	2.2	7.7
400N 420W	70	7		127	126	90	112	1.8	7.5	1.3	8.4
410N 420W	72	9		102	108	112	131	1.8	7.9	1.7	9.0
420N 420W	79	6		114	121	130	117	1.6	9.2	1.1	9.9
430N 420W	77	7		109	121	126	109	1.6	8.9	1.2	9.7

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
440N 420W	76	11		101	114	117	121	1.6	8.7	1.9	10.0
450N 420W	71	11	b						7.8	1.9	9.1
460N 420W	81	9	b						9.5	1.7	10.6
470N 420W	77	11	b						8.8	2.0	10.1
300N 410W	95	31		189	110	166	171	2.0	6.0	1.1	6.8
310N 410W	77	13		160	150	151	154	2.1	5.4	0.5	5.7
320N 410W	79	10		157	140	183	172	2.3	5.4	0.4	5.7
330N 410W	86	13		170	145	158	203	2.4	5.7	0.5	6.0
340N 410W	103	5		191	141	212	213	2.1	6.3	0.2	6.5
350N 410W	63	12		103	83	86	91	1.6	6.2	2.1	7.7
360N 410W	66	6		101	109	89	110	1.7	6.9	1.0	7.6
370N 410W	66	11		105	100	106	81	1.6	6.8	2.0	8.2
380N 410W	64	9		91	90	97	121	1.9	6.6	1.6	7.7
390N 410W	70	8		113	107	108	88	1.6	7.5	1.4	8.5
400N 410W	72	7		91	115	96	105	1.6	7.9	1.2	8.7
410N 410W	71	9		119	110	101	151	2.1	7.8	1.6	8.9
420N 410W	83	24		141	134	125	159	1.9	9.9	4.3	12.8
430N 410W	107	15		147	142	125	120	1.4	14.2	2.7	16.1
440N 410W	89	3	b						11.0	0.6	11.4
450N 410W	76	9	b						8.6	1.6	9.7
460N 410W	71	9	b						7.7	1.7	8.8
470N 410W	64	10	b						6.6	1.8	7.7
480N 410W	69	9	b						7.3	1.6	8.4
490N 410W	66	9	b						6.8	1.6	7.9
300N 400W	87	15			137	161	147	1.8	5.7	0.6	6.1
310N 400W	90	13		144	173	154	172	1.9	5.8	0.5	6.2
320N 400W	90	15		188	162	182	194	2.2	5.8	0.6	6.2
330N 400W	94	14		194	169	159	198	2.1	6.0	0.5	6.3
340N 400W	105	15		195	179	168	190	1.9	6.4	0.5	6.8
350N 400W	61	10		159	98	97	99	2.6	6.0	1.7	7.2
360N 400W	62	8		108	97	107	92	1.8	6.2	1.2	7.1
370N 400W	86	6		88	146	110	103	2.2	6.9	1.1	7.6
380N 400W	65	11		105	106	78	107	1.6	6.6	2.0	7.9
390N 400W	63	11		104	98	90	101	1.6	6.4	1.9	7.6
400N 400W	81	20	b						9.5	3.5	11.8
410N 400W	119	16	b						16.3	2.9	18.2
420N 400W	105	20	b						13.9	3.6	16.3
430N 400W	87	15	b						10.5	2.7	12.3
440N 400W	90	18	b						11.1	3.1	13.2
450N 400W	74	9	b						8.3	1.7	9.4
460N 400W	70	6	b						7.6	1.1	8.4
470N 400W	63	7	b						6.3	1.3	7.2
480N 400W	63	10	b						6.3	1.8	7.5
490N 400W	71	7	b						7.7	1.2	8.5

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
290N 390W	47	8	e						6.6	0.6	7.0
300N 390W	98	10		151	131	114	153	1.6	6.2	0.4	6.4
310N 390W	105	15		160	150	163	155	1.6	6.4	0.6	6.8
320N 390W	102	13		146	177	153	197	1.9	6.3	0.5	6.6
330N 390W	111	12		219	163	154	181	2.0	6.6	0.4	6.9
340N 390W	107	12		165	200	179	202	1.9	6.5	0.4	6.8
350N 390W	82	13		173	108	114	123	2.1	8.0	0.9	8.6
360N 390W	105	16		124	130	134	124	1.3	9.5	1.0	10.2
370N 390W	90	11		111	122	138	123	1.5	8.6	0.7	9.0
380N 390W	120	42		111	129	141	144	1.2	10.5	2.7	12.3
390N 390W	162	37		142	124	259	203	1.7	13.2	2.4	14.8
400N 390W	72	10	b						11.4	1.6	12.4
410N 390W	66	11	b						10.8	1.7	11.9
420N 390W	65	10	b						10.4	1.5	11.3
430N 390W	58	7	b						9.3	1.0	10.0
440N 390W	53	7	b						8.6	1.1	9.4
450N 390W	68	11	b						7.2	1.9	8.5
460N 390W	62	8	b						6.1	1.4	7.0
470N 390W	63	11	b						6.3	1.9	7.6
480N 390W	59	6	b						5.5	1.0	6.2
490N 390W	64	10	b						6.5	1.8	7.7
280N 380W	69	8	e						8.3	0.6	8.7
290N 380W	64	10	e						7.8	0.7	8.3
300N 380W	111	23		167	147	111	158	1.5	6.6	0.8	7.2
310N 380W	109	22		177	154	154	182	1.7	6.5	0.8	7.1
320N 380W	113	15		187	172	172	181	1.6	6.7	0.6	7.1
330N 380W	137	30		230	234	231	233	1.7	7.6	1.1	8.3
340N 380W	151	27		241	205	238	196	1.6	8.1	1.0	8.7
350N 380W	93	12		233	144	163	145	2.5	8.8	0.8	9.3
360N 380W	133	32		167	190	212	181	1.6	11.3	2.1	12.7
370N 380W	162	25		215	212	203	238	1.5	13.2	1.7	14.3
380N 380W	174	21		216	209	246	233	1.4	14.0	1.3	14.9
390N 380W	172	29		196	209	256	211	1.5	13.8	1.9	15.1
400N 380W	74	15	b						11.7	2.3	13.3
410N 380W	72	12	b						11.4	1.9	12.6
420N 380W	70	5	b						11.1	0.8	11.6
430N 380W	60	12	b						9.6	1.8	10.8
440N 380W	65	10	b						10.4	1.5	11.4
450N 380W	70	7	b						7.6	1.2	8.4
460N 380W	67	6	b						7.1	1.1	7.8
470N 380W	58	5	b						5.4	0.9	6.0
480N 380W	66	12	b						6.8	2.1	8.2
270N 370W	63	6	e						7.8	0.5	8.1
280N 370W	68	17	e						8.2	1.3	9.0

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
290N 370W	61	15	e						7.7	1.2	8.5
300N 370W	98	38	q						8.2	4.3	11.3
310N 370W	178	38	q						9.1	1.4	10.0
320N 370W	252	45	q						11.8	1.7	12.9
330N 370W	337	67		416	379	386	419	1.2	14.9	2.5	16.6
340N 370W	351	50		400	390	388	425	1.2	15.4	1.8	16.6
350N 370W	171	25		147	166	124	248	1.4	13.8	1.6	14.9
360N 370W	183	10		238	223	298	258	1.6	14.6	0.7	15.0
370N 370W	185	27		274	310	299	354	1.9	14.7	1.8	15.9
380N 370W	156	23		214	212	209	243	1.6	12.8	1.5	13.8
390N 370W	178	33		236	239	229	255	1.4	14.2	2.1	15.7
400N 370W	74	7	b						11.8	1.1	12.5
410N 370W	72	9	b						11.4	1.4	12.3
420N 370W	66	11	b						10.5	1.6	11.6
430N 370W	59	2	b						9.4	0.3	9.6
440N 370W	58	10	b						9.4	1.6	10.4
470N 370W	59	7	b						5.7	1.3	6.5
480N 370W	59	6	b						5.5	1.2	6.3
260N 360W	58	8	e						7.4	0.6	7.8
270N 360W	58	9	e						7.4	0.7	7.9
280N 360W	67	8	e						8.1	0.6	8.5
290N 360W	72	14	e						8.5	1.2	9.3
300N 360W	162	26		233	213	216	264	1.6	8.5	0.9	9.1
310N 360W	176	39		275	266	307	306	1.7	9.0	1.4	10.0
320N 360W	238	54		480	274	329	337	2.0	11.3	2.0	12.5
330N 360W	334	40		420	468	420	421	1.4	14.8	1.5	15.8
340N 360W	358	20		467	408	405	458	1.3	15.7	0.7	16.2
350N 360W	207	14		268	248	256	236	1.3	16.1	0.9	16.7
360N 360W	200	27		250	269	273	232	1.4	15.7	1.8	16.9
370N 360W	180	27		227	259	256	250	1.4	14.3	1.8	15.5
380N 360W	175	25		218	222	212	238	1.4	14.0	1.7	15.1
390N 360W	161	15		211	196	203	223	1.4	13.1	1.0	13.8
400N 360W	92	14	b						14.5	2.2	15.9
410N 360W	76	16	b						12.0	2.5	13.6
420N 360W	66	13	b						10.6	1.9	11.9
430N 360W	62	7	b						9.9	1.0	10.6
440N 360W	50	11	b						8.1	1.6	9.3
510N 360W	54	7	e						8.7	1.0	9.3
250N 350W	63	9	e						7.8	0.6	8.2
260N 350W	58	12	e						7.4	0.9	8.0
270N 350W	63	8	e						7.8	0.6	8.2
280N 350W	58	15	e						7.5	1.1	8.2
290N 350W	80	15	e						9.1	1.1	9.8
300N 350W	195	30		243	219	320	276	1.6	9.7	1.1	10.4

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
310N 350W	200	70		308	227	263	372	1.9	9.9	2.6	11.6
320N 350W	300	52		434	375	420	439	1.5	13.6	1.9	14.8
330N 350W	323	40		412	422	439	370	1.4	14.4	1.5	15.4
340N 350W	400	56		483	485	600	570	1.5	17.2	2.0	18.6
350N 350W	278	59		370	308	297	300	1.3	20.7	3.9	23.3
360N 350W	212	31		285	285	260	260	1.3	16.4	2.0	17.8
370N 350W	185	16		209	225	211	174	1.2	14.7	1.0	15.4
380N 350W	164	8		175	216	233	221	1.4	13.3	0.5	13.7
390N 350W	163	13		220	216	233	223	1.4	13.3	0.9	13.8
400N 350W	118	16	b						18.3	2.4	19.9
410N 350W	101	15	b						15.8	2.2	17.3
420N 350W	86	12	b						13.5	1.8	14.7
430N 350W	83	10	b						13.1	1.6	14.1
440N 350W	60	10	b						9.6	1.6	10.7
510N 350W	63	15	e						10.0	2.3	11.5
240N 340W	44	7	e						7.3	1.0	7.9
250N 340W	31	7	q						7.1	0.7	7.6
260N 340W	35	7	q						7.5	0.6	7.9
270N 340W	35	6	q						7.5	0.5	7.9
280N 340W	37	5	q						7.7	0.5	8.0
290N 340W	43	6	q						8.3	0.6	8.6
300N 340W	85	11		196	115	122	108	2.3	10.2	2.0	11.5
310N 340W	86	11		109	111	119	128	1.5	10.5	2.0	11.8
320N 340W	83	19		128	188	116	142	2.3	9.8	3.4	12.1
330N 340W	103	17		152	150	151	171	1.7	13.4	3.0	15.4
340N 340W	130	21		156	199	223	188	1.7	18.2	3.8	20.8
350N 340W	305	78		470	362	336	333	1.5	22.5	5.0	25.8
360N 340W	217	33		275	299	293	242	1.4	16.8	2.2	18.2
370N 340W	207	36		244	246	232	196	1.2	16.1	2.3	17.7
380N 340W	176	21		232	256	191	217	1.5	14.1	1.4	15.0
390N 340W	164	24		210	201	181	276	1.7	13.3	1.6	14.4
400N 340W	132	24		187	190	186	160	1.4	13.0	1.8	14.2
410N 340W	117	25		164	157	156	138	1.4	11.9	1.9	13.2
420N 340W	98	21		141	145	137	125	1.5	10.4	1.6	11.5
430N 340W	91	13	x	121	452	482	467	5.3	9.9	1.0	10.6
440N 340W	78	18	x	446	680	443	407	8.8	8.9	1.4	9.8
510N 340W	59	7	e						9.5	1.1	10.2
230N 330W	49	8	e						8.0	1.2	8.8
240N 330W	52	16	e						8.4	2.4	10.1
250N 330W	29	4	q						6.9	0.3	7.2
260N 330W	33	4	q						7.3	0.4	7.6
270N 330W	39	5	q						7.9	0.5	8.2
280N 330W	39	7	q						7.8	0.6	8.3
290N 330W	40	5	q						7.9	0.4	8.2

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
300N 330W	83	19		157	120	132	136	1.9	9.9	3.3	12.1
310N 330W	98	13		119	135	151	147	1.5	12.6	2.3	14.1
320N 330W	100	15		147	150	161	168	1.7	12.9	2.6	14.7
330N 330W	98	21		162	166	146	144	1.7	12.5	3.8	15.0
340N 330W	119	34		144	136	165	186	1.6	16.3	6.1	20.4
350N 330W	338	93		379	360	405	393	1.2	24.6	6.0	28.6
360N 330W	230	51		351	290	287	263	1.6	17.6	3.3	19.8
370N 330W	180	19		302	263	224	220	1.7	14.4	1.3	15.2
380N 330W	168	27		224	260	227	238	1.5	13.6	1.8	14.8
390N 330W	192	45		291	246	194	197	1.5	15.2	2.9	17.1
400N 330W	111	18		210	156	148	159	1.9	11.4	1.3	12.3
410N 330W	107	17		151	142	121	124	1.4	11.1	1.3	12.0
420N 330W	89	12		120	113	101	127	1.4	9.8	0.9	10.4
430N 330W	81	15		99	122	104	123	1.5	9.1	1.2	9.9
440N 330W	79	11		109	107	111	97	1.4	9.0	0.8	9.6
510N 330W	55	8	e						8.8	1.3	9.7
220N 320W	48	5	e						7.9	0.8	8.4
230N 320W	58	11	e						9.4	1.6	10.5
240N 320W	55	9	e						8.9	1.4	9.8
250N 320W	33	7	q						7.3	0.6	7.7
260N 320W	33	6	q						7.3	0.6	7.7
270N 320W	36	4	q						7.6	0.4	7.8
280N 320W	35	5	q						7.5	0.4	7.8
290N 320W	43	6	q						8.2	0.6	8.6
300N 320W	91	18		167	161	136	138	1.8	11.3	3.2	13.5
310N 320W	108	18		155	100	129	157	1.5	14.3	3.3	16.5
320N 320W	117	17		195	145	150	143	1.7	15.9	3.0	17.9
330N 320W	123	14		173	176	166	156	1.4	17.0	2.5	18.7
340N 320W	102	35		168	140	172	212	2.1	13.3	6.2	17.5
350N 320W	228	110		327	368	383	361	1.7	17.5	7.1	22.3
360N 320W	193	22		278	291	253	232	1.5	15.2	1.4	16.2
370N 320W	204	25		236	247	253	238	1.2	15.9	1.7	17.0
380N 320W	181	23		204	239	243	249	1.4	14.4	1.5	15.4
390N 320W	172	31		258	223	238	230	1.5	13.8	2.0	15.2
400N 320W	118	13		180	150	195	161	1.7	11.9	1.0	12.6
410N 320W	96	20		166	138	124	126	1.7	10.3	1.5	11.3
420N 320W	81	9		100	106	113	104	1.4	9.1	0.7	9.6
430N 320W	67	8		107	91	79	94	1.6	8.1	0.6	8.5
440N 320W	64	6		87	88	107	101	1.7	7.9	0.5	8.2
510N 320W	53	11	e						8.5	1.6	9.6
210N 310W	51	8	e						8.3	1.3	9.1
220N 310W	49	7	e						8.0	1.1	8.7
230N 310W	49	8	e						8.0	1.2	8.8
240N 310W	59	10	e						9.5	1.5	10.5

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
250N 310W	37	5	q						7.7	0.5	8.0
260N 310W	37	4	q						7.7	0.4	7.9
270N 310W	39	9	q						7.8	0.8	8.4
280N 310W	46	10	q						8.5	0.9	9.2
290N 310W	47	6	q						8.6	0.5	9.0
300N 310W	99	18		154	125	175	154	1.8	12.8	3.2	14.9
310N 310W	121	13		175	154	140	186	1.5	16.7	2.3	18.2
320N 310W	124	18		127	163	160	177	1.4	17.1	3.2	19.3
330N 310W	142	14		164	161	156	168	1.2	20.3	2.5	22.0
340N 310W	115	30		164	152	130	168	1.5	15.5	5.3	19.0
350N 310W	134	61		242	199	238	239	1.8	11.4	3.9	14.0
360N 310W	122	30		181	235	192	246	2.0	10.6	2.0	12.0
370N 310W	179	26		287	240	227	224	1.6	14.3	1.7	15.4
380N 310W	149	32		228	194	208	231	1.6	12.3	2.1	13.7
390N 310W	128	38		208	199	163	183	1.6	11.0	2.5	12.7
400N 310W	89	18		188	181	106	166	2.1	9.8	1.3	10.7
410N 310W	86	18		124	165	115	107	1.9	9.5	1.4	10.5
420N 310W	79	15		120	121	127	108	1.6	9.0	1.1	9.8
430N 310W	68	8		131	120	101	109	1.9	8.2	0.6	8.6
440N 310W	61	7		83	98	90	113	1.9	7.6	0.5	8.0
510N 310W	55	7	e						8.9	1.0	9.6
200N 300W	48	10	e						7.8	1.5	8.9
210N 300W	53	5	e						8.6	0.7	9.1
220N 300W	47	7	e						7.7	1.0	8.4
230N 300W	54	10	e						8.7	1.5	9.7
240N 300W	54	11	e						8.7	1.6	9.8
250N 300W	39	7	q						7.8	0.7	8.3
260N 300W	46	10	q						8.5	0.9	9.2
270N 300W	40	9	q						7.9	0.8	8.5
280N 300W	52	13	q						9.0	1.2	9.8
290N 300W	55	10	q						9.3	0.9	10.0
300N 300W	101	11		138	163	148	140	1.6	13.1	1.9	14.4
310N 300W	103	9		165	134	161	137	1.6	13.5	1.6	14.5
320N 300W	113	15		160	181	160	160	1.6	15.2	2.8	17.0
330N 300W	111	12		164	161	130	135	1.5	14.8	2.2	16.3
340N 300W	113	24		168	166	163	145	1.5	15.1	4.3	18.0
350N 300W	189	50		280	277	224	270	1.5	14.9	3.3	17.1
360N 300W	181	60		274	303	245	174	1.7	14.5	3.9	17.1
370N 300W	144	23		154	203	204	207	1.4	12.0	1.5	13.0
380N 300W	142	18		216	204	195	164	1.5	11.9	1.2	12.7
390N 300W	132	36		274	221	189	147	2.1	11.3	2.4	12.9
400N 300W	82	16		152	145	125	131	1.9	9.2	1.2	10.1
410N 300W	80	17		120	108	112	111	1.5	9.1	1.3	9.9
420N 300W	82	18		111	145	125	123	1.8	9.3	1.3	10.2

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
430N 300W	78	15		133	128	147	129	1.9	9.0	1.1	9.7
440N 300W	68	16		118	106	111	80	1.7	7.2	3.1	9.2
510N 300W	54	5	e						8.7	0.8	9.3
200N 290W	57	10		93	80	94	77	1.7	7.3	0.7	7.8
210N 290W	55	15		118	102	89	73	2.2	7.2	1.2	8.0
220N 290W	62	13		96	95	87	80	1.5	7.8	1.0	8.4
230N 290W	64	12		94	89	77	67	1.5	7.9	0.9	8.5
240N 290W	67	14		90	106	97	124	1.8	8.1	1.1	8.9
250N 290W	115	9		202	156	154	217	1.9	10.2	0.6	10.6
260N 290W	134	26		196	220	167	197	1.6	11.4	1.7	12.5
270N 290W	167	30		204	232	245	232	1.5	13.6	2.0	14.9
280N 290W	184	28		252	244	328	247	1.8	14.6	1.8	15.8
290N 290W	191	19		366	267	235	260	1.9	15.1	1.2	15.9
300N 290W	120	11		157	135	155	136	1.3	16.4	1.9	17.7
310N 290W	109	13		148	146	159	156	1.5	14.5	2.2	16.0
320N 290W	106	16		156	134	135	118	1.5	14.0	2.8	15.9
330N 290W	110	13		152	133	167	142	1.5	14.7	2.2	16.2
340N 290W	120	13		154	165	133	122	1.4	16.4	2.3	18.0
350N 290W	115	14		154	137	153	166	1.4	15.5	2.5	17.2
360N 290W	97	8		82	144	140	154	1.6	12.3	1.5	13.3
370N 290W	90	16		122	127	159	111	1.8	11.2	2.8	13.1
380N 290W	72	18		103	124	114	143	2.0	7.9	3.1	10.0
390N 290W	89	14		117	111	139	117	1.6	10.9	2.4	12.5
400N 290W	103	10		135	156	101	131	1.5	9.4	0.7	9.8
410N 290W	107	18		140	155	154	145	1.4	9.7	1.2	10.4
420N 290W	90	24		134	162	123	182	2.0	8.5	1.5	9.6
430N 290W	77	21		121	110	133	133	1.7	7.7	1.4	8.6
440N 290W	83	18		121	127	127	132	1.6	8.1	1.2	8.9
450N 290W	78	13		115	116	108	114	1.5	8.9	1.0	9.6
460N 290W	76	13		96	113	99	101	1.5	8.8	0.9	9.5
470N 290W	65	12		101	96	87	81	1.5	8.0	0.9	8.5
480N 290W	72	9		113	96	100	97	1.6	8.5	0.7	9.0
490N 290W	67	7		83	99	91	100	1.5	8.1	0.5	8.4
510N 290W	46	6	e						7.6	0.9	8.2
200N 280W	63	12		100	101	89	76	1.6	7.8	0.9	8.4
210N 280W	68	12		100	104	86	95	1.5	8.2	0.9	8.8
220N 280W	62	8		103	92	82	111	1.8	7.7	0.6	8.1
230N 280W	80	21		89	104	116	102	1.5	9.1	1.6	10.1
240N 280W	94	19		107	129	110	130	1.4	10.1	1.5	11.1
250N 280W	144	24		308	189	193	191	2.1	12.0	1.6	13.1
260N 280W	173	36		258	224	241	286	1.7	13.9	2.4	15.5
270N 280W	210	36		282	352	459	286	2.2	16.3	2.3	17.9
280N 280W	237	46		334	296	348	385	1.6	18.1	3.0	20.1
290N 280W	244	75		335	300	294	306	1.4	18.6	4.8	21.8

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
300N 280W	135	15		188	143	127	158	1.4	19.1	2.6	20.9
310N 280W	111	14		130	131	155	140	1.4	14.9	2.4	16.5
320N 280W	118	15		146	130	152	143	1.3	16.2	2.7	18.0
330N 280W	121	9		153	149	160	160	1.5	16.6	1.6	17.6
340N 280W	110	12		171	145	136	149	1.6	14.6	2.1	16.0
350N 280W	112	15		145	169	139	122	1.5	15.0	2.7	16.8
360N 280W	99	13		144	163	146	135	1.6	12.8	2.4	14.4
370N 280W	92	18		137	143	127	121	1.5	11.5	3.2	13.6
380N 280W	73	14		139	108	126	124	1.9	8.1	2.4	9.8
390N 280W	89	10		114	119	123	122	1.4	11.0	1.7	12.1
400N 280W	98	23		187	160	163	158	1.9	9.1	1.5	10.1
410N 280W	100	25		160	132	145	176	1.8	9.2	1.6	10.3
420N 280W	103	17		165	167	157	130	1.6	9.4	1.1	10.1
430N 280W	100	16		133	146	128	144	1.5	9.2	1.0	9.9
440N 280W	92	13		146	156	158	145	1.7	8.7	0.8	9.2
450N 280W	71	16		89	115	155	136	2.2	8.4	1.2	9.2
460N 280W	81	10		100	98	114	102	1.4	9.2	0.8	9.7
470N 280W	71	8		91	89	100	81	1.4	8.4	0.6	8.8
480N 280W	72	11		101	107	88	101	1.5	8.5	0.8	9.1
490N 280W	74	8		103	103	90	87	1.4	8.6	0.6	9.0
510N 280W	54	12	e						10.2	1.8	11.4
200N 270W	63	4		87	82	86	114	1.8	7.8	0.3	8.0
210N 270W	60	12		112	89	90	99	1.9	7.6	0.9	8.2
220N 270W	62	18		106	96	102	99	1.7	7.7	1.4	8.7
230N 270W	84	12		96	99	93	116	1.4	9.4	0.9	10.0
240N 270W	96	21		140	128	138	132	1.5	10.3	1.6	11.4
250N 270W	166	29		258	244	265	242	1.6	13.4	1.9	14.7
260N 270W	208	42		242	278	338	277	1.7	15.9	2.7	17.7
270N 270W	266	75		324	440	371	331	1.7	20.0	4.8	23.2
280N 270W	296	59		359	404	412	413	1.4	21.9	3.8	24.5
290N 270W	286	67		408	392	337	303	1.4	21.3	4.3	24.1
300N 270W	122	18		190	169	156	138	1.6	16.9	3.1	19.0
310N 270W	117	17		157	160	167	157	1.4	16.0	3.1	18.0
320N 270W	115	12		133	149	174	140	1.5	15.5	2.2	16.9
330N 270W	112	15		137	145	139	128	1.3	15.1	2.6	16.9
340N 270W	117	19		149	131	132	131	1.3	15.9	3.4	18.2
350N 270W	101	5		150	169	156	140	1.7	13.1	0.9	13.7
360N 270W	97	6		152	132	143	120	1.6	12.3	1.1	13.1
370N 270W	72	13		113	122	123	122	1.7	8.0	2.3	9.5
380N 270W	75	15		87	126	150	110	2.0	8.4	2.6	10.2
390N 270W	87	13		132	124	123	134	1.5	10.7	2.4	12.3
400N 270W	109	19		148	178	149	155	1.6	9.8	1.2	10.6
410N 270W	114	7		162	167	174	175	1.5	10.1	0.5	10.4
420N 270W	99	8		151	164	147	118	1.7	9.1	0.5	9.5

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
430N 270W	100	18		131	128	170	152	1.7	9.2	1.2	10.0
440N 270W	96	8		142	145	151	131	1.6	8.9	0.5	9.3
450N 270W	92	10		103	114	103	116	1.3	10.0	0.8	10.5
460N 270W	76	19		92	100	113	108	1.5	8.8	1.5	9.7
470N 270W	76	20		79	94	77	81	1.2	8.8	1.5	9.8
480N 270W	74	16		81	97	88	87	1.3	8.6	1.2	9.5
490N 270W	76	10		113	98	65	82	1.5	8.8	0.8	9.3
510N 270W	62	15	e						9.9	2.3	11.4
200N 260W	66	7		89	114	88	122	1.9	8.0	0.5	8.4
210N 260W	72	15		84	103	93	105	1.5	8.5	1.1	9.3
220N 260W	75	11		110	83	92	103	1.5	8.7	0.8	9.3
230N 260W	97	34		104	118	124	118	1.3	10.3	2.6	12.1
240N 260W	106	15		157	118	140	156	1.5	11.1	1.1	11.8
250N 260W	181	30		297	209	262	301	1.7	14.4	1.9	15.7
260N 260W	282	74		304	371	343	411	1.5	21.0	4.8	24.2
270N 260W	305	102		409	346	364	293	1.3	22.5	6.6	26.9
280N 260W	278	87		327	361	344	327	1.3	20.7	5.6	24.5
290N 260W	206	43		375	336	277	255	1.8	16.1	2.8	17.9
300N 260W	126	31		145	174	175	147	1.4	17.6	5.5	21.2
310N 260W	119	20		163	152	159	162	1.4	16.3	3.5	18.6
320N 260W	121	15		156	129	159	153	1.3	16.6	2.6	18.3
330N 260W	105	11		157	135	132	133	1.5	13.8	2.0	15.1
340N 260W	91	14		150	149	150	135	1.6	11.4	2.4	13.0
350N 260W	95	11		125	147	164	136	1.7	12.1	1.9	13.4
360N 260W	85	14		133	156	138	133	1.8	10.2	2.4	11.8
370N 260W	90	15		137	151	122	121	1.7	11.2	2.7	13.0
380N 260W	64	14		107	102	122	110	1.9	6.4	2.5	8.1
390N 260W	70	11		114	119	110	123	1.7	7.6	2.0	8.9
400N 260W	104	17		153	166	132	154	1.6	9.4	1.1	10.2
410N 260W	96	15		153	170	139	126	1.8	9.0	1.0	9.6
420N 260W	94	12		160	155	144	140	1.7	8.8	0.8	9.3
430N 260W	95	13		148	179	161	136	1.9	8.8	0.9	9.4
440N 260W	88	10		142	147	152	137	1.7	8.5	0.7	8.9
450N 260W	80	8		123	111	120	119	1.5	9.1	0.6	9.5
460N 260W	77	14		97	113	97	126	1.6	8.8	1.0	9.5
470N 260W	74	18		130	103	124	125	1.8	8.6	1.4	9.6
480N 260W	71	17		119	110	85	112	1.7	8.4	1.3	9.3
490N 260W	80	23		102	126	84	103	1.6	9.1	1.8	10.3
510N 260W	62	7	e						9.9	1.0	10.6
200N 250W	73	12		86	89	84	97	1.3	8.5	0.9	9.2
210N 250W	72	14		96	94	110	102	1.5	8.5	1.0	9.2
220N 250W	77	18		121	97	109	110	1.6	8.8	1.3	9.7
230N 250W	101	23		94	130	147	138	1.5	10.7	1.8	11.9
240N 250W	136	38		143	130	123	122	1.1	13.3	2.9	15.3

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg.	Grid STD	Grid 95th
250N 250W	204	60		406	282	369	415	2.0	15.9	3.9	18.6
260N 250W	283	125		353	363	489	494	1.7	21.1	8.1	26.5
270N 250W	237	55		420	362	322	292	1.8	18.1	3.6	20.5
280N 250W	240	40		323	363	366	324	1.5	18.3	2.6	20.0
290N 250W	198	33		265	244	238	250	1.3	15.6	2.2	17.0
300N 250W	138	35			149	151	145	1.1	19.6	6.2	23.7
310N 250W	136	25		160	149	158	156	1.2	19.3	4.5	22.3
320N 250W	121	17		156	139	120	141	1.3	16.7	3.1	18.7
330N 250W	91	14		98	101	126	132	1.4	11.4	2.5	13.0
340N 250W	87	17		143	140	117	127	1.6	10.7	3.0	12.7
350N 250W	75	11		137	124	104	122	1.8	8.5	2.0	9.8
360N 250W	75	10		115	144	110	112	1.9	8.5	1.8	9.8
370N 250W	81	13		137	131	135	122	1.7	9.5	2.3	11.0
380N 250W	70	15		107	101	83	106	1.5	7.5	2.7	9.3
390N 250W	63	10		108	86	148	118	2.3	6.3	1.8	7.5
400N 250W	73	19		163	100	134	151	2.2	7.4	1.2	8.2
410N 250W	97	11		131	136	132	129	1.4	9.0	0.7	9.5
420N 250W	88	15		131	132	141	124	1.6	8.4	1.0	9.1
430N 250W	86	18		145	132	145	131	1.7	8.3	1.2	9.1
440N 250W	99	23		118	133	129	133	1.3	9.1	1.5	10.2
450N 250W	80	10		103	103	128	85	1.6	9.1	0.7	9.6
460N 250W	74	8		87	113	117	121	1.6	8.6	0.6	9.0
470N 250W	84	11		122	114	109	133	1.6	9.4	0.8	9.9
480N 250W	77	13		115	95	110	103	1.5	8.9	1.0	9.6
490N 250W	64	9		112	104	111	104	1.8	7.9	0.7	8.4
510N 250W	54	12	e						8.7	1.9	10.0
150N 240W	134	24		151	217	220	190	1.6	7.4	0.9	8.0
160N 240W	123	24		192	212	178	160	1.7	7.1	0.9	7.7
170N 240W	105	10		189	206	184	182	2.0	6.4	0.4	6.6
180N 240W	129	14		177	221	205	172	1.7	7.3	0.5	7.6
190N 240W	120	17		184	169	211	190	1.7	7.0	0.6	7.4
200N 240W	58	8	x	203	67	72	72	3.5	5.5	1.3	6.4
210N 240W	63	10		82	75	73	115	1.8	6.4	1.9	7.6
220N 240W	55	23		104	96	111	112	2.0	9.3	2.2	10.8
230N 240W	83	15		115	148	122	154	1.9	11.9	1.4	12.8
240N 240W	120	19		127	163	141	169	1.4	15.4	1.7	16.5
250N 240W	154	39		198	260	187	225	1.7	22.5	6.9	27.1
260N 240W	173	31		205	225	211	210	1.3	25.9	5.5	29.5
270N 240W	162	22		211	191	208	187	1.3	24.0	3.9	26.6
280N 240W	127	26		179	133	156	168	1.4	17.8	4.6	20.9
290N 240W	156	34		202	179	157	198	1.3	22.8	6.1	26.9
300N 240W	184	36		269	213	187	235	1.5	17.0	2.7	18.8
310N 240W	164	19		191	197	189	198	1.2	15.4	1.4	16.4
320N 240W	138	28		192	185	178	144	1.4	13.5	2.1	14.9

