

CROW BUTTE RESOURCES, INC.

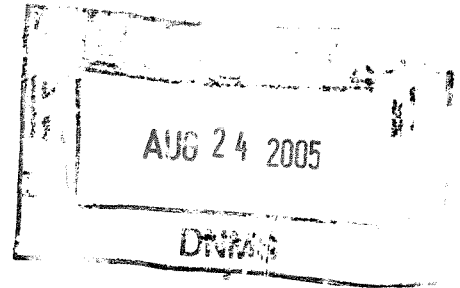
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August 19, 2005

United States Nuclear Regulatory Commission
Region IV
Material Radiation Protection Section
611 Ryan Plaza Drive
Suite 400
Arlington, Texas 76011-4005



Subject: Semiannual Radiological Effluent and Environmental Monitoring Report
Source Materials License No. SUA-1534, Docket No. 40-8943

Dear Sir or Madam::

Enclosed please find one copy of the Semiannual Radiological Effluent and Environmental Monitoring Report for the Crow Butte Uranium Project. The report is provided in accordance with License Condition 12.1 of Source Materials License SUA-1534 and 10 CFR Part 40. This report covers the first and second quarters of 2005.

If you have any questions concerning the report, please feel free to call me at (308) 665-2215.

Sincerely,
CROW BUTTE RESOURCES, INC.

Michael L. Griffin
Manager of Health, Safety, and Environmental Affairs

c: Mr. Gary Janosko
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CROW BUTTE URANIUM PROJECT
RADIOLOGICAL EFFLUENT
AND
ENVIRONMENTAL MONITORING
REPORT

for

FIRST AND SECOND QUARTERS, 2005

USNRC Source Materials License SUA 1534



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1 WATER QUALITY MONITORING DATA

1.1 Excursion Monitoring

Biweekly excursion monitoring in the shallow aquifer and perimeter monitor wells was continued in Mine Units 1 through 9 during the first and second quarters of 2005.

PR-8 and IJ-13 remain on excursion status. These monitor wells are associated with Mine Units 2 and 3, which are currently undergoing groundwater restoration.

In June 2005, two shallow monitor wells in Mine Unit 6 (SM6-12 and SM6-28) were placed on excursion status. The apparent cause of these excursions was the unusually high water levels in the wells due to recent heavy precipitation. The excursions were not related to mining operations. Water levels in this portion of the mine have returned to normal levels and SM6-28 and SM6-12 have been removed from excursion status.

In May 2005, Mine Unit 5 perimeter monitor well CM5-19 was laced on excursion status. This well had been trending up slowly for several months. Due to the layout of the mining wells in this area of Mine Unit 5, overproduction could cause excursions in adjacent wells. Corrective actions were successful at recovery of mining solutions and CM5-19 was removed from excursion status by the end of July 2005.

Excursion reports have been submitted to NRC as required in License Condition 12.2. Complete excursion monitoring results are available on site for inspection..

1.2 Water Supply Wells and Surface Water

Summary sheets of quarterly radiological analytical data for the reporting period from all surface waters and water supply wells within one kilometer of the active wellfield boundary are included in Appendix A.

The reported radiological data are within the expected ranges for each well or stream. Samples were obtained from all sample locations with the exceptions noted in Appendix A.



**First Half 2005 Semiannual Radiological Effluent
and Environmental Monitoring Report**

2 OPERATIONAL

2.1 Production Data Summary

Mining operations continued through the first and second quarters of 2005. The average operating production flow rate was 4,249 gpm for the first quarter and 4,230 gpm for the second quarter. Injection and production totals from the totalizers and the calculated bleed totals for the reporting period are included in Appendix B.

The main injection trunkline is equipped with a continuous pressure sensor. The average and maximum injection pressures for each wellhouse are included in Appendix C in the Wellfield Injection Pressure table.

2.2 Wastewater Summary

The total volume of wastewater discharged to the ponds was 2,828,030 gallons during the first quarter and 3,480,040 gallons during the second quarter. Currently, all five evaporation ponds contain wastewater.

Wastewater that is not disposed of in the evaporation ponds is injected into the Deep Disposal Well (DDW). Currently, the well is operated on a continuous basis and 19,599,979 gallons of wastewater was injected into the well during the first half of 2005. A summary of the total volume of wastewater injected and the average radionuclide content is contained in Appendix D.

2.3 Effluent Release

10 CFR §40.65 requires licensees to report quantities of radionuclides in liquid and gaseous effluent releases to the environment. In the Application for Renewal of Source Materials License SUA-1534, submitted December 1995, Table 7.3(A) presented calculations of the annual radon emissions for the Crow Butte Plant. These calculations assumed a 7.04×10^{-4} Curies/m³ radon release from leaching operations and the radon release calculations for the first half of 2005 use this release rate estimate.

During the first quarter production occurred at an average flow rate of 4,249 gpm (16,084 lpm). Production was maintained continuously for 90 days during the first quarter with an operating factor of 100%. The production flow for the first quarter results in a calculated radon release of 1,057 Curies. During the second quarter production occurred at an average flow rate of 4,230 gpm (16,012 lpm). Production was maintained nearly continuously for 91 days during the second quarter with an operating factor of 99.97%. The production flow for the second quarter results in a



First Half 2005 Semiannual Radiological Effluent and Environmental Monitoring Report

calculated radon release of 1,063 Curies. Calculations for radon release from production operations are shown in Appendix E.

