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August 19, 2024

**VIA PDF AND FEDERAL EXPRESS**

Daniel Czecholinski, Director  
Division of Air Quality  
Arizona Department of Environmental Quality  
Technical Services Unit  
1110 West Washington Street  
Phoenix, AZ 85007

**Subject: Energy Fuels Resources (USA) Inc. Pinyon Plain Mine 2nd Quarter 2024  
Environmental Gamma Monitoring Results –Air Quality Class II Permit No.  
88788**

Dear Mr. Czecholinski:

Attached please find the Environmental Gamma Monitoring Results for the Pinyon Plain Mine for 2nd Quarter 2024. The Environmental Gamma Monitoring Results are required by Section II.B.1.b of Attachment D to the Arizona Department of Environmental Quality (“ADEQ”) Air Quality Class II Permit No. 88788 (the “Permit”) for the Pinyon Plain Mine. Also attached is a certification signature as required by VIII of Attachment A to the Permit.

If you have any questions or comments, please do not hesitate to contact me at 303-389-4131.

Yours very truly,

A handwritten signature in black ink that reads 'Jordan App'.

**ENERGY FUELS RESOURCES (USA) INC.**  
Jordan App  
Environmental Scientist

cc: Scott Bakken  
Travis Chiotti  
Matt Germansen  
Chris Greb  
Nick Martin  
Tyler Martin  
Kathy Weinel  
Travis Chiotti

**ENVIRONMENTAL GAMMA MONITORING REPORT  
FOR 2nd QUARTER 2024**

**ENERGY FUELS RESOURCES (USA) INC.**



**PINYON PLAIN MINE  
6.5 MILES SOUTHEAST OF TUSAYAN  
COCONINO COUNTY, ARIZONA**

**August 19, 2024**

**PREPARED BY:  
Energy Fuels Resources (USA) Inc.  
225 Union Boulevard, Ste. 600  
Lakewood, Colorado 80228**

Contents

1.0 Introduction ..... 1

2.0 Radiation Monitoring Activities ..... 1

3.0 Trigger Levels..... 2

4.0 Analysis of Findings ..... 2

5.0 Certification..... 3

**Appendices**

Appendix A            Pinyon Plain OSL (Badge) Results

**FIGURES**

Figure 1            Sampling and Monitoring Location Map

**Pinyon Plain Mine  
Air Quality Control Permit No. 88788**

**1.0 Introduction**

The Pinyon Plain Mine (the “Mine”) is an underground uranium mine, operated by Energy Fuels Resources (USA) Inc. (“EFRI”). The Mine is located 6.5 miles southeast of Tusayan in Coconino County, Arizona. The Mine is capable of producing a maximum of 109,500 tons per year of uranium ore. Ore is hauled to the White Mesa Mill (the “Mill”), near Blanding, Utah for processing. No ore processing occurs on site when operating. The site contains a mine shaft, ventilation shaft, office building, head-frame and associated hoist and maintenance building, septic vault, ore stockpiles, development rock stockpiles, topsoil stockpiles, other facilities associated with the mine operation and a lined non-stormwater impoundment. The location of the Mine is shown on Figure 1.

Pursuant to Attachment D, Section II.A of the Arizona Department of Environmental Quality (ADEQ”) Air Quality Control Permit, Number 88788 (the “Permit”), EFRI is required to conduct soil and gamma monitoring at six locations outside of the mine site. The locations are shown on Figure 1. The frequency of monitoring is described in Section 2 below.

This report presents the gamma monitoring results for the Mine as required by the Permit and as described below.

**2.0 Radiation Monitoring Activities**

Pursuant to the current Permit, approved on October 20, 2021, soil and passive gamma monitoring are required to be conducted in accordance with the ADEQ-approved standard Operating Procedures (“SOPs”) included as Appendices 2 and 3 of the Permit. Attachment D, Section II.B.1.b requires that Optically Stimulated Luminescence (“OSL”) monitors for passive gamma be collected on a calendar quarter basis. Attachment D, Section II.B.2.b requires that soil samples be collected within 60 days of Permit issuance and subsequent samples be collected quarterly for one year and annually thereafter. Reporting of both soil and gamma data are required within 30 days of data receipt.

Soil data will be reported under separate cover in a later quarter within 30 days of data receipt in accordance with the Permit requirements.

### **3.0 Trigger Levels**

Attachment D, Section II.B.3.c specifies Initial Action Trigger Levels (“trigger levels”) for uranium and radium-226 concentrations in soil and passive gamma. The ADEQ-approved trigger levels were developed as described in the ADEQ Technical Review and Evaluation of Application for Air Quality Significant Revision and in the report entitled *Development of the Proposed Trigger Levels for Energy Fuel’s Arizona Mines*.