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
330N 240W	118	7		156	154	159	134	1.4	11.9	0.5	12.3
340N 240W	95	11		155	168	148	148	1.8	10.2	0.8	10.7
350N 240W	68	15		128	84	106	95	2.2	9.6	1.4	10.5
360N 240W	85	11		91	110	84	95	1.7	10.3	1.0	10.9
370N 240W	53	13		94	91	88	87	1.8	9.1	1.2	9.9
380N 240W	56	18		80	71	73	69	1.4	9.5	1.4	10.4
390N 240W	58	7		85	65	89	75	1.5	9.6	0.7	10.1
400N 240W	48	8		82	81	74	78	1.7	8.7	0.7	9.1
410N 240W	42	6		77	73	82	78	1.9	8.2	0.5	8.5
420N 240W	50	4		89	69	82	93	1.9	8.9	0.3	9.1
430N 240W	46	8		90	92	77	74	2.0	8.5	0.7	9.0
440N 240W	52	8		87	60	90	85	1.7	9.1	0.7	9.6
510N 240W	58	11	e						9.3	1.7	10.4
150N 230W	123	13		360	186	161	231	2.9	7.0	0.5	7.4
160N 230W	131	22		193	180	180	188	1.5	7.4	0.8	7.9
170N 230W	134	36		172	185	190	197	1.5	7.4	1.3	8.3
180N 230W	120	18		174	220	207	222	1.8	7.0	0.6	7.3
190N 230W	127	17		196	165	162	183	1.5	7.2	0.6	7.6
200N 230W	53	6	x	210	76	70	73	4.0	9.1	0.6	9.5
210N 230W	68	14		86	69	118	87	2.1	9.6	1.3	10.4
220N 230W	73	22		90	103	105	123	1.7	11.0	2.0	12.3
230N 230W	101	14		145	137	119	160	1.6	13.1	2.4	14.7
240N 230W	101	18	y	134	144	159	171		13.1	3.1	15.2
250N 230W	150	20		221	213	193	224	1.5	21.9	3.5	24.2
260N 230W	171	26		247	258	267	236	1.6	25.5	4.7	28.7
270N 230W	158	44		209	276	208	149	1.7	23.3	7.9	28.6
280N 230W	108	25		185	175	208	184	1.9	14.2	4.5	17.2
290N 230W	136	20		164	200	189	218	1.6	19.3	3.6	21.7
300N 230W	225	76		302	260	227	230	1.3	20.0	5.8	23.9
310N 230W	142	22		191	313	152	184	2.2	13.8	1.7	14.9
320N 230W	132	25		177	155	153	173	1.3	13.0	1.9	14.3
330N 230W	102	12		155	152	164	132	1.6	10.8	0.9	11.4
340N 230W	86	19		180	138	126	107	2.1	9.5	1.4	10.5
350N 230W	56	8		89	90	92	60	1.6	9.5	0.7	9.9
360N 230W	58	14		89	98	82	75	1.7	9.6	1.3	10.4
370N 230W	54	8		87	106	73	75	2.0	9.2	0.7	9.7
380N 230W	49	10		79	77	77	74	1.6	8.8	0.9	9.4
390N 230W	54	10		64	79	57	81	1.5	9.2	0.9	9.8
400N 230W	45	6		89	76	75	85	2.0	8.4	0.6	8.8
410N 230W	43	5		59	67	66	55	1.5	8.3	0.5	8.6
420N 230W	42	7		71	61	85	74	2.0	8.1	0.6	8.6
430N 230W	40	9		83	65	80	68	2.1	7.9	0.9	8.5
440N 230W	42	8		57	59	75	80	1.9	8.1	0.6	8.5
510N 230W	56	10	e						9.1	1.5	10.1

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
150N 220W	140	29		200	178	202	195	1.4	7.7	1.1	8.4
160N 220W	150	24		199	208	283	229	1.9	8.0	0.9	8.6
170N 220W	132	18		232	191	233	242	1.8	7.4	0.7	7.8
180N 220W	120	12		202	189	187	149	1.7	6.9	0.4	7.2
190N 220W	141	23		207	199	230	185	1.6	7.7	0.8	8.3
200N 220W	64	9		195	90	84	118	3.1	10.1	0.8	10.7
210N 220W	79	14		104	129	124	147	1.9	11.6	1.3	12.4
220N 220W	74	21		154	88	91	108	2.1	11.1	1.9	12.4
230N 220W	101	24		112	144	143	150	1.5	13.6	2.3	15.1
240N 220W	123	33		173	171	182	185	1.5	15.7	3.0	17.7
250N 220W	167	37		206	217	232	239	1.4	24.9	6.6	29.3
260N 220W	144	30		209	206	215	230	1.6	20.7	5.3	24.2
270N 220W	146	30		220	240	199	200	1.6	21.0	5.4	24.7
280N 220W	164	48		240	243	229	194	1.5	24.3	8.5	30.0
290N 220W	146	33		192	190	250	184	1.7	21.1	5.8	25.0
300N 220W	197	42		260	287	291	212	1.5	17.9	3.2	20.0
310N 220W	154	37		187	184	166	190	1.2	14.6	2.8	16.5
320N 220W	119	22		163	182	169	161	1.5	12.1	1.7	13.2
330N 220W	102	8		167	153	166	111	1.6	10.7	0.6	11.1
340N 220W	97	16		103	142	149	121	1.5	10.4	1.2	11.2
350N 220W	64	8		103	85	90	97	1.6	10.1	0.8	10.6
360N 220W	50	16		74	83	82	83	1.7	8.9	1.5	9.9
370N 220W	52	10		99	73	89	81	1.9	9.1	0.9	9.7
380N 220W	57	11		76	91	78	104	1.8	9.5	1.1	10.2
390N 220W	51	8		78	92	57	56	1.8	9.0	0.7	9.4
400N 220W	47	7		93	65	84	72	2.0	8.6	0.7	9.1
410N 220W	54	13		74	68	73	63	1.4	9.3	1.2	10.0
420N 220W	49	5		73	76	91	74	1.9	8.8	0.5	9.1
430N 220W	46	8		84	86	72	71	1.9	8.5	0.7	9.0
440N 220W	41	5		76	74	82	66	2.0	8.0	0.4	8.3
510N 220W	55	14	e						8.9	2.1	10.3
150N 210W	151	23	x	480	210	223	198	3.2	8.1	0.8	8.6
160N 210W	144	22		201	218	209	204	1.5	7.8	0.8	8.3
170N 210W	165	30		211	236	235	194	1.4	8.6	1.1	9.3
180N 210W	143	22		215	191	211	195	1.5	7.8	0.8	8.3
190N 210W	158	32		193	219	263	204	1.7	8.4	1.2	9.1
200N 210W	60	11		148	97	109	121	2.5	9.8	1.0	10.4
210N 210W	90	21		147	112	154	140	1.7	12.6	1.9	13.9
220N 210W	103	28		142	181	152	106	1.8	13.8	2.6	15.5
230N 210W	104	32		123	156	132	155	1.5	13.9	2.9	15.8
240N 210W	112	46		142	163	194	207	1.9	14.6	4.2	17.4
250N 210W	145	34		176	187	192	210	1.4	20.9	6.1	25.0
260N 210W	148	36		204	222	186	198	1.5	21.5	6.5	25.8
270N 210W	131	29		200	174	170	183	1.5	18.4	5.1	21.8

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
280N 210W	159	28		218	245	185	178	1.5	23.3	5.1	26.7
290N 210W	143	35		169	204	191	167	1.4	20.5	6.2	24.7
300N 210W	168	45		236	252	218	203	1.5	15.7	3.4	18.0
310N 210W	138	18		211	220	174	188	1.6	13.5	1.3	14.4
320N 210W	99	21		167	126	143	154	1.7	10.5	1.6	11.6
330N 210W	110	15		133	154	160	159	1.4	11.4	1.1	12.1
340N 210W	86	10		150	168	120	138	2.0	9.5	0.8	10.0
350N 210W	64	10		78	89	94	96	1.5	10.2	0.9	10.8
360N 210W	53	8		86	82	89	74	1.4	10.1	0.7	10.6
370N 210W	50	10		88	88	86	88	1.7	8.9	0.9	9.5
380N 210W	55	11		67	84	78	77	1.5	9.3	1.0	10.0
390N 210W	56	14		77	76	68	82	1.4	9.5	1.3	10.3
400N 210W	52	15		73	77	81	79	1.6	9.0	1.4	10.0
410N 210W	52	8		78	79	67	75	1.5	9.0	0.7	9.5
420N 210W	50	6		56	95	68	74	1.9	8.9	0.6	9.2
430N 210W	56	9		86	98	90	73	1.8	9.4	0.8	9.9
440N 210W	57	11		99	93	87	94	1.7	9.6	1.0	10.2
510N 210W	60	8	e						9.6	1.1	10.4
150N 200W	143	24		360	235	231	229	2.5	7.8	0.9	8.4
160N 200W	147	24		253	249	187	187	1.7	7.9	0.9	8.5
170N 200W	153	26		202	239	230	186	1.6	8.1	1.0	8.8
180N 200W	166	20		246	254	274	267	1.7	8.6	0.7	9.1
190N 200W	200	41		238	254	354	273	1.8	9.9	1.5	10.9
200N 200W	85	19		180	113	111	117	2.1	12.2	1.8	13.3
210N 200W	100	14		153	137	138	163	1.6	13.5	1.3	14.3
220N 200W	141	32		154	197	168	158	1.4	17.3	3.0	19.3
230N 200W	147	39		181	137	178	204	1.4	17.9	3.6	20.3
240N 200W	172	43		189	190	173	189	1.1	20.2	4.0	22.8
250N 200W	121	41		240	189	162	156	2.0	16.6	7.3	21.5
260N 200W	120	22		182	165	148	145	1.5	16.5	3.9	19.1
270N 200W	135	38		162	164	164	163	1.2	19.1	6.7	23.6
280N 200W	119	31		170	162	178	171	1.5	16.2	5.5	19.9
290N 200W	100	33		179	166	162	108	1.8	12.9	6.0	16.9
300N 200W	134	33		149	161	194	216	1.6	13.2	2.5	14.9
310N 200W	139	27		159	130	149	152	1.1	13.5	2.0	14.9
320N 200W	117	13		151	175	144	151	1.5	11.9	1.0	12.5
330N 200W	102	20		135	158	171	146	1.7	10.7	1.5	11.7
340N 200W	85	17		103	123	128	127	1.5	9.4	1.3	10.3
350N 200W	50	13	x	180	77	78	83	3.6	9.2	0.7	9.7
360N 200W	56	7		67	74	79	90	1.6	9.5	0.7	9.9
370N 200W	57	11		80	88	58	91	1.6	9.5	1.0	10.2
380N 200W	55	8		76	83	65	97	1.8	9.4	0.7	9.9
390N 200W	48	13		71	78	63	83	1.7	8.7	1.2	9.6
400N 200W	48	14		120	104	82	85	2.5	8.7	1.3	9.6

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
410N 200W	61	13		81	83	75	104	1.7	9.9	1.2	10.7
420N 200W	53	8		97	68	72	89	1.8	9.2	0.7	9.7
430N 200W	55	13		92	76	86	55	1.7	9.4	1.2	10.1
440N 200W	59	11		91	86	97	84	1.7	9.7	1.0	10.3
510N 200W	57	12	e						9.2	1.9	10.5
50N 190W	44	8		83	79	81	82	1.9	8.4	0.8	8.9
60N 190W	49	9		76	93	75	72	1.9	8.8	0.8	9.3
70N 190W	43	7		72	75	92	71	2.1	8.3	0.7	8.7
80N 190W	48	11		74	70	71	86	1.8	8.7	1.0	9.4
90N 190W	42	8		77	66	78	78	1.9	8.1	0.7	8.6
100N 190W	50	7	q						3.9	1.3	4.8
110N 190W	46	8	q						3.3	1.4	4.3
120N 190W	52	7	q						4.4	1.3	5.2
130N 190W	51	11	q						4.1	1.9	5.4
140N 190W	56	8	q						5.1	1.5	6.1
150N 190W	54	9		116	78	78	89	2.1	9.2	0.8	9.8
160N 190W	49	11		87	81	87	89	1.8	8.8	1.0	9.5
170N 190W	58	7		85	79	91	95	1.6	9.6	0.6	10.0
180N 190W	65	15		89	90	116	111	1.8	10.3	1.4	11.2
190N 190W	81	27		120	130	136	150	1.9	11.7	2.5	13.4
200N 190W	162	26		200	230	198	272	1.7	15.3	2.0	16.6
210N 190W	189	57		264	286	267	232	1.5	17.3	4.3	20.2
220N 190W	198	44		261	274	334	261	1.7	18.0	3.3	20.2
230N 190W	178	69		301	340	273	320	1.9	16.5	5.2	20.0
240N 190W	236	44		343	273	312	277	1.5	20.9	3.3	23.1
250N 190W	118	32		120	126	116	113	1.1	15.1	3.0	17.3
260N 190W	109	34		109	121	137	126	1.3	14.3	3.2	16.5
270N 190W	102	18		117	120	88	150	1.5	13.7	1.6	14.8
280N 190W	119	26		104	108	99	117	1.0	15.3	2.4	16.9
290N 190W	103	34		111	106	88	86	1.1	13.8	3.1	16.1
300N 190W	101	22		238	122	131	96	2.4	13.1	3.9	15.8
310N 190W	90	29		150	195	128	128	2.2	11.1	5.1	14.6
320N 190W	91	21		135	116	102	121	1.5	11.3	3.7	13.8
330N 190W	79	5		118	107	109	114	1.5	9.2	0.8	9.7
340N 190W	68	15		111	91	102	105	1.6	7.1	2.7	9.0
350N 190W	91	18		134	139	127	112	1.5	8.6	1.2	9.4
360N 190W	97	12		128	140	129	133	1.4	9.0	0.8	9.5
370N 190W	95	11		160	117	123	154	1.7	8.8	0.7	9.3
380N 190W	86	18		129	119	148	165	1.9	8.3	1.2	9.0
390N 190W	83	18		131	141	158	141	1.9	8.1	1.1	8.9
400N 190W	66	6		85	96	93	101	1.5	6.8	1.1	7.6
410N 190W	66	14		87	108	104	93	1.6	6.9	2.4	8.5
420N 190W	68	10		85	88	84	96	1.4	7.3	1.8	8.5
430N 190W	65	7		104	96	81	107	1.6	6.7	1.2	7.5

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
440N 190W	68	12		92	102	85	104	1.5	7.1	2.1	8.6
50N 180W	41	8		87	70	62	64	2.1	8.1	0.8	8.6
60N 180W	46	7		63	88	68	72	1.9	8.5	0.6	9.0
70N 180W	40	7		62	84	80	81	2.1	7.9	0.7	8.4
80N 180W	39	7		78	80	63	88	2.3	7.8	0.6	8.3
90N 180W	44	11		68	82	81	77	1.9	8.3	1.0	9.0
100N 180W	53	7	q						4.6	1.3	5.5
110N 180W	54	11	q						4.8	1.9	6.1
120N 180W	50	10	q						4.1	1.7	5.2
130N 180W	48	7	q						3.7	1.3	4.5
140N 180W	51	7	q						4.2	1.2	5.1
150N 180W	52	9	x	174	71	91	99	3.3	9.1	0.8	9.6
160N 180W	61	14		76	89	108	84	1.8	9.9	1.3	10.8
170N 180W	74	15		114	73	107	114	1.6	11.1	1.4	12.0
180N 180W	80	22		117	130	136	131	1.7	11.7	2.1	13.1
190N 180W	105	42		148	167	171	167	1.6	14.0	3.9	16.6
200N 180W	197	29		284	255	237	264	1.4	17.9	2.2	19.4
210N 180W	196	43		274	253	217	172	1.4	17.9	3.3	20.0
220N 180W	217	33		225	332	267	286	1.5	19.4	2.5	21.1
230N 180W	214	81		276	271	270	210	1.3	19.2	6.1	23.3
240N 180W	175	35		225	298	244	327	1.9	16.3	2.6	18.0
250N 180W	91	26		93	108	114	82	1.2	12.7	2.4	14.3
260N 180W	100	21		94	109	108	82	1.1	13.5	2.0	14.8
270N 180W	91	28	q						12.6	2.5	14.3
280N 180W	86	34		93	101	115	94	1.3	12.3	3.1	14.4
290N 180W	98	12		103	114	114	74	1.2	13.4	1.1	14.1
300N 180W	92	16		136	138	133	142	1.5	11.4	2.9	13.4
310N 180W	81	20		138	108	140	127	1.7	9.6	3.6	12.0
320N 180W	79	12		112	124	116	109	1.6	9.2	2.1	10.6
330N 180W	73	11		116	114	108	108	1.6	8.1	2.0	9.4
340N 180W	67	8		102	106	108	119	1.8	7.0	1.4	7.9
350N 180W	74	17		121	128	107	153	2.1	7.5	1.1	8.2
360N 180W	69	19		127	127	112	144	2.1	7.2	1.2	8.0
370N 180W	91	14		120	161	139	129	1.8	8.6	0.9	9.3
380N 180W	91	13		128	134	139	150	1.7	8.6	0.8	9.1
390N 180W	89	8		131	134	116	134	1.5	8.5	0.5	8.8
400N 180W	60	9		119	103	96	90	2.0	5.8	1.7	6.9
410N 180W	60	10		90	92	78	93	1.6	5.7	1.7	6.9
420N 180W	67	11		105	100	93	93	1.6	7.0	1.9	8.3
430N 180W	66	10		91	79	109	87	1.7	6.8	1.9	8.1
440N 180W	70	9		100	88	82	94	1.4	7.5	1.7	8.6
50N 170W	37	12		61	61	60	60	1.6	7.7	1.1	8.4
60N 170W	51	6		76	76	91	96	1.9	9.0	0.6	9.4
70N 170W	43	11		88	96	73	88	2.3	8.2	1.0	8.9

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
80N 170W	43	6		72	88	88	78	2.0	8.3	0.6	8.6
90N 170W	40	5		53	81	74	62	2.0	7.9	0.5	8.2
100N 170W	48	9	q						3.7	1.5	4.7
110N 170W	57	12	q						5.2	2.1	6.6
120N 170W	54	8	q						4.7	1.4	5.7
130N 170W	51	12	q						4.2	2.2	5.7
140N 170W	53	9	q						4.6	1.7	5.7
150N 170W	58	18	x	210	73	91	127	3.6	9.7	1.6	10.8
160N 170W	70	12		132	86	110	107	1.9	10.7	1.1	11.5
170N 170W	84	19		102	98	100	107	1.3	12.0	1.8	13.2
180N 170W	108	34		161	172	226	166	2.1	14.3	3.1	16.4
190N 170W	126	48		224	194	190	167	1.8	15.9	4.4	18.9
200N 170W	189	42		245	264	317	242	1.7	17.3	3.2	19.5
210N 170W	193	76		213	313	266	358	1.9	17.6	5.8	21.5
220N 170W	246	53		339	313	256	250	1.4	21.7	4.0	24.3
230N 170W	197	27		251	217	212	256	1.3	17.9	2.1	19.3
240N 170W	158	27		208	196	230	253	1.6	15.0	2.1	16.4
250N 170W	92	22		132	157	140	142	1.7	12.7	2.0	14.1
260N 170W	104	18		139	129	135	118	1.3	13.9	1.7	15.0
270N 170W	84	11		86	108	89	103	1.3	12.1	1.0	12.7
280N 170W	83	16		87	69	97	88	1.2	11.9	1.5	12.9
290N 170W	75	22		98	95	98	75	1.3	11.2	2.0	12.5
300N 170W	89	18		135	128	123	81	1.5	10.9	3.2	13.1
310N 170W	65	10		71	101	97	125	1.9	6.6	1.9	7.9
320N 170W	75	15		119	126	118	111	1.7	8.4	2.7	10.2
330N 170W	69	9		108	120	106	104	1.7	7.4	1.6	8.5
340N 170W	70	8		111	98	98	113	1.6	7.5	1.3	8.4
350N 170W	85	10		129	113	120	134	1.6	8.2	0.7	8.6
360N 170W	82	18		143	131	124	105	1.7	8.0	1.2	8.8
370N 170W	77	12		97	122	119	119	1.6	7.7	0.8	8.2
380N 170W	85	11		126	142	124	117	1.7	8.2	0.7	8.7
390N 170W	84	10		123	114	123	126	1.5	8.1	0.7	8.6
400N 170W	66	13		97	88	114	99	1.7	6.9	2.4	8.5
410N 170W	68	7		102	90	106	114	1.7	7.2	1.3	8.0
420N 170W	72	4		95	76	109	90	1.5	8.0	0.7	8.5
430N 170W	62	7		91	89	74	80	1.5	6.1	1.3	7.0
440N 170W	62	13		94	89	76	100	1.6	6.2	2.3	7.7
100S 160W	67	13		120	133	76	85	2.0	7.1	2.2	8.6
90S 160W	53	11		81	92	85	94	1.5	6.4	1.9	7.7
80S 160W	62	8		89	120	98	80	1.9	6.0	1.6	7.1
70S 160W	71	9		98	96	86	91	1.4	7.7	1.6	8.7
60S 160W	66	11		95	89	99	118	1.8	6.9	1.9	8.2
50S 160W	57	3		96	77	87	84	1.7	4.8	0.2	4.9
40S 160W	56	6		81	79	88	75	1.6	4.7	0.6	5.1

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 98th
30S 160W	53	9		75	93	91	78	1.7	4.4	0.8	5.0
20S 160W	59	8		97	100	91	90	1.7	5.0	0.8	5.5
10S 160W	49	6		61	67	77	103	2.1	4.1	0.6	4.4
0S 160W	61	4		101	103	101	99	1.7	5.1	0.4	5.4
10N 160W	51	12		91	86	70	89	1.8	4.2	1.1	5.0
20N 160W	45	6		78	80	84	97	2.1	3.7	0.6	4.1
30N 160W	66	11		95	94	92	81	1.4	5.6	1.0	6.3
40N 160W	55	10		108	87	104	104	2.0	4.6	0.9	5.2
50N 160W	45	8		91	75	65	75	2.0	8.4	0.7	8.9
60N 160W	48	8		96	96	106	77	2.2	8.7	0.7	9.2
70N 160W	52	7		76	86	100	77	1.9	9.1	0.7	9.5
80N 160W	44	11		75	71	79	83	1.9	8.3	1.0	9.0
90N 160W	44	6		74	61	87	89	2.0	8.4	0.5	8.7
100N 160W	50	11	q						4.0	2.0	5.3
110N 160W	52	9	q						4.3	1.6	5.3
120N 160W	50	5	q						3.9	0.9	4.6
130N 160W	50	9	q						4.0	1.7	5.1
140N 160W	55	11	q						4.9	2.0	6.3
150N 160W	62	19		159	94	105	100	2.6	10.0	1.8	11.2
160N 160W	87	15		154	127	134	113	1.8	12.3	1.3	13.2
170N 160W	100	31		136	133	143	142	1.4	13.5	2.8	15.4
180N 160W	160	56		163	197	205	257	1.6	19.0	5.1	22.5
190N 160W	163	20		239	206	219	207	1.5	19.3	1.9	20.6
200N 160W	241	58		272	347	276	264	1.4	21.3	4.4	24.2
210N 160W	195	35		280	264	223	252	1.4	17.8	2.6	19.6
220N 160W	184	53		293	273	309	236	1.7	17.0	4.0	19.6
230N 160W	175	31		225	274	226	217	1.6	16.3	2.3	17.8
240N 160W	150	23		213	219	206	187	1.5	14.4	1.8	15.6
250N 160W	94	36		172	143	109	116	1.8	12.9	3.3	15.3
260N 160W	85	9		125	134	119	100	1.6	12.2	0.8	12.7
270N 160W	77	12		99	126	104	142	1.9	11.4	1.1	12.1
280N 160W	68	12		107	96	96	91	1.6	10.5	1.1	11.2
290N 160W	68	7		144	118	104	91	2.1	10.6	0.7	11.0
300N 160W	76	11		180	115	96	109	2.4	8.6	1.9	9.9
310N 160W	73	11		111	84	103	102	1.5	8.1	2.0	9.5
320N 160W	77	12		129	99	96	111	1.7	8.8	2.1	10.1
330N 160W	73	18		122	111	106	116	1.7	8.1	3.1	10.2
340N 160W	71	5		117	102	92	115	1.6	7.8	0.9	8.4
350N 160W	87	12		132	117	125	143	1.6	8.4	0.7	8.9
360N 160W	78	15		132	105	109	112	1.7	7.7	1.0	8.4
370N 160W	83	21		133	129	113	123	1.6	8.1	1.4	9.0
380N 160W	68	15		120	144	98	116	2.1	7.1	0.9	7.8
390N 160W	86	15		124	128	139	107	1.6	8.3	1.0	8.9
400N 160W	64	7		123	94	115	108	1.9	6.5	1.3	7.4

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
410N 160W	64	12		107	93	98	92	1.7	6.5	2.2	8.0
420N 160W	66	8		108	104	93	94	1.6	6.8	1.5	7.8
430N 160W	62	11		119	94	97	110	1.9	6.2	1.9	7.4
440N 160W	65	8		91	82	78	72	1.4	6.7	1.5	7.7
80S 150W	62	14		120	94	112	89	1.9	6.1	2.4	7.8
70S 150W	65	7		90	107	89	95	1.6	6.7	1.2	7.5
60S 150W	58	10		92	126	104	89	2.2	5.4	1.9	6.7
50S 150W	57	10		104	102	95	103	1.8	4.8	0.9	5.4
40S 150W	58	7		86	78	107	106	1.9	4.8	0.7	5.3
30S 150W	50	7		90	89	81	107	2.1	4.2	0.7	4.6
20S 150W	57	10		96	98	81	70	1.7	4.7	0.9	5.3
10S 150W	54	10	x	420	62	74	95	7.7	4.5	0.9	5.2
0S 150W	59	8		99	94	80	97	1.7	4.9	0.8	5.4
10N 150W	58	8		97	91	107	105	1.9	4.8	0.7	5.3
20N 150W	50	13		93	97	83	80	1.9	4.1	1.2	4.9
30N 150W	61	8		96	97	90	105	1.7	5.1	0.7	5.6
40N 150W	53	13		78	84	86	86	1.6	4.4	1.2	5.2
50N 150W	55	11		96	76	72	92	1.7	9.3	1.0	10.0
60N 150W	54	5		91	104	82	126	2.3	9.2	0.5	9.6
70N 150W	54	7		100	73	85	94	1.9	9.2	0.6	9.7
80N 150W	45	9		88	92	75	102	2.3	8.4	0.9	9.0
90N 150W	45	4		78	60	69	91	2.0	8.5	0.4	8.7
100N 150W	51	7	q						4.2	1.2	5.1
110N 150W	56	10	q						5.1	1.7	6.3
120N 150W	51	8	q						4.3	1.4	5.2
130N 150W	53	7	q						4.5	1.3	5.4
140N 150W	57	10	q						5.2	1.8	6.3
150N 150W	59	21	x	183	106	106	113	3.1	9.7	1.9	11.0
160N 150W	80	20		141	118	132	164	2.1	11.6	1.9	12.9
170N 150W	135	36		138	167	197	182	1.5	16.7	3.3	18.9
180N 150W	139	43		207	196	221	176	1.5	17.2	4.0	19.8
190N 150W	128	40		158	198	203	215	1.7	16.1	3.7	18.6
200N 150W	212	30		301	247	273	271	1.4	19.1	2.3	20.6
210N 150W	159	49		259	255	268	259	1.7	15.1	3.7	17.6
220N 150W	186	24		291	244	200	276	1.6	17.1	1.8	18.3
230N 150W	158	56		198	205	219	177	1.4	15.0	4.2	17.8
240N 150W	147	18		207	156	173	209	1.4	14.2	1.3	15.0
250N 150W	75	10		132	118	106	127	1.8	11.2	0.9	11.8
260N 150W	71	15		105	108	93	118	1.7	10.8	1.4	11.8
270N 150W	71	17		117	111	86	95	1.6	10.8	1.6	11.9
280N 150W	63	7		93	112	95	73	1.8	10.1	0.7	10.5
290N 150W	64	21		86	84	99	92	1.6	10.1	1.9	11.4
300N 150W	75	10		162	91	110	127	2.2	8.5	1.8	9.7
310N 150W	75	10		110	136	104	89	1.8	6.6	2.0	7.9

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
320N 150W	65	6		88	101	108	91	1.7	6.7	1.0	7.4
330N 150W	68	14		119	105	97	109	1.8	7.1	2.5	8.8
340N 150W	59	8		100	94	95	92	1.7	5.7	1.4	6.6
350N 150W	83	15			118	100	115	1.4	8.1	1.0	8.7
360N 150W	78	14		110	117	240	94	3.1	7.8	0.9	8.3
370N 150W	92	19		115	120	133	121	1.4	8.7	1.3	9.5
380N 150W	91	12		148	137	132	133	1.6	8.6	0.8	9.1
390N 150W	77	21		115	95	118	108	1.5	7.7	1.3	8.6
400N 150W	64	7		97	93	99	118	1.8	6.5	1.3	7.4
410N 150W	66	11		113	101	79	97	1.7	6.9	1.9	8.2
420N 150W	62	6		100	98	118	88	1.9	6.2	1.0	6.9
430N 150W	67	7		89	83	89	106	1.6	7.1	1.2	7.9
440N 150W	57	9		88	110	89	88	1.9	5.3	1.6	6.4
80S 140W	61	5		91	115	112	93	1.9	5.9	1.0	6.6
80S 140W	63	9		97	126	110	88	2.0	6.4	1.6	7.4
70S 140W	64	8		99	116	121	78	1.9	6.5	1.4	7.4
60S 140W	64	17		85	99	94	100	1.6	6.5	3.0	8.5
50S 140W	53	11		91	93	77	103	2.0	4.4	1.0	5.1
40S 140W	63	9		83	100	91	87	1.6	5.3	0.8	5.8
30S 140W	53	7		81	99	98	80	1.9	4.4	0.6	4.9
20S 140W	58	10		73	92	84	78	1.6	4.9	0.9	5.5
10S 140W	53	8			78	72	97	1.8	4.4	0.7	4.9
0S 140W	64	13			108	102	119	1.9	5.4	1.2	6.2
10N 140W	61	10		122	101	118	103	2.0	5.2	0.9	5.8
20N 140W	56	14		102	69	87	97	1.8	4.7	1.3	5.6
30N 140W	58	12		95	90	93	86	1.6	4.9	1.1	5.6
40N 140W	64	10		95	100	105	107	1.7	5.4	0.9	6.0
50N 140W	90	73	x	131	94	625	102	7.0	7.7	6.6	12.2
60N 140W	65	6	x	95	215	198	104	3.3	5.5	0.6	5.8
70N 140W	92	45		103	98	94	117	1.3	8.0	4.1	10.7
80N 140W	56	8		88	86	78	73	1.6	4.7	0.8	5.2
90N 140W	51	12		93	90	72	76	1.8	4.2	1.1	5.0
100N 140W	60	8		64	94	90	79	1.6	5.8	1.4	6.8
110N 140W	53	9		91	90	100	92	1.9	4.5	1.7	5.6
120N 140W	60	13		102	103	86	91	1.7	5.8	2.3	7.3
130N 140W	62	14		121	80	108	103	2.0	6.1	2.6	7.8
140N 140W	61	9		119	80	85	103	1.9	6.0	1.7	7.1
150N 140W	44	10	x	199	81	99	106	4.5	6.5	0.7	7.0
160N 140W	71	17		139	190	169	156	2.7	8.6	1.3	9.5
170N 140W	131	20		155	180	204	224	1.7	13.1	1.6	14.2
180N 140W	106	16		181	162	164	133	1.7	11.3	1.2	12.1
190N 140W	113	31		166	134	168	162	1.5	11.8	2.4	13.4
200N 140W	134	25		195	183	210	192	1.6	18.9	4.5	21.9
210N 140W	127	18		163	167	187	210	1.7	17.7	3.3	19.9