Additional wells were brought on line during the first half of 2005. Calculations for the start-up of 7.3 acres of a new wellfield are shown in Appendix E. The calculated radon released from start-up of 7.3 acres is 9 Curies.

The total radon emission due to leaching operations from the Crow Butte plant for the first half of 2005 was 2,129 Curies. This calculated release rate is comparable with the releases estimated in CBR's License Renewal Application.

Radon gas is also released from restoration activities. For restoration water that is treated by ion exchange only, the radon concentration is 0.697 $\mu\text{Ci/l}$. Of the total restoration production flow it is assumed that 25% of the radon is released through wellfield loss and 10% of the remaining radon is released during pressurized ion exchange treatment. For water that is treated by reverse osmosis, it is assumed that 100% of the remaining radon is released. For water treated by reverse osmosis the radon concentration is 0.470 $\mu\text{Ci/l}$ after adjusting for wellfield loss and ion exchange loss.

During the first half of 2005, a total of 141,704,766 gallons (536,410,638 l) of restoration water was produced from Mine Units 2, 3 and 4. Based upon an estimated radon concentration of 0.697 $\mu\text{Ci/l}$, the total amount of radon in the restoration solution was calculated to be 374 Curies as shown in Appendix E. The estimated release of radon through wellfield loss at 25% of this total was 93 Curies. The plant loss for ion exchange treatment of the restoration water is estimated at 10% of the remaining radon, or 28 Curies.

Of the total amount of restoration water produced in the first half of 2005, 45,251,301 gallons (171,294,727 l) of the water was treated by reverse osmosis. The release of radon from reverse osmosis treatment is estimated to be 100% of the remaining radon, after correction for wellfield and ion exchange losses. These corrections result in an estimated radon concentration of 0.470 $\mu\text{Ci/l}$. The total estimated radon release from reverse osmosis treatment was 81 Curies. An additional 2.0 acres of wellfields were placed in restoration during the first half of 2005. The calculated radon released from start-up of 2.0 acres is 3 Curies. Calculations for the start-up of additional wellfield areas placed in restoration are shown in Appendix E.

Based upon the calculations shown in Appendix E, the total estimated semiannual radon emission for the first half of 2005 from restoration activities was 205 Curies. This resulted in a total estimated radon release from the Crow Butte project during the first half of 2005 of 2,334 Curies.



First Half 2005 Semiannual Radiological Effluent and Environmental Monitoring Report

2.4 Restoration

Restoration activities continued in Mine Units 2, 3, and 4 during the first half of 2005. Restoration injection and production totals are included in Appendix B. Restoration injection pressures are included in Appendix C.

3 ENVIRONMENTAL MONITORING

3.1 Air Monitor Stations

Seven air monitoring stations are used to monitor the Crow Butte Plant. Ambient radon-222 concentrations and radionuclide concentrations in air for each monitoring site are listed in Appendix F. All air monitoring results were within expected historical ranges.

3.2 TLD Monitors

Environmental TLD monitors are located at each air monitoring station. The results of the area TLD monitors fall within the expected ranges and are listed in Appendix G.

3.3 Stream Sediments

Sediment samples are collected from two locations on Squaw Creek and two locations on English Creek on an annual basis in October. The results of sediment sampling for 2005 will be included in the report for the second half of 2005.

Appendix A

Private Well and Surface Water Radiological Monitoring Results

First and Second Quarter, 2005

CROW BUTTE RESOURCES, INC.

PRIVATE WELL AND SURFACE WATER RADIOLOGICAL MONITORING RESULTS

FIRST QUARTER, 2005

SAMPLE ID	DATE SAMPLED	URANIUM mg/l	URANIUM µCi/ml	RADIUM-226 pCi/l	RADIUM-226 precision ±
Well #8	3/4/2005	0.010	9.09E-09	ND	-
Well #11	3/4/2005	0.008	5.00E-09	0.3	0.3
Well #12	3/4/2005	0.003	2.00E-09	ND	-
Well #24	3/4/2005	0.005	3.00E-09	ND	-
Well #25	3/4/2005	0.005	4.00E-09	ND	-
Well #26	3/4/2005	0.007	5.00E-09	ND	-
Well #27	WELL INSIDE MINE UNIT. SAMPLING DISCONTINUED.				
Well #28	WELL INOPERABLE-NO SAMPLE COLLECTED				
Well #41	WELL INOPERABLE-NO SAMPLE COLLECTED				
Well #63	3/3/2005	0.020	1.00E-08	0.4	0.3
Well #125	3/4/2005	0.007	4.00E-09	ND	-
Well #129	3/3/2005	0.008	5.00E-09	ND	-
Well #131	3/4/2005	0.004	3.00E-09	ND	-
Well #133	3/3/2005	0.008	6.00E-09	ND	-
Well #134	3/3/2005	0.010	7.00E-09	0.4	0.3
Well #135	3/3/2005	0.020	1.00E-08	0.2	0.3
Well #138	3/4/2005	0.010	1.00E-08	ND	-
Well #140	3/4/2005	0.010	7.00E-09	ND	-
Drinking Water Well	3/4/2005	0.007	5.00E-09	ND	-
Stream S-1	3/3/2005	0.004	3.00E-09	ND	-
Stream S-2	3/3/2005	0.004	3.00E-09	ND	-
Stream S-5	3/3/2005	0.005	3.00E-09	ND	-
Stream E-1	3/3/2005	0.020	1.00E-08	ND	-
Stream E-5	3/3/2005	0.009	6.00E-09	ND	-
Impoundment I-3	3/3/2005	0.030	2.00E-08	ND	-
Impoundment I-4	3/3/2005	0.030	2.00E-08	ND	-
Reporting Limit		0.000	2.00E-10	0.2	-