The trigger level for passive gamma is 50  $\mu\text{R/hr}$ . (7.8 mrem/week). The passive gamma results reported herein were compared to this trigger level.

### **4.0 Analysis of Findings**

Passive gamma results are included in Appendix A.

The passive gamma results for Q2 2024 are below the trigger levels specified in the Permit. No additional reporting as contemplated in Attachment D, Section II.B.3.c and Section II.B.3.d is required.

Pinyon Plain Air Quality Control  
Permit No. 88788  
Aug. 19, 2024

### 5.0 Certification

**ENERGY FUELS RESOURCES (USA) INC.  
PINYON PLAIN MINE, AIR QUALITY CONTROL PERMIT NUMBER 88788  
CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS**

Based on information and belief formed after reasonable inquiry, the statements and information in the foregoing document are true, accurate, and complete.



8/19/24

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Signature of Responsible Official  
Scott Bakken  
Vice President, Regulatory Affairs

Date

**APPENDIX A**  
**PINYON PLAIN OSL (BADGE) RESULTS**

**Badge 66 - Pinyon Plain - South Badge**

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient		mRem / Week	mRem/wk* time
						Dose Equivalent	Dose Equivalent		
<b>2013</b>									
First Quarter 2013	66	Pinyon Plain Site	12/31/2012	3/28/2013	87	34.0	2.74	238.00	
Second Quarter 2013	66	Pinyon Plain Site	3/28/2013	6/26/2013	90	36.3	2.82	254.10	
Third Quarter 2013	66	Pinyon Plain Site	6/26/2013	9/30/2013	96	40.1	2.92	280.70	
Fourth Quarter 2013	66	Pinyon Plain Site	9/30/2013	1/2/2014	94	37.5	2.79	262.50	
			<b>Sum</b>		<b>367</b>			<b>1035.30</b>	
			<b>Time weighted average</b>					<b>2.82</b>	
<b>2014</b>									
First Quarter 2014	66	Pinyon Plain Site	1/2/2014	3/27/2014	84	36.3	3.03	254.52	
Second Quarter 2014	66	Pinyon Plain Site	3/27/2014	6/27/2014	92	42.7	3.25	299.00	
Third Quarter 2014	66	Pinyon Plain Site	6/27/2014	9/25/2014	90	49.4	3.82	343.80	
Fourth Quarter 2014	66	Pinyon Plain Site	9/25/2014	1/2/2015	99	41.9	2.96	293.04	
			<b>Sum</b>		<b>365</b>			<b>1190.36</b>	
			<b>Time weighted average</b>					<b>3.26</b>	
<b>2015</b>									
First Quarter 2015	66	Pinyon Plain Site	1/2/2015	4/1/2015	89	35.2	2.77	246.53	
Second Quarter 2015	66	Pinyon Plain Site	4/1/2015	7/1/2015	91	38.1	2.93	266.63	
Third Quarter 2015	66	Pinyon Plain Site	7/1/2015	9/25/2015	86	38.9	3.17	272.62	
Fourth Quarter 2015	66	Pinyon Plain Site	9/25/2015	1/7/2016	104	42.4	2.85	296.40	
			<b>Sum</b>		<b>370</b>			<b>1082.18</b>	
			<b>Time weighted average</b>					<b>2.92</b>	
<b>2016</b>									
First Quarter 2016	66	Pinyon Plain Site	1/7/2016	3/31/2016	86	51.0	4.15	356.90	
Second Quarter 2016	66	Pinyon Plain Site	3/31/2016	7/7/2016	98	41.8	2.99	293.02	
Third Quarter 2016	66	Pinyon Plain Site	7/7/2016	10/10/2016	95	45.5	3.35	318.25	
Fourth Quarter 2016	66	Pinyon Plain Site	10/10/2016	1/3/2017	85	42.1	3.52	299.20	
			<b>Sum</b>		<b>364</b>			<b>1267.37</b>	
			<b>Time weighted average</b>					<b>3.48</b>	