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
220N 140W	128	18		146	176	161	170	1.4	17.9	3.2	20.0
230N 140W	106	27		163	170	165	147	1.6	14.0	4.8	17.2
240N 140W	93	9		117	163	133	143	1.8	11.7	1.5	12.7
250N 140W	103	17		174	154	167	160	1.7	10.8	1.3	11.6
260N 140W	96	14		240	164	159	147	2.5	10.3	1.0	11.0
270N 140W	91	17		149	129	121	144	1.6	9.9	1.3	10.8
280N 140W	95	15		119	158	126	140	1.7	10.2	1.1	11.0
290N 140W	71	19		124	130	125	121	1.8	8.4	1.5	9.4
300N 140W	43	12	y	135	127	115	123		8.2	1.1	8.9
310N 140W	37	7	y	118	160	133	175		7.7	0.7	8.1
320N 140W	47	10	y	152	147	140	152		8.6	0.9	9.2
330N 140W	41	7	y	115	141	166	133		8.0	0.6	8.5
340N 140W	45	10	y	123	156	151	138		8.4	0.9	9.0
350N 140W	68	9		137	117	92	102	2.0	8.2	0.7	8.7
360N 140W	89	8		108	105	102	108	1.6	8.3	0.6	8.7
370N 140W	82	17		109	114	105	104	1.4	9.3	1.3	10.1
380N 140W	73	10		119	97	89	108	1.6	8.5	0.7	9.0
390N 140W	69	10		116	103	97	121	1.7	8.3	0.7	8.8
400N 140W	63	13		101	106	116	113	1.8	6.3	2.4	7.9
410N 140W	72	7		104	112	139	124	1.9	7.9	1.2	8.6
420N 140W	67	7		103	104	111	102	1.6	7.0	1.2	7.8
430N 140W	69	9		93	92	91	98	1.7	5.6	1.7	6.7
440N 140W	60	6		104	112	88	87	1.9	5.9	1.0	6.6
90S 130W	73	15		120	113	103	101	1.7	8.0	2.7	9.9
80S 130W	76	13		93	94	115	99	1.5	8.5	2.4	10.1
70S 130W	57	12		104	89	103	94	1.8	5.2	2.1	6.6
60S 130W	60	5		113	108	104	97	1.9	5.8	1.0	6.5
50S 130W	58	8		106	95	98	88	1.8	4.8	0.7	5.3
40S 130W	59	5		89	100	79	81	1.7	5.0	0.4	5.2
30S 130W	50	11		87	84	104	94	2.1	4.1	1.0	4.8
20S 130W	56	5		99	97	104	63	1.9	4.7	0.4	4.9
10S 130W	45	8	b						3.7	0.7	4.2
0S 130W	66	8		120	94	107	135	2.0	6.8	1.5	7.8
10N 130W	71	11		99	96	106	100	1.5	7.7	2.0	9.1
20N 130W	60	10		111	78	77	92	1.8	5.8	1.7	6.9
30N 130W	59	8		88	80	105	85	1.8	5.7	1.4	6.6
40N 130W	60	13		93	113	96	97	1.9	5.8	2.3	7.3
50N 130W	62	11	q						5.3	1.0	5.9
60N 130W	67	8	q						5.7	0.7	6.1
70N 130W	57	8	y	277	135	151	342		4.8	0.7	5.2
80N 130W	66	11	q						4.7	1.0	5.4
90N 130W	53	6		94	90	141	150	2.8	4.4	0.6	4.8
100N 130W	63	22		89	81	96	73	1.5	6.3	3.8	8.7
110N 130W	63	12		97	107	107	76	1.7	6.4	2.1	7.8

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
120N 130W	74	15		102	105	105	134	1.8	8.3	2.6	10.1
130N 130W	75	16		134	111	81	112	1.8	8.5	2.9	10.4
140N 130W	59	11		152	100	102	118	2.2	7.3	2.0	8.7
150N 130W	61	13		166	155	143	141	2.7	7.8	1.0	8.5
160N 130W	74	18		177	175	209	191	2.8	8.8	1.3	9.7
170N 130W	105	32		175	186	153	165	1.8	11.2	2.4	12.8
180N 130W	92	21		167	144	175	177	1.9	10.2	1.6	11.3
190N 130W	104	17		141	157	165	133	1.6	11.1	1.3	11.9
200N 130W	157	33		188	236	214	232	1.5	23.0	5.8	26.9
210N 130W	148	38		191	226	180	134	1.5	21.5	6.8	26.1
220N 130W	108	16		171	242	175	180	2.2	14.4	2.8	16.3
230N 130W	100	24		173	170	148	139	1.7	12.9	4.2	15.7
240N 130W	90	12		137	129	113	136	1.5	11.2	2.2	12.7
250N 130W	104	11		142	129	134	137	1.4	10.9	0.8	11.5
260N 130W	82	9		121	123	115	160	2.0	9.2	0.7	9.7
270N 130W	89	16		162	137	118	139	1.8	9.8	1.2	10.6
280N 130W	75	14		130	145	121	130	1.9	8.7	1.0	9.4
290N 130W	83	9		123	135	143	120	1.7	9.3	0.7	9.8
300N 130W	46	4	y	127	133	165	141		8.5	0.4	8.8
310N 130W	39	10	y	146	130	129	101		7.9	0.9	8.5
320N 130W	38	9	y	114	137	148	154		7.8	0.8	8.3
330N 130W	43	8	y	132	139	134	144		8.3	0.8	8.8
340N 130W	38	7	y	168	119	113	112		7.8	0.7	8.3
350N 130W	76	13		103	129	110	106	1.7	8.8	1.0	9.5
360N 130W	72	10		107	111	103	113	1.6	8.5	0.8	9.0
370N 130W	69	13		103	105	106	80	1.5	8.2	1.0	8.9
380N 130W	73	12		110	95	111	106	1.5	8.6	0.9	9.1
390N 130W	75	13		102	104	98	113	1.5	8.7	0.9	9.4
400N 130W	65	8		126	106	89	101	1.9	6.6	1.5	7.6
410N 130W	57	13		122	96	108	106	2.1	5.3	2.3	6.9
420N 130W	69	8		107	99	108	96	1.6	7.3	1.4	8.2
430N 130W	59	12		123	111	99	75	2.1	5.6	2.2	7.0
440N 130W	55	8		121	110	109	116	2.2	4.9	1.5	5.8
90S 120W	63	10		105	102	100	91	1.7	5.3	0.9	5.9
80S 120W	62	6		91	105	113	86	1.8	5.2	0.6	5.6
70S 120W	57	11		100	120	103	92	2.1	4.8	1.0	5.5
60S 120W	52	11		114	91	96	83	2.2	4.3	1.0	5.0
50S 120W	64	7		198	99	119	89	3.1	5.4	0.6	5.9
40S 120W	62	6		96	88	86	85	1.5	5.2	0.6	5.6
30S 120W	69	7		114	106	94	100	1.6	5.9	0.7	6.3
20S 120W	56	14	b						4.7	1.2	5.5
10S 120W	50	10	b						4.2	0.9	4.7
0S 120W	72	13		180	102	105	132	2.5	7.9	2.4	9.4
10N 120W	65	9		96	94	78	81	1.5	6.7	1.6	7.8

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
20N 120W	60	9		92	90	103	106	1.8	5.8	1.6	6.9
30N 120W	57	6		81	79	92	88	1.6	5.2	1.0	5.9
40N 120W	57	14		98	111	98	94	1.9	5.3	2.5	7.0
50N 120W	56	14		91	95	101	96	1.8	4.7	1.3	5.5
60N 120W	62	5		79	98	102	91	1.6	5.2	0.4	5.5
70N 120W	64	11		107	90	107	93	1.7	5.4	1.0	6.1
80N 120W	68	13		105	132	106	88	1.9	5.7	1.2	6.5
90N 120W	61	5		90	80	100	91	1.6	5.2	0.5	5.5
100N 120W	73	29		111	108	112	86	1.5	8.1	5.2	11.4
110N 120W	73	9		152	105	108	89	2.1	8.0	1.6	9.1
120N 120W	82	24		149	159	104	135	1.9	9.6	4.3	12.5
130N 120W	111	39		154	155	134	120	1.4	14.8	6.9	19.4
140N 120W	82	26		194	159	137	160	2.4	9.6	4.6	12.7
150N 120W	82	11		137	161	147	181	2.2	9.4	0.8	10.0
160N 120W	80	15		212	230	164	188	2.9	9.3	1.2	10.0
170N 120W	80	18		165	123	123	123	2.0	9.3	1.4	10.2
180N 120W	66	20		134	151	120	139	2.3	8.2	1.5	9.2
190N 120W	82	22		181	170	123	163	2.2	9.5	1.7	10.6
200N 120W	128	20		170	178	155	177	1.4	17.9	3.6	20.3
210N 120W	116	18		188	175	148	154	1.6	15.8	3.3	18.0
220N 120W	100	26		118	154	170	176	1.8	12.8	4.7	16.0
230N 120W	101	12		149	136	109	143	1.5	13.0	2.2	14.5
240N 120W	91	20		143	129	118	107	1.6	11.3	3.5	13.7
250N 120W	78	23	q						8.9	1.7	10.1
260N 120W	77	10	q						8.8	0.8	9.4
270N 120W	87	6		128	131	108	127	1.5	9.6	0.5	9.9
280N 120W	85	10		134	145	110	172	2.0	9.5	0.8	10.0
290N 120W	80	13		131	124	126	100	1.6	9.1	1.0	9.7
300N 120W	42	10	y	136	148	145	169		8.2	1.0	8.8
310N 120W	50	11	y	123	149	126	154		8.9	1.0	9.6
320N 120W	43	6	y	124	145	185	135		8.2	0.6	8.6
330N 120W	37	8	y	134	144	157	140		7.7	0.7	8.2
340N 120W	36	10	y	126	117	137	138		7.6	0.9	8.2
350N 120W	68	13		89	143	132	103	2.1	8.2	1.0	8.8
360N 120W	64	14		101	95	103	114	1.8	7.8	1.0	8.5
370N 120W	71	12		110	100	117	116	1.7	8.4	0.9	9.0
380N 120W	78	15		103	94	118	95	1.5	8.9	1.2	9.7
390N 120W	77	15		100	103	121	109	1.6	8.8	1.1	9.6
400N 120W	60	8		104	95	102	105	1.7	5.8	1.4	6.8
410N 120W	65	9		91	89	88	77	1.4	6.7	1.6	7.8
420N 120W	68	3		94	104	83	85	1.8	5.4	0.5	5.8
430N 120W	61	10		80	85	92	69	1.5	5.9	1.8	7.1
440N 120W	64	7		107	85	86	97	1.7	6.6	1.3	7.5
100S 110W	70	8		180	99	95	103	2.6	6.0	0.7	6.5

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
90S 110W	71	9		113	101	99	108	1.6	6.1	0.8	6.6
80S 110W	64	7		96	119	114	93	1.9	5.4	0.7	5.8
70S 110W	59	13		84	96	92	87	1.6	5.0	1.2	5.8
60S 110W	61	15		101	84	87	166	2.7	5.1	1.4	6.0
50S 110W	58	7		88	96	75	89	1.7	4.8	0.6	5.2
40S 110W	53	9	b						4.5	0.8	5.0
30S 110W	58	11	b						4.8	1.0	5.5
20S 110W	59	10	b						5.0	0.9	5.5
10S 110W	53	10	b						4.4	0.9	5.0
0S 110W	70	16		106	103	108	108	1.6	7.5	2.8	9.4
10N 110W	71	6		115	96	104	108	1.6	7.7	1.0	8.4
20N 110W	65	10		103	109	87	112	1.7	6.6	1.8	7.9
30N 110W	67	10		93	103	86	96	1.5	7.0	1.7	8.2
40N 110W	65	15		116	134	98	108	2.0	6.7	2.6	8.5
50N 110W	73	11		180	87	92	100	2.5	6.2	1.0	6.9
60N 110W	72	15		121	109	91	94	1.7	6.2	1.3	7.1
70N 110W	67	5		112	105	92	95	1.7	5.7	0.5	6.0
80N 110W	69	8		113	146	99	92	2.1	5.9	0.6	6.3
90N 110W	75	14		132	110	103	118	1.8	6.4	1.2	7.2
100N 110W	74	17		172	141	133	125	2.3	8.3	3.0	10.5
110N 110W	105	24		161	163	144	118	1.6	13.7	4.3	16.6
120N 110W	106	21		162	178	160	152	1.7	14.0	3.7	16.4
130N 110W	131	21		172	169	122	178	1.4	16.5	3.8	21.0
140N 110W	112	40		165	186	201	185	1.8	15.1	7.1	19.9
150N 110W	77	24		147	159	155	146	2.1	9.1	1.9	10.3
160N 110W	65	11		166	161	151	189	2.9	8.2	0.8	8.7
170N 110W	63	6		135	159	153	131	2.5	8.0	0.4	8.3
180N 110W	73	18		145	162	167	131	2.3	8.7	1.3	9.6
190N 110W	61	17		143	131	121	94	2.3	7.9	1.3	8.7
200N 110W	98	16		168	179	163	141	1.8	12.6	2.9	14.5
210N 110W	95	9		135	168	172	140	1.8	12.1	1.7	13.2
220N 110W	84	14		139	164	111	128	1.7	11.8	2.4	13.4
230N 110W	88	17		131	135	134	125	1.5	10.8	3.0	12.8
240N 110W	81	21		122	116	126	119	1.5	9.6	3.8	12.1
250N 110W	92	22		141	139	124	122	1.5	10.0	1.7	11.1
260N 110W	91	15		136	153	131	154	1.7	9.9	1.1	10.7
270N 110W	83	14		125	115	104	140	1.7	9.3	1.0	10.0
280N 110W	76	11		131	133	133	116	1.8	8.8	0.8	9.3
290N 110W	88	17		147	110	58	46	1.7	9.7	1.3	10.5
300N 110W	41	10	y	142	152	138	139		8.0	0.9	8.6
310N 110W	39	8	y	126	132	143	121		7.9	0.7	8.4
320N 110W	38	5	y	138	155	141	139		7.8	0.5	8.1
330N 110W	36	8	y	150	121	128	116		7.5	0.5	7.9
340N 110W	38	11	y	132	132	129	131		7.8	1.0	8.4

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
350N 110W	60	7		120	101	94	102	2.0	7.6	0.5	7.9
360N 110W	66	9		99	106	93	105	1.6	8.0	0.7	8.5
370N 110W	71	10		111	89	105	119	1.7	8.4	0.8	9.0
380N 110W	71	6		105	121	106	112	1.7	8.4	0.5	8.7
390N 110W	71	10		113	104	123	117	1.7	8.4	0.8	8.9
400N 110W	60	7		159	96	94	94	2.7	5.7	1.2	6.6
410N 110W	58	12		76	76	87	81	1.5	5.4	2.1	6.8
420N 110W	59	4		79	101	65	83	1.7	5.7	0.7	6.1
430N 110W	66	9		90	74	106	100	1.6	6.9	1.5	7.9
440N 110W	64	10		106	97	98	89	1.7	6.5	1.8	7.7
100S 100W	69	17		91	115	102	127	1.8	5.8	1.6	6.9
90S 100W	62	8		104	106	114	116	1.9	5.2	0.7	5.7
80S 100W	63	5		112	110	109	103	1.8	5.3	0.4	5.6
70S 100W	58	3		93	95	99	86	1.7	4.9	0.3	5.1
60S 100W	47	9	b						3.9	0.8	4.4
40S 100W	51	10	b						4.2	0.9	4.8
30S 100W	56	9	b						4.7	0.8	5.2
20S 100W	65	9	b						5.5	0.8	6.1
10S 100W	47	7	b						3.9	0.6	4.3
10N 100W	67	11		106	115	97	101	1.7	7.0	2.0	8.4
20N 100W	61	9		108	108	105	106	1.8	6.0	1.6	7.1
30N 100W	56	7		115	98	98	107	2.0	5.1	1.3	6.0
40N 100W	63	7		106	94	98	107	1.7	6.3	1.3	7.2
50N 100W	64	9			115	101	140	2.2	5.4	0.8	5.9
60N 100W	68	13		139	115	83	98	2.0	5.8	1.2	6.6
70N 100W	71	9		120	120	92	98	1.7	6.0	0.8	6.6
80N 100W	75	16		129	114	126	128	1.7	6.4	1.5	7.4
90N 100W	101	27		184	166	168	169	1.8	8.8	2.5	10.5
100N 100W	107	31		154	160	160	149	1.5	14.1	5.6	17.9
110N 100W	126	40		187	165	183	196	1.6	17.5	7.1	22.3
120N 100W	119	25		220	202	171	150	1.8	16.4	4.5	19.4
130N 100W	141	25		158	174	182	200	1.4	20.2	4.5	23.2
140N 100W	126	28		191	197	184	205	1.6	17.5	5.0	20.8
150N 100W	86	18		228	238	211	174	2.8	9.8	1.3	10.7
160N 100W	70	9		190	159	179	164	2.7	8.5	0.7	9.0
170N 100W	68	9	x	203	158	190	169	3.0	8.4	0.7	8.9
180N 100W	57	9		130	141	104	157	2.8	7.5	0.7	8.0
190N 100W	54	7		193	169	121	128	3.6	7.3	0.5	7.7
200N 100W	88	20		127	144	144	135	1.7	10.5	3.5	12.9
210N 100W	83	14		131	135	112	141	1.7	9.8	2.5	11.5
220N 100W	86	12		110	137	147	128	1.7	10.4	2.1	11.8
230N 100W	87	15		141	117	127	115	1.6	10.6	2.7	12.4
240N 100W	67	12		107	140	119	129	2.1	7.0	2.1	8.4
250N 100W	101	18		160	116	91	138	1.6	10.7	1.4	11.6

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
260N 100W	88	8		134	122	162	130	1.8	9.7	0.6	10.1
270N 100W	78	14		125	102	137	125	1.7	9.0	1.1	9.7
280N 100W	73	11		102	115	129	92	1.8	8.6	0.9	9.2
290N 100W	87	13		119	111	123	131	1.5	9.6	1.0	10.3
300N 100W	42	7	y	180	160	154	133		8.2	0.7	8.6
310N 100W	40	9	y	127	159	120	143		7.9	0.9	8.5
320N 100W	44	12	y	129	138	118	157		8.3	1.1	9.0
330N 100W	42	6	y	136	148	150	149		8.2	0.6	8.6
340N 100W	32	7	y	111	113	114	155		7.2	0.6	7.6
350N 100W	69	11		101	119	94	118	1.7	8.2	0.8	8.8
360N 100W	59	16		101	112	82	96	1.9	7.5	1.2	8.3
370N 100W	71	16		88	107	75	101	1.5	8.4	1.2	9.2
380N 100W	67	8		105	97	94	102	1.6	8.1	0.6	8.5
390N 100W	67	8		105	106	104	96	1.6	8.1	0.6	8.5
400N 100W	63	6		86	88	85	80	1.4	6.3	1.1	7.0
410N 100W	67	8		96	111	74	111	1.7	7.0	1.5	7.9
420N 100W	68	14		113	80	92	89	1.7	7.1	2.5	8.8
430N 100W	60	8		106	91	93	103	1.8	5.8	1.4	6.7
440N 100W	57	6		90	72	102	85	1.8	5.3	1.1	6.0
100S 90W	62	9		110	103	104	110	1.8	6.1	1.7	7.2
90S 90W	68	6		116	96	114	94	1.7	7.1	1.0	7.8
80S 90W	57	5		128	116	113	90	2.3	5.2	1.0	5.9
70S 90W	61	7		119	102	102	86	1.9	6.0	1.3	6.8
50S 90W	47	7	b						5.7	0.6	6.1
40S 90W	48	7	b						5.8	0.7	6.2
30S 90W	55	8	b						6.5	0.7	7.0
20S 90W	60	10	b						6.9	0.9	7.6
10S 90W	45	6	b						5.6	0.6	6.0
10N 90W	73	14	b						8.1	2.5	9.8
20N 90W	75	13	b						8.5	2.3	10.0
30N 90W	79	12	b						9.2	2.1	10.6
40N 90W	72	8	b						7.8	1.3	8.7
50N 90W	73	38		180	114	112	95	2.5	6.2	3.5	8.9
60N 90W	50	6	y	104	128	107	88		3.9	1.1	4.7
70N 90W	60	6	y	133	106	124	130		5.8	1.0	6.5
80N 90W	74	15	y	145	232	210	202		8.2	2.6	10.0
90N 90W	92	21	y	235	253	293	236		11.5	3.7	14.0
100N 90W	120	17	q						16.5	3.0	18.5
110N 90W	162	30	q						24.0	5.3	27.6
120N 90W	124	43	q						17.1	7.7	22.3
130N 90W	130	19	q						18.3	3.3	20.5
140N 90W	110	23	q						14.8	4.1	17.5
150N 90W	108	33		139	145	181	176	1.7	14.3	5.8	18.2
160N 90W	121	21		168	143	140	121	1.4	16.7	3.7	19.2

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Interval Count (counts in 30 sec) Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
170N 90W	101	14		120	149	140	142	1.5	13.1	2.4	14.7
180N 90W	94	25		134	115	149	113	1.6	11.8	4.4	14.8
190N 90W	88	20		119	132	99	113	1.5	10.8	3.5	13.2
200N 90W	81	11		129	139	131	98	1.7	9.5	2.0	10.8
210N 90W	76	9		117	123	109	102	1.6	8.5	1.5	9.6
220N 90W	73	9		95	97	96	115	1.6	8.0	1.6	9.1
230N 90W	69	10		110	128	111	95	1.9	7.3	1.9	8.6
240N 90W	59	8		95	107	107	101	1.8	5.6	1.4	6.5
100S 80W	65	13		109	101	106	111	1.7	6.7	2.2	8.2
90S 80W	68	7		111	112	99	101	1.7	7.1	1.3	8.0
80S 80W	64	5		107	116	88	98	1.8	6.4	0.9	7.0
70S 80W	64	11		111	104	93	93	1.7	6.4	2.0	7.8
60S 80W	50	7	b						6.0	0.7	6.4
40S 80W	50	5	b						6.0	0.4	6.2
30S 80W	54	6	b						6.6	0.6	7.0
20S 80W	60	12	b						6.9	1.1	7.7
10S 80W	47	13	b						5.7	1.2	6.5
30N 80W	86	12	b						10.5	2.1	11.9
40N 80W	73	10	b						8.1	1.7	9.2
50N 80W	83	18	q						7.1	1.6	8.2
60N 80W	91	13	q						7.9	1.1	8.6
70N 80W	108	25	q						9.4	2.3	10.9
80N 80W	176	40	q						15.5	3.6	18.0
90N 80W	240	35	q						21.4	3.2	23.5
100N 80W	257	41	q						23.0	3.7	25.4
110N 80W	279	84	q						24.9	7.6	30.0
120N 80W	169	78	q						14.9	7.1	19.6
130N 80W	192	27	q						17.0	2.5	18.7
140N 80W	162	27	q						14.3	2.5	16.0
150N 80W	88	30		161	136	191	149	2.2	10.7	5.3	14.2
160N 80W	101	23		184	150	122	133	1.8	13.1	4.1	15.8
170N 80W	81	10		118	125	132	106	1.6	9.5	1.8	10.8
180N 80W	86	18		109	107	121	95	1.4	10.4	3.2	12.6
190N 80W	92	10		116	100	123	90	1.5	9.7	1.7	10.9
200N 80W	77	14		120	96	114	108	1.6	8.8	2.4	10.4
210N 80W	75	23		100	113	107	112	1.5	8.4	4.1	11.2
220N 80W	70	15		115	112	106	110	1.6	7.6	2.6	9.3
230N 80W	71	18		94	114	106	105	1.6	7.8	3.2	9.9
240N 80W	74	11		107	107	106	107	1.4	8.3	2.0	9.6
100S 70W	59	13		120	95	99	87	2.0	5.6	2.3	7.1
90S 70W	61	12		112	79	101	92	1.8	5.9	2.2	7.4
80S 70W	66	14		100	88	115	96	1.7	6.8	2.4	8.4
70S 70W	74	7		106	108	89	86	1.5	8.2	1.2	9.0
50S 70W	47	9	b						5.7	0.8	6.2

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
40S 70W	57	12	b						6.7	1.1	7.4
30S 70W	55	8	b						6.5	0.8	7.0
20S 70W	58	11	b						6.7	1.1	7.4
10S 70W	45	13	b						5.5	1.2	6.3
30N 70W	80	17	b						9.3	3.0	11.3
40N 70W	78	17	b						8.9	3.1	11.0
50N 70W	89	19		96	123	115	128	1.4	11.0	3.5	13.3
60N 70W	111	20		147	171	153	186	1.7	14.8	3.5	17.1
70N 70W	161	37		145	183	193	253	1.6	23.7	6.5	28.1
80N 70W	194	23		294	236	210	231	1.5	29.6	4.1	32.3
90N 70W	169	24		225	250	244	276	1.6	25.3	4.2	28.1
100N 70W	206	86		270	236	317	302	1.5	31.7	15.4	42.0
110N 70W	218	47		260	235	273	278	1.3	33.8	8.4	39.4
120N 70W	162	71		249	199	130	157	1.5	23.9	12.7	32.5
130N 70W	150	36		216	176	163	186	1.4	21.7	6.4	26.0
140N 70W	134	18		190	152	168	178	1.4	19.0	3.3	21.2
150N 70W	90	12		187	116	130	98	2.1	11.1	2.1	12.5
160N 70W	84	22		132	131	122	144	1.7	10.1	3.9	12.5
170N 70W	73	6		95	100	113	95	1.6	8.0	1.1	8.7
180N 70W	68	11		90	114	95	102	1.7	7.1	1.9	8.3
190N 70W	72	8		108	97	105	114	1.6	7.9	1.4	8.8
200N 70W	68	16		104	115	118	96	1.7	7.2	2.9	9.1
210N 70W	78	11		116	99	96	118	1.5	8.9	2.0	10.3
220N 70W	64	10		83	108	108	95	1.7	6.5	1.8	7.7
230N 70W	76	16		101	78	97	98	1.3	8.6	2.8	10.5
240N 70W	64	12		85	112	107	101	1.7	6.5	2.2	7.9
100S 60W	60	6		115	107	84	110	1.9	5.7	1.2	6.5
90S 60W	55	7		89	114	129	102	2.3	4.9	1.2	5.7
80S 60W	53	9		96	85	101	106	2.0	4.6	1.6	5.7
50S 60W	52	11	b						6.2	1.0	6.9
40S 60W	52	10	b						6.2	0.9	6.8
30S 60W	59	6	b						6.8	0.5	7.2
20S 60W	56	7	b						6.6	0.7	7.0
10S 60W	44	5	b						5.5	0.5	5.8
30N 60W	89	10	b						11.0	1.8	12.2
40N 60W	100	35	b						12.9	6.3	17.1
50N 60W	120	42	q						16.4	7.5	21.4
60N 60W	135	39	q						19.2	6.9	23.8
70N 60W	128	40	q						17.8	7.1	22.6
80N 60W	169	32	q						25.2	5.8	29.0
90N 60W	153	35	q						22.3	6.2	26.4
100N 60W	221	54		215	262	390	395	1.8	34.5	9.6	41.0
110N 60W	188	51		291	272	204	259	1.5	28.5	9.1	34.6
120N 60W	152	33		227	199	205	152	1.5	22.2	5.8	26.1

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
130N 60W	107	17		145	173	135	146	1.6	14.1	3.0	16.1
140N 60W	108	16		164	154	148	132	1.5	14.4	2.8	16.3
150N 60W	81	15		135	124	106	103	1.7	9.5	2.7	11.3
160N 60W	67	8		117	125	111	103	1.9	7.1	1.5	8.1
170N 60W	69	13		119	110	119	129	1.9	7.4	2.4	9.0
180N 60W	69	11		93	94	81	124	1.8	7.4	2.0	8.7
190N 60W	69	5		111	88	112	96	1.6	7.4	0.9	8.0
200N 60W	72	8		100	110	84	89	1.5	7.9	1.5	8.9
210N 60W	72	10		115	91	99	102	1.6	7.8	1.7	9.0
220N 60W	73	14		111	103	128	82	1.7	8.2	2.4	9.8
230N 60W	72	7		96	94	119	123	1.7	8.0	1.3	8.8
240N 60W	72	10		86	123	88	93	1.7	8.0	1.7	9.1
90S 50W	57	9		96	81	92	95	1.7	4.9	1.7	6.1
80S 50W	54	12		88	58	92	89	1.7	4.7	2.1	6.1
50S 50W	52	10	b						6.2	0.9	6.8
40S 50W	60	8	b						6.9	0.7	7.4
30S 50W	62	12	b						7.2	1.1	7.9
20S 50W	55	12	b						6.7	1.0	7.4
10S 50W	56	5	b						6.5	0.4	6.8
0S 50W	39	5							8.7	0.9	9.3
10N 50W	42	3							9.1	0.6	9.5
30N 50W	95	18		120	126	150	142	1.6	12.1	3.2	14.2
40N 50W	106	30		174	180	175	192	1.8	14.0	5.3	17.6
50N 50W	125	37		219	205	294	254	2.3	19.1	7.2	23.9
60N 50W	127	12		258	240	224	274	2.2	17.8	2.2	19.2
70N 50W	232	28		287	292	224	274	1.3	20.7	2.6	22.4
80N 50W	229	64		287	282	307	264	1.3	20.4	5.8	24.1
90N 50W	218	69		362	368	291	288	1.7	19.4	6.3	23.6
100N 50W	257	38		267	285	263	249	1.1	22.9	3.5	25.2
110N 50W	191	31		208	194	210	194	1.1	16.9	2.8	18.8
120N 50W	133	38		192	177	165	144	1.4	11.7	3.4	14.0
130N 50W	114	14		206	216	170	128	1.9	9.9	1.3	10.8
140N 50W	122	22		153	139	171	148	1.4	10.7	2.0	12.0
150N 50W	71	11		152	103	107	103	2.1	7.7	2.0	9.1
160N 50W	73	11		125	109	94	84	1.7	8.0	1.9	9.3
170N 50W	66	9		104	102	100	121	1.8	6.9	1.7	8.0
180N 50W	64	9		105	106	95	120	1.9	6.4	1.7	7.6
190N 50W	61	10		91	86	100	103	1.7	6.0	1.8	7.3
200N 50W	60	10		166	84	101	82	2.8	5.8	1.8	7.0
210N 50W	64	7		104	105	109	108	1.7	6.4	1.3	7.3
220N 50W	66	12		108	107	106	106	1.6	7.1	2.1	8.6
230N 50W	67	8		82	86	86	104	1.6	7.0	1.4	7.9
240N 50W	67	9		100	93	102	88	1.5	7.0	1.6	8.1
100S 40W	54	9		92	80	86	74	1.7	4.5	0.8	5.0