ND-Not detected at the reporting limit

CROW BUTTE RESOURCES, INC.

PRIVATE WELL AND SURFACE WATER RADIOLOGICAL MONITORING RESULTS

SECOND QUARTER, 2005

SAMPLE ID	DATE SAMPLED	URANIUM mg/l	URANIUM μCi/ml	RADIUM-226 pCi/l	RADIUM-226 precision \pm
Well #8	5/27/2005	0.010	9.09E-09	0.3	0.3
Well #11	WELL INOPERABLE-NO SAMPLE COLLECTED				
Well #12	5/26/2005	0.004	3.00E-09	0.3	0.3
Well #24	6/10/2005	0.005	3.00E-09	0.2	0.3
Well #25	6/10/2005	0.006	4.00E-09	0.3	0.3
Well #26	5/26/2005	0.007	5.00E-09	ND	-
Well #28	WELL INOPERABLE-NO SAMPLE COLLECTED				
Well #41	WELL INOPERABLE-NO SAMPLE COLLECTED				
Well #63	6/10/2005	0.020	1.00E-08	0.2	0.3
Well #125	6/10/2005	0.007	4.00E-09	ND	-
Well #129	5/27/2005	0.007	5.00E-09	ND	-
Well #131	6/10/2005	0.006	4.00E-09	ND	-
Well #133	6/10/2005	0.009	6.00E-09	0.5	0.3
Well #134	5/27/2005	0.010	7.00E-09	0.4	0.3
Well #135	5/27/2005	0.020	1.00E-08	0.4	0.3
Well #138	6/10/2005	0.010	9.00E-09	0.6	0.3
Well #140	5/27/2005	0.010	7.00E-09	0.4	0.3
Drinking Water Well	5/27/2005	0.007	5.00E-09	ND	-
Stream S-1	5/27/2005	0.004	3.00E-09	0.5	0.5
Stream S-2	5/27/2005	0.004	3.00E-09	0.5	0.6
Stream S-5	5/26/2005	0.005	3.00E-09	ND	-
Stream E-1 & E-2	5/26/2005	0.020	1.00E-08	0.3	0.3
Stream E-5	5/27/2005	0.004	3.00E-09	ND	-
Impoundment I-3	5/27/2005	0.020	1.00E-08	ND	-
Impoundment I-4	5/27/2005	0.010	7.00E-08	0.2	0.3
Reporting Limit		0.0003	2.00E-10	0.2	-

ND-Not detected at the reporting limit

Appendix B

Plant Production and Waste Totals

First and Second Quarter, 2005

WASTE VOLUME
First Quarter 2005

TOTALIZER	PLANT TO PONDS	PLANT TO DDW	RESTORATION TO DDW	CLEAN WATER INTO PLANT	DDW TOTAL INJECTED	TRUCKS TO POND
January	923,970	511,877	2,911,861	497,128	3,423,738	
February	864,200	506,352	2,545,318	395,062	3,051,670	
March	991,310	795,159	2,549,298	484,174	3,344,457	
TOTAL GAL. EQ	2,779,480	1,813,388	8,006,477	1,376,364	9,819,865	48,550

TOTAL 1st QTR VOLUME DISCHARGED TO WASTE PONDS =

TOTAL 1st QTR VOLUME DISCHARGED TO DEEP WELL =

TOTAL 1st QTR VOLUME DISCHARGED TO WASTE PONDS + DPWELL =

TOTAL 1st QTR VOLUME WF BLEED FROM WELLFIELDS =

2,828,030 GALLONS
9,819,865 GALLONS
12,598,345 GALLONS
11,222,981 GALLONS

WELLFIELD BLEED

First Quarter 2005			
MONTH	January	February	March
BLEED	0.5%	0.6%	0.7%

PLANT FLOW

First Quarter 2005

AVERAGE OPERATING FLOW RATE =

TOTAL GALLONS PRODUCED =

TOTAL GALLONS INJECTED =

4,249 GPM EQ
562,958,422 GALLONS EQ
529,760,343 GALLONS EQ

	TOTAL GALS. PRODUCED	TOTAL GALS. INJECTED	HOURS IN MONTH	HOURS IN PRODUCTION	AVERAGE PROD. GPM	AVERAGE COM INJ GPM	AVERAGE REST INJ GPM	HRS. DOWN TIME
Prev. YTD	1,720,670,647	1,661,942,986	6,600	6,565				
January	195,615,844	185,069,281	744	744	4,382	4,146		
February	174,685,022	163,914,538	720	720	4,044	3,794	442	
March	192,657,555	180,776,524	744	744	4,316	4,050	422	
EQQ TOTAL	562,958,422	529,760,343	2,208	2,208	4,249	3,999	463	
YTD TOTAL	2,283,629,069	2,191,703,329	8,808	8,773	4,321	4,147	442	