Badge 66 - Pinyon Plain - South Badge

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem/wk* time
<b>2017</b>								
First Quarter 2017	66	Pinyon Plain Site	1/3/2017	4/10/2017	97	36.6	2.64	256.08
Second Quarter 2017	66	Pinyon Plain Site	4/10/2017	7/6/2017	87	35.0	2.82	245.34
Third Quarter 2017	66	Pinyon Plain Site	7/6/2017	10/3/2017	89	34.4	2.71	241.19
Fourth Quarter 2017	66	Pinyon Plain Site	10/3/2017	1/3/2018	92	37.9	2.88	264.96
				Sum	365			1007.57
				Time weighted average				2.76
<b>2018</b>								
First Quarter 2018	66	Pinyon Plain Site	1/3/2018	4/3/2018	90	36.2	2.82	253.80
Second Quarter 2018	66	Pinyon Plain Site	4/3/2018	7/15/2018	103	41.6	2.83	291.49
Third Quarter 2018	66	Pinyon Plain Site	7/15/2018	10/11/2018	88	35.2	2.80	246.4
Fourth Quarter 2018	66	Pinyon Plain Site	10/11/2018	1/11/2019	92	39.5	3.01	276.92
				Sum	373			1068.61
				Time weighted average				2.86
<b>2019</b>								
First Quarter 2019	66	Pinyon Plain Site	1/11/2019	4/2/2019	81	27.1	2.34	189.54
Second Quarter 2019	66	Pinyon Plain Site	4/2/2019	7/8/2019	97	39.8	2.87	278.39
Third Quarter 2019	66	Pinyon Plain Site	7/8/2019	10/9/2019	93	37	2.78	258.54
Fourth Quarter 2019	66	Pinyon Plain Site	10/9/2019	1/8/2020	91	40.5	3.12	283.92
				Sum	362			1010.39
				Time weighted average				2.79
<b>2020</b>								
First Quarter 2020	66	Pinyon Plain Site	1/8/2020	4/6/2020	89	32.7	2.57	228.73
Second Quarter 2020	66	Pinyon Plain Site	4/6/2020	7/7/2020	92	94.1	7.16	658.72
Third Quarter 2020	66	Pinyon Plain Site	7/7/2020	10/8/2020	93	39.7	2.99	278.07
Fourth Quarter 2020	66	Pinyon Plain Site	10/8/2020	1/7/2021	91	36.8	2.83	257.53
				Sum	365			1423.05
				Time weighted average				3.90

**Badge 66 - Pinyon Plain - South Badge**

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem/wk* time
<b>2021</b>								
First Quarter 2021	66	Pinyon Plain Site	1/7/2021	4/8/2021	91	36.1	2.78	252.98
Second Quarter 2021	66	Pinyon Plain Site	4/8/2021	7/7/2021	90	34.6	2.69	242.1
Third Quarter 2021	66	Pinyon Plain Site	7/7/2021	10/6/2021	91	26.4	2.03	184.73
Fourth Quarter 2021	66	Pinyon Plain Site	10/6/2021	1/5/2022	91	37.7	2.90	263.9
			<b>Sum</b>		<b>363</b>			<b>943.71</b>
			<b>Time weighted average</b>					<b>2.60</b>
<b>2022</b>								
First Quarter 2022	66	Pinyon Plain Site	1/5/2022	4/13/2022	98	39.5	2.82	276.50
Second Quarter 2022	66	Pinyon Plain Site	4/13/2022	7/11/2022	89	37.9	2.98	265.22
Third Quarter 2022	66	Pinyon Plain Site	7/11/2022	10/3/2022	84	31.2	2.60	218.4
Fourth Quarter 2022	66	Pinyon Plain Site	10/3/2022	1/4/2022	93	29.8	2.24	208.32
			<b>Sum</b>		<b>364</b>			<b>968.44</b>
			<b>Time weighted average</b>					<b>2.66</b>
<b>2023</b>								
First Quarter 2023	66	Pinyon Plain Site	1/4/2023	4/5/2023	91	32.9	2.53	230.30
Second Quarter 2023	66	Pinyon Plain Site	4/5/2023	7/6/2023	92	34.9	2.66	244.72
Third Quarter 2023	66	Pinyon Plain Site	7/6/2023	10/6/2023	92	37.4	2.85	262.20
Fourth Quarter 2023	66	Pinyon Plain Site	10/6/2023	1/3/2024	89	34.5	2.71	241.50
			<b>Sum</b>		<b>364</b>			<b>978.72</b>
			<b>Time weighted average</b>					<b>2.69</b>
<b>2024</b>								
First Quarter 2024	66	Pinyon Plain Site	1/3/2024	4/8/2024	96	35.9	2.62	251.30
Second Quarter 2024	66	Pinyon Plain Site	4/8/2024	7/10/2024	93	43.4	3.27	303.80
			<b>Sum</b>		<b>189</b>			<b>555.10</b>
			<b>Time weighted average</b>					<b>2.94</b>