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
90S 40W	50	10		88	98	87	84	2.0	4.1	0.9	4.7
80S 40W	48	7		69	87	85	92	1.9	3.9	0.6	4.4
70S 40W	58	11		83	80	94	125	2.2	4.8	1.0	5.5
50S 40W	51	7	b						6.1	0.6	6.5
40S 40W	52	7	b						6.2	0.6	6.6
30S 40W	64	7	b						7.3	0.6	7.7
20S 40W	63	6	b						7.2	0.6	7.5
10S 40W	47	7	b						5.7	0.7	6.1
0S 40W	38	10							8.3	1.6	9.4
30N 40W	118	26		140	195	168	172	1.6	16.1	4.7	19.2
40N 40W	142	35		162	199	179	199	1.4	20.4	6.2	24.5
50N 40W	177	22		203	192	187	227	1.3	26.5	3.9	29.1
60N 40W	198	40		212	256	200	201	1.3	30.4	7.1	35.1
70N 40W	192	22		198	200	254	247	1.3	29.3	3.9	31.9
80N 40W	223	46		234	269	243	256	1.2	34.7	8.2	40.2
90N 40W	182	46		223	211	184	216	1.2	27.5	8.2	33.0
100N 40W	133	25		165	213	154	174	1.6	18.8	4.5	21.8
110N 40W	110	23		193	149	123	141	1.8	14.6	4.1	17.3
120N 40W	98	21		149	166	113	98	1.7	12.5	3.8	15.0
130N 40W	81	11	b						9.5	2.0	10.9
140N 40W	80	12	b						9.4	2.1	10.8
150N 40W	80	13		118	105	85	106	1.5	6.8	1.1	7.6
160N 40W	84	23		121	128	92	108	1.5	7.2	2.1	8.6
170N 40W	78	28		102	84	102	92	1.3	6.7	2.5	8.4
180N 40W	65	14		113	84	78	100	1.8	5.5	1.2	6.3
190N 40W	69	12		97	96	89	98	1.4	5.9	1.1	6.6
200N 40W	76	21	q						8.8	1.7	10.0
210N 40W	79	19	q						9.0	1.6	10.1
220N 40W	77	22	q						8.9	1.8	10.1
230N 40W	82	60	q						9.3	5.0	12.7
240N 40W	103	41	q						11.1	3.4	13.4
100S 30W	59	11		102	96	85	119	2.0	5.0	1.0	5.7
90S 30W	52	8		83	77	95	93	1.8	4.3	0.7	4.8
80S 30W	61	11		95	109	101	112	1.9	5.1	1.0	5.7
70S 30W	68	9		105	81	86	100	1.5	5.8	0.8	6.3
60S 30W	64	9		103	96	92	102	1.6	5.4	0.8	5.9
50S 30W	49	10	b						5.9	0.9	6.5
40S 30W	53	12	b						6.3	1.2	7.0
30S 30W	50	6	b						5.9	0.6	6.3
20S 30W	61	7	b						7.0	0.6	7.4
10S 30W	54	6	b						6.4	0.5	6.7
0S 30W	39	5							8.5	0.8	9.1
10N 30W	36	5							8.1	0.9	8.7
30N 30W	156	51		166	482	293	274	3.1	13.7	4.6	16.8

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Interval Count (counts in 30 sec) Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
40N 30W	180	77		286	259	331	338	1.9	16.0	7.0	20.7
50N 30W	210	39		292	283	291	281	1.4	18.7	3.6	21.0
60N 30W	176	16		392	351	298	291	2.2	15.6	1.5	16.6
70N 30W	232	40		310	313	183	308	1.3	20.6	3.6	23.0
80N 30W	197	31		361	333	321	295	1.8	17.5	2.8	19.4
90N 30W	155	38		289	222	236	192	1.9	13.7	3.4	16.0
100N 30W	108	32		198	178	204	203	1.9	14.4	5.7	18.2
110N 30W	80	11		153	155	140	129	1.9	9.4	2.0	10.7
120N 30W	73	17		148	124	110	127	2.0	8.1	3.0	10.1
130N 30W	68	11		115	115	106	110	1.7	7.2	2.0	8.6
140N 30W	77	12		108	135	131	131	1.7	8.9	2.1	10.3
150N 30W	71	26		122	112	94	107	1.7	6.1	2.3	7.6
160N 30W	78	10		129	91	99	83	1.7	6.6	0.9	7.3
170N 30W	58	6		98	91	89	94	1.7	4.9	0.5	5.2
180N 30W	69	16		85	101	85	89	1.5	5.9	1.5	6.9
190N 30W	68	34		77	86	97	107	1.6	5.8	3.0	7.8
200N 30W	65	11	q						8.9	1.1	9.7
210N 30W	73	9	q						8.5	0.8	9.1
220N 30W	73	11	q						8.5	1.0	9.2
230N 30W	77	21	q						8.9	1.8	10.1
240N 30W	94	41	q						10.3	3.4	12.5
100S 20W	51	9		93	85	81	95	1.9	4.2	0.8	4.8
90S 20W	64	14		90	86	107	93	1.7	5.4	1.2	6.3
80S 20W	61	7		95	116	96	87	1.9	5.1	0.7	5.5
70S 20W	59	5		95	97	125	83	2.1	4.9	0.4	5.2
60S 20W	60	7		101	96	95	66	1.7	5.1	0.7	5.5
50S 20W	56	7	b						6.6	0.7	7.0
40S 20W	58	9	b						6.7	0.8	7.3
30S 20W	55	15	b						6.5	1.4	7.4
20S 20W	53	10	b						6.3	1.0	6.9
10S 20W	50	16	b						6.0	1.5	7.0
10N 20W	43	4							9.2	0.6	9.7
30N 20W	110	60	x	253	377	301	179	3.4	12.5	6.6	16.9
40N 20W	212	87		192	296	264	273	1.4	18.8	7.9	24.1
50N 20W	232	36		327	277	334	297	1.4	20.6	3.3	22.8
60N 20W	197	17		322	264	351	246	1.8	17.5	1.5	18.5
70N 20W	207	57		291	164	282	371	1.8	18.4	5.2	21.8
80N 20W	138	17		221	220	189	208	1.6	12.1	1.6	13.1
90N 20W	107	23		178	152	162	203	1.9	9.3	2.1	10.7
100N 20W	96	26		157	151	167	139	1.7	8.3	2.3	9.9
110N 20W	88	13		180	159	132	140	2.1	7.6	1.1	8.3
120N 20W	85	21		129	141	134	163	1.9	7.3	1.9	8.6
130N 20W	74	16		134	139	139	144	1.9	6.4	1.4	7.3
140N 20W	89	16		139	124	114	121	1.6	7.7	1.4	8.7

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
150N 20W	80	7		130	145	148	140	1.8	6.9	0.6	7.3
160N 20W	85	13		169	104	90	126	2.0	7.3	1.2	8.1
170N 20W	66	17		101	100	117	92	1.8	5.6	1.5	6.6
180N 20W	64	12		98	191	84	92	3.0	5.4	1.1	6.2
190N 20W	100	67		100	88	71	93	1.0	8.7	6.1	12.8
200N 20W	78	13	q						8.9	1.1	9.7
210N 20W	106	92	q						11.3	7.7	16.4
220N 20W	63	11	q						7.7	0.9	8.3
230N 20W	61	16	q						7.6	1.3	8.5
240N 20W	68	16	q						8.1	1.3	9.0
100S 10W	57	5		104	94	72	92	1.8	4.8	0.5	5.1
90S 10W	54	13		75	81	84	93	1.7	4.5	1.2	5.3
80S 10W	66	9		98	96	101	95	1.5	5.6	0.8	6.1
70S 10W	63	10		109	97	103	95	1.7	5.3	0.9	5.9
60S 10W	60	5		103	93	130	89	2.2	5.0	0.4	5.3
0S 10W	110	69	y	197	253	163	92		11.5	6.4	15.9
10N 10W	69	15	y	118	105	96	115		7.7	1.4	8.7
10N 10W	44	5	y	118	105	96	115		9.5	0.9	10.1
20N 10W	125	73	y	105	113	184	309		13.0	6.8	17.6
30N 10W	178	89	y	225	166	174	263		17.9	6.5	22.2
40N 10W	207	50	y	237	150	243	218		20.6	4.7	23.8
50N 10W	210	33	y	216	253	266	215		20.9	3.0	23.0
60N 10W	195	41	y	226	199	142	213		19.5	3.8	22.0
70N 10W	153	29	y	182	188	197	176		15.6	2.7	17.4
80N 10W	140	38	y	147	155	158	131		14.4	3.5	16.8
90N 10W	101	13	y	139	155	132	140		10.8	1.2	11.6
100N 10W	76	10	y	159	122	118	96		8.4	1.0	9.1
110N 10W	87	11	y	117	84	124	124		7.4	0.9	8.0
120N 10W	71	16	y	113	103	121	115		6.1	1.5	7.1
130N 10W	80	14	y	112	120	111	135		6.9	1.2	7.7
140N 10W	89	14	q						7.7	1.3	8.5
150N 10W	95	46	y	103	132	114	124		8.2	4.2	11.0
160N 10W	80	15		127	105	106	116	1.6	6.9	1.4	7.8
170N 10W	80	15		116	106	108	94	1.5	6.9	1.3	7.8
180N 10W	69	8		92	77	92	109	1.6	5.9	0.7	6.3
190N 10W	85	22		107	105	99	109	1.3	7.3	2.0	8.6
200N 10W	59	10	x	143	525	86	114	8.8	7.4	0.8	7.9
210N 10W	65	11	x	125	197	158	268	4.1	7.9	0.9	8.5
220N 10W	66	13	x	120	162	965	115	14.7	7.9	1.1	8.6
230N 10W	60	13		82	80	106	105	1.8	7.4	1.1	8.2
240N 10W	72	15		96	114	103	127	1.8	8.4	1.2	9.2
100S 0E	60	6		180	103	81	86	3.0	5.1	0.6	5.5
90S 0E	52	8		103	101	74	105	2.0	4.6	1.2	5.4
80S 0E	59	8		106	74	91	92	1.8	4.9	0.7	5.4

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
70S 0E	68	13		93	98	90	99	1.5	5.7	1.2	6.5
60S 0E	63	9		100	97	94	133	2.1	5.3	0.8	5.8
50S 0W	49	9	y	95	134	126	107		10.4	1.6	11.4
40S 0W	46	7	y	115	124	147	144		9.7	1.3	10.6
30S 0W	51	12	y	149	156	137	154		10.6	2.0	12.0
20S 0W	37	11	y	120	133	107	107		8.3	2.0	9.6
10S 0W	47	13	y	73	141	218	213		9.9	2.3	12.6
0S 0E	244	46	y	263	284	294	287		24.1	4.3	27.0
10N 0E	113	64	y	227	140	116	127		10.7	5.7	14.5
20N 0E	231	95	y	217	318	300	304		22.9	8.8	28.8
30N 0E	300	26	y	344	304	298	349		29.3	2.4	30.9
40N 0E	245	41	y	286	271	233	303		24.1	3.9	26.7
50N 0E	185	67	y	281	258	207	252		18.6	6.3	22.8
60N 0E	154	32	y	182	223	225	210		15.7	2.9	17.6
70N 0E	119	18	y	171	166	143	138		12.5	1.7	13.6
80N 0E	113	13	y	157	182	126	144		11.9	1.2	12.7
90N 0E	92	20	y	143	155	145	118		9.9	1.9	11.1
100N 0E	81	17	y	114	113	148	114		8.9	1.6	10.0
110N 0E	73	11	y	142	95	112	105		8.2	8.0	13.5
120N 0E	71	10	y	130	114	104	102		8.6	1.3	9.5
130N 0E	75	10	y	105	93	107	103		6.4	0.9	7.0
140N 0E	83	10	y	122	130	130	125		7.1	0.9	7.7
150N 0E	78	14	y	115	106	137	112		6.7	1.3	7.5
160N 0E	86	17		127	111	155	124	1.8	7.4	1.5	8.4
170N 0E	83	8		128	114	117	104	1.5	7.1	0.8	7.6
180N 0E	86	16		121	159	135	119	1.9	7.4	1.5	8.3
190N 0E	77	10		120	91	120	90	1.6	6.6	0.9	7.2
200N 0E	148	111		112	105	98	142	1.0	7.4	0.8	7.9
210N 0E	69	12		190	111	101	90	2.7	8.5	1.1	9.3
220N 0E	69	10	x	102	495	117	185	7.2	8.2	0.8	8.7
230N 0E	69	10	x	436	185	142	114	6.4	7.5	0.9	8.1
240N 0E	80	28		79	119	81	93	1.5	9.1	2.4	10.7
100S 10E	54	7	b						6.2	0.7	6.7
90S 10E	52	8	b						5.8	0.5	6.1
80S 10E	51	12	b						6.3	0.7	6.8
70S 10E	69	7	b						8.1	0.8	8.6
60S 10E	70	5	b						8.3	0.4	8.6
50S 10E	89	15	b						9.6	1.4	10.5
40S 10E	82	11	b						8.9	1.0	9.6
30S 10E	85	22	b						9.2	2.1	10.6
20S 10E	80	31	b						8.8	2.9	10.8
10S 10E	132	75	b						13.6	6.9	18.3
100S 20E	54	8	b						6.3	0.7	6.8
90S 20E	50	4	b						6.0	0.4	6.2

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
80S 20E	51	10	x	286	165	77	96	5.6	6.1	0.9	6.7
70S 20E	61	15		77	95	142	108	2.3	7.0	1.4	8.0
60S 20E	71	17		137	145	129	150	2.1	7.9	1.6	9.0
50S 20E	92	10		146	149	142	115	1.6	9.9	0.9	10.5
40S 20E	85	16		121	111	137	117	1.6	9.2	1.5	10.2
30S 20E	90	23	x	174	139	240	261	2.9	9.7	2.2	11.1
20S 20E	91	60		209	189	103	207	2.3	9.8	5.6	13.5
10S 20E	225	64		278	331	336	292	1.5	22.3	5.9	26.2
100S 30E	52	11		74	87	81	80	1.7	6.2	1.0	6.9
90S 30E	54	11		95	87	87	79	1.8	6.4	1.1	7.1
80S 30E	57	8		82	78	90	98	1.7	6.6	0.8	7.1
70S 30E	60	12		75	97	128	130	2.2	6.9	1.1	7.7
60S 30E	94	12		180	121	131	162	1.9	10.1	1.1	10.9
50S 30E	125	20		138	134	151	135	1.2	13.0	1.9	14.2
40S 30E	85	31		180	101	96	152	2.1	9.2	2.9	11.2
30S 30E	63	16		155	90	79	71	2.5	7.2	1.5	8.2
20S 30E	103	146	x	84	82	82	364	3.5	10.9	13.6	20.0
10S 30E	323	54		362	397	337	349	1.2	31.4	5.1	34.8
120S 40E	53	11		89	79	92	105	2.0	4.4	1.0	5.1
110S 40E	57	10		100	100	98	85	1.8	4.8	0.9	5.4
100S 40E	56	5		98	98	75	94	1.7	6.6	0.5	6.9
90S 40E	51	10		88	94	86	91	1.8	6.1	1.0	6.7
80S 40E	61	12		91	90	100	113	1.9	7.0	1.1	7.7
70S 40E	90	42		132	126	91	137	1.5	9.7	3.9	12.3
60S 40E	107	21		145	167	155	139	1.6	11.3	1.9	12.6
50S 40E	148	32		163	197	171	187	1.3	15.1	3.0	17.1
40S 40E	95	19		147	139	134	138	1.6	10.2	1.8	11.3
30S 40E	34	8	y	117	104	91	69		7.7	1.3	8.6
10S 40E	332	28		320	317	318	304	1.0	32.3	2.6	34.0
120S 50E	47	14		67	84	78	80	1.8	3.9	1.2	4.7
110S 50E	55	8		74	86	86	90	1.6	4.6	0.7	5.0
100S 50E	70	13		105	87	89	105	1.5	5.9	1.1	6.7
70S 50E	80	19		115	115	110	128	1.6	6.6	1.8	7.9
60S 50E	97	25		130	117	143	185	1.9	8.4	2.3	9.9
50S 50E	93	61		172	130	134	114	1.8	8.0	5.5	11.7
40S 50E	56	18	y	115	129	97	102		11.6	3.0	13.6
20S 50E	41	6	y	89	91	83	208		8.9	1.0	9.6
10S 50E	265	67		419	286	291	218	1.6	23.6	6.1	27.7
120S 60E	59	10	x	88	180	87	81	3.0	5.0	0.9	5.6
110S 60E	68	11		85	93	180	101	2.6	5.8	1.0	6.5
70S 60E	95	30		111	120	151	132	1.6	8.2	2.7	10.0
60S 60E	92	14		127	155	125	150	1.7	7.9	1.2	8.7
50S 60E	57	19		105	105	97	81	1.8	4.8	1.7	5.9
40S 60E	43	6		101	73	65	73	2.4	3.5	0.5	3.8

Summary Table of Interpreted Instrument Readings

Grid Location	Interval Count (counts in 30 sec) Grid Avg	Grid STD	Note	Peak Count Rate (1/2 * counts/min) PEAK 1/4	PEAK 2/4	PEAK 3/4	PEAK 4/4	Ratio of Peak Walkover to Average Timed Data	Correlated Activity (pCi/g) Grid Avg	Grid STD	Grid 95th
20S 60E	91	25		107	90	92	133	1.5	7.8	2.4	9.5
10S 60E	155	57		197	197	184	176	1.3	13.7	5.1	17.1
30S 70E	38	4							8.3	0.7	8.8
10S 70E	121	36	b						10.6	3.2	12.7
10S 80E	48	11	b						3.9	1.0	4.6
10S 90E	56	13	b						4.7	1.2	5.5
10S 100E	59	6	b						5.0	0.5	5.3

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
300N 440W	3.9	0.6	4.3
310N 440W	3.8	0.7	4.3
320N 440W	4.5	0.8	5.0
330N 440W	4.3	0.7	4.8
340N 440W	3.9	0.6	4.3
350N 440W	3.6	0.5	4.0
360N 440W	4.1	1.0	4.8
370N 440W	4.0	1.1	4.8
380N 440W	4.3	0.7	4.8
390N 440W	4.0	0.8	4.5
400N 440W	4.6	0.7	5.2
410N 440W	4.0	0.8	4.6
420N 440W	4.3	0.5	4.6
430N 440W	4.1	0.8	4.7
440N 440W	4.3	0.5	4.6
300N 430W	3.5	0.8	4.0
310N 430W	3.6	0.7	4.2
320N 430W	4.3	0.7	4.8
330N 430W	3.6	0.5	4.0
340N 430W	3.8	0.9	4.4
350N 430W	4.0	1.1	4.8
360N 430W	4.1	0.6	4.6
370N 430W	4.4	0.7	4.9
380N 430W	4.0	0.8	4.5
390N 430W	4.0	0.8	4.5
400N 430W	4.5	0.9	5.2
410N 430W	4.4	0.7	4.9
420N 430W	4.0	0.5	4.4
430N 430W	4.4	1.1	5.1
440N 430W	4.1	0.8	4.7
300N 420W	4.8	1.0	5.5
310N 420W	4.3	0.5	4.6
320N 420W	4.0	0.5	4.4
330N 420W	4.3	0.7	4.8
340N 420W	3.9	0.8	4.5
350N 420W	3.5	0.5	3.9
360N 420W	3.8	0.7	4.3
370N 420W	4.0	0.8	4.5
380N 420W	4.3	1.3	5.2
390N 420W	4.1	0.8	4.7
400N 420W	4.4	0.7	4.9
410N 420W	4.5	0.8	5.0
420N 420W	4.6	1.2	5.5
430N 420W	5.0	0.5	5.4

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
440N 420W	4.3	0.7	4.8
300N 410W	4.3	0.7	4.8
310N 410W	4.3	0.7	4.8
320N 410W	4.0	0.8	4.5
330N 410W	4.5	0.5	4.9
340N 410W	4.0	0.8	4.5
350N 410W	4.0	0.5	4.4
360N 410W	3.8	0.9	4.4
370N 410W	4.3	0.7	4.8
380N 410W	4.1	0.8	4.7
390N 410W	4.0	0.8	4.5
400N 410W	4.5	0.8	5.0
410N 410W	4.6	0.9	5.3
420N 410W	4.6	0.5	5.0
430N 410W	5.0	0.5	5.4
440N 410W	4.6	0.5	5.0
300N 400W	4.1	0.6	4.6
310N 400W	4.1	0.8	4.7
320N 400W	4.0	0.5	4.4
330N 400W	4.3	0.5	4.6
340N 400W	4.1	0.6	4.6
350N 400W	4.5	0.5	4.9
360N 400W	4.4	0.9	5.0
370N 400W	3.4	0.7	3.9
380N 400W	4.1	0.6	4.6
390N 400W	4.4	0.7	4.9
400N 400W	4.6	0.7	5.2
410N 400W	4.4	0.5	4.7
420N 400W	4.3	0.7	4.8
430N 400W	4.6	0.5	5.0
440N 400W	4.3	0.5	4.6
300N 390W	3.6	0.5	4.0
310N 390W	3.5	0.5	3.9
320N 390W	4.8	0.7	5.3
330N 390W	3.8	0.9	4.4
340N 390W	4.8	0.7	5.3
350N 390W	4.3	1.2	5.1
360N 390W	4.1	1.1	4.9
370N 390W	4.1	1.1	4.9
380N 390W	5.0	0.9	5.7
390N 390W	4.8	0.5	5.1
300N 380W	4.1	0.6	4.6
310N 380W	4.4	1.1	5.1
320N 380W	4.4	0.5	4.7

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
330N 380W	4.5	0.5	4.9
340N 380W	4.4	0.7	4.9
350N 380W	4.3	0.7	4.8
360N 380W	4.4	0.7	4.9
370N 380W	4.9	0.6	5.3
380N 380W	4.5	0.5	4.9
390N 380W	4.0	0.8	4.5
300N 370W	3.8	0.7	4.3
310N 370W	4.4	0.9	5.0
320N 370W	4.1	0.6	4.6
330N 370W	4.9	0.6	5.3
340N 370W	4.6	0.7	5.2
350N 370W	4.6	0.5	5.0
360N 370W	4.8	0.5	5.1
370N 370W	4.9	0.6	5.3
380N 370W	4.8	0.7	5.3
390N 370W	4.9	0.6	5.3
300N 360W	4.0	0.9	4.7
310N 360W	4.3	0.7	4.8
320N 360W	4.3	0.5	4.6
330N 360W	4.4	0.5	4.7
340N 360W	5.0	0.8	5.5
350N 360W	5.0	0.9	5.7
360N 360W	5.5	1.1	6.3
370N 360W	4.9	0.8	5.5
380N 360W	4.5	1.1	5.3
390N 360W	4.4	0.7	4.9
300N 350W	4.3	0.5	4.6
310N 350W	3.9	0.8	4.5
320N 350W	4.4	0.5	4.7
330N 350W	4.0	0.8	4.5
340N 350W	5.3	0.5	5.6
350N 350W	5.0	0.0	5.0
360N 350W	4.6	0.7	5.2
370N 350W	4.3	0.7	4.8
380N 350W	4.8	0.9	5.4
390N 350W	4.6	0.5	5.0
250N 340W	3.9	0.6	4.3
260N 340W	3.6	0.5	4.0
270N 340W	4.4	0.7	4.9
280N 340W	3.4	0.5	3.7
290N 340W	4.0	0.8	4.5
300N 340W	4.8	0.7	5.3
310N 340W	4.1	1.0	4.8

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
320N 340W	4.8	0.7	5.3
330N 340W	4.3	0.7	4.8
340N 340W	4.5	0.9	5.2
350N 340W	4.4	0.7	4.9
360N 340W	4.9	0.6	5.3
370N 340W	4.6	0.5	5.0
380N 340W	4.5	0.5	4.9
390N 340W	4.6	0.7	5.2
250N 330W	3.9	0.8	4.5
260N 330W	3.3	0.7	3.8
270N 330W	4.3	0.7	4.8
280N 330W	3.9	0.6	4.3
290N 330W	4.5	1.1	5.3
300N 330W	4.6	1.1	5.4
310N 330W	3.9	0.6	4.3
320N 330W	4.6	0.5	5.0
330N 330W	4.5	0.8	5.0
340N 330W	4.4	0.7	4.9
350N 330W	4.3	0.7	4.8
360N 330W	4.3	0.7	4.8
370N 330W	4.3	0.7	4.8
380N 330W	4.4	0.7	4.9
390N 330W	4.4	0.7	4.9
250N 320W	4.1	0.6	4.6
260N 320W	3.9	0.8	4.5
270N 320W	4.1	0.8	4.7
280N 320W	4.1	0.8	4.7
290N 320W	4.3	0.7	4.8
300N 320W	4.6	1.2	5.5
310N 320W	4.4	1.1	5.1
320N 320W	4.0	1.3	4.9
330N 320W	4.5	0.9	5.2
340N 320W	4.0	0.9	4.7
350N 320W	4.6	0.5	5.0
360N 320W	4.4	0.7	4.9
370N 320W	4.1	0.6	4.6
380N 320W	4.6	0.5	5.0
390N 320W	4.0	0.8	4.5
250N 310W	3.8	0.7	4.3
260N 310W	4.0	0.8	4.5
270N 310W	3.8	1.0	4.5
280N 310W	4.3	0.7	4.8
290N 310W	4.0	1.1	4.8
300N 310W	5.0	0.8	5.5

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
310N 310W	4.0	0.9	4.7
320N 310W	4.3	1.2	5.1
330N 310W	4.0	1.1	4.8
340N 310W	4.0	1.1	4.8
350N 310W	5.0	1.1	5.8
360N 310W	3.9	0.8	4.5
370N 310W	4.5	0.9	5.2
380N 3100W	4.4	0.7	4.9
390N 310W	4.8	0.9	5.4
250N 300W	3.9	0.6	4.3
260N 300W	4.0	0.0	4.0
270N 300W	4.6	0.5	5.0
280N 300W	4.0	0.5	4.4
290N 300W	4.1	1.2	5.0
300N 300W	4.5	0.8	5.0
310N 300W	4.6	0.5	5.0
320N 300W	4.0	0.8	4.5
330N 300W	4.4	0.5	4.7
340N 300W	4.8	0.7	5.3
350N 300W	3.8	0.7	4.3
360N 300W	4.8	0.7	5.3
370N 300W	4.0	0.9	4.7
380N 300W	4.6	0.5	5.0
390N 300W	4.1	0.6	4.6
200N 290W	4.6	0.5	5.0
210N 290W	3.9	0.8	4.5
220N 290W	3.6	0.7	4.2
230N 290W	4.0	0.5	4.4
240N 290W	3.6	0.5	4.0
250N 290W	4.4	1.1	5.2
260N 290W	4.1	1.4	5.1
270N 290W	4.4	0.4	4.6
280N 290W	4.4	0.8	5.0
290N 290W	5.0	0.6	5.4
300N 290W	4.5	0.5	4.9
310N 290W	4.4	1.1	5.1
320N 290W	4.9	0.6	5.3
330N 290W	4.8	0.9	5.4
340N 290W	4.4	0.5	4.7
350N 290W	4.4	0.9	5.1
360N 290W	4.5	1.2	5.4
370N 290W	4.1	1.1	4.9
380N 290W	4.9	0.8	5.5
390N 290W	4.6	0.8	5.2

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
200N 280W	3.8	0.5	4.1
210N 280W	3.9	0.6	4.3
220N 280W	3.8	1.2	4.6
230N 280W	3.3	0.7	3.8
240N 280W	3.3	0.5	3.6
250N 280W	4.0	0.6	4.4
260N 280W	4.4	0.7	4.9
270N 280W	4.9	1.1	5.7
280N 280W	4.9	0.8	5.5
290N 280W	5.1	1.5	6.2
300N 280W	4.8	0.5	5.1
310N 280W	4.8	0.7	5.3
320N 280W	4.6	0.5	5.0
330N 280W	4.8	0.7	5.3
340N 280W	4.5	0.5	4.9
350N 280W	4.3	0.7	4.8
360N 280W	4.5	1.2	5.4
370N 280W	3.7	0.9	4.3
380N 280W	4.0	0.9	4.7
390N 280W	4.4	0.9	5.0
200N 270W	3.8	0.7	4.3
210N 270W	3.6	0.5	4.0
220N 270W	3.5	0.8	4.0
230N 270W	3.9	0.8	4.5
240N 270W	3.8	0.7	4.3
250N 270W	4.8	1.1	5.6
260N 270W	4.9	0.5	5.3
270N 270W	5.2	1.0	5.9
280N 270W	5.5	0.6	5.9
290N 270W	5.4	0.6	5.8
300N 270W	4.5	0.5	4.9
310N 270W	4.5	0.8	5.0
320N 270W	4.9	0.4	5.1
330N 270W	4.9	0.8	5.5
340N 270W	4.4	1.1	5.1
350N 270W	4.3	0.5	4.6
360N 270W	4.6	0.9	5.3
370N 270W	4.8	1.0	5.5
380N 270W	4.8	0.9	5.4
390N 270W	4.4	0.9	5.0
400N 270W	4.3	0.7	4.8
410N 270W	3.9	0.4	4.1
420N 270W	3.4	0.5	3.7
430N 270W	3.5	0.5	3.9

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
440N 270W	3.5	0.9	4.2
200N 260W	4.0	0.5	4.4
210N 260W	3.6	0.5	4.0
220N 260W	3.8	0.7	4.3
230N 260W	3.5	0.8	4.0
240N 260W	3.6	0.5	4.0
250N 260W	4.8	0.7	5.3
260N 260W	5.3	0.4	5.5
270N 260W	5.1	0.9	5.7
280N 260W	5.0	1.0	5.7
290N 260W	5.3	0.8	5.9
300N 260W	4.3	0.9	4.9
310N 260W	4.9	0.6	5.3
320N 260W	5.3	0.7	5.8
330N 260W	5.0	0.8	5.5
340N 260W	4.3	0.7	4.8
350N 260W	4.4	0.9	5.0
360N 260W	4.5	1.2	5.4
370N 260W	4.4	1.1	5.1
380N 260W	4.3	1.0	5.0
390N 260W	4.1	0.6	4.6
400N 260W	4.0	0.8	4.5
410N 260W	4.4	0.7	4.9
420N 260W	3.5	0.5	3.9
430N 260W	4.0	0.8	4.5
440N 260W	3.6	0.5	4.0
200N 250W	4.0	1.2	4.9
210N 250W	3.5	0.8	4.0
220N 250W	3.6	0.5	4.0
230N 250W	3.9	0.6	4.3
240N 250W	4.1	0.6	4.6
250N 250W	5.3	1.4	6.2
260N 250W	4.6	1.0	5.4
270N 250W	5.1	0.9	5.8
280N 250W	5.3	0.4	5.5
290N 250W	5.1	1.0	5.8
300N 250W	4.6	0.7	5.2
310N 250W	4.5	0.8	5.0
320N 250W	5.0	0.9	5.7
330N 250W	4.9	0.8	5.5
340N 250W	4.3	1.2	5.1
350N 250W	4.5	1.1	5.3
360N 250W	4.5	0.5	4.9
370N 250W	3.9	1.0	4.6

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
380N 250W	3.5	0.5	3.9
390N 250W	4.3	1.3	5.2
400N 250W	4.0	0.8	4.5
410N 250W	4.0	0.5	4.4
420N 250W	3.9	0.6	4.3
430N 250W	3.3	0.5	3.6
440N 250W	3.4	0.5	3.7
150N 240W	3.7	1.0	4.4
160N 240W	4.3	0.8	4.8
170N 240W	3.9	1.1	4.7
180N 240W	3.6	1.2	4.4
190N 240W	4.4	1.1	5.1
200N 240W	3.7	1.4	4.7
210N 240W	4.1	1.0	4.8
220N 240W	5.0	0.5	5.4
230N 240W	5.3	1.0	6.0
240N 240W	4.6	0.6	5.0
250N 240W	4.9	1.1	5.7
260N 240W	5.2	0.9	5.8
270N 240W	5.1	0.6	5.5
280N 240W	5.1	1.1	5.8
290N 240W	5.6	1.2	6.5
300N 240W	4.6	0.6	5.1
310N 240W	4.3	1.2	5.2
320N 240W	4.8	0.6	5.2
330N 240W	4.4	1.0	5.1
340N 240W	3.8	0.7	4.3
350N 240W	3.5	0.9	4.2
360N 240W	4.0	0.9	4.7
370N 240W	4.1	1.2	5.0
380N 240W	4.1	0.8	4.7
390N 240W	3.6	1.2	4.5
400N 240W	4.3	0.9	4.9
410N 240W	3.5	0.9	4.2
420N 240W	4.3	1.2	5.1
430N 240W	4.1	0.8	4.7
440N 240W	4.0	0.8	4.5
150N 230W	3.9	1.1	4.7
160N 230W	4.3	0.6	4.7
170N 230W	4.0	0.9	4.7
180N 230W	4.1	0.8	4.7
190N 230W	4.3	1.2	5.1
200N 230W	4.1	0.8	4.7
210N 230W	3.8	0.5	4.1