	TOTAL MUJI GALS PRODUCED	TOTAL MUJII GALS PRODUCED	TOTAL MUIV GALS PRODUCED	TOTAL BRINE GALS PRODUCED	TOTAL PERM GALS PRODUCED	COMM BLEED TO RO FEED	MUJII BLEED TO DDW
Prev. YTD	0	0	0	0	0	0	0
January	488,427	10,378,686	14,075,557	2,514,622	6,689,428	10,098	397,239
February	433,745	9,396,625	12,484,142	2,191,549	5,923,621	9,593	353,769
March	466,106	10,252,949	14,201,679	848,399	6,359,665	9,945	1,700,899
EQQ TOTAL	1,388,278	30,028,260	40,761,378	5,554,570	18,972,714	29,636	2,451,907
YTD TOTAL	1,388,278	30,028,260	40,761,378	5,554,570	18,972,714	29,636	2,451,907

WASTE VOLUME
Second Quarter 2005

TOTALIZER	PLANT TO PONDS	PLANT TO DDW	RESTORATION TO DDW	CLEAN WATER INTO PLANT	DDW TOTAL INJECTED	TRUCKS TO POND
April	1,196,710	1,511,193	1,716,663	439,426	3,227,856	
May	1,613,560	1,003,564	2,239,994	412,311	3,243,558	
June	627,320	1,300,271	1,968,429	399,187	3,268,700	
TOTAL GAL. EQ	3,437,590	3,815,028	5,925,086	1,250,924	9,740,114	42,450

TOTAL 2nd QTR VOLUME DISCHARGED TO WASTE PONDS =

TOTAL 2nd QTR VOLUME DISCHARGED TO DEEP WELL =	3,480,040 GALLONS
TOTAL 2nd QTR VOLUME DISCHARGED TO WASTE PONDS + DPWELL =	9,740,114 GALLONS
TOTAL 2nd QTR VOLUME WF BLEED FROM WELLFIELDS =	13,177,704 GALLONS
	11,926,780 GALLONS

WELLFIELD BLEED

Second Quarter 2005			
MONTH	April	May	June
BLEED	1.2%	1.2%	0.9%

PLANT FLOW

Second Quarter 2005

AVERAGE OPERATING FLOW RATE =

TOTAL GALLONS PRODUCED =

TOTAL GALLONS INJECTED =

4,230 GPM EQ
554,278,961 GALLONS EQ
511,362,539 GALLONS EQ

	TOTAL GALS. PRODUCED	TOTAL GALS. INJECTED	HOURS IN MONTH	HOURS IN PRODUCTION	AVERAGE PROD. GPM	AVERAGE COM INJ GPM	AVERAGE REST INJ GPM	HRS. DOWN TIME
Prev. YTD	562,958,422	529,760,343	2,250	2,250				
April	183,809,939	171,302,817	720	720	4,255	3,965	458	0
May	190,197,826	175,675,589	744	744	4,261	3,935	449	0
June	180,271,195	164,384,133	720	720	4,173	3,805	446	0
EQ TOTAL	554,278,961	511,362,539	2,184	2,184	4,230	3,902	451	0
YTD TOTAL	1,117,237,363	1,041,122,882	4,434	4,434	4,200	3,913	442	0

	TOTAL MUJI GALS PRODUCED	TOTAL MUJII GALS PRODUCED	TOTAL MUJIV GALS PRODUCED	TOTAL BRINE GALS PRODUCED	TOTAL PERM GALS PRODUCED	COMM BLEED TO RO FEED	MUJII BLEED TO DDW
Prev. YTD	1,388,278	30,028,260	40,761,378	5,554,570	18,972,714	29,636	2,451,907
April	452,882	9,305,245	14,002,546	1,319,424	6,212,078	10,377	397,239
May	469,224	8,797,300	14,436,037	1,886,225	5,810,851	10,336	353,769
June	640,441	7,674,297	13,748,878	629,322	4,925,249	8,783	1,339,107
EQ TOTAL	1,562,547	25,776,842	42,187,461	3,834,971	16,948,178	29,496	2,090,115
YTD TOTAL	2,950,825	55,805,102	82,948,839	9,389,541	35,920,892	59,132	4,542,022

Appendix C

Wellfield Injection Pressures

First and Second Quarter, 2005

WELLFIELD INJECTION PRESSURE

First Quarter 2005

WF HOUSE #1			WF HOUSE #2			WF HOUSE #3			WF HOUSE #4			WF HOUSE #5		
AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM	
January	0	0	0	0	0	0	0	0	20	26	9	18		
February	0	0	0	0	0	0	0	0	19	30	9	15		
March	0	0	0	0	0	0	0	0	21	28	10	18		
AVERAGE	0	0	0	0	0	0	0	0	20	30	9	18		
WF HOUSE #6			WF HOUSE #7			WF HOUSE #8			WF HOUSE #9			WF HOUSE #10		
AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM	
January	36	43	12	17	28	36	36	33	33	38	0	0	0	
February	32	37	8	14	24	32	32	41	41	50	0	0	0	
March	34	38	12	16	25	30	30	51	51	74	0	0	0	
AVERAGE	34	43	11	17	26	36	36	42	42	74	0	0	0	
WF HOUSE #11			WF HOUSE #12			WF HOUSE #13			WF HOUSE #14			WF HOUSE #15		
AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM	
January	0	0	35	41	29	35	35	90	93	41	46			
February	0	0	42	50	37	45	45	80	95	48	59			
March	0	0	52	75	48	72	72	92	93	58	78			
AVERAGE	0	0	43	75	38	72	72	87	95	49	78			
WF HOUSE #16			WF HOUSE #17			WF HOUSE #18			WF HOUSE #19			WF HOUSE #20		
AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM	
January	0	0	75	76	0	0	0	27	60	83	85			
February	0	0	68	78	0	0	0	60	70	76	95			
March	0	0	76	78	0	0	0	72	92	84	87			
AVERAGE	0	0	73	78	0	0	0	53	92	81	95			
WF HOUSE #21			WF HOUSE #22			WF HOUSE #23			WF HOUSE #24			WF HOUSE #25		
AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM	
January	97	98	95	98	0	0	0	96	98	95	98			
February	88	98	86	97	0	0	0	87	98	86	96			
March	98	99	95	95	0	0	0	96	98	95	97			
AVERAGE	94	99	92	98	0	0	0	93	98	92	98			
WF HOUSE #26			WF HOUSE #27			WF HOUSE #28			WF HOUSE #29			WF HOUSE #30		
AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM	
January	96	98	95	97	0	0	0	71	98	57	63			
February	86	98	86	97	0	0	0	59	68	53	60			
March	97	98	95	98	0	0	0	66	68	59	62			
AVERAGE	93	98	92	98	0	0	0	65	98	56	63			
WF HOUSE #31			WF HOUSE #32			WF HOUSE #33			WF HOUSE #34			WF HOUSE #35		
AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM	
January	91	95	42	44	98	99	99	97	99	96	98			
February	82	95	38	45	88	99	99	86	99	87	98			
March	92	94	42	46	98	99	99	97	99	96	98			
AVERAGE	88	95	41	46	95	99	99	94	99	93	98			
WF HOUSE #36			WF HOUSE #37			WF HOUSE #38			WF HOUSE #39			WF HOUSE #40		
AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM	
January	97	99	97	98	97	99	99	90	98	0	0			
February	87	99	84	97	87	99	99	85	98	0	0			
March	97	99	93	98	96	98	98	95	98	0	0			
AVERAGE	94	99	91	98	93	99	99	90	98	0	0			
WF HOUSE #41			WF HOUSE #42			WF HOUSE #43								
AVERAGE	MAXIMUM		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM							
January	51	54	38	42	43	46	46							
February	47	55	35.9	42	40	47	47							
March	52	55	41	44	45	49	49							
AVERAGE	50	55	38	44	43	49	49							

WELLFIELD INJECTION PRESSURE
Second Quarter 2005

	WF HOUSE #1		WF HOUSE #2		WF HOUSE #3		WF HOUSE #4		WF HOUSE #5	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	0	0	0	0	0	0	21	25	9	12
May	0	0	0	0	0	0	22	52	10	40
June	0	0	0	0	0	0	31	80	19	70
AVERAGE	0	0	0	0	0	0	25	80	13	70
	WF HOUSE #6		WF HOUSE #7		WF HOUSE #8		WF HOUSE #9		WF HOUSE #10	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	36	38	3	15	27	36	70	73	0	0
May	26	38	0	0	17	47	69	74	0	0
June	26	34	0	0	18	30	72	80	0	0
AVERAGE	29	38	1	15	21	47	70	80	0	0
	WF HOUSE #11		WF HOUSE #12		WF HOUSE #13		WF HOUSE #14		WF HOUSE #15	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	0	0	69	75	63	68	93	95	74	78
May	0	0	73	77	65	68	93	95	74	78
June	0	0	73	76	66	71	94	98	75	80
AVERAGE	0	0	72	77	65	71	93	98	74	80
	WF HOUSE #16		WF HOUSE #17		WF HOUSE #18		WF HOUSE #19		WF HOUSE #20	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	0	0	77	79	0	0	88	90	85	88
May	0	0	77	80	3	90	87	98	85	85
June	3	95	78	85	0	0	88	95	86	95
AVERAGE	1	95	77	85	1	90	88	98	85	95
	WF HOUSE #21		WF HOUSE #22		WF HOUSE #23		WF HOUSE #24		WF HOUSE #25	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	97	98	95	96	0	0	96	98	95	97
May	98	99	95	99	0	0	97	98	96	98
June	97	99	95	98	0	0	92	98	93	99
AVERAGE	98	99	95	99	0	0	95	98	95	99
	WF HOUSE #26		WF HOUSE #27		WF HOUSE #28		WF HOUSE #29		WF HOUSE #30	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	98	99	96	98	0	0	67	68	59	60
May	96	98	98	99	0	0	67	70	59	62
June	92	98	85	99	0	0	66	71	59	67
AVERAGE	95	99	93	99	0	0	67	71	59	67
	WF HOUSE #31		WF HOUSE #32		WF HOUSE #33		WF HOUSE #34		WF HOUSE #35	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	93	95	42	45	77	99	97	98	98	99
May	44	92	43	46	44	48	97	98	97	99
June	31	40	42	48	43	50	93	99	94	99
AVERAGE	56	95	42	48	54	99	96	99	96	99
	WF HOUSE #36		WF HOUSE #37		WF HOUSE #38		WF HOUSE #39		WF HOUSE #40	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	97.6	99	95	97	97	99	97	99	0	0
May	96	98	97	98	98	99	95	99	0	0
June	93	98	93	98	94	99	93	98	0	0
AVERAGE	96	99	95	98	96	99	95	99	0	0
	WF HOUSE #41		WF HOUSE #42		WF HOUSE #43		WF HOUSE #43		WF HOUSE #43	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	53	60	41	47	45	52				
May	52	55	39.4	44	43	47				
June	51	54	40	41	43	47				
AVERAGE	52	60	40	47	44	52				