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
220N 230W	4.6	0.7	5.2
230N 230W	5.1	1.1	5.9
240N 230W	5.1	0.8	5.7
250N 230W	5.2	0.6	5.6
260N 230W	5.0	0.8	5.5
270N 230W	5.3	1.1	6.0
280N 230W	5.7	1.3	6.6
290N 230W	5.3	1.0	6.0
300N 230W	4.9	0.8	5.5
310N 230W	4.5	0.5	4.9
320N 230W	4.5	0.8	5.0
330N 230W	4.4	0.7	4.9
340N 230W	4.8	1.0	5.4
350N 230W	3.9	1.0	4.6
360N 230W	4.3	0.5	4.6
370N 230W	4.1	0.8	4.7
380N 230W	4.4	0.9	5.0
390N 230W	3.6	0.9	4.3
400N 230W	4.0	0.9	4.7
410N 230W	4.0	1.1	4.8
420N 230W	4.1	0.6	4.6
430N 230W	3.4	0.5	3.7
440N 230W	4.4	1.1	5.1
150N 220W	4.1	1.4	5.1
160N 220W	4.3	0.5	4.6
170N 220W	4.0	0.8	4.5
180N 220W	4.0	1.4	5.0
190N 220W	4.4	0.9	5.0
200N 220W	3.6	1.1	4.4
210N 220W	3.4	0.9	4.0
220N 220W	4.1	0.4	4.4
230N 220W	4.3	0.5	4.6
240N 220W	4.6	0.7	5.2
250N 220W	5.8	0.7	6.2
260N 220W	5.1	1.0	5.8
270N 220W	5.2	1.0	5.9
280N 220W	5.0	0.8	5.5
290N 220W	5.1	0.8	5.7
300N 220W	4.7	0.5	5.0
310N 220W	4.0	0.5	4.3
320N 220W	4.6	0.6	5.0
330N 220W	4.6	0.5	4.9
340N 220W	3.8	1.0	4.6
350N 220W	4.0	0.8	4.5

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
360N 220W	3.9	0.8	4.5
370N 220W	4.4	1.4	5.4
380N 220W	3.9	1.4	4.8
390N 220W	4.4	0.9	5.0
400N 220W	4.0	0.8	4.5
410N 220W	3.4	0.9	4.0
420N 220W	3.6	0.9	4.3
430N 220W	3.9	1.0	4.6
440N 220W	3.8	1.0	4.5
150N 210W	3.6	0.7	4.2
160N 210W	4.1	0.8	4.7
170N 210W	4.3	1.0	5.1
180N 210W	4.1	0.8	4.7
190N 210W	4.6	0.7	5.2
200N 210W	4.4	1.1	5.1
210N 210W	3.9	1.0	4.7
220N 210W	4.8	0.7	5.3
230N 210W	4.9	0.4	5.2
240N 210W	5.0	1.1	5.8
250N 210W	5.4	0.9	6.1
260N 210W	4.9	0.8	5.4
270N 210W	5.0	0.8	5.6
280N 210W	4.8	0.7	5.2
290N 210W	5.4	0.8	6.0
300N 210W	4.7	1.3	5.6
310N 210W	4.7	1.2	5.5
320N 210W	4.5	1.1	5.3
330N 210W	4.4	0.6	4.8
340N 210W	3.7	0.6	4.1
350N 210W	4.1	0.8	4.7
360N 210W	4.4	0.7	4.9
370N 210W	4.3	0.7	4.8
380N 210W	3.0	0.8	3.5
390N 210W	3.4	0.9	4.0
400N 210W	3.1	0.6	3.6
410N 210W	4.0	0.8	4.5
420N 210W	4.0	0.9	4.7
430N 210W	4.3	0.7	4.8
440N 210W	3.9	0.8	4.5
150N 200W	4.0	0.8	4.5
160N 200W	4.8	1.2	5.6
170N 200W	4.8	0.9	5.4
180N 200W	5.5	1.3	6.4
190N 200W	4.8	0.7	5.3

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
200N 200W	4.6	0.7	5.2
210N 200W	4.8	0.7	5.3
220N 200W	4.4	0.9	5.0
230N 200W	5.1	0.9	5.7
240N 200W	5.3	0.7	5.8
250N 200W	5.1	1.1	5.8
260N 200W	5.3	0.9	5.9
270N 200W	5.1	0.9	5.7
280N 200W	5.3	0.9	6.0
290N 200W	4.9	1.0	5.6
300N 200W	4.6	0.7	5.1
310N 200W	4.9	0.5	5.2
320N 200W	4.2	0.8	4.8
330N 200W	4.5	0.7	5.0
340N 200W	4.6	0.7	5.1
350N 200W	4.3	0.9	4.9
360N 200W	3.8	0.7	4.3
370N 200W	4.3	1.3	5.2
380N 200W	3.4	0.5	3.7
390N 200W	3.8	0.7	4.3
400N 200W	3.9	0.6	4.3
410N 200W	4.5	0.9	5.2
420N 200W	4.3	0.9	4.9
430N 200W	3.4	0.5	3.7
440N 200W	3.6	0.5	4.0
50N 190W	3.9	0.8	4.5
60N 190W	3.8	0.7	4.3
70N 190W	3.9	0.8	4.5
80N 190W	3.8	0.9	4.4
90N 190W	4.1	0.8	4.7
100N 190W	3.9	1.2	4.8
110N 190W	4.0	0.8	4.5
120N 190W	3.8	0.7	4.3
130N 190W	3.9	0.6	4.3
140N 190W	3.3	0.7	3.8
150N 190W	3.0	0.8	3.5
160N 190W	4.3	0.7	4.8
170N 190W	3.9	0.8	4.5
180N 190W	3.8	0.7	4.3
190N 190W	4.9	0.7	5.4
200N 190W	4.5	0.9	5.2
210N 190W	4.8	0.9	5.4
220N 190W	4.5	0.5	4.9
230N 190W	4.8	0.9	5.4

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
240N 190W	4.3	0.9	4.9
250N 190W	5.0	0.5	5.4
260N 190W	5.0	0.5	5.4
270N 190W	4.1	0.8	4.7
280N 190W	4.6	0.9	5.3
290N 190W	4.1	0.8	4.7
300N 190W	4.1	0.8	4.7
310N 190W	3.9	1.0	4.6
320N 190W	4.5	0.5	4.9
330N 190W	4.1	0.6	4.6
340N 190W	3.9	0.4	4.1
350N 190W	4.0	0.9	4.7
360N 190W	4.0	0.8	4.5
370N 190W	3.6	0.7	4.2
380N 190W	4.4	1.1	5.1
390N 190W	3.9	0.6	4.3
400N 190W	4.0	0.5	4.4
410N 190W	3.3	0.5	3.6
420N 190W	3.4	0.7	3.9
430N 190W	3.5	0.9	4.2
440N 190W	3.6	0.5	4.0
50N 180W	3.5	0.5	3.9
60N 180W	4.0	0.9	4.7
70N 180W	3.0	0.5	3.4
80N 180W	3.9	0.8	4.5
90N 180W	4.1	0.4	4.4
100N 180W	3.8	0.9	4.4
110N 180W	3.4	0.5	3.7
120N 180W	3.6	0.7	4.2
130N 180W	3.5	0.8	4.0
140N 180W	3.5	0.8	4.0
150N 180W	3.8	0.7	4.3
160N 180W	3.6	0.7	4.2
170N 180W	3.9	1.0	4.6
180N 180W	3.9	0.6	4.3
190N 180W	4.4	0.5	4.7
200N 180W	5.0	0.9	5.7
210N 180W	4.4	0.9	5.0
220N 180W	5.0	0.8	5.5
230N 180W	4.4	1.2	5.2
240N 180W	5.0	1.1	5.8
250N 180W	4.8	0.9	5.4
260N 180W	4.4	0.5	4.7
270N 180W	4.0	0.8	4.5

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
280N 180W	4.1	0.6	4.6
290N 180W	4.4	0.5	4.7
300N 180W	4.5	0.8	5.0
310N 180W	4.1	1.1	4.9
320N 180W	3.9	0.6	4.3
330N 180W	4.0	0.9	4.7
340N 180W	3.6	0.5	4.0
350N 180W	3.3	1.0	4.0
360N 180W	4.0	0.8	4.5
370N 180W	4.1	1.1	4.9
380N 180W	4.1	1.0	4.8
390N 180W	4.0	0.8	4.5
400N 180W	3.9	0.8	4.5
410N 180W	3.6	0.5	4.0
420N 180W	3.3	1.0	4.0
430N 180W	3.4	0.7	3.9
440N 180W	3.9	0.6	4.3
50S 170W	3.8	0.5	4.1
40S 170W	3.6	0.5	4.0
30S 170W	3.8	0.5	4.1
20S 170W	3.5	0.5	3.9
10S 170W	3.6	0.5	4.0
50N 170W	3.3	0.9	3.9
60N 170W	3.8	0.7	4.3
70N 170W	3.4	0.9	4.0
80N 170W	4.0	0.8	4.5
90N 170W	3.3	0.9	3.9
100N 170W	3.6	0.7	4.2
110N 170W	4.0	0.8	4.5
120N 170W	3.8	0.9	4.4
130N 170W	3.3	0.7	3.8
140N 170W	3.4	0.5	3.7
150N 170W	3.9	0.8	4.5
160N 170W	3.8	0.9	4.4
170N 170W	4.5	0.9	5.2
180N 170W	4.8	0.5	5.1
190N 170W	4.4	0.7	4.9
200N 170W	4.5	0.5	4.9
210N 170W	4.9	0.6	5.3
220N 170W	4.5	1.4	5.5
230N 170W	4.8	0.5	5.1
240N 170W	4.5	0.5	4.9
250N 170W	4.1	0.8	4.7
260N 170W	4.1	0.6	4.6

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
270N 170W	4.1	0.8	4.7
280N 170W	4.5	0.5	4.9
290N 170W	4.4	0.9	5.0
300N 170W	3.9	1.1	4.7
310N 170W	3.9	0.8	4.5
320N 170W	4.0	0.5	4.4
330N 170W	3.5	1.2	4.4
340N 170W	3.9	0.6	4.3
350N 170W	4.0	0.9	4.7
360N 170W	4.0	0.8	4.5
370N 170W	3.9	0.8	4.5
380N 170W	3.9	0.8	4.5
390N 170W	4.3	0.7	4.8
400N 170W	4.0	1.1	4.8
410N 170W	4.1	1.0	4.8
420N 170W	3.3	0.7	3.8
430N 170W	3.6	0.5	4.0
440N 170W	3.8	0.7	4.3
100S 160W	4.3	0.7	4.8
90S 160W	3.8	0.7	4.3
80S 160W	4.0	0.9	4.7
70S 160W	3.8	0.9	4.4
60S 160W	3.8	1.0	4.5
50S 160W	3.3	0.7	3.8
40S 160W	3.1	0.6	3.6
30S 160W	3.5	0.5	3.9
20S 160W	3.8	0.7	4.3
10S 160W	3.4	0.5	3.7
50N 160W	3.9	1.0	4.6
60N 160W	3.6	0.7	4.2
70N 160W	3.6	0.7	4.2
80N 160W	4.0	0.9	4.7
90N 160W	3.5	0.8	4.0
100N 160W	3.6	0.7	4.2
110N 160W	3.6	0.9	4.3
120N 160W	3.5	0.9	4.2
130N 160W	3.4	0.9	4.0
140N 160W	3.9	1.0	4.6
150N 160W	4.0	1.1	4.8
160N 160W	4.5	0.8	5.0
170N 160W	4.1	0.8	4.7
180N 160W	4.1	0.8	4.7
190N 160W	5.1	1.1	5.9
200N 160W	4.5	0.9	5.2

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
210N 160W	4.4	0.9	5.0
220N 160W	4.4	0.9	5.0
230N 160W	4.6	0.7	5.2
240N 160W	4.6	0.5	5.0
250N 160W	4.1	0.4	4.4
260N 160W	3.9	0.6	4.3
270N 160W	4.4	0.9	5.0
280N 160W	4.4	0.5	4.7
290N 160W	3.6	0.7	4.2
300N 160W	3.6	0.9	4.3
310N 160W	4.5	0.8	5.0
320N 160W	3.4	0.5	3.7
330N 160W	3.4	0.9	4.0
340N 160W	3.8	0.9	4.4
350N 160W	3.8	1.2	4.6
360N 160W	3.1	0.6	3.6
370N 160W	3.5	1.1	4.3
380N 160W	3.6	0.9	4.3
390N 160W	4.0	1.2	4.9
400N 160W	4.6	0.5	5.0
410N 160W	3.9	0.8	4.5
420N 160W	3.3	0.9	3.9
430N 160W	4.5	0.5	4.9
440N 160W	3.8	0.9	4.4
100S 150W	3.8	1.2	4.6
90S 150W	3.6	0.5	4.0
80S 150W	4.0	0.8	4.5
70S 150W	3.9	1.4	4.8
60S 150W	4.1	0.8	4.7
50S 150W	3.5	0.5	3.9
40S 150W	3.4	0.5	3.7
30S 150W	3.6	0.5	4.0
20S 150W	3.6	0.5	4.0
10S 150W	4.0	0.5	4.4
50N 150W	3.8	0.9	4.4
60N 150W	3.5	0.9	4.2
70N 150W	3.5	1.1	4.3
80N 150W	3.5	0.5	3.9
90N 150W	4.5	0.5	4.9
100N 150W	3.4	0.5	3.7
110N 150W	3.6	0.7	4.2
120N 150W	3.5	0.5	3.9
130N 150W	3.6	0.9	4.3
140N 150W	4.5	0.5	4.9

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
150N 150W	4.0	1.1	4.8
160N 150W	4.1	0.8	4.7
170N 150W	5.3	0.5	5.6
180N 150W	5.1	1.2	6.0
190N 150W	4.3	0.9	4.9
200N 150W	4.6	0.9	5.3
210N 150W	4.6	0.7	5.2
220N 150W	4.4	0.7	4.9
230N 150W	4.4	0.9	5.0
240N 150W	3.8	0.7	4.3
250N 150W	4.4	0.7	4.9
260N 150W	4.6	0.9	5.3
270N 150W	3.8	0.7	4.3
280N 150W	3.9	0.8	4.5
290N 150W	3.9	1.1	4.7
300N 150W	4.3	1.0	5.0
310N 150W	3.9	0.8	4.5
320N 150W	4.5	0.8	5.0
330N 150W	4.0	1.1	4.8
340N 150W	3.8	0.7	4.3
350N 150W	3.9	0.8	4.5
360N 150W	3.6	0.7	4.2
370N 150W	3.5	0.5	3.9
380N 150W	3.5	0.8	4.0
390N 150W	3.8	1.0	4.5
400N 150W	3.1	0.6	3.6
410N 150W	4.3	0.7	4.8
420N 150W	3.4	0.5	3.7
430N 150W	3.6	0.7	4.2
440N 150W	4.1	0.8	4.7
100S 140W	5.3	0.7	5.8
90S 140W	4.0	1.2	4.9
80S 140W	3.4	0.7	3.9
70S 140W	3.8	0.7	4.3
60S 140W	4.3	0.5	4.6
50S 140W	3.9	0.4	4.1
40S 140W	3.5	0.5	3.9
30S 140W	3.6	0.5	4.0
20S 140W	3.3	0.5	3.6
10S 140W	3.6	0.5	4.0
0S 140W	3.6	0.5	4.0
10N 140W	3.8	0.7	4.3
20N 140W	3.9	0.6	4.3
30N 140W	4.3	0.7	4.8

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
40N 140W	4.1	0.6	4.6
50N 140W	3.5	0.5	3.9
60N 140W	3.4	0.5	3.7
70N 140W	3.9	0.4	4.2
80N 140W	3.9	0.6	4.4
90N 140W	4.3	1.4	5.2
100N 140W	3.9	1.0	4.5
110N 140W	4.5	0.8	5.0
120N 140W	3.7	0.4	3.9
130N 140W	4.9	0.6	5.3
140N 140W	3.9	0.8	4.4
150N 140W	3.9	0.9	4.5
160N 140W	4.8	0.7	5.2
170N 140W	5.8	0.6	6.2
180N 140W	5.6	1.2	6.4
190N 140W	5.8	1.2	6.6
200N 140W	4.9	1.0	5.6
210N 140W	4.6	0.5	5.0
220N 140W	4.7	1.1	5.4
230N 140W	5.8	1.0	6.5
240N 140W	4.4	1.1	5.1
250N 140W	4.6	0.8	5.1
260N 140W	5.1	1.1	5.8
270N 140W	4.8	1.2	5.5
290N 140W	5.2	1.3	6.1
300N 140W	4.1	0.6	4.6
310N 140W	4.1	0.4	4.4
320N 140W	4.4	0.9	5.0
330N 140W	3.8	0.5	4.1
340N 140W	3.6	0.5	4.0
350N 140W	3.8	0.7	4.3
360N 140W	4.4	0.7	4.9
370N 140W	4.1	0.6	4.6
380N 140W	3.8	1.0	4.5
390N 140W	3.5	0.8	4.0
400N 140W	3.8	0.9	4.4
410N 140W	3.9	0.8	4.5
420N 140W	4.5	0.5	4.9
430N 140W	4.4	0.7	4.9
440N 140W	3.9	0.6	4.3
100S 130W	4.5	1.2	5.4
90S 130W	4.3	0.7	4.8
80S 130W	4.4	0.7	4.9
70S 130W	3.5	1.1	4.3

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
60S 130W	3.8	0.5	4.1
50S 130W	3.4	0.7	3.9
40S 130W	3.5	0.5	3.9
30S 130W	3.5	0.5	3.9
20S 130W	3.8	0.9	4.4
10S 130W	3.1	0.6	3.6
0S 130W	4.1	0.6	4.6
10N 130W	3.8	1.0	4.5
20N 130W	4.5	0.8	5.0
30N 130W	4.3	0.7	4.8
40N 130W	4.1	0.6	4.6
50N 130W	3.8	0.9	4.4
60N 130W	3.8	0.9	4.4
70N 130W	4.6	0.7	5.0
80N 130W	3.9	1.0	4.5
90N 130W	4.6	0.9	5.2
100N 130W	3.9	0.7	4.3
110N 130W	4.1	1.0	4.8
120N 130W	3.9	1.0	4.6
130N 130W	4.2	0.8	4.7
140N 130W	5.1	1.0	5.8
150N 130W	5.3	0.7	5.7
160N 130W	6.0	1.3	6.8
170N 130W	5.8	1.4	6.7
180N 130W	4.9	0.7	5.4
190N 130W	5.1	1.0	5.8
200N 130W	5.4	1.1	6.2
210N 130W	4.9	0.8	5.4
220N 130W	5.3	0.6	5.7
230N 130W	4.8	1.1	5.5
240N 130W	4.4	0.9	5.0
250N 130W	4.5	0.8	5.0
260N 130W	4.8	0.5	5.1
270N 130W	5.1	1.0	5.8
280N 130W	5.3	0.9	5.9
290N 130W	5.1	0.6	5.5
300N 130W	3.8	0.5	4.1
310N 130W	3.8	0.7	4.3
320N 130W	4.0	1.1	4.8
330N 130W	4.1	0.6	4.6
340N 130W	3.6	0.5	4.0
350N 130W	4.8	0.5	5.1
360N 130W	3.8	0.7	4.3
370N 130W	4.1	0.8	4.7

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
380N 130W	4.1	0.8	4.7
390N 130W	3.6	0.7	4.2
400N 130W	4.0	1.1	4.8
410N 130W	3.5	0.8	4.0
420N 130W	4.4	0.5	4.7
430N 130W	4.3	0.5	4.6
440N 130W	4.0	0.9	4.7
100S 120W	5.3	0.7	5.8
90S 120W	3.5	0.8	4.0
80S 120W	4.1	0.8	4.7
70S 120W	3.6	0.7	4.2
60S 120W	3.6	0.5	4.0
50S 120W	3.5	0.5	3.9
40S 120W	3.6	0.5	4.0
30S 120W	3.4	0.5	3.7
20S 120W	3.5	0.5	3.9
10S 120W	3.1	0.6	3.6
0S 120W	4.0	0.8	4.5
10N 120W	3.9	0.8	4.5
20N 120W	3.8	0.7	4.3
30N 120W	4.1	0.6	4.6
40N 120W	3.9	0.6	4.3
50N 120W	3.6	0.5	4.0
60N 120W	3.6	0.5	4.0
70N 120W	4.0	0.8	4.5
80N 120W	4.1	0.6	4.5
90N 120W	5.0	0.9	5.6
100N 120W	4.6	1.3	5.4
110N 120W	4.1	0.7	4.6
120N 120W	4.4	0.7	4.9
130N 120W	4.9	1.3	5.8
140N 120W	4.8	0.4	5.1
150N 120W	5.2	1.0	5.9
160N 120W	5.3	1.5	6.3
170N 120W	5.3	1.0	6.0
180N 120W	4.9	1.1	5.7
190N 120W	5.1	1.3	5.9
200N 120W	5.0	0.8	5.5
210N 120W	4.8	0.9	5.3
220N 120W	4.5	0.8	5.0
230N 120W	4.6	0.7	5.1
250N 120W	4.3	0.9	4.8
260N 120W	5.1	1.1	5.9
270N 120W	4.6	1.3	5.4

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
280N 120W	5.3	0.6	5.7
290N 120W	4.8	1.0	5.4
300N 120W	3.3	0.9	3.9
310N 120W	4.4	0.5	4.7
320N 120W	3.8	0.9	4.4
330N 120W	3.4	0.7	3.9
340N 120W	3.6	0.5	4.0
350N 120W	3.9	0.8	4.5
360N 120W	3.3	0.7	3.8
370N 120W	3.8	0.7	4.3
380N 120W	4.0	0.8	4.5
390N 120W	3.1	0.8	3.7
400N 120W	4.0	0.9	4.7
410N 120W	3.6	0.9	4.3
420N 120W	4.3	0.7	4.8
430N 120W	4.0	0.9	4.7
440N 120W	4.1	0.6	4.6
100S 110W	4.4	0.7	4.9
90S 110W	4.6	1.1	5.4
80S 110W	4.0	0.9	4.7
70S 110W	3.6	0.9	4.3
60S 110W	3.9	0.6	4.3
50S 110W	3.9	0.6	4.3
40S 110W	3.7	0.8	4.3
30S 110W	3.6	0.5	4.0
20S 110W	3.4	0.5	3.7
10S 110W	3.3	0.5	3.6
0S 110W	4.1	0.6	4.6
10N 110W	4.3	0.9	4.9
20N 110W	4.1	0.6	4.6
30N 110W	3.9	0.6	4.3
40N 110W	4.8	0.7	5.3
50N 110W	3.8	0.7	4.3
60N 110W	3.8	0.5	4.1
70N 110W	4.8	1.1	5.5
80N 110W	4.7	0.7	5.1
90N 110W	4.1	1.1	4.9
100N 110W	4.4	1.0	5.0
110N 110W	4.7	0.9	5.3
120N 110W	4.6	1.1	5.3
130N 110W	5.2	0.8	5.7
140N 110W	4.3	0.4	4.6
150N 110W	5.3	0.5	5.7
160N 110W	4.8	0.5	5.2

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
170N 110W	5.5	0.7	6.0
180N 110W	4.9	1.0	5.5
190N 110W	4.8	1.1	5.6
200N 110W	4.8	1.0	5.5
210N 110W	4.6	0.9	5.2
220N 110W	4.6	0.8	5.2
230N 110W	5.1	0.9	5.7
240N 110W	4.4	1.0	5.1
250N 110W	4.9	0.4	5.1
260N 110W	5.3	0.7	5.7
270N 110W	5.9	0.6	6.3
280N 110W	4.4	0.5	4.8
290N 110W	5.0	0.5	5.4
300N 110W	3.9	0.8	4.5
310N 110W	4.0	0.5	4.4
320N 110W	4.1	0.6	4.6
330N 110W	3.8	0.9	4.4
340N 110W	3.8	0.7	4.3
350N 110W	4.1	0.8	4.7
360N 110W	4.5	0.9	5.2
370N 110W	4.0	0.8	4.5
380N 110W	4.4	0.5	4.7
390N 110W	3.5	1.1	4.3
400N 110W	4.0	0.5	4.4
410N 110W	3.5	0.9	4.2
420N 110W	3.8	0.7	4.3
430N 110W	3.5	0.8	4.0
440N 110W	3.8	0.5	4.1
100S 100W	4.4	0.9	5.0
90S 100W	4.1	0.6	4.6
80S 100W	4.3	0.9	4.9
70S 100W	4.6	1.1	5.4
60S 100W	4.8	0.5	5.1
50S 100W	3.5	0.5	3.9
40S 100W	3.1	0.4	3.4
30S 100W	3.5	0.5	3.9
20S 100W	3.5	0.8	4.0
10S 100W	3.4	0.5	3.7
0S 100W	4.0	0.0	4.0
10N 100W	4.9	0.8	5.5
20N 100W	4.4	0.7	4.9
30N 100W	4.6	0.7	5.2
40N 100W	4.4	0.7	4.9
50N 100W	4.0	0.5	4.4

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
60N 100W	3.8	0.5	4.1
70N 100W	4.2	0.7	4.7
80N 100W	4.4	0.8	5.0
90N 100W	4.3	0.8	4.8
100N 100W	4.3	1.0	4.9
110N 100W	4.5	0.8	5.1
120N 100W	5.6	1.0	6.2
130N 100W	5.5	1.0	6.2
140N 100W	5.8	1.0	6.4
150N 100W	5.4	0.8	6.0
160N 100W	5.1	1.1	5.9
170N 100W	4.3	0.9	4.9
180N 100W	4.8	0.5	5.1
190N 100W	4.4	0.9	5.0
200N 100W	3.8	0.4	4.0
210N 100W	4.2	0.9	4.8
220N 100W	4.3	0.8	4.8
230N 100W	4.4	1.1	5.2
240N 100W	4.5	0.8	5.0
250N 100W	4.9	1.2	5.7
260N 100W	4.4	0.5	4.7
270N 100W	4.9	0.8	5.5
280N 100W	5.4	0.7	5.9
290N 100W	5.5	0.6	5.9
300N 100W	3.4	0.5	3.7
310N 100W	4.3	0.9	4.9
320N 100W	3.8	0.9	4.4
330N 100W	3.8	0.7	4.3
340N 100W	3.8	0.7	4.3
350N 100W	4.1	0.6	4.6
360N 100W	4.3	0.7	4.8
370N 100W	4.1	0.4	4.4
380N 100W	3.9	1.1	4.7
390N 100W	4.1	0.4	4.4
400N 100W	3.6	0.5	4.0
410N 100W	3.9	0.6	4.3
420N 100W	4.0	0.6	4.5
430N 100W	4.3	0.9	4.9
440N 100W	3.8	0.7	4.3
100S 90W	3.6	0.5	4.0
90S 90W	4.4	1.2	5.2
80S 90W	3.5	0.5	3.9
70S 90W	4.4	1.1	5.1
60S 90W	4.3	1.4	5.2

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
50S 90W	3.9	0.8	4.5
40S 90W	3.9	1.0	4.6
30S 90W	4.0	0.8	4.5
20S 90W	3.8	0.5	4.1
10S 90W	3.5	0.9	4.2
0S 90W	3.8	1.3	4.7
10N 90W	3.6	0.5	4.0
20N 90W	3.8	1.2	4.6
30N 90W	3.6	1.1	4.4
40N 90W	3.0	0.5	3.4
50N 90W	4.1	0.7	4.6
60N 90W	4.3	0.4	4.6
70N 90W	4.3	1.1	5.0
80N 90W	4.4	1.0	5.1
90N 90W	5.1	1.1	5.8
100N 90W	5.3	1.1	6.0
110N 90W	5.3	0.9	5.9
120N 90W	5.8	1.0	6.4
130N 90W	5.0	1.0	5.6
140N 90W	5.8	1.0	6.5
150N 90W	5.9	1.2	6.7
160N 90W	5.8	1.3	6.7
170N 90W	5.0	1.0	5.6
180N 90W	4.6	1.2	5.4
190N 90W	4.6	0.7	5.0
200N 90W	4.7	0.9	5.3
210N 90W	4.8	1.1	5.5
220N 90W	5.4	1.2	6.3
230N 90W	4.4	0.7	4.9
240N 90W	4.5	1.1	5.2
100S 80W	2.9	1.0	3.6
90S 80W	3.8	0.7	4.3
80S 80W	4.3	0.9	4.9
70S 80W	3.9	0.6	4.3
60S 80W	3.5	0.5	3.9
50S 80W	4.0	0.9	4.7
40S 80W	4.1	0.8	4.7
30S 80W	3.9	0.4	4.1
20S 80W	4.0	0.8	4.5
10S 80W	3.6	0.5	4.0
0S 80W	X		
10N 80W	X		
20N 80W	3.8	0.5	4.1
30N 80W	3.6	0.5	4.0

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
40N 80W	3.9	1.0	4.6
50N 80W	4.2	0.8	4.7
60N 80W	4.6	0.6	4.9
70N 80W	4.3	0.7	4.7
80N 80W	4.3	0.9	4.8
90N 80W	6.0	1.3	6.8
100N 80W	5.4	0.7	5.9
110N 80W	5.3	1.0	6.0
120N 80W	4.5	1.0	5.1
130N 80W	4.9	0.9	5.5
140N 80W	4.7	1.1	5.4
150N 80W	5.1	1.1	5.8
160N 80W	4.2	0.7	4.7
170N 80W	4.4	1.3	5.3
180N 80W	4.3	1.1	5.0
190N 80W	4.6	0.7	5.1
200N 80W	4.4	1.3	5.3
210N 80W	4.3	0.8	4.9
220N 80W	4.6	1.4	5.6
230N 80W	3.3	0.5	3.6
240N 80W	4.3	0.8	4.8
100S 70W	4.4	0.9	5.0
90S 70W	4.3	0.7	4.8
80S 70W	3.9	0.6	4.3
70S 70W	3.5	0.8	4.0
60S 70W	4.0	0.5	4.4
50S 70W	4.0	0.8	4.5
40S 70W	4.6	0.5	5.0
30S 70W	4.0	0.8	4.5
20S 70W	4.1	0.8	4.7
10S 70W	3.9	0.6	4.3
0S 70W	X		
10N 70W	X		
20N 70W	3.6	0.7	4.2
30N 70W	3.6	1.1	4.4
40N 70W	3.6	0.5	4.0
50N 70W	5.1	0.8	5.7
60N 70W	5.3	1.1	6.0
70N 70W	4.6	1.0	5.3
80N 70W	5.1	0.7	5.6
90N 70W	5.5	0.8	6.1
100N 70W	4.9	0.4	5.2
110N 70W	5.4	0.6	5.9
120N 70W	5.0	1.0	5.7

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
130N 70W	4.4	0.8	5.0
140N 70W	5.2	1.0	5.9
150N 70W	4.9	1.1	5.6
160N 70W	4.8	0.6	5.2
170N 70W	4.7	0.5	5.0
180N 70W	4.6	0.7	5.1
190N 70W	4.5	1.0	5.1
200N 70W	4.5	0.8	5.0
210N 70W	4.6	0.8	5.2
220N 70W	4.8	0.5	5.1
230N 70W	4.8	0.7	5.2
240N 70W	4.8	0.8	5.3
100S 60W	4.1	1.0	4.8
90S 60W	3.4	0.5	3.7
80S 60W	3.8	0.9	4.4
70S 60W	3.8	0.7	4.3
60S 60W	4.3	0.5	4.6
50S 60W	4.1	0.8	4.7
40S 60W	4.3	0.5	4.6
30S 60W	4.3	0.9	4.9
20S 60W	4.2	0.8	4.7
10S 60W	3.6	0.8	4.2
0S 60W	X		
10N 60W	X		
20N 60W	3.8	0.9	4.4
30N 60W	3.9	0.6	4.3
40N 60W	4.3	0.5	4.6
50N 60W	6.1	1.3	6.9
60N 60W	5.1	1.1	5.8
70N 60W	4.9	1.2	5.7
80N 60W	5.5	0.6	6.0
90N 60W	5.8	0.7	6.2
100N 60W	5.8	0.7	6.2
110N 60W	4.9	1.1	5.6
120N 60W	4.5	0.8	5.1
130N 60W	5.1	0.7	5.6
140N 60W	3.9	1.0	4.6
150N 60W	4.6	0.8	5.2
160N 60W	5.0	0.9	5.6
170N 60W	4.4	0.5	4.7
180N 60W	4.6	0.5	5.0
190N 60W	3.7	0.6	4.1
200N 60W	4.4	0.8	4.9
210N 60W	4.1	0.3	4.3