Appendix D

Deep Disposal Well Injection Radiological Data

First and Second Quarter, 2005

Crow Butte Uranium Mine
Deep Disposal Well Injection Radiological Data

Month	Total Gallons Injected	Average Natural Uranium (mg/l)	Total Natural Uranium Injected (mg)	Total Natural Uranium Injected (uCi)	Average Radium-226 (pCi/l)	Total Radium-226 Injected (uCi)
January-05	3,423,738	7	9.07E+07	6.14E+04	1,160	1.50E+04
February-05	3,051,670	8	9.24E+07	6.26E+04	1,280	1.48E+04
March-05	3,344,457	6	7.60E+07	5.14E+04	1,200	1.52E+04
April-05	3,227,856	8	9.77E+07	6.62E+04	1,100	1.34E+04
May-05	3,243,558	4	4.91E+07	3.32E+04	1,250	1.53E+04
June-05	3,268,700	5	6.19E+07	4.19E+04	855	1.06E+04
Totals	19,559,979		4.68E+08	3.17E+05		8.44E+04

Appendix E

Radon Release Calculations

First and Second Quarter, 2005

Radon Effluent Release Calculation (Production and Startup)

First Quarter 2005 Radon Release from Leaching Operations:

<i>Curies/M3</i>	<i>Production Flow (liters)</i>	<i>Radon-222 Decay Constant</i>	<i>Operating Days</i>	<i>Operating Factor</i>	<i>M3/liter conversion</i>	<i>Hours/Day Conversion</i>	<i>Minutes/Hour Conversion</i>	<i>Total Radon Release from Leaching</i>
7.04E-04	16,084	0.72	90	100.0%	0.001	24	60	1,057

Second Quarter 2005 Radon Release from Leaching Operations:

<i>Curies/M3</i>	<i>Production Flow (liters)</i>	<i>Radon-222 Decay Constant</i>	<i>Operating Days</i>	<i>Operating Factor</i>	<i>M3/liter conversion</i>	<i>Hours/Day Conversion</i>	<i>Minutes/Hour Conversion</i>	<i>Total Radon Release from Leaching</i>
7.04E-04	16,012	0.72	91	100.0%	0.001	24	60	1,063

First Half 2005 Radon Release From Startup:

<i>Curies/M3</i>	<i>Total Acres of New Wellfield</i>	<i>Meter3/Acre Conversion</i>	<i>Orebody Thickness (meters)</i>	<i>Porosity</i>	<i>Total Radon Release from Startup</i>
7.04E-04	7	4,074	1.52	0.29	9

Total Estimated Radon Release from Production:

2,129

Radon Effluent Release Calculation (Restoration)

First Half 2005 Radon Release From Restoration:

<i>Total Restoration Flow (liters)</i>	<i>Microcuries/liter</i>	<i>Curies/Microcurie</i>	<i>Production Potential</i>
536,410,638	0.697	1.00E-06	374

Wellfield Loss (25% of Production Potential):

93

Ion Exchange Loss (10% of Production Potential minus Wellfield Loss):

28

Reverse Osmosis Loss (100% of remaining activity at 0.470 microcuries/liter)

81

<i>Total Reverse Osmosis Flow (liters)</i>	<i>Microcuries/liter</i>	<i>Curies/Microcurie</i>
171,294,727	0.470	1.00E-06

First Half 2005 Radon Release From Startup of New Restoration:

<i>Curies/M3</i>	<i>Total Acres of New Wellfield</i>	<i>Meter3/Acre Conversion</i>	<i>Orebody Thickness (meters)</i>	<i>Porosity</i>	<i>Total Radon Release from Startup</i>
7.04E-04	2.0	4074	1.52	0.29	3

Total Estimated Radon Release from Restoration:

205

Total Estimated Radon Release, First Half 2005:

2,334

Appendix F

Environmental Air Monitoring Results

First and Second Quarter, 2005

Crow Butte Resources, Inc.
Crow Butte Uranium Project

Track Etch Cup Ambient Radon Concentrations

***Air Monitoring Station
No.***

Period: January 3, 2005 to July 5, 2005

	Gross Count	Average Radon Concentration (x 10 ⁻⁹ µCi/ml)	Accuracy (x 10 ⁻⁹ µCi/ml)	Percent Effluent Concentration
AM-1	70.1	0.4	0.05	4.0%
AM-2	110.8	0.6	0.06	6.0%
AM-3	55.9	0.3	0.04	3.0%
AM-4	82.2	0.4	0.04	4.0%
AM-5	131.7	0.7	0.06	7.0%
AM-6	52.6	0.3	0.04	3.0%
AM-8	106.4	0.6	0.06	6.0%
AB-1 (AM-1 Duplicate)	46	0.3	0.04	3.0%
AB-2 (AM-2 Duplicate)	104.2	0.6	0.06	6.0%
AB-3 (AM-3 Duplicate)	30.7	0.2	0.04	2.0%
AB-5 (AM-5 Duplicate)	146.0	0.8	0.07	8.0%
AB-6 (AM-6 Duplicate)	44.9	0.2	0.03	2.0%
AB-8 (AM-8 Duplicate)	87.7	0.5	0.05	5.0%
LLD (x 10 ⁻⁹ µCi/ml)				0.2
Effluent Concentration Limit, 10 CFR 20 App B Column 2:				10

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 25, 2005

SAMPLE ID: AM-1

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05040208-001 01/03/2005 - 04/01/2005 Air Volume in mLs 5.15E+09	^{nat} U	1.54E-16	N/A	1.00E-16	9.00E-14	1.71E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	2.08E-14	1.44E-15	2.00E-15	6.00E-13	3.47E+00

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05070304-001 04/04/2005 - 07/05/2005 Air Volume in mLs 5.80E+09	^{nat} U	1.75E-16	N/A	1.00E-16	9.00E-14	1.95E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	1.02E-14	1.28E-15	2.00E-15	6.00E-13	1.70E+00

Final prep volume is 0.95 liter

LLD's are from Reg. Guide 4.14

*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2

Year for Natural Uranium

Week for Radium-226

Day for Lead-210

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HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 25, 2205

SAMPLE ID: AM-2

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05040208-002 01/03/2005 - 04/01/2005 Air Volume in mLs 4.79E+09	^{nat} U	9.22E-16	N/A	1.00E-16	9.00E-14	1.02E+00
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	2.16E-14	1.55E-15	2.00E-15	6.00E-13	3.59E+00

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05070304-002 4/1/2005 - 7/5/2005 Air Volume in mLs 5.42E+09	^{nat} U	1.71E-15	N/A	1.00E-16	9.00E-14	1.90E+00
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	9.26E-15	1.33E-15	2.00E-15	6.00E-13	1.54E+00

Final prep volume is 0.95 liter

LLD's are from Reg. Guide 4.14

*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2

Year for Natural Uranium

Week for Radium-226

Day for Lead-210

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HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 25, 2005

SAMPLE ID: AM-3

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05040208-003 01/03/2005 - 04/01/2005 Air Volume in mLs 4.92E+09	^{nat} U	1.95E-16	N/A	1.00E-16	9.00E-14	2.17E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	2.10E-14	1.50E-15	2.00E-15	6.00E-13	3.50E+00

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05070304-003 4/1/2005 - 7/5/2005 Air Volume in mLs 5.65E+09	^{nat} U	3.09E-16	N/A	1.00E-16	9.00E-14	3.44E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	1.05E-14	1.31E-15	2.00E-15	6.00E-13	1.75E+00

Final prep volume is 0.95 liter

LLD's are from Reg. Guide 4.14

*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2

Year for Natural Uranium

Week for Radium-226

Day for Lead-210

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HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 25, 2005

REVISED REPORT DATE: August 9, 2005

SAMPLE ID: AM-4

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05040208-004 01/03/2005 - 04/01/2005 Air Volume in mLs 5.28E+09	^{nat} U	1.82E-16	N/A	1.00E-16	9.00E-14	2.02E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	1.96E-14	1.40E-15	2.00E-15	6.00E-13	3.26E+00

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05070304-004 4/1/2005 - 7/5/2005 Air Volume in mLs 6.03E+09	^{nat} U	3.42E-16	N/A	1.00E-16	9.00E-14	3.80E-01
	²²⁶ Ra	1.31E-15	2.36E-16	1.00E-16	9.00E-13	1.45E-01
	²¹⁰ Pb	1.43E-14	1.31E-15	2.00E-15	6.00E-13	2.39E+00

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05070304-004Recheck 4/1/2005 - 7/5/2005 Air Volume in mLs 6.03E+09	²²⁶ Ra	1.61E-15	2.68E-16	1.00E-16	9.00E-13	1.78E-01

Final prep volume is 0.95 liter

LLD's are from Reg. Guide 4.14

*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2

Year for Natural Uranium

Week for Radium-226

Day for Lead-210

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HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 25, 2005

SAMPLE ID: AM-5

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05040208-005 01/03/2005 - 04/01/2005 Air Volume in mLs 5.09E+09	^{235}U	3.49E-16	N/A	1.00E-16	9.00E-14	3.88E-01
	^{226}Ra	1.31E-16	1.12E-16	1.00E-16	9.00E-13	1.45E-02
	^{210}Pb	1.80E-14	1.42E-15	2.00E-15	6.00E-13	3.01E+00