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
220N 60W	3.9	0.6	4.4
230N 60W	3.8	0.7	4.2
240N 60W	4.5	0.8	5.1
100S 50W	4.5	0.9	5.2
90S 50W	3.8	0.9	4.4
80S 50W	3.6	0.7	4.2
70S 50W	3.6	0.7	4.2
60S 50W	3.8	0.7	4.3
50S 50W	4.0	0.8	4.5
40S 50W	4.3	0.9	4.9
30S 50W	4.0	0.8	4.5
20S 50W	3.8	0.5	4.1
10S 50W	3.2	0.5	3.6
0S 50W	X		
10N 50W	X		
20N 50W	3.8	0.9	4.4
30N 50W	4.1	1.0	4.8
40N 50W	4.6	1.1	5.4
50N 50W	5.3	1.0	5.9
60N 50W	5.1	1.0	5.8
70N 50W	5.1	0.8	5.7
80N 50W	5.4	0.9	6.0
90N 50W	5.4	1.4	6.3
100N 50W	6.0	0.6	6.4
110N 50W	5.6	0.8	6.2
120N 50W	4.6	1.2	5.4
130N 50W	5.2	1.1	5.9
140N 50W	4.3	0.8	4.8
150N 50W	4.9	0.7	5.4
160N 50W	4.9	1.2	5.7
170N 50W	4.8	1.3	5.6
180N 50W	4.3	1.0	5.0
190N 50W	5.2	0.9	5.8
200N 50W	4.3	1.0	4.9
210N 50W	4.4	1.0	5.0
220N 50W	4.8	0.8	5.4
230N 50W	4.8	0.7	5.2
240N 50W	3.8	0.5	4.2
100S 40W	3.4	0.5	3.7
90S 40W	4.5	0.8	5.0
80S 40W	3.6	0.7	4.2
70S 40W	3.8	0.7	4.3
60S 40W	4.3	0.9	4.9
50S 40W	4.6	0.7	5.2

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
40S 40W	5.8	0.9	6.4
30S 40W	4.6	1.3	5.6
20S 40W	4.1	0.6	4.6
10S 40W	4.6	0.7	5.2
0S 40W	X		
10N 40W	X		
20N 40W	4.5	1.1	5.3
30N 40W	4.0	0.9	4.7
40N 40W	4.3	1.0	5.0
50N 40W	5.9	1.4	6.8
60N 40W	5.6	0.8	6.2
70N 40W	5.1	0.8	5.6
80N 40W	5.7	0.9	6.3
90N 40W	6.2	1.6	7.2
100N 40W	5.4	0.7	5.8
110N 40W	4.8	0.8	5.4
120N 40W	4.6	0.6	4.9
130N 40W	4.4	1.0	5.0
140N 40W	4.1	0.9	4.7
150N 40W	4.3	0.9	4.9
160N 40W	5.2	1.7	6.3
170N 40W	4.8	0.9	5.3
180N 40W	4.6	0.9	5.2
190N 40W	4.1	0.6	4.5
200N 40W	3.9	0.4	4.2
210N 40W	4.9	1.3	5.8
220N 40W	4.4	1.2	5.2
230N 40W	4.6	0.6	5.0
240N 40W	4.4	0.6	4.8
100S 30W	4.8	0.5	5.1
90S 30W	4.3	0.9	4.9
80S 30W	4.3	1.0	5.0
70S 30W	4.3	0.7	4.8
60S 30W	3.9	0.8	4.5
50S 30W	5.0	0.9	5.7
40S 30W	4.4	0.9	5.0
30S 30W	4.9	1.0	5.6
20S 30W	4.6	1.1	5.4
10S 30W	4.1	1.1	4.9
0S 30W	X		
10N 30W	X		
20N 30W	X		
30N 30W	3.6	0.7	4.2
40N 30W	5.1	1.0	5.8

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
50N 30W	5.6	0.7	6.1
60N 30W	5.9	1.1	6.7
70N 30W	5.2	0.5	5.5
80N 30W	5.4	0.5	5.7
90N 30W	5.5	0.8	6.0
100N 30W	4.9	0.6	5.3
110N 30W	4.8	0.5	5.1
120N 30W	4.5	0.5	4.8
130N 30W	4.6	0.6	4.9
140N 30W	4.2	0.7	4.7
150N 30W	4.4	0.6	4.8
160N 30W	4.5	0.7	4.9
170N 30W	5.3	0.9	5.8
180N 30W	4.4	0.5	4.8
190N 30W	4.4	0.6	4.8
200N 30W	4.7	1.2	5.5
210N 30W	3.6	0.7	4.1
220N 30W	4.4	0.7	4.9
230N 30W	4.7	0.6	5.1
240N 30W	3.9	0.6	4.3
100S 20W	3.9	0.8	4.5
90S 20W	4.4	1.2	5.2
80S 20W	3.9	0.8	4.5
70S 20W	3.8	0.7	4.3
60S 20W	3.9	0.8	4.5
50S 20W	4.0	1.1	4.8
40S 20W	4.0	1.3	4.9
30S 20W	4.3	0.7	4.8
20S 20W	4.5	0.5	4.9
10S 20W	4.9	0.6	5.3
0S 20W	X		
10N 20W	X		
20N 20W	X		
30N 20W	4.3	0.7	4.8
40N 20W	4.6	1.4	5.6
50N 20W	6.1	0.6	6.5
60N 20W	5.5	0.7	5.9
70N 20W	5.1	0.8	5.7
80N 20W	5.4	0.8	6.0
90N 20W	4.5	0.5	4.9
100N 20W	4.1	1.0	4.8
110N 20W	4.1	0.7	4.6
120N 20W	3.8	1.0	4.5
130N 20W	4.1	0.7	4.5

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
140N 20W	5.4	1.5	6.5
150N 20W	4.6	0.8	5.1
160N 20W	4.7	1.0	5.4
170N 20W	4.4	0.9	5.0
180N 20W	4.6	0.6	5.0
190N 20W	5.6	1.1	6.3
200N 20W	4.7	1.5	5.7
210N 20W	4.3	0.8	4.8
220N 20W	4.8	1.2	5.6
230N 20W	3.5	0.7	3.9
240N 20W	4.3	0.7	4.7
100S 10W	4.0	1.1	4.8
90S 10W	4.5	0.8	5.0
80S 10W	4.6	1.2	5.5
70S 10W	4.4	0.5	4.7
60S 10W	4.0	0.5	4.4
50S 10W	3.8	0.7	4.3
40S 10W	4.4	0.7	4.9
30S 10W	4.6	0.9	5.3
20S 10W	4.4	0.5	4.7
10S 10W	4.6	1.2	5.5
0S 10W	4.1	0.8	4.7
10N 10W	4.3	1.0	5.0
20N 10W	4.8	1.0	5.5
30N 10W	4.6	0.9	5.3
40N 10W	5.0	1.3	5.9
50N 10W	4.4	0.5	4.7
60N 10W	4.5	0.5	4.9
70N 10W	4.1	0.6	4.6
80N 10W	3.8	0.7	4.3
90N 10W	3.8	0.7	4.3
100N 10W	4.0	0.5	4.4
110N 10W	3.8	0.5	4.1
120N 10W	3.9	0.6	4.3
130N 10W	4.0	0.8	4.5
140N 10W	3.9	0.8	4.5
150N 10W	5.5	1.0	6.2
160N 10W	4.3	0.8	4.8
170N 10W	4.8	1.0	5.5
180N 10W	4.9	1.1	5.6
190N 10W	4.9	1.0	5.6
200N 10W	4.6	0.9	5.2
210N 10W	4.5	0.6	4.9
220N 10W	4.3	1.3	5.2

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
230N 10W	4.8	0.5	5.2
240N 10W	4.0	0.6	4.4
100S 0E	3.8	0.7	4.3
90S 0E	3.9	0.8	4.5
80S 0E	3.6	0.7	4.2
70S 0E	5.0	1.1	5.8
60S 0E	3.9	0.6	4.3
50S 0E	4.4	0.7	4.9
40S 0E	4.5	0.5	4.9
30S 0E	4.8	1.2	5.6
20S 0E	4.0	0.9	4.7
10S 0E	5.1	1.4	6.1
0S 0E	4.3	0.7	4.8
10N 0E	4.6	0.9	5.3
20N 0E	4.8	0.7	5.3
30N 0E	5.1	1.0	5.8
40N 0E	5.5	0.5	5.9
50N 0E	4.3	0.7	4.8
60N 0E	4.4	0.7	4.9
70N 0E	3.6	0.5	4.0
80N 0E	4.0	0.8	4.5
90N 0E	3.8	1.0	4.5
100N 0E	3.9	0.6	4.3
110N 0E	3.4	0.5	3.7
120N 0E	3.6	0.5	4.0
130N 0E	4.0	0.8	4.5
140N 0E	3.8	0.5	4.1
150N 0E	5.0	0.8	5.5
160N 0E	4.8	0.7	5.2
170N 0E	5.1	0.9	5.6
180N 0E	3.9	0.8	4.5
190N 0E	3.8	0.8	4.3
200N 0E	4.7	0.6	5.1
210N 0E	4.0	1.1	4.8
220N 0E	4.3	1.1	5.1
230N 0E	4.6	1.1	5.4
240N 0E	4.4	1.1	5.2
100S 10E	3.4	0.5	3.7
90S 10E	3.9	0.6	4.3
80S 10E	3.8	0.9	4.4
70S 10E	4.0	0.8	4.5
60S 10E	3.6	0.5	4.0
50S 10E	3.5	0.5	3.9
40S 10E	3.9	0.7	4.4

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
30S 10E	3.5	0.8	4.0
20S 10E	3.5	0.5	3.9
10S 10E	3.9	1.0	4.6
100S 20E	3.4	0.7	3.9
90S 20E	3.3	0.5	3.6
80S 20E	3.8	0.5	4.1
70S 20E	3.8	1.0	4.5
60S 20E	3.6	0.7	4.2
50S 20E	3.8	0.7	4.3
40S 20E	3.5	0.5	3.9
30S 20E	3.6	0.9	4.3
20S 20E	3.8	0.5	4.1
10S 20E	5.0	0.9	5.7
100S 30E	3.3	0.5	3.6
90S 30E	3.8	0.7	4.3
80S 30E	3.3	0.5	3.6
70S 30E	3.6	0.7	4.2
60S 30E	3.4	0.5	3.7
50S 30E	3.9	0.6	4.3
40S 30E	3.3	0.5	3.6
30S 30E	3.4	0.5	3.7
20S 30E	4.1	0.6	4.6
10S 30E	5.0	0.5	5.4
100S 40E	3.4	0.5	3.7
90S 40E	3.3	0.5	3.7
80S 40E	4.0	0.6	4.4
70S 40E	3.6	0.5	4.0
60S 40E	3.9	0.4	4.1
50S 40E	4.0	0.5	4.4
40S 40E	3.6	0.7	4.2
30S 40E	3.5	0.7	4.0
20S 40E	4.0	0.0	4.0
10S 40E	5.4	0.5	5.7
100S 50E	3.9	0.6	4.3
90S 50E	3.0	0.0	3.0
80S 50E	3.0	0.0	3.0
70S 50E	3.8	0.5	4.1
60S 50E	3.6	0.5	4.0
50S 50E	3.9	0.6	4.3
40S 50E	3.9	0.6	4.3
30S 50E	X		
20S 50E	3.9	0.4	4.1
10S 50E	4.1	0.4	4.4
100S 60E	X		

Summary Table of Dose Rate Readings

LOCATION	Dose Rate at 1 meter (microRem/hour) Grid Avg	Grid STD	Grid 95th
90S 60E	X		
80S 60E	X		
70S 60E	3.8	0.5	4.1
60S 60E	4.1	0.6	4.6
50S 60E	4.3	0.5	4.6
40S 60E	3.5	0.5	3.9
30S 60E	X		
20S 60E	3.8	0.7	4.3
10S 60E	4.8	0.9	5.4

Appendix D

Soil Sampling and Analysis Results

TAB D: Soil sampling and Analysis results

Soil samples were obtained from five grid blocks to determine variation in uniformity in soil concentration across an area of 10 m x 10 m. These grids were separated across the investigation study area. Additional soil samples at single positions were obtained to evaluate specific terrain conditions, e.g. stream sediments and plowed fields. The locations of the Detailed Grids and other soil sampling locations are shown on Figure 4-4. Descriptions of the locations are provided in Table 4-2.

Methods

Soil samples were collected using the sampling procedure in Field Procedure FP-8, included in the Technical Work Plan. At each location, soil plugs, 2 inch (5 cm) in diameter, were collected at layers of 0-6 inches (0-15 cm), and 6-12 inches (15-30 cm), using an AMS brand Soil Core Sampler with removable aluminum liner. The initial soil plug was divided into samples representing depths 0-2 inches (0-5 cm), 2-4 inches (5-10 cm) and 4-6 inches (10-15 cm), and these samples were submitted to the contract laboratory for analysis of moisture content and Cs-137.

The contract laboratory analysis method assured that results were report with an uncertainty (95% confidence interval) of ± 10% of the Cs-137 activity in the soil. Thus variations between samples of greater than 10% are interpreted as a variation in the distribution of the Cs-137 in the soil.

Data Quality Assurance

Fifty-two additional samples, 27 field duplicates and 25 laboratory splits representing 30% of the 169 primary samples were submitted to the contract laboratory and to the NYS Department of Health (DOH) Laboratory, which is an EPA certified analytical laboratory. Samples were to be provided to the NYS Department of Environmental Conservation (DEC) on request. The DEC was on the site during the sampling and measurements at DG#1 and field split samples were exchanged. A comparison of the results of quality assurance analyses of split samples are compiled and provided as a table.

Intra-Laboratory Evaluation

The contract laboratory received 36 QA samples, composed of 11 duplicate samples split by field personnel and 25 double volume samples for the laboratory to split. Each matched sample result was compared to the initial analysis to determine the relative percent difference (RPD) of the replicate result to the initial result.

- For the 11 field duplicates, all samples with activity over 2 pCi/g were reported with RPD ≤ 20 %.
- For the 25 laboratory duplicates, three samples of 14 with activity over 2 pCi/g were reported with RPD ≤ 20%.

Inter-Laboratory Evaluation

For the coarse grid survey (Phase I) ten samples were split in the field with half of the volume sent to the contract laboratory and the other half sent to the DOH laboratory. Four of five samples with activity greater than 2 pCi/g had a relative percent difference greater than 20%. For each matched sample pair, the DOH laboratory analysis result was compared to the contract laboratory analysis result using linear regression analysis. A graph of the correlation is provided. This comparison indicated a strong linear correlation ($R^2 = 0.97$) between the two laboratory results. The slope coefficient for the regression was 0.82, indicating that the DOH reported results were systematically biased at 18% less than the result reported by the contract laboratory.

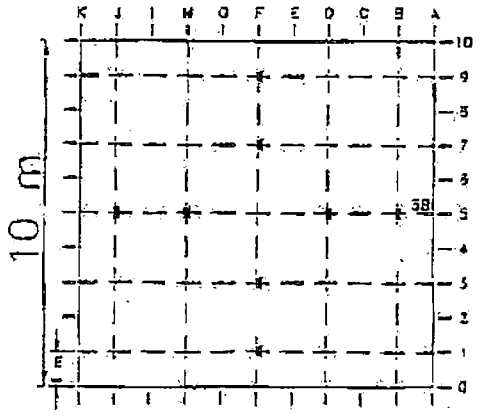
For the fine grid survey (Phase II) sixteen samples were split. Six of ten samples with activity greater than 2 pCi/g had a relative percent difference greater than 20%. For each matched sample pair, the DOH laboratory analysis result was compared to the contract laboratory analysis result using linear regression analysis. A graph of the correlation is provided. This comparison indicated a strong linear correlation ($R^2 = 0.97$) between the two laboratory results. The slope coefficient for the regression was 0.76, indicating that the DOH reported results were systematically biased at 24% less than the result reported by the contract laboratory.

Table
Detailed Grids Used to Evaluate
Local Scale Deposition Variation

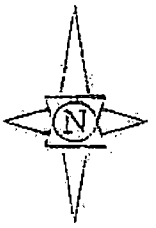
Designation	Location	Description
DG#1	80N 60W	undisturbed forest, moderate canopy, slight slope, good drainage, little ground cover
DG#2	150N 100W	undisturbed forest, moderate canopy, little slope, poor drainage, numerous ferns
DG#3	10S 10E	undisturbed forest adjacent to driveway, moderate canopy, little slope, good drainage, surface leaves and twigs cleared by annual raking
DG#4	220N 170W	undisturbed forest, moderate canopy, moderate slope, good drainage, little ground cover
DG#5	490N 270W	undisturbed open area, little canopy, adjacent to cleared powerline ROW, little slope, wet ground with grass and low bushes

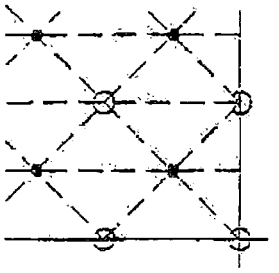
Enclosures

- A figure illustrating nomenclature convention for multiple sampling positions in a single 10 m x 10 m grid
- Summary tables of soil sample analysis results from phase I
- Summary table of soil sample analysis results from phase II
- Summary table of quality assurance soil sample analysis results
- Table and graph of correlation of inter-laboratory analysis results - Phase I
- Table and graph of correlation of inter-laboratory analysis results - Phase II

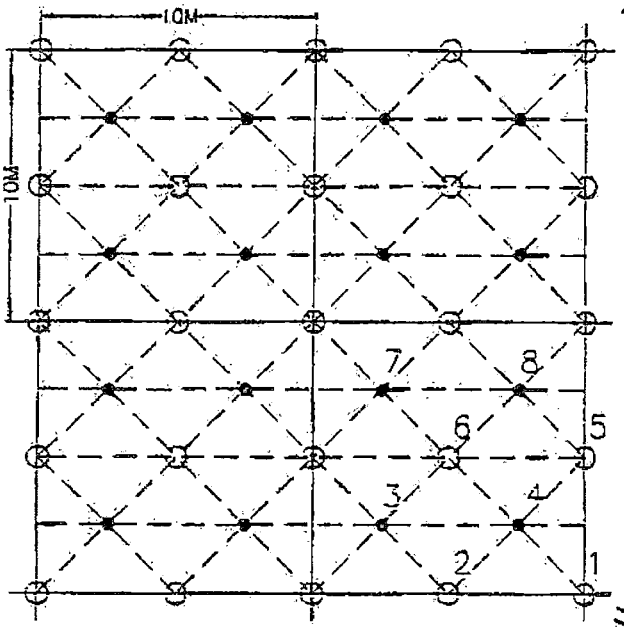


x SB SOIL SAMPLE LOCATION AND DESIGNATION



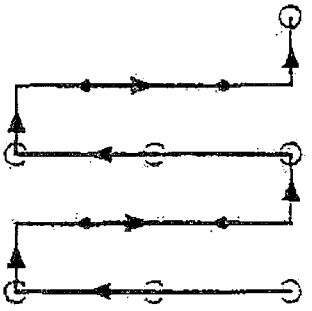


EIGHT SAMPLE LOCATIONS PER GRID



● SYSTEMATIC MEASUREMENT LOCATIONS

○ ADDITIONAL SYSTEMATIC MEASUREMENT LOCATIONS TO PROVIDE CLOSE-SPACED PATTERNS



PATH FOR SERPENTINE WALKOVER AT 2.5 METER INTERVAL

Source: NUREG/CR-5849 (NRC, 1992)

Figure 4-3
Walkover Patterns and Systematic Locations in the Fine Grid

DAMES & MOORE

April 4, 1995

SAMPGRID.DWG 04/04/95

TABLE 1. Soil Activity Sorted by Location Code

N - negative # NA - not analyzed for

Coarse Grid Location	Date Sampled	Location Identification Code	Sample Depth (in)	Laborator Sample Number	Quality Assurance Code	per cent Moisture	Radioactivity Concentration (pCi / g) Cs-137	Gross Alpha	Gross Beta	K-40	Ra-224	Ra-226	Th-234
Rt 240	02-Dec	AFRT2401	0"-4"	35932		39.6	1.0	5.9	33	12	2.9	1.6	0.0
Rt 240	02-Dec	AFRT2402	4"-10"	35935		32.0	0.35	5.9	37	14	1.6	1.4	0.48
Springville	02-Dec	AFSPRVL1	0"-4"	35931		17.7	0.32	13	39	12	3.1	1.9	N
Springville	02-Dec	AFSPRVL2	4"-10"	35934		12.3	0.07	5.9	35	13	2.7	1.2	0.30
West Valley	03-Dec	AFWEVAL1	0"-4"	35933		24.9	0.40	12	31	8.1	1.4	0.42	0.062
West Valley	03-Dec	AFWEVAL2	4"-10"	35936		18.3	0.23	14	34	11	2.7	1.5	0.14
L1	05-Dec	L1D1A	0"-4"	35921		44.6	6.7	13	42	13	2.2	2.8	N
L1	05-Dec	L1D1A	0"-4"	35921	recount	44.6	7.5	13	42	13	N	1.9	1.4
L1	05-Dec	L1D1B	0"-4"	DOH 845009		NA	5.6	NA	NA	11.8	NA	0.62	NA
L1	05-Dec	L1D2A	4"-10"	35922		36.3	1.1	11	37	14	2.5	1.9	0.30
L1	05-Dec	L1D2B	4"-10"	DOH 845010		NA	1.2	NA	NA	14.6	NA	0.73	NA
L2	05-Dec	L2D1A	0"-4"	35923		38.0	5.0	13	46	16	2.8	1.7	0.40
L2	05-Dec	L2D2A	4"-10"	35924		14.2	0.19	17	38	16	2.3	2.2	0.45
L3	05-Dec	L3D1AB	0"-4"	35925		38.2	5.4	12	42	15	N	1.8	0.54
L3	05-Dec	L3D1AB	0"-4"	DOH 845011		NA	4.8	NA	NA	12.8	NA	0.69	NA
L3	05-Dec	L3D2AB	4"-10"	35925		29.9	0.21	18	40	15	2.8	1.6	0.77
L3	05-Dec	L3D2AB	4"-10"	DOH 845012		NA	0.22	NA	NA	13.9	NA	0.82	NA
L4	05-Dec	L4D1A	0"-4"	35927		34.5	4.7	15	44	15	3.1	3.0	0.41
L4	05-Dec	L4D2A	4"-10"	35928		30.7	0.23	16	43	15	2.6	1.7	0.68
L5	05-Dec	L5D1AB	0"-4"	35929		32.0	4.5	8.0	36	11	3.4	1.5	0.0045
L5	05-Dec	L5D1AB	0"-4"	DOH 845013		NA	4.6	NA	NA	12.4	NA	0.67	NA
L5	05-Dec	L5D2AB	4"-10"	35930		28.2	0.64	13	31	12	2.1	2.0	0.34
L5	05-Dec	L5D2AB	4"-10"	DOH 845014		NA	0.54	NA	NA	11.0	NA	0.62	NA
L6	06-Dec	L6D1A	0"-4"	35941		36.0	2.8	9.4	42	13	2.5	1.7	0.23
L7	06-Dec	L7D1A	0"-4"	35940		45.4	3.0	7.9	40	14	3.0	1.6	0.017
L8	07-Dec	L8D1A	0"-4"	35945		34.5	3.2	NA	NA	12	2.1	1.2	0.34
L8	07-Dec	L8D1B	0"-4"	DOH 845015		NA	2.3	NA	NA	12.1	NA	0.78	NA
L8	07-Dec	L8D1A	0"-4"	35945	recount	38.7	3.2	5.9	38	11	2.8	1.5	0.40

TABLE 1. Soil Activity Sorted by Location Code

N - negative # NA - not analyzed for

Coarse Grid Location	Date Sampled	Location Identification Code	Sample Depth (in)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Cs-137	Gross Alpha	Gross Beta	Radioactivity Concentration (pCi / g) K-40	Ra-224	Ra-226	Th-234
L8	07-Dec	L8D1A DUP	0"-4"	41637	DUP	38.7	NA	5.0	3.5	NA	NA	NA	NA
L8	07-Dec	L8D2B	4"-10"	DOH 845016		NA	0.26	NA	NA	12.9	NA	0.88	NA
L9	07-Dec	L9D1A	0"-4"	35946		29.5	0.97	NA	NA	16	3.4	2.9	0.062
L10	07-Dec	L10D1A1	0"-4"	35947		17.2	0.43	NA	NA	13	1.1	1.5	0.27
L10	07-Dec	L10D1A2	0"-4"	DOH 845017		NA	0.40	NA	NA	12.9	NA	0.68	NA
L10	07-Dec	L10D2B	4"-10"	DOH 845018		NA	0.25	NA	NA	12.7	NA	0.77	NA
L11	08-Dec	L11D1A	0"-4"	35948		13.9	0.12	NA	NA	12	2.1	1.3	0.017
L12	08-Dec	L12D1A	0"-4"	35949		25.0	1.6	NA	NA	11	1.9	1.1	0.52
L12	08-Dec	L12D1B	0"-4"	DOH 845019		NA	0.88	NA	NA	12.7	NA	0.73	NA
L12	08-Dec	L12D2B	4"-10"	DOH 845020		NA	0.11	NA	NA	11.3	NA	0.69	NA
L13	08-Dec	L13D1A	0"-4"	35950		46.1	1.4	NA	NA	11	2.8	2.7	0.26
L14	08-Dec	L14D1A	0"-4"	35951		42.7	2.1	NA	NA	6.6	2.1	1.4	0.50
L15	09-Dec	L15D1A	0"-4"	35952		28.5	0.28	NA	NA	13	2.8	1.5	0.38
L16	09-Dec	L16D1A	0"-4"	35953		22.9	0.33	NA	NA	12	N	2.1	N
L17	09-Dec	L17D1A	0"-4"	35954		41.5	1.3	NA	NA	13	14	1.9	0.052
L18	09-Dec	L18D1A	0"-4"	35955		42.8	1.5	NA	NA	15	3.3	2.4	0.62
L19	09-Dec	L19D1A	0"-4"	35956		38.3	1.6	NA	NA	11	2.6	2.0	0.78
L20	10-Dec	L20D1A	0"-4"	35957		40.0	0.9	NA	NA	17	3.4	1.6	0.56
L21	12-Dec	L21D1A	0"-4"	35942		31.6	0.47	14	33	10	3.1	1.3	0.21
L22	11-Dec	L22D1A	0"-4"	35958		35.8	0.37	NA	NA	13	2.8	1.9	N
L23	06-Dec	L23D1A	0"-4"	35959		31.5	0.34	NA	NA	14	14	2.3	0.52
L24	14-Dec	L24D1A	0"-4"	35937		45.9	2.0	11	35	10	3.1	2.0	0.52
L25	14-Dec	L25D1A	0"-4"	35960		35.1	0.93	NA	NA	16	2.6	1.2	0.40
L26	14-Dec	L26D1A	0"-4"	35961		30.4	1.0	NA	NA	12	2.7	1.3	N
L27	13-Dec	L27D1A	0"-4"	35962		28.8	0.47	NA	NA	14	2.4	1.7	0.33
L28	13-Dec	L28D1A	0"-4"	35963		28.0	0.44	NA	NA	15	2.9	1.6	1.1
L29	15-Dec	L29D1A	0"-4"	35964		22.5	0.52	NA	NA	14	3.1	1.5	0.28

TABLE 1. Soil Activity Sorted by Location Code

N - negative # NA - not analyzed for

Coarse Grid Location	Date Sampled	Location Identification Code	Sample Depth (in)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Radioactivity Concentration (pCi/g) Cs-137	Gross Alpha	Gross Beta	K-40	Ra-224	Ra-226	Th-234
L30	07-Dec	L30D1A	0"-4"	35965		39.2	1.1	NA	NA	16	3.7	2.1	0.67
L31	13-Dec	L31D1A	0"-4"	35939		35.8	1.2	4.5	35	13	2.6	1.4	0.17
L32	12-Dec	L32D1A	0"-4"	35966		23.4	0.59	NA	NA	14	2.3	1.6	0.45
L33	14-Dec	L33D1A	0"-4"	35967		35.5	0.93	NA	NA	12	3.3	2.1	0.22
L34	13-Dec	L34D1A	0"-4"	35968		34.4	0.86	NA	NA	13	2.9	1.8	0.81
L35	13-Dec	L35D1A	0"-4"	35938		31.0	0.95	5.0	30	12	2.8	1.4	1.4
L36	08-Dec	L36D1A	0"-4"	35969		20.3	0.96	NA	NA	12	2.4	2.1	0.074
L37	10-Dec	L37D1A	0"-4"	35970		14.5	0.25	NA	NA	12	11	1.6	0.46
L37	10-Dec	L37D1A	0"-4"	35970	recount	11.4	0.24	12	31	12	2.5	2.2	0.31
L37	10-Dec	L37D1A DU	0"-4"	41639	DUP	11.4	NA	8.9	35	NA	NA	NA	NA
L38	10-Dec	L38D1A	0"-4"	35971		18.5	0.15	NA	NA	13	2.5	1.2	0.61
L39	12-Dec	L39D1A	0"-4"	35943		15.8	0.39	7.4	34	15	2.2	1.3	0.46
L40	15-Dec	L40D1A	0"-4"	35944		33.8	1.1	7.4	44	16	3.9	1.8	0.55
L41	15-Dec	L41D1A	0"-4"	35972		34.4	0.47	NA	NA	15	2.8	2.1	N
L42	15-Dec	L42D1A	0"-4"	35973		28.2	0.28	NA	NA	17	3.3	1.8	0.30
EP1	31-Jan	EP1D1	0"-4"	35977		41.3	12	13	45	12	3.2	1.9	0.46
EP1	31-Jan	EP1D2	4"-10"	35978		29.9	4.0	11	44	13	3.5	2.3	0.072
MW1	31-Jan	MW1D1	0"-4"	35974		31.5	7.3	7.5	45	14	3.0	2.2	0.69
MW1	31-Jan	MW1D2	4"-10"	35975		23.7	1.5	7.5	75	14	3.1	1.6	0.38
MW1	31-Jan	MW1D3	10"-16"	35976		30.1	1.3	15	47	17	N	2.5	1.8