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05070304-005 4/1/2005 - 7/5/2005 Air Volume in mLs 5.64E+09	^{235}U	2.92E-16	N/A	1.00E-16	9.00E-14	3.24E-01
	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	^{210}Pb	1.13E-14	1.33E-15	2.00E-15	6.00E-13	1.89E+00

Final prep volume is 0.95 liter

LLD's are from Reg. Guide 4.14

*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2

Year for Natural Uranium

Week for Radium-226

Day for Lead-210

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HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 25, 2005

SAMPLE ID: AM-6

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05040208-006 01/03/2005 - 04/01/2005 Air Volume in mLs 4.99E+09	^{nat} U	1.05E-16	N/A	1.00E-16	9.00E-14	1.16E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	1.84E-14	1.45E-15	2.00E-15	6.00E-13	3.07E+00

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05070304-006 4/1/2005 - 7/5/2005 Air Volume in mLs 5.91E+09	^{nat} U	1.24E-16	N/A	1.00E-16	9.00E-14	1.37E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	1.08E-14	1.27E-15	2.00E-15	6.00E-13	1.80E+00

Final prep volume is 0.95 liter

LLD's are from Reg. Guide 4.14

*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2

Year for Natural Uranium

Week for Radium-226

Day for Lead-210

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HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 25, 2005

SAMPLE ID: AM-8

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05040208-007 01/03/2005 - 04/01/2005 Air Volume in mLs: 4.95E+09	^{235}U	1.72E-16	N/A	1.00E-16	9.00E-14	1.91E-01
	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	^{210}Pb	1.62E-14	1.42E-15	2.00E-15	6.00E-13	2.71E+00

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C05070304-007 4/1/2005 - 7/5/2005 Air Volume in mLs: 4.78E+09	^{235}U	2.90E-16	N/A	1.00E-16	9.00E-14	3.22E-01
	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	^{210}Pb	9.53E-15	1.49E-15	2.00E-15	6.00E-13	1.59E+00

Final prep volume is 0.95 liter

LLD's are from Reg. Guide 4.14

*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2

Year for Natural Uranium

Week for Radium-226

Day for Lead-210

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Appendix G

Environmental TLD Monitoring Results

First and Second Quarter, 2005

Crow Butte Resources
 Attn: Rhonda Grantham
 PO Box 169
 Crawford, NE 69339

SPHERICAL X9 ENVIRONMENTAL REPORT

Prepared by Landauer, Inc.

Account Number: 306192

Process Number: X9SP GG043
 Received Date: 5-Apr-05
 Report Date: 19-Apr-05
 Released by: LCC

Participant No.	Name/Description	Net Values after control subtraction										
		Mean Ambient					Mean Ambient		95% Confidence			
		Reading 1 (mrem)	Reading 2 (mrem)	Reading 3 (mrem)	Reading 4 (mrem)	Reading 5 (mrem)	Dose Equivalent (mrem)	Dose Equivalent (mrem)	Standard Deviation (mrem)	Interval (mrem)		
Quarterly Monitoring Period starting: January 1, 2005												
Control		47	47	46	47	34	44			5.7	7.1	
1001	AM-1	54	53	55	55	52	54	10		1.3	1.6	
1002	AM-2	52	53	55	52	56	54	10		1.8	2.3	
1003	AM-6	50	55	54	52	51	52	8		2.1	2.6	
1008	AM-8	59	54	55	53	57	56	12		2.4	3.0	
1009	AM-3	54	56	52	58	55	55	11		2.2	2.8	
1010	AM-4	54	53	52	53	53	53	9		0.7	0.9	
1011	AM-5	53	53	53	52	54	53	9		0.7	0.9	

95% Confidence Interval is based on the standard error of the mean

Crow Butte Resources
 Attn: Rhonda Grantham
 PO Box 169
 Crawford, NE 69339

SPHERICAL X9 ENVIRONMENTAL REPORT

Prepared by Landauer, Inc.

Account Number: 306192

Process Number: X9SP GG445
 Received Date: 8-Jul-05
 Report Date: 15-Jul-05
 Released by: LCC

Net Values
 after control
 subtraction

Participant No.	Name/Description	Mean Ambient					Dose		Mean Ambient	Standard	95%
		Reading 1	Reading 2	Reading 3	Reading 4	Reading 5	Equivalent	Equivalent			
		(mrem)	(mrem)	(mrem)	(mrem)	(mrem)	(mrem)	(mrem)	(mrem)	(mrem)	Confidence
											Interval
											(mrem)
Quarterly Monitoring Period starting:											
April 1, 2005											
Control		22	27	27	26	26	26			2.1	2.6
1001	AM-1	28	42	39	36	37	36	10		5.2	6.5
1002	AM-2	33	31	34	34	35	33	7		1.5	1.9
1003	AM-6	37	36	36	36	58	41	15		9.7	12.1
1008	AM-8	40	34	32	40	36	36	10		3.6	4.4
1009	AM-3	31	35	35	42	40	37	11		4.4	5.4
1010	AM-4	38	35	35	38	36	36	10		1.5	1.9
1011	AM-5	39	40	36	44	38	39	13		3.0	3.7

95% Confidence Interval is based on the standard error of the mean