TABLE 2. Soil Activity Sorted by Location Code, Additional Isotopic Analysis

N - negative #
NA - not analyzed for

Coarse Grid Location	Date Sampled	Location Identification Code	Sample Depth (ft)	Laboratory Sample Number	Radioactivity Concentration (pCi / g) Sr-90	U-235	U-238 (see note)	Pu-238	Pu-239	Am-241
Rt 240	02-Dec	AFRT2401	0'-4'	35932	0.3 +/- 0.07	N	0.13 +/- 0.05	0.0025 +/- 0.0247	N	0.0019 +/- 0.0187
Rt 240	02-Dec	AFRT2402	4'-10'	35935	0.2 +/- 0.04	N	0.12 +/- 0.04	0.0029 +/- 0.0284	0.014 +/- 0.036	0.0022 +/- 0.0128
Rt 240	02-Dec	AFRT2402 D	4'-10'	41633	0.6 +/- 0.07	0.002 +/- 0.005	0.11 +/- 0.03	0.0019 +/- 0.0189	0.017 +/- 0.029	0.0059 +/- 0.0159
Rt 240	02-Dec	AFRT2402 R	4'-10'	41963	0.22 +/- 0.07	0.0045 +/- 0.0076	0.084 +/- 0.027	0.003 +/- 0.0299	0.003 +/- 0.0299	0.014 +/- 0.017
Springvill	02-Dec	AFSPRVL1	0'-4'	35931	0.15 +/- 0.05	0.0011 +/- 0.0107	0.16 +/- 0.05	0.0015 +/- 0.0152	0.014 +/- 0.023	0.0086 +/- 0.0096
Springvill	02-Dec	AFSPRVL2	4'-10'	35934	0.087 +/- 0.035	0.00051 +/- 0.00512	0.056 +/- 0.022	N	N	0.0007 +/- 0.00703
West Vall	03-Dec	AFWEVAL1	0'-4'	35933	0.21 +/- 0.05	0.00068 +/- 0.00678	0.079 +/- 0.031	0.0022 +/- 0.0217	0.037 +/- 0.041	0.011 +/- 0.011
West Vall	03-Dec	AFWEVAL2	4'-10'	35936	0.16 +/- 0.05	0.0015 +/- 0.0089	0.06 +/- 0.023	0.0036 +/- 0.0356	N	0.00044 +/- 0.00441
L1	05-Dec	L1D1A	0'-4'	35921	0.44 +/- 0.07	0.0085 +/- 0.0125	0.12 +/- 0.07	N	0.002 +/- 0.0201	0.018 +/- 0.021
L1	05-Dec	L1D1B	0'-4'	DOH 845009	NA	NA	1.5	NA	NA	<0.05
L1	05-Dec	L1D1A DUP	0'-4'	41635	0.43 +/- 0.03	0.01 +/- 0.011	0.16 +/- 0.04	0.0011 +/- 0.0115	0.0069 +/- 0.0186	0.041 +/- 0.036
L1	05-Dec	L1D1A REC	0'-4'	41961	0.52 +/- 0.01	0.021 +/- 0.016	0.12 +/- 0.04	0.01 +/- 0.027	0.01 +/- 0.027	0.037 +/- 0.026
L1	05-Dec	L1D2A	4'-10'	35922	0.23 +/- 0.05	0.0085 +/- 0.0142	0.16 +/- 0.05	0.0021 +/- 0.0212	N	0.0011 +/- 0.0109
L1	05-Dec	L1D2B	4'-10'	DOH 845010	NA	NA	1.5	NA	NA	<0.05
L2	05-Dec	L2D1A	0'-4'	35923	0.39 +/- 0.07	0.0076 +/- 0.0084	0.12 +/- 0.03	0.0063 +/- 0.0443	0.028 +/- 0.047	0.032 +/- 0.021
L2	05-Dec	L2D2A	4'-10'	35924	0.19 +/- 0.05	0.011 +/- 0.011	0.21 +/- 0.05	0.0012 +/- 0.0121	N	0.0081 +/- 0.0137
L3	05-Dec	L3D1AB	0'-4'	35925	0.3 +/- 0.07	0.0074 +/- 0.0097	0.24 +/- 0.05	0.034 +/- 0.057	N	0.0096 +/- 0.0094
L3	05-Dec	L3D1AB	0'-4'	DOH 845011	NA	NA	1.0	NA	NA	<0.05
L3	05-Dec	L3D2AB	4'-10'	35926	0.16 +/- 0.05	0.0089 +/- 0.0118	0.23 +/- 0.05	0.00088 +/- 0.00881	0.0044 +/- 0.0113	0.005 +/- 0.0084
L3	05-Dec	L3D2AB	4'-10'	DOH 845012	NA	NA	1.4	NA	NA	<0.05
L4	05-Dec	L4D1A	0'-4'	35927	0.27 +/- 0.07	N	0.096 +/- 0.037	0.0038 +/- 0.0377	0.034 +/- 0.057	0.0053 +/- 0.0014
L4	05-Dec	L4D2A	4'-10'	35928	0.13 +/- 0.05	0.00053 +/- 0.00527	0.11 +/- 0.03	0.00086 +/- 0.00861	0.00096 +/- 0.0096	0.0067 +/- 0.0065
L5	05-Dec	L5D1AB	0'-4'	35929	0.15 +/- 0.05	0.0029 +/- 0.0074	0.081 +/- 0.029	0.0014 +/- 0.0143	0.024 +/- 0.027	0.007 +/- 0.0092
L5	05-Dec	L5D1AB	0'-4'	DOH 845013	NA	NA	1.3	NA	NA	<0.05
L5	05-Dec	L5D2AB	4'-10'	35930	0.095 +/- 0.045	0.00082 +/- 0.00816	0.068 +/- 0.031	0.0042 +/- 0.0423	N	0.0059 +/- 0.0151
L5	05-Dec	L5D2AB	4'-10'	DOH 845014	NA	NA	1.1	NA	NA	<0.05
L6	06-Dec	L6D1A	0'-4'	35941	0.27 +/- 0.06	0.0031 +/- 0.0078	0.079 +/- 0.029	0.016 +/- 0.0028	0.013 +/- 0.0035	0.0015 +/- 0.0151
L6	06-Dec	L6D1A DUP	0'-4'	41631	0.16 +/- 0.02	0.002 +/- 0.005	0.095 +/- 0.025	0.0016 +/- 0.0157	0.014 +/- 0.024	0.011 +/- 0.014
L6	06-Dec	L6D1A REC	0'-4'	41962	0.24 +/- 0.06	0.0033 +/- 0.0085	0.072 +/- 0.029	0.0018 +/- 0.0175	0.0018 +/- 0.01759	0.014 +/- 0.024
L7	06-Dec	L7D1A	0'-4'	35940	0.63 +/- 0.06	0.011 +/- 0.029	0.13 +/- 0.07	N	N	0.02 +/- 0.027
L8	07-Dec	L8D1B	0'-4'	DOH 845015	NA	NA	1.3	NA	NA	<0.05
L8	07-Dec	L8D2B	4'-10'	DOH 845016	NA	NA	1.4	NA	NA	<0.05
L10	07-Dec	L10D1A2	0'-4'	DOH 845017	NA	NA	1.1	NA	NA	<0.05
L10	07-Dec	L10D2B	4'-10'	DOH 845018	NA	NA	1.6	NA	NA	<0.05
L12	08-Dec	L12D1B	0'-4'	DOH 845019	NA	NA	1.1	NA	NA	<0.05
L12	08-Dec	L12D2B	4'-10'	DOH 845020	NA	NA	1.4	NA	NA	<0.05
L21	12-Dec	L21D1A	0'-4'	35942	0.18 +/- 0.05	0.0017 +/- 0.0168	0.26 +/- 0.09	0.0021 +/- 0.0212	0.0021 +/- 0.0212	0.0092 +/- 0.0122

TABLE 2. Soil Activity Sorted by Location Code, Additional Isotopic Analysis

N - negative #
NA - not analyzed for

Coarse Grid Location	Date Sampled	Location Identification Code	Sample Depth (in)	Laboratory Sample Number	Radioactivity Concentration (pCi / g) Sr-90	U-235	U-238 (see note)	Pu-238	Pu-239	Am-241
L24	14-Dec	L24D1A	0"-4"	35937	0.39 +/- 0.07	0.0059 +/- 0.0099	0.15 +/- 0.04	NA	NA	0.0048 +/- 0.0123
L31	13-Dec	L31D1A	0"-4"	35939	0.25 +/- 0.06	0.0063 +/- 0.0161	0.18 +/- 0.06	0.0015 +/- 0.015	0.02 +/- 0.028	0.037 +/- 0.028
L35	13-Dec	L35D1A	0"-4"	35938	0.15 +/- 0.08	0.001 +/- 0.0101	0.041 +/- 0.028	NA	NA	0.013 +/- 0.017
L39	12-Dec	L39D1A	0"-4"	35943	0.21 +/- 0.09	0.0011 +/- 0.0113	0.25 +/- 0.07	N	0.0012 +/- 0.0122	0.02 +/- 0.02
L40	15-Dec	L40D1A	0"-4"	35944	0.23 +/- 0.06	0.0038 +/- 0.0097	0.073 +/- 0.031	0.0017 +/- 0.0188	0.022 +/- 0.029	0.0073 +/- 0.0122
EP1	31-Jan	EP1D1	0"-4"	35977	0.34 +/- 0.06	0.00059 +/- 0.00580	0.097 +/- 0.032	0.0012 +/- 0.012	0.006 +/- 0.0154	0.0064 +/- 0.0367
EP1	31-Jan	EP1D2	4"-10"	35978	0.21 +/- 0.05	0.0038 +/- 0.0064	0.1 +/- 0.03	0.0014 +/- 0.0143	N	0.019 +/- 0.021
EP1	31-Jan	EP1D3	10"-16"	35979	0.17 +/- 0.04	0.014 +/- 0.013	0.16 +/- 0.04	0.00069 +/- 0.00689	0.0014 +/- 0.0097	0.015 +/- 0.026
MW1	31-Jan	MW1D1	0"-4"	35974	0.33 +/- 0.06	0.0051 +/- 0.0085	0.21 +/- 0.05	0.00068 +/- 0.00661	0.0013 +/- 0.0093	0.018 +/- 0.024
MW1	31-Jan	MW1D2	4"-10"	35975	0.17 +/- 0.04	0.0072 +/- 0.008	0.14 +/- 0.03	0.00062 +/- 0.016	0.0025 +/- 0.0177	0.0073 +/- 0.0123
MW1	31-Jan	MW1D3	10"-16"	35976	0.19 +/- 0.04	0.0036 +/- 0.0032	0.051 +/- 0.011	0.0049 +/- 0.0125	N	0.0015 +/- 0.0155

Note: U-238 analysis was performed through gamma spectroscopy by NYSDOH laboratory. The contract laboratory (Teledyne) used the chemical separation and alpha spectrometry method.

NA = Not Analyzed for

TABLE 3. Soil Activity Sorted by Sampling Sequence

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Radioactivity Concentration (pCi / g) Cs-137	K-40	Ra-224	Ra-226
1	NYS-201	80N 60W	23-Jun-94	DG1-5D/C-0-2	0-5	54687	1aDS	33.3	25	13	0.98	2.1
2	NYS-201	80N 60W	23-Jun-94	DG1-5D/C-2-4	5-10	54688		25.8	4.1	11	0.64	1.3
3	NYS-201	80N 60W	23-Jun-94	DG1-5D/C-4-6	10-15	54689		24.4	0.36	12	0.86	1.5
4	NYS-201	80N 60W	23-Jun-94	DG1-5F/C-0-2	0-5	54690		45.5	14	10	0.62	2.3
5	NYS-201	80N 60W	23-Jun-94	DG1-5F/C-2-4	5-10	54691		32.3	8.0	12	0.97	1.9
6	NYS-201	80N 60W	23-Jun-94	DG1-5F/C-4-6	10-15	54692		27.2	2.5	11	0.68	1.7
7	NYS-201	80N 60W	23-Jun-94	DG1-5H/C-0-2	0-5	54693	1bFSa	53.1	38	10	0.80	2.8
8	NYS-201	80N 60W	23-Jun-94	DG1-5H/C-2-4	5-10	54694	1cFSa	40.4	12	10	0.65	2.0
9	NYS-201	80N 60W	23-Jun-94	DG1-5H/C-4-6	10-15	54695	1dFSa	36.2	1.8	12	0.68	1.9
10	NYS-201	80N 60W	23-Jun-94	DG1-5J/C-0-2	0-5	54696		35.9	25	10	0.69	2.8
11	NYS-201	80N 60W	23-Jun-94	DG1-5J/C-2-4	5-10	54697		29.3	3.6	13	0.64	1.3
12	NYS-201	80N 60W	23-Jun-94	DG1-5J/C-4-6	10-15	54698		28.2	0.60	13	0.71	1.1
13	NYS-201	80N 60W	23-Jun-94	DG1-3F/C-0-2	0-5	54699		38.6	44	12	0.83	3.0
14	NYS-201	80N 60W	23-Jun-94	DG1-3F/C-2-4	5-10	54700		29.3	8.5	17	0.78	2.1
15	NYS-201	80N 60W	23-Jun-94	DG1-3F/C-4-6	10-15	54701		23.1	0.96	12	0.62	2.9
16	NYS-201	80N 60W	23-Jun-94	DG1-3E/C-0-2	0-5	54702		26.2	1.5	13	0.84	1.3
17	NYS-201	80N 60W	23-Jun-94	DG1-3E/C-2-4	5-10	54703		24.0	0.22	14	0.85	1.3
18	NYS-201	80N 60W	23-Jun-94	DG1-3E/C-4-6	10-15	54704		23.7	0.073	13	0.91	1.4
19	NYS-201	80N 60W	23-Jun-94	DG1-3G/C-0-2	0-5	54705		42.2	38	12	1.1	4.1
20	NYS-201	80N 60W	23-Jun-94	DG1-3G/C-2-4	5-10	54706		32.5	13	13	0.73	2.0
21	NYS-201	80N 60W	23-Jun-94	DG1-3G/C-4-6	10-15	54707		28.2	2.2	12	0.73	1.3
22	NYS-201	80N 60W	23-Jun-94	DG1-5B/C-0-2	0-5	54708		36.5	15	12	0.71	2.3
23	NYS-201	80N 60W	23-Jun-94	DG1-5B/C-2-4	5-10	54709		25.5	0.94	12	0.79	1.3
24	NYS-201	80N 60W	23-Jun-94	DG1-5B/C-4-6	10-15	54710		22.0	0.15	14	0.86	1.8
25	NYS-201	80N 60W	23-Jun-94	DG1-5D/C-0-2	0-5	54838	1aLS	33.0	25	14	0.92	1.7
26	NYS-202	80N 60W	29-Jun-94	DG1-7F/C-0-2	0-5	55009	2aDS	54.1	19	11	0.93	4.4

NA = Not Analyzed for

TABLE 3. Soil Activity Sorted by Sampling Sequence

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Radioactivity Concentration (pCi / g) Cs-137	K-40	Ra-224	Ra-226
27	NYS-202	80N 60W	29-Jun-94	DG1-7F/C-2-4	5-10	55011	2bDS	47.2	21	13	0.78	6.4
28	NYS-202	80N 60W	29-Jun-94	DG1-7F/C-4-6	10-15	55013	2cDS	40.3	9.2	13	0.87	1.9
29	NYS-202	80N 60W	29-Jun-94	DG1-7F/C-0-2	0-5	55010	2aLS	54.1	19	11	0.94	3.8
30	NYS-202	80N 60W	29-Jun-94	DG1-7F/C-2-4	5-10	55012	2bLS	47.2	22	13	0.94	1.9
31	NYS-202	80N 60W	29-Jun-94	DG1-7F/C-4-6	10-15	55014	2cLS	40.3	9.4	13	0.95	1.8
32	NYS-203	150N 100W	13-Jul-94	DG2-5B/C-0-2	0-5	56531	3aDS	41.7	8.1	15	1.0	2.2
33	NYS-203	150N 100W	13-Jul-94	DG2-5B/C-2-4	5-10	56532	3bDS	31.9	4.7	14	0.91	1.9
34	NYS-203	150N 100W	13-Jul-94	DG2-5B/C-4-6	10-15	56533	3cDS	14.9	0.19	14	0.75	1.6
35	NYS-203	150N 100W	13-Jul-94	DG2-5H/C-0-2A	0-5	56534	3dFSa	27.3	16	16	1.4	2.9
36	NYS-203	150N 100W	13-Jul-94	DG2-5H/C-2-4A	5-10	56535	3eFSa	25.1	7.0	15	1.2	2.4
37	NYS-203	150N 100W	13-Jul-94	DG2-5H/C-4-6A	10-15	56536	3fFSa	27.5	0.46	16	1.1	2.5
38	NYS-203	150N 100W	13-Jul-94	DG2-5H/C-0-2B	0-5	56537	3dFSb	31.5	16	15	1.2	3.5
39	NYS-203	150N 100W	13-Jul-94	DG2-5H/C-2-4B	5-10	56538	3eFSb	27.8	7.5	16	1.2	1.8
40	NYS-203	150N 100W	13-Jul-94	DG2-5H/C-4-6B	10-15	56539	3fFSb	12.1	0.33	12	0.90	1.5
41	NYS-203	150N 100W	13-Jul-94	DG2-1F/C-0-2	0-5	56540	3gFSa	23.9	7.0	14	0.98	2.2
42	NYS-203	150N 100W	13-Jul-94	DG2-1F/C-2-4	5-10	56541	3hFSa	22.0	5.4	15	0.96	2.6
43	NYS-203	150N 100W	13-Jul-94	DG2-1F/C-4-6	10-15	56542	3iFSa	18.9	1.3	15	0.91	1.7
44	NYS-203	150N 100W	13-Jul-94	DG2-3F/C-0-2	0-5	56543		41.3	6.8	18	1.2	3.0
45	NYS-203	150N 100W	13-Jul-94	DG2-3F/C-2-4	5-10	56544		28.3	4.9	16	1.0	2.8
46	NYS-203	150N 100W	13-Jul-94	DG2-3F/C-4-6	10-15	56545		18.5	0.58	16	0.93	1.2
47	NYS-203	150N 100W	13-Jul-94	DG2-5F/C-0-2	0-5	56546		27.2	12	14	0.98	1.8
48	NYS-203	150N 100W	13-Jul-94	DG2-5F/C-2-4	5-10	56547		20.3	8.7	14	0.92	3.3
49	NYS-203	150N 100W	13-Jul-94	DG2-5F/C-4-6	10-15	56548		20.2	2.0	15	0.95	1.5
50	NYS-203	150N 100W	13-Jul-94	DG2-5J/C-0-2	0-5	56549		16.2	11	14	0.89	2.3
51	NYS-203	150N 100W	13-Jul-94	DG2-5J/C-2-4	5-10	56550		9.6	3.8	15	0.99	2.3
52	NYS-203	150N 100W	13-Jul-94	DG2-5J/C-4-6	10-15	56551		7.5	0.28	16	0.96	2.0

NA = Not Analyzed for

TABLE 3. Soil Activity Sorted by Sampling Sequence

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Radioactivity Concentration (pCi/g) Cs-137	K-40	Ra-224	Ra-226
53	NYS-203	150N 100W	13-Jul-94	DG2-9F/C-0-2	0-5	56552		36.0	5.7	14	0.83	1.2
54	NYS-203	150N 100W	13-Jul-94	DG2-9F/C-2-4	5-10	56553		26.1	3.9	13	0.84	2.2
55	NYS-203	150N 100W	13-Jul-94	DG2-9F/C-4-6	10-15	56554		15.1	0.58	15	0.78	1.7
56	NYS-203	150N 100W	13-Jul-94	DG2-7F/C-0-2	0-5	56555		25.8	14	13	0.69	1.6
57	NYS-203	150N 100W	13-Jul-94	DG2-7F/C-2-4	5-10	56556		15.0	4.8	16	0.78	1.6
58	NYS-203	150N 100W	13-Jul-94	DG2-7F/C-4-6	10-15	56557		21.7	1.6	15	0.71	1.7
59	NYS-203	150N 100W	13-Jul-94	DG2-5D/C-0-2	0-5	56558		11.9	7.7	16	1.2	2.7
60	NYS-203	150N 100W	13-Jul-94	DG2-5D/C-2-4	5-10	56559		17.5	5.3	14	0.89	1.9
61	NYS-203	150N 100W	13-Jul-94	DG2-5D/C-4-6	10-15	56560		5.5	0.39	15	0.74	1.7
62	NYS-203	150N 100W	13-Jul-94	DG2-5B/C-0-2D	0-5	56668	3aLS	41.7	8.3	16	1.0	3.0
63	NYS-203	150N 100W	13-Jul-94	DG2-5B/C-2-4D	5-10	56669	3bLS	31.9	3.4	11	0.64	1.6
64	NYS-203	150N 100W	13-Jul-94	DG2-5B/C-4-6D	10-15	56670	3cLS	14.9	0.33	14	0.79	1.5
65	NYS-204	10S 10E	14-Jul-94	DG3-5H/C-0-2	0-5	56561		25.9	8.6	15	1.3	1.6
66	NYS-204	10S 10E	14-Jul-94	DG3-5H/C-2-4	5-10	56562		17.5	3.9	15	0.97	1.6
67	NYS-204	10S 10E	14-Jul-94	DG3-5H/C-4-6	10-15	56563		12.7	1.1	16	0.95	1.7
68	NYS-204	10S 10E	14-Jul-94	DG3-5B/C-0-2	0-5	56564		25.9	20	12	0.75	1.3
69	NYS-204	10S 10E	14-Jul-94	DG3-5B/C-2-4	5-10	56565		20.5	9.0	12	0.67	2.2
70	NYS-204	10S 10E	14-Jul-94	DG3-5B/C-4-6	10-15	56566		15.3	1.3	14	0.78	1.4
71	NYS-204	10S 10E	14-Jul-94	DG3-3F/C-0-2	0-5	56567		19.3	11	12	0.82	2.8
72	NYS-204	10S 10E	14-Jul-94	DG3-3F/C-2-4	5-10	56568		12.4	5.0	11	0.90	1.5
73	NYS-204	10S 10E	14-Jul-94	DG3-3F/C-4-6	10-15	56569		13.6	1.0	13	0.79	1.8
74	NYS-204	10S 10E	14-Jul-94	DG3-7F/C-0-2	0-5	56570		16.4	16	14	0.83	2.9
75	NYS-204	10S 10E	14-Jul-94	DG3-7F/C-2-4	5-10	56571		14.4	9.2	16	0.93	2.3
76	NYS-204	10S 10E	14-Jul-94	DG3-7F/C-4-6	10-15	56572		14.6	1.6	11	0.92	1.6
77	NYS-204	10S 10E	14-Jul-94	DG3-5F/C-0-2	0-5	56573	4aDS	19.5	16	15	0.86	2.5
78	NYS-204	10S 10E	14-Jul-94	DG3-5F/C-2-4	5-10	56574	4bDS	13.8	5.5	16	0.98	2.2

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TABLE 3. Soil Activity Sorted by Sampling Sequence

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Radioactivity Concentration (pCi / g) Cs-137	K-40	Ra-224	Ra-226
79	NYS-204	10S 10E	14-Jul-94	DG3-5F/C-4-6	10-15	56575	4cDS	9.5	0.68	23	1.3	2.6
80	NYS-204	10S 10E	14-Jul-94	DG3-5D/C-0-2A	0-5	56576	4dFSa	24.7	16	17	1.0	2.0
81	NYS-204	10S 10E	14-Jul-94	DG3-5D/C-2-4A	5-10	56577	4eFSa	16.3	12	13	0.81	2.7
82	NYS-204	10S 10E	14-Jul-94	DG3-5D/C-4-6A	10-15	56578	4fFSa	17.2	3.4	13	0.78	1.9
83	NYS-204	10S 10E	14-Jul-94	DG3-5D/C-0-2B	0-5	56579	4dFSb	23.9	16	14	0.85	2.3
84	NYS-204	10S 10E	14-Jul-94	DG3-5D/C-2-4B	5-10	56580	4eFSb	21.2	12	14	0.68	2.0
85	NYS-204	10S 10E	14-Jul-94	DG3-5D/C-4-6B	10-15	56581	4fFSb	16.5	3.4	14	0.87	2.1
86	NYS-204	10S 10E	14-Jul-94	DG3-9F/C-0-2	0-5	56582	4gFSa	15.4	13	16	0.82	2.3
87	NYS-204	10S 10E	14-Jul-94	DG3-9F/C-2-4	5-10	56583	4hFSa	11.5	5.6	14	1.0	2.2
88	NYS-204	10S 10E	14-Jul-94	DG3-9F/C-4-6	10-15	56584	4iFSa	15.4	1.1	15	0.78	1.1
89	NYS-204	10S 10E	14-Jul-94	DG3-1F/C-0-2	0-5	56585		15.2	7.2	12	0.85	1.4
90	NYS-204	10S 10E	14-Jul-94	DG3-1F/C-2-4	5-10	56586		12.8	1.9	13	1.1	1.8
91	NYS-204	10S 10E	14-Jul-94	DG3-1F/C-4-6	10-15	56587		11.4	0.21	14	0.78	1.7
92	NYS-204	10S 10E	14-Jul-94	DG3-5J/C-0-2	0-5	56588		18.7	7.9	13	0.75	1.6
93	NYS-204	10S 10E	14-Jul-94	DG3-5J/C-2-4	5-10	56589		19.2	4.3	14	0.90	1.7
94	NYS-204	10S 10E	14-Jul-94	DG3-5J/C-4-6	10-15	56590		15.9	2.2	14	0.86	2.7
95	NYS-204	10S 10E	14-Jul-94	DG3-5F/C-0-2D	0-5	56671	4aLS	19.5	15	15	0.88	1.4
96	NYS-204	10S 10E	14-Jul-94	DG3-5F/C-2-4D	5-10	56672	4bLS	13.8	5.4	16	0.88	1.6
97	NYS-204	10S 10E	14-Jul-94	DG3-5F/C-4-6D	10-15	56673	4cLS	9.5	0.53	16	2.5	1.6
98	NYS-205	80N 60W	22-Jul-94	DG1-7F/R-0-2	0-5	57851	5dFSa	31.1	28	12	1.0	1.2
99	NYS-205	80N 60W	22-Jul-94	DG1-7F/R-2-4	5-10	57852	5eFSa	27.6	20	14	0.94	3.1
100	NYS-205	80N 60W	22-Jul-94	DG1-7F/R-4-6	10-15	57853	5fFSa	19.8	3.8	12	0.92	2.7
101	NYS-205	SE of Plant	28-Jul-94	BKG-WVAL-0-2	0-5	57854		21.9	0.54	9.1	1.2	1.6
102	NYS-205	SE of Plant	28-Jul-94	BKG-WVAL-2-4	5-10	57855		14.9	0.47	12	0.90	1.8
103	NYS-205	SE of Plant	28-Jul-94	BKG-WVAL-4-6	10-15	57856		13.2	0.28	11	0.85	1.1
104	NYS-205	E of Plant	28-Jul-94	BKG-RT240-0-2	0-5	57857	5aDS	32.8	1.0	13	0.74	0.99

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TABLE 3. Soil Activity Sorted by Sampling Sequence

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Radioactivity Concentration (pCi / g) Cs-137	K-40	Ra-224	Ra-226
105	NYS-205	E of Plant	28-Jul-94	BKG-RT240-2-4	5-10	57858	5bDS	27.7	0.92	10	0.71	1.6
106	NYS-205	E of Plant	28-Jul-94	BKG-RT240-4-6	10-15	57859	5cDS	22.6	0.78	11	0.75	1.4
107	NYS-205	N of Plant	28-Jul-94	BKG-SPV-0-2	0-5	57860		8.7	0.50	12	0.69	1.4
108	NYS-205	N of Plant	28-Jul-94	BKG-SPV-2-4	5-10	57861		10.9	0.51	13	0.71	1.9
109	NYS-205	N of Plant	28-Jul-94	BKG-SPV-4-6	10-15	57862		10.7	0.28	13	0.75	2.0
110	NYS-205	E of Plant	28-Jul-94	BKG-RT240-0-2	0-5	57863	5aLS	32.8	0.92	11	1.0	2.2
111	NYS-205	E of Plant	28-Jul-94	BKG-RT240-2-4	5-10	57864	5bLS	27.7	1.1	13	0.77	2.2
112	NYS-205	E of Plant	28-Jul-94	BKG-RT240-4-6	10-15	57865	5cLS	22.6	0.74	11	0.82	2.1
113	NYS-206	220N 170W	15-Aug-94	DG4-5B-0-2	0-5	60161		21.1	10	14	0.87	2.1
114	NYS-206	220N 170W	15-Aug-94	DG4-5B-2-4	5-10	60162		17.4	2.0	14	3.2	1.9
115	NYS-206	220N 170W	15-Aug-94	DG4-5B-4-6	10-15	60163		15.8	0.13	14	0.78	2.0
116	NYS-206	220N 170W	15-Aug-94	DG4-5D-0-2	0-5	60164	6aDS	24.6	15	13	0.89	3.1
117	NYS-206	220N 170W	15-Aug-94	DG4-5D-2-4	5-10	60165	6bDS	20.9	6.6	13	0.94	1.4
118	NYS-206	220N 170W	15-Aug-94	DG4-5D-4-6	10-15	60166	6cDS	21.8	0.95	14	0.93	1.8
119	NYS-206	220N 170W	15-Aug-94	DG4-5F-0-2	0-5	60167	6dFSa	18.6	19	13	0.80	1.8
120	NYS-206	220N 170W	15-Aug-94	DG4-5F-2-4	5-10	60168	6eFSa	16.5	2.6	13	0.78	1.9
121	NYS-206	220N 170W	15-Aug-94	DG4-5F-4-6	10-15	60169	6fFSa	16.2	0.47	13	0.82	2.0
122	NYS-206	220N 170W	15-Aug-94	DG4-5H-0-2	0-5	60170		26.2	22	12	0.92	3.1
123	NYS-206	220N 170W	15-Aug-94	DG4-5H-2-4	5-10	60171		20.8	3.1	15	1.3	2.2
124	NYS-206	220N 170W	15-Aug-94	DG4-5H-4-6	10-15	60172		19.2	0.84	14	0.91	1.3
125	NYS-206	220N 170W	17-Aug-94	DG4-8I-0-2	0-5	60173		19.1	18	13	0.81	3.0
126	NYS-206	220N 170W	17-Aug-94	DG4-8I-2-4	5-10	60174		13.0	1.6	14	1.0	2.7
127	NYS-206	220N 170W	17-Aug-94	DG4-8I-4-6	10-15	60175		12.8	0.14	15	1.0	2.2
128	NYS-206	220N 170W	15-Aug-94	DG4-5FB-0-2	0-5	60176	6dFSb	19.6	18	12	0.91	2.0
129	NYS-206	220N 170W	15-Aug-94	DG4-5FB-2-4	5-10	60177	6eFSb	17.1	2.4	14	0.94	2.4
130	NYS-206	220N 170W	15-Aug-94	DG4-5FB-4-6	10-15	60178	6fFSb	10.7	0.89	13	0.85	1.5

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TABLE 3. Soil Activity Sorted by Sampling Sequence

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Radioactivity Concentration (pCi / g) Cs-137	K-40	Ra-224	Ra-226
131	NYS-206	220N 170W	17-Aug-94	DG1-4G-0-2	0-5	60179		26.2	23	12	0.78	3.8
132	NYS-206	220N 170W	17-Aug-94	DG1-4G-2-4	5-10	60180		31.2	5.2	12	0.77	1.5
133	NYS-206	220N 170W	17-Aug-94	DG1-4G-4-6	10-15	60181		19.8	1.1	12	0.87	1.7
134	NYS-206	220N 170W	15-Aug-94	DG4-5J-0-2	0-5	60182		21.1	25	15	0.81	5.8
135	NYS-206	220N 170W	15-Aug-94	DG4-5J-2-4	5-10	60183		20.4	6.8	14	0.9	2.4
136	NYS-206	220N 170W	15-Aug-94	DG4-5J-4-6	10-15	60184		19.2	0.38	16	1.4	1.4
137	NYS-206	220N 170W	15-Aug-94	DG4-9F-0-2	0-5	60185		24.1	17	13	0.84	2.8
138	NYS-206	220N 170W	15-Aug-94	DG4-9F-2-4	5-10	60186		17.7	2.8	16	0.92	1.1
139	NYS-206	220N 170W	15-Aug-94	DG4-9F-4-6	10-15	60187		13.8	0.65	13	0.88	2.8
140	NYS-206	220N 170W	17-Aug-94	DG4-3F-0-2	0-5	60188		31.7	12	15	0.92	2.1
141	NYS-206	220N 170W	17-Aug-94	DG4-3F-2-4	5-10	60189		27.4	8.0	14	1.0	2.3
142	NYS-206	220N 170W	17-Aug-94	DG4-3F-4-6	10-15	60190		15.8	0.58	13	0.84	2.0
143	NYS-206	220N 170W	17-Aug-94	DG4-7F-0-2	0-5	60191		19.8	21	13	0.86	2.6
144	NYS-206	220N 170W	17-Aug-94	DG4-7F-2-4	5-10	60192		16.8	7.2	15	0.9	2.2
145	NYS-206	220N 170W	17-Aug-94	DG4-7F-4-6	10-15	60193		14.6	1.0	15	0.95	2.2
146	NYS-206	220N 170W	15-Aug-94	DG4-5D-0-2D	0-5	60268	6aLS	17.3	24	14	0.96	3.6
147	NYS-206	220N 170W	15-Aug-94	DG4-5D-2-4D	5-10	60269	6bLS	15.8	4.0	14	0.98	1.8
148	NYS-206	220N 170W	15-Aug-94	DG4-5D-4-6D	10-15	60270	6cLS	15.0	0.75	13	0.91	1.5
149	NYS-207	130S 70W	06-Oct-94	SED1/0-2	0-5	66294	7jFSa	23.6	1.5	13	0.96	1.5
150	NYS-207	130S 70W	06-Oct-94	SED1/2-4	5-10	66295		20.0	0.88	11	0.90	1.6
151	NYS-207	130S 70W	06-Oct-94	SED1/4-6	10-15	66296		10.5	0.28	11	1.0	1.5
152	NYS-207	130S 70W	06-Oct-94	SED1/6-8	15-20	66297		8.1	0.11	8.6	0.84	1.8
153	NYS-207	130S 70W	06-Oct-94	SED1/8-10	20-25	66298		9.3	0.054	10	0.86	1.3
154	NYS-207	370N 170W	24-Oct-94	SED2/0-2	0-5	66299	7aDS	34.7	2.7	12	0.82	1.7
155	NYS-207	370N 170W	24-Oct-94	SED2/2-4	5-10	66300	7bDS	32.8	0.55	13	0.88	2.3
156	NYS-207	370N 170W	24-Oct-94	SED2/4-6	10-15	66301	7cDS	31.7	0.11	15	0.95	2.1

NA = Not Analyzed for

TABLE 3. Soil Activity Sorted by Sampling Sequence

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Radioactivity Concentration (pCi / g) Cs-137	K-40	Ra-224	Ra-226
157	NYS-207	490N 270W	26-Oct-94	DG5-C/0-2	0-5	66302		18.4	4.1	9.5	0.78	2.4
158	NYS-207	490N 270W	26-Oct-94	DG5-C/2-4	5-10	66303		20.7	0.70	10	0.80	1.4
159	NYS-207	490N 270W	26-Oct-94	DG5-C/4-6	10-15	66304		21.3	0.085	11	0.72	1.2
160	NYS-207	490N 270W	26-Oct-94	DG5-S/0-2	0-5	66305		22.9	1.2	10	0.74	1.5
161	NYS-207	490N 270W	26-Oct-94	DG5-S/2-4	5-10	66306		25.2	1.6	11	0.78	1.8
162	NYS-207	490N 270W	26-Oct-94	DG5-S/4-6	10-15	66307		22.1	1.0	12	0.94	1.7
163	NYS-207	490N 270W	26-Oct-94	DG5-W/0-2	0-5	66308		26.5	2.1	10	0.84	2.2
164	NYS-207	490N 270W	26-Oct-94	DG5-W/2-4	5-10	66309		21.1	0.54	11	0.75	1.5
165	NYS-207	490N 270W	26-Oct-94	DG5-W/4-6	10-15	66310		22.0	0.097	11	0.79	2.0
166	NYS-207	490N 270W	26-Oct-94	DG5-N/0-2	0-5	66311	7gFSa	26.5	3.6	9.9	0.77	1.7
167	NYS-207	490N 270W	26-Oct-94	DG5-N/2-4	5-10	66312	7hFSa	23.9	0.16	11	0.78	2.0
168	NYS-207	490N 270W	26-Oct-94	DG5-N/4-6	10-15	66313	7iFSa	21.6	0.038	12	0.75	1.5
169	NYS-207	490N 270W	26-Oct-94	DG5-E/0-2	0-5	66314	7dDS	31.1	2.5	11	0.81	1.8
170	NYS-207	490N 270W	26-Oct-94	DG5-E/2-4	5-10	66315	7eDS	23.5	0.29	10	0.72	1.9
171	NYS-207	490N 270W	26-Oct-94	DG5-E/4-6	10-15	66316	7fDS	23.6	0.06	11	0.78	0.75
172	NYS-207	370N 170W	24-Oct-94	SED2/0-2D	0-5	66317	7eLS	34.7	2.5	13	0.73	2.2
173	NYS-207	370N 170W	24-Oct-94	SED2/2-4D	5-10	66318	7bLS	32.8	0.58	15	1.0	2.0
174	NYS-207	370N 170W	24-Oct-94	SED2/4-6D	10-15	66319	7cLS	31.7	0.085	16	NA	2.1
175	NYS-207	490N 270W	26-Oct-94	DG5-E/0-2D	0-5	66320	7dLS	31.1	2.8	11	0.84	0.44
176	NYS-207	490N 270W	26-Oct-94	DG5-E/2-4D	5-10	66321	7eLS	23.5	0.24	9.8	0.74	2.6
177	NYS-207	490N 270W	26-Oct-94	DG5-E/4-6D	10-15	66322	7fLS	23.6	0.058	13	0.82	1.7
178	NYS-208	80N 60W	23-Jun-94	DG1-5H/0-2	0-5	NYS DOH	1bFSb	NA	30.6	NA	NA	NA
179	NYS-208	80N 60W	23-Jun-94	DG1-5H/2-4	5-10	NYS DOH	1cFSb	NA	10.8	NA	NA	NA
180	NYS-208	80N 60W	23-Jun-94	DG1-5H/4-6	10-15	NYS DOH	1dFSb	NA	1.8	NA	NA	NA
181	NYS-208	80N 60W	22-Jul-94	DG1-7F/R-0-2	0-5	NYS DOH	5dFSb	NA	21.4	NA	NA	NA
182	NYS-208	80N 60W	22-Jul-94	DG1-7F/R-2-4	5-10	NYS DOH	5eFSb	NA	10.7	NA	NA	NA

NA = Not Analyzed for

TABLE 3. Soil Activity Sorted by Sampling Sequence

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Radioactivity Concentration (pCi/g) Cs-137	K-40	Ra-224	Ra-226
183	NYS-208	80N 60W	22-Jul-94	DG1-7F/R-4-6	10-15	NYS DOH	5fFSb	NA	3.5	NA	NA	NA
184	NYS-208	150N 100W	13-Jul-94	DG2-1F/0-2	0-5	NYS DOH	3gFSb	NA	7.1	NA	NA	NA
185	NYS-208	150N 100W	13-Jul-94	DG2-1F/2-4	5-10	NYS DOH	3hFSb	NA	3.6	NA	NA	NA
186	NYS-208	150N 100W	13-Jul-94	DG2-1F/4-6	10-15	NYS DOH	3iFSb	NA	1.2	NA	NA	NA
187	NYS-208	10S 10E	14-Jul-94	DG3-9F/C-0-2	0-5	NYS DOH	4gFSb	NA	9.2	NA	NA	NA
188	NYS-208	10S 10E	14-Jul-94	DG3-9F/C-2-4	5-10	NYS DOH	4hFSb	NA	4.5	NA	NA	NA
189	NYS-208	10S 10E	14-Jul-94	DG3-9F/C-4-6	10-15	NYS DOH	4iFSb	NA	NR	NA	NA	NA
190	NYS-208	490N 270W	26-Oct-94	DG5-N/0-2	0-5	NYS DOH	7gFSb	NA	2.01	NA	NA	NA
191	NYS-208	490N 270W	26-Oct-94	DG5-N/2-4	5-10	NYS DOH	7hFSb	NA	0.12	NA	NA	NA
192	NYS-208	490N 270W	26-Oct-94	DG5-N/4-6	10-15	NYS DOH	7iFSb	NA	<0.04	NA	NA	NA
193	NYS-208	130S 70W	06-Oct-94	SED1/0-2	0-5	NYS DOH	7jFSb	NA	1.33	NA	NA	NA
194	NYS-209	120S 190W	27-Oct-94	SED3/4-6	10-15	66765		29.8	0.37	16	1.1	2.8
195	NYS-209	120S 190W	27-Oct-94	SED3/0-2	0-5	66766		33.0	0.82	15	1.1	2.3
196	NYS-209	120S 190W	27-Oct-94	SED3/2-4	5-10	66767		29.0	0.83	15	1.3	2.2
197	NYS-209	NW of Plant	28-Oct-94	TM62/0-2	0-5	66768		24.3	0.98	15	1.3	1.9
198	NYS-209	NW of Plant	28-Oct-94	TM62/4-6	5-10	66769		16.4	0.77	13	0.67	1.5
199	NYS-209	NW of Plant	28-Oct-94	TM62/2-4	10-15	66770		17.7	3.3	10	0.58	1.5
200	NYS-209	80N 60W	27-Oct-94	DG1-3A/0-2	0-5	66771		32.9	7.5	12	0.82	1.4
201	NYS-209	80N 60W	27-Oct-94	DG1-3A/2-4	5-10	66772		31.0	5.3	14	0.82	1.9
202	NYS-209	80N 60W	27-Oct-94	DG1-3A/4-6	10-15	66773		15.1	0.46	15	0.81	1.8
203	NYS-209	80N 60W	27-Oct-94	DG1-3C/0-2	0-5	66774		29.6	10	11	0.79	3.1
204	NYS-209	80N 60W	27-Oct-94	DG1-3C/2-4	5-10	66775		21.6	5.1	12	0.74	1.4
205	NYS-209	80N 60W	27-Oct-94	DG1-3C/4-6	10-15	66776		23.7	0.69	13	0.89	1.7
206	NYS-209	80N 60W	27-Oct-94	DG1-3E/0-2	0-5	66777		18.8	0.65	15	0.99	2.4
207	NYS-209	80N 60W	27-Oct-94	DG1-3E/2-4	5-10	66778		17.1	0.11	16	1.1	2.7
208	NYS-209	80N 60W	27-Oct-94	DG1-3E/4-6	10-15	66779		16.8	0.031	15	0.98	1.5

NA = Not Analyzed for

TABLE 3. Soil Activity Sorted by Sampling Sequence

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Radioactivity Concentration (pCi / g) Cs-137	K-40	Ra-224	Ra-226
209	NYS-209	80N 60W	27-Oct-94	DG1-3G/0-2	0-5	66780	9aDSa	30.0	34	12	0.74	6.0
210	NYS-209	80N 60W	27-Oct-94	DG1-3G/2-4	5-10	66781	9bDSa	26.3	13	13	0.79	1.9
211	NYS-209	80N 60W	27-Oct-94	DG1-3G/4-6	10-15	66782	9cDSa	22.9	0.71	14	0.83	2.2
212	NYS-209	350N 400W	28-Oct-94	OF1/0-6	0-15	66783	9dFSa	21.5	1.6	15	0.92	1.6
213	NYS-209	350N 400W	28-Oct-94	OF1/6-12	15-30	66784	9eFSa	18.3	0.89	14	0.84	1.8
214	NYS-209	350N 400W	28-Oct-94	OF1/12-14	30-35	66785		11.9	0.38	15	1.2	1.5
215	NYS-209	350N 400W	28-Oct-94	OF1/14-16	35-40	66786		12.4	0.0066	16	0.97	1.6
216	NYS-209	350N 400W	28-Oct-94	OF1/16-16	40-45	66787		9.7	0.59	19	1.1	2.3
217	NYS-209	350N 400W	28-Oct-94	OF1S/0-6	0-15	66788	9dFSb	13.2	1.6	15	0.88	1.6
218	NYS-209	350N 400W	28-Oct-94	OF1S/6-12	15-30	66789	9eFSb	14.4	0.86	13	0.87	1.8
219	NYS-209	80N 60W	27-Oct-94	DG1-3G/0-2 D	0-5	66852	9aLSb	30.0	35	13	1.1	2.1
220	NYS-209	80N 60W	27-Oct-94	DG1-3G/2-4 D	5-10	66853	9bLSb	26.3	13	14	0.93	2.8
221	NYS-209	80N 60W	27-Oct-94	DG1-3G/4-6 D	10-15	66854	9cLSb	22.9	0.73	14	0.96	2.6
222	NYS-210	10N 20W	14-Mar-95	RT-1/0-2	0-5	79004	10aFSa	NA	0.24	18	1.1	1.3
223	NYS-210	10N 20W	14-Mar-95	RT-1/2-4	5-10	79005	10bFSa	NA	0.041	19	0.79	2.4
224	NYS-210	10N 20W	14-Mar-95	RT-1/4-6	10-15	79006	10cFSa	NA	0.034	18	1.1	1.7
225	NYS-210	10N 20W	14-Mar-95	RT-1/6-8	15-20	79007		NA	0.077	19	0.99	1.6
226	NYS-210	10N 20W	14-Mar-95	RT-1/8-10	20-25	79008		NA	1.1	14	0.90	2.0
227	NYS-210	10N 20W	14-Mar-95	RT-1/10-12	25-30	79009		NA	2.1	16	0.92	1.7
228	NYS-210	0N 40W	14-Mar-95	BS-1/0-2	0-5	79010		NA	0.087	17	0.91	2.3
229	NYS-210	0N 40W	14-Mar-95	BS-1/2-4	5-10	79011		NA	0.0057	20	1.1	1.7
230	NYS-210	0N 40W	14-Mar-95	BS-1/4-6	10-15	79012		NA	-0.0091	17	0.98	1.5
231	NYS-210	0N 40W	14-Mar-95	BS-1/6-8	15-20	79013		NA	0.0038	20	0.92	1.8
232	NYS-210	0N 40W	14-Mar-95	BS-1/8-10	20-25	79014		NA	0.0056	18	0.97	1.9
233	NYS-210	0N 40W	14-Mar-95	BS-1/10-12	25-30	79015		NA	-0.012	19	0.91	1.4
234	NYS-210	10N 20W	14-Mar-95	RT-1/0-2 D	0-5	79016	10aFSb	NA	0.18	17	0.90	2.1

NA = Not Analyzed for

TABLE 3. Soil Activity Sorted by Sampling Sequence

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Radioactivity Concentration (pCi / g) Cs-137	K-40	Ra-224	Ra-226
235	NYS-210	10N 20W	14-Mar-95	RT-1/2-4 D	5-10	79017	10bFSb	NA	0.0085	19	0.94	1.8
236	NYS-210	10N 20W	14-Mar-95	RT-1/4-6 D	10-15	79018	10cFSb	NA	0.034	19	0.92	1.9
237	NYS-210	20S 50E	14-Mar-95	RH-2/0-2	0-5	79019		NA	1.8	14	0.85	1.9
238	NYS-210	20S 50E	14-Mar-95	RH-2/2-4	5-10	79020		NA	1.1	14	0.83	1.8
239	NYS-210	20S 50E	14-Mar-95	RH-2/4-6	10-15	79021		NA	1.4	15	0.87	1.8
240	NYS-210	20S 50E	14-Mar-95	RH-2/6-8	15-20	79022		NA	1.8	14	0.81	2.2
241	NYS-210	20S 50E	14-Mar-95	RH-2/8-10	20-25	79023		NA	2.1	14	0.85	2.1
242	NYS-210	20S 50E	14-Mar-95	RH-2/10-12	25-30	79024		NA	2.3	13	0.78	2.0
243	NYS-210	40S 50E	14-Mar-95	RH-1/0-2	0-5	79025		NA	6.3	14	0.82	1.5
244	NYS-210	40S 50E	14-Mar-95	RH-1/2-4	5-10	79026		NA	6.5	15	0.89	2.2
245	NYS-210	40S 50E	14-Mar-95	RH-1/4-6	10-15	79027		NA	2.0	14	0.89	1.4
246	NYS-210	40S 50E	14-Mar-95	RH-1/6-8	15-20	79028		NA	2.2	13	0.82	1.9
247	NYS-210	40S 50E	14-Mar-95	RH-1/8-10	20-25	79029		NA	0.47	15	0.88	2.5
248	NYS-210	40S 50E	14-Mar-95	RH-1/10-12	25-30	79030		NA	0.50	13	0.83	1.4

TABLE 4. Soil Activity Sorted by Quality Assurance Code for Comparison

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Cs-137 Activity (pCi/g)	Relative Percent Difference	Note
1	NYS-201	80N 60W	23-Jun-94	DG1-5D/C-0-2	0-5	54687	1aDS	33.3	25		
25	NYS-201	80N 60W	23-Jun-94	DG1-5D/C-0-2	0-5	54838	1aLS	33.0	25	0.00%	
7	NYS-201	80N 60W	23-Jun-94	DG1-5H/C-0-2	0-5	54693	1bFSa	53.1	38		
178	NYS-208	80N 60W	23-Jun-94	DG1-5H/0-2	0-5	NYS DOH	1bFSb	NA	30.6	19.47%	II RPD = 20
8	NYS-201	80N 60W	23-Jun-94	DG1-5H/C-2-4	5-10	54694	1cFSa	40.4	12		
179	NYS-208	80N 60W	23-Jun-94	DG1-5H/2-4	5-10	NYS DOH	1cFSb	NA	10.8	10.00%	
9	NYS-201	80N 60W	23-Jun-94	DG1-5H/C-4-6	10-15	54695	1dFSa	36.2	1.8		
180	NYS-208	80N 60W	23-Jun-94	DG1-5H/4-6	10-15	NYS DOH	1dFSb	NA	1.8	0.00%	
26	NYS-202	80N 60W	29-Jun-94	DG1-7F/C-0-2	0-5	55009	2aDS	54.1	19		
29	NYS-202	80N 60W	29-Jun-94	DG1-7F/C-0-2	0-5	55010	2aLS	54.1	19	0.00%	I Act < 2
27	NYS-202	80N 60W	29-Jun-94	DG1-7F/C-2-4	5-10	55011	2bDS	47.2	21		
30	NYS-202	80N 60W	29-Jun-94	DG1-7F/C-2-4	5-10	55012	2bLS	47.2	22	4.76%	
28	NYS-202	80N 60W	29-Jun-94	DG1-7F/C-4-6	10-15	55013	2cDS	40.3	9.2		
31	NYS-202	80N 60W	29-Jun-94	DG1-7F/C-4-6	10-15	55014	2cLS	40.3	9.4	2.17%	
32	NYS-203	150N 100W	13-Jul-94	DG2-5B/C-0-2	0-5	56531	3aDS	41.7	8.1		
62	NYS-203	150N 100W	13-Jul-94	DG2-5B/C-0-2D	0-5	56668	3aLS	41.7	8.3	2.47%	
33	NYS-203	150N 100W	13-Jul-94	DG2-5B/C-2-4	5-10	56532	3bDS	31.9	4.7		
63	NYS-203	150N 100W	13-Jul-94	DG2-5B/C-2-4D	5-10	56669	3bLS	31.9	3.4	27.66%	II RPD > 20
34	NYS-203	150N 100W	13-Jul-94	DG2-5B/C-4-6	10-15	56533	3cDS	14.9	0.19		
64	NYS-203	150N 100W	13-Jul-94	DG2-5B/C-4-6D	10-15	56670	3cLS	14.9	0.33	73.68%	I Act < 2
35	NYS-203	150N 100W	13-Jul-94	DG2-5H/C-0-2A	0-5	56534	3dFSa	27.3	16		
38	NYS-203	150N 100W	13-Jul-94	DG2-5H/C-0-2B	0-5	56537	3dFSb	31.5	16	0.00%	
36	NYS-203	150N 100W	13-Jul-94	DG2-5H/C-2-4A	5-10	56535	3eFSa	25.1	7.0		
39	NYS-203	150N 100W	13-Jul-94	DG2-5H/C-2-4B	5-10	56538	3eFSb	27.8	7.5	7.14%	
37	NYS-203	150N 100W	13-Jul-94	DG2-5H/C-4-6A	10-15	56536	3fFSa	27.5	0.46		
40	NYS-203	150N 100W	13-Jul-94	DG2-5H/C-4-6B	10-15	56539	3fFSb	12.1	0.33	28.26%	I Act < 2

TABLE 4. Soil Activity Sorted by Quality Assurance Code for Comparison

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Cs-137 Activity (pCi/g)	Relative Percent Difference	Note
41	NYS-203	150N 100W	13-Jul-94	DG2-1F/C-0-2	0-5	56540	3gFSa	23.9	7.0		
184	NYS-208	150N 100W	13-Jul-94	DG2-1F/0-2	0-5	NYS DOH	3gFSb	NA	7.1	1.43%	
42	NYS-203	150N 100W	13-Jul-94	DG2-1F/C-2-4	5-10	56541	3hFSa	22.0	5.4		
185	NYS-208	150N 100W	13-Jul-94	DG2-1F/2-4	5-10	NYS DOH	3hFSb	NA	3.6	33.33%	II RPD > 20
43	NYS-203	150N 100W	13-Jul-94	DG2-1F/C-4-6	10-15	56542	3iFSa	18.9	1.3		
186	NYS-208	150N 100W	13-Jul-94	DG2-1F/4-6	10-15	NYS DOH	3iFSb	NA	1.2	7.69%	I Act < 2
77	NYS-204	10S 10E	14-Jul-94	DG3-5F/C-0-2	0-5	56573	4aDS	19.5	16		
95	NYS-204	10S 10E	14-Jul-94	DG3-5F/C-0-2D	0-5	56671	4aLS	19.5	15	6.25%	
78	NYS-204	10S 10E	14-Jul-94	DG3-5F/C-2-4	5-10	56574	4bDS	13.8	5.5		
96	NYS-204	10S 10E	14-Jul-94	DG3-5F/C-2-4D	5-10	56672	4bLS	13.8	5.4	1.82%	
79	NYS-204	10S 10E	14-Jul-94	DG3-5F/C-4-6	10-15	56575	4cDS	9.5	0.68		
97	NYS-204	10S 10E	14-Jul-94	DG3-5F/C-4-6D	10-15	56673	4cLS	9.5	0.53	22.06%	I Act < 2
80	NYS-204	10S 10E	14-Jul-94	DG3-5D/C-0-2A	0-5	56576	4dFSa	24.7	16		
83	NYS-204	10S 10E	14-Jul-94	DG3-5D/C-0-2B	0-5	56579	4dFSb	23.9	16	0.00%	
81	NYS-204	10S 10E	14-Jul-94	DG3-5D/C-2-4A	5-10	56577	4eFSa	16.3	12		
84	NYS-204	10S 10E	14-Jul-94	DG3-5D/C-2-4B	5-10	56580	4eFSb	21.2	12	0.00%	
82	NYS-204	10S 10E	14-Jul-94	DG3-5D/C-4-6A	10-15	56578	4fFSa	17.2	3.4		
85	NYS-204	10S 10E	14-Jul-94	DG3-5D/C-4-6B	10-15	56581	4fFSb	16.5	3.4	0.00%	
86	NYS-204	10S 10E	14-Jul-94	DG3-9F/C-0-2	0-5	56582	4gFSa	15.4	13		
187	NYS-208	10S 10E	14-Jul-94	DG3-9F/C-0-2	0-5	NYS DOH	4gFSb	NA	9.2	29.23%	II RPD > 20
87	NYS-204	10S 10E	14-Jul-94	DG3-9F/C-2-4	5-10	56583	4hFSa	11.5	5.6		
188	NYS-208	10S 10E	14-Jul-94	DG3-9F/C-2-4	5-10	NYS DOH	4hFSb	NA	4.5	19.64%	II RPD = 20
88	NYS-204	10S 10E	14-Jul-94	DG3-9F/C-4-6	10-15	56584	4iFSa	15.4	1.1		
189	NYS-208	10S 10E	14-Jul-94	DG3-9F/C-4-6	10-15	NYS DOH	4iFSb	NA	NR	100.00%	I Act < 2
104	NYS-205	E of Plant	28-Jul-94	BKG-RT240-0-2	0-5	57857	5aDS	32.8	1.0		
110	NYS-205	E of Plant	28-Jul-94	BKG-RT240-0-2	0-5	57863	5aLS	32.8	0.92	8.00%	I Act < 2

TABLE 4. Soil Activity Sorted by Quality Assurance Code for Comparison

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Cs-137 Activity (pCi/g)	Relative Percent Difference	Note
105	NYS-205	E of Plant	28-Jul-94	BKG-RT240-2-4	5-10	57858	5bDS	27.7	0.92		
111	NYS-205	E of Plant	28-Jul-94	BKG-RT240-2-4	5-10	57864	5bLS	27.7	1.1	19.57%	I Act < 2
106	NYS-205	E of Plant	28-Jul-94	BKG-RT240-4-6	10-15	57859	5cDS	22.6	0.78		
112	NYS-205	E of Plant	28-Jul-94	BKG-RT240-4-6	10-15	57865	5cLS	22.6	0.74	5.13%	I Act < 2
98	NYS-205	80N 60W	22-Jul-94	DG1-7F/R-0-2	0-5	57851	5dFSa	31.1	20		
181	NYS-208	80N 60W	22-Jul-94	DG1-7F/R-0-2	0-5	NYS DOH	5dFSb	NA	21.4	23.57%	II RPD > 20
99	NYS-205	80N 60W	22-Jul-94	DG1-7F/R-2-4	5-10	57852	5eFSa	27.6	20		
182	NYS-208	80N 60W	22-Jul-94	DG1-7F/R-2-4	5-10	NYS DOH	5eFSb	NA	10.7	46.50%	II RPD > 20
100	NYS-205	80N 60W	22-Jul-94	DG1-7F/R-4-6	10-15	57853	5fFSa	19.8	3.8		
183	NYS-208	80N 60W	22-Jul-94	DG1-7F/R-4-6	10-15	NYS DOH	5fFSb	NA	3.5	7.89%	
116	NYS-206	220N 170W	15-Aug-94	DG4-5D-0-2	0-5	60164	6aDS	24.6	15		
146	NYS-206	220N 170W	15-Aug-94	DG4-5D-0-2D	0-5	60268	6aLS	17.3	24	60.00%	II RPD > 20
117	NYS-206	220N 170W	15-Aug-94	DG4-5D-2-4	5-10	60165	6bDS	20.9	6.6		
147	NYS-206	220N 170W	15-Aug-94	DG4-5D-2-4D	5-10	60269	6bLS	15.8	4.0	39.39%	II RPD > 20
118	NYS-206	220N 170W	15-Aug-94	DG4-5D-4-6	10-15	60166	6cDS	21.8	0.95		
148	NYS-206	220N 170W	15-Aug-94	DG4-5D-4-6D	10-15	60270	6cLS	15.0	0.75	21.05%	I Act < 2
119	NYS-206	220N 170W	15-Aug-94	DG4-5F-0-2	0-5	60167	6dFSa	18.6	19		
128	NYS-206	220N 170W	15-Aug-94	DG4-5FB-0-2	0-5	60176	6dFSb	19.6	18	5.26%	
120	NYS-206	220N 170W	15-Aug-94	DG4-5F-2-4	5-10	60168	6eFSa	16.5	2.6		
129	NYS-206	220N 170W	15-Aug-94	DG4-5FB-2-4	5-10	60177	6eFSb	17.1	2.4	7.69%	
121	NYS-206	220N 170W	15-Aug-94	DG4-5F-4-6	10-15	60169	6fFSa	16.2	0.47		
130	NYS-206	220N 170W	15-Aug-94	DG4-5FB-4-6	10-15	60178	6fFSb	10.7	0.89	89.36%	I Act < 2
154	NYS-207	370N 170W	24-Oct-94	SED2/0-2	0-5	66299	7aDS	34.7	2.7		
172	NYS-207	370N 170W	24-Oct-94	SED2/0-2D	0-5	66317	7aLS	34.7	2.5	7.41%	
155	NYS-207	370N 170W	24-Oct-94	SED2/2-4	5-10	66300	7bDS	32.8	0.55		
173	NYS-207	370N 170W	24-Oct-94	SED2/2-4D	5-10	66318	7bLS	32.8	0.58	5.45%	I Act < 2

TABLE 4. Soil Activity Sorted by Quality Assurance Code for Comparison

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Cs-137 Activity (pCi/g)	Relative Percent Difference	Note
156	NYS-207	370N 170W	24-Oct-94	SED2/4-6	10-15	66301	7cDS	31.7	0.11		
174	NYS-207	370N 170W	24-Oct-94	SED2/4-6D	10-15	66319	7cLS	31.7	0.085	22.73%	I Act < 2
169	NYS-207	490N 270W	26-Oct-94	DG5-E/0-2	0-5	66314	7dDS	31.1	2.5		
175	NYS-207	490N 270W	26-Oct-94	DG5-E/0-2D	0-5	66320	7dLS	31.1	2.8	12.00%	II RPD > 20
170	NYS-207	490N 270W	26-Oct-94	DG5-E/2-4	5-10	66315	7eDS	23.5	0.29		
176	NYS-207	490N 270W	26-Oct-94	DG5-E/2-4D	5-10	66321	7eLS	23.5	0.24	17.24%	I Act < 2
171	NYS-207	490N 270W	26-Oct-94	DG5-E/4-6	10-15	66316	7fDS	23.6	0.06		
177	NYS-207	490N 270W	26-Oct-94	DG5-E/4-6D	10-15	66322	7fLS	23.6	0.058	3.33%	I Act < 2
166	NYS-207	490N 270W	26-Oct-94	DG5-N/0-2	0-5	66311	7gFSa	26.5	3.6		
190	NYS-208	490N 270W	26-Oct-94	DG5-N/0-2	0-5	NYS DOH	7gFSb	NA	2.01	44.17%	II RPD > 20
167	NYS-207	490N 270W	26-Oct-94	DG5-N/2-4	5-10	66312	7hFSa	23.9	0.16		
191	NYS-208	490N 270W	26-Oct-94	DG5-N/2-4	5-10	NYS DOH	7hFSb	NA	0.12	25.00%	I Act < 2
168	NYS-207	490N 270W	26-Oct-94	DG5-N/4-6	10-15	66313	7iFSa	21.6	0.038		
192	NYS-208	490N 270W	26-Oct-94	DG5-N/4-6	10-15	NYS DOH	7iFSb	NA	<0.04	5.26%	I Act < 2
149	NYS-207	130S 70W	06-Oct-94	SED1/0-2	0-5	66294	7jFSa	23.6	1.5		
193	NYS-208	130S 70W	06-Oct-94	SED1/0-2	0-5	NYS DOH	7jFSb	NA	1.33	11.33%	I Act < 2
209	NYS-209	80N 60W	27-Oct-94	DG1-3G/0-2	0-5	66780	9aDSa	30.0	34		
219	NYS-209	80N 60W	27-Oct-94	DG1-3G/0-2 D	0-5	66852	9aLSb	30.0	35	2.94%	
210	NYS-209	80N 60W	27-Oct-94	DG1-3G/2-4	5-10	66781	9bDSa	26.3	13		
220	NYS-209	80N 60W	27-Oct-94	DG1-3G/2-4 D	5-10	66853	9bLSb	26.3	13	0.00%	
211	NYS-209	80N 60W	27-Oct-94	DG1-3G/4-6	10-15	66782	9cDSa	22.9	0.71		
221	NYS-209	80N 60W	27-Oct-94	DG1-3G/4-6 D	10-15	66854	9cLSb	22.9	0.73	2.82%	I Act < 2
212	NYS-209	350N 400W	28-Oct-94	OF1/0-6	0-15	66783	9dFSa	21.5	1.6		
217	NYS-209	350N 400W	28-Oct-94	OF1S/0-6	0-15	66788	9dFSb	13.2	1.6	0.00%	I Act < 2
213	NYS-209	350N 400W	28-Oct-94	OF1/6-12	15-30	66784	9eFSa	18.3	0.89		
218	NYS-209	350N 400W	28-Oct-94	OF1S/6-12	15-30	66789	9eFSb	14.4	0.86	3.37%	I Act < 2

TABLE 4. Soil Activity Sorted by Quality Assurance Code for Comparison

Seq No.	Release Number	Grid Location	Date Sampled	Location Identification Code	Sample Depth (cm)	Laboratory Sample Number	Quality Assurance Code	per cent Moisture	Cs-137 Activity (pCi/g)	Relative Percent Difference	Note
222	NYS-210	10N 20W	14-Mar-95	RT-1/0-2	0-5	79004	10aFSa	NA	0.24		
234	NYS-210	10N 20W	14-Mar-95	RT-1/0-2 D	0-5	79016	10aFSb	NA	0.18	25.00%	| Act < 2
223	NYS-210	10N 20W	14-Mar-95	RT-1/2-4	5-10	79005	10bFSa	NA	0.041		
235	NYS-210	10N 20W	14-Mar-95	RT-1/2-4 D	5-10	79017	10bFSb	NA	0.0085	79.27%	| Act < 2
224	NYS-210	10N 20W	14-Mar-95	RT-1/4-6	10-15	79006	10cFSa	NA	0.034		
236	NYS-210	10N 20W	14-Mar-95	RT-1/4-6 D	10-15	79018	10cFSb	NA	0.034	0.00%	

Laboratory Analysis Correlation File
PHASE I : Coarse Grid Survey

GRID : All

DATE : Dec 93 - Jan 94

SLOPE	=	0.815
Intercept	=	0.055
R^2	=	0.968

Sample Location Designator	Teledyne Sample ID	NYSDOH Sample ID	Teledyne Result x	DOH Result y	95% Confidence Interval E	y'-E	y'+E
L3D2AB	35925	845012	0.21	0.22	0.471	-0.245	0.697
L10D1A2	35947	845017	0.43	0.40	0.452	-0.047	0.857
L5D2AB	35930	845014	0.64	0.54	0.434	0.143	1.010
L1D2B	35922	845010	1.1	1.2	0.398	0.554	1.349
L12D1B	35949	845019	1.6	0.88	0.364	0.995	1.722
L8D1B	35945	845015	3.2	2.3	0.313	2.349	2.976
L5D1AB	35929	845013	4.5	4.5	0.354	3.368	4.076
L3D1AB	35925	845011	5.4	4.8	0.416	4.039	4.872
L1D1B	35921	845009	6.7	5.6	0.533	4.982	6.048
L1D1B	35921	845009	7.5	5.6	0.614	5.553	6.781

Regression Output:	
Constant	0.0549
Std Err of Y Est	0.4296
R Squared	0.9680
No. of Observations	10
Degrees of Freedom	8
X Coefficient(s)	0.8149
Std Err of Coef.	0.0523

Sum x =	31.3
Sum x^2	165
Sum y =	26.0
Sum y^2	114.0
Sum x*y =	136.3
Avg x =	3.128
SEE =	0.4296
t a/2 =	2.306

WNYNSC Off-Site Radiation Investigation

Laboratory Analysis Correlation