**Badge 67 - Pinyon Plain - West Badge**

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem/wk* time
<b>2013</b>								
First Quarter 2013	67	Pinyon Plain Site	12/31/2012	3/28/2013	87	34.5	2.78	241.50
Second Quarter 2013	67	Pinyon Plain Site	3/28/2013	6/26/2013	90	35.1	2.73	245.70
Third Quarter 2013	67	Pinyon Plain Site	6/26/2013	9/30/2013	96	40.2	2.93	281.40
Fourth Quarter 2013	67	Pinyon Plain Site	9/30/2013	1/2/2014	94	36.4	2.71	254.80
				<b>Sum</b>	<b>367</b>			<b>1023.40</b>
				<b>Time weighted average</b>				<b>2.79</b>
<b>2014</b>								
First Quarter 2014	67	Pinyon Plain Site	1/2/2014	3/27/2014	84	35.7	2.98	250.32
Second Quarter 2014	67	Pinyon Plain Site	3/27/2014	6/27/2014	92	43.1	3.28	301.76
Third Quarter 2014	67	Pinyon Plain Site	6/27/2014	9/25/2014	90	54.1	4.21	378.90
Fourth Quarter 2014	67	Pinyon Plain Site	9/25/2014	1/2/2015	99	45.5	3.22	318.78
				<b>Sum</b>	<b>365</b>			<b>1249.76</b>
				<b>Time weighted average</b>				<b>3.42</b>
<b>2015</b>								
First Quarter 2015	67	Pinyon Plain Site	1/2/2015	4/1/2015	89	36.8	2.89	257.21
Second Quarter 2015	67	Pinyon Plain Site	4/1/2015	7/1/2015	91	40.9	3.15	286.65
Third Quarter 2015	67	Pinyon Plain Site	7/1/2015	9/25/2015	86	38.0	3.09	265.74
Fourth Quarter 2015	67	Pinyon Plain Site	9/25/2015	1/7/2016	104	43.2	2.91	302.64
				<b>Sum</b>	<b>370</b>			<b>1112.24</b>
				<b>Time weighted average</b>				<b>3.01</b>
<b>2016</b>								
First Quarter 2016	67	Pinyon Plain Site	1/7/2016	3/31/2016	86	53.4	4.35	374.10
Second Quarter 2016	67	Pinyon Plain Site	3/31/2016	7/7/2016	98	44.1	3.15	308.70
Third Quarter 2016	67	Pinyon Plain Site	7/7/2016	10/10/2016	95	49.2	3.63	344.85
Fourth Quarter 2016	67	Pinyon Plain Site	10/10/2016	1/3/2017	85	42.6	3.51	298.35
				<b>Sum</b>	<b>364</b>			<b>1326.00</b>
				<b>Time weighted average</b>				<b>3.64</b>

**Badge 67 - Pinyon Plain - West Badge**

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem / wk* time
<b>2017</b>								
First Quarter 2017	67	Pinyon Plain Site	1/3/2017	4/10/2017	97	37.4	2.70	261.90
Second Quarter 2017	67	Pinyon Plain Site	4/10/2017	7/6/2017	87	36.8	2.96	257.52
Third Quarter 2017	67	Pinyon Plain Site	7/6/2017	10/3/2017	89	38.0	2.99	266.11
Fourth Quarter 2017	67	Pinyon Plain Site	10/3/2017	1/3/2018	92	37.3	2.84	261.28
			<b>Sum</b>		<b>365</b>			<b>1046.81</b>
			<b>Time weighted average</b>					<b>2.87</b>
<b>2018</b>								
First Quarter 2018	67	Pinyon Plain Site	1/3/2018	4/3/2018	90	38.9	3.03	272.70
Second Quarter 2018	67	Pinyon Plain Site	4/3/2018	7/15/2018	103	48.8	3.32	341.96
Third Quarter 2018	67	Pinyon Plain Site	7/15/2018	10/11/2018	88	38.8	3.09	271.92
Fourth Quarter 2018	67	Pinyon Plain Site	10/11/2018	1/11/2019	92	38.9	2.96	272.32
			<b>Sum</b>		<b>373</b>			<b>1158.90</b>
			<b>Time weighted average</b>					<b>3.11</b>
<b>2019</b>								
First Quarter 2019	67	Pinyon Plain Site	1/11/2019	4/2/2019	81	28	2.42	196.02
Second Quarter 2019	67	Pinyon Plain Site	4/2/2019	7/8/2019	97	40.1	2.89	280.33
Third Quarter 2019	67	Pinyon Plain Site	7/8/2019	10/9/2019	93	39.6	2.98	277.14
Fourth Quarter 2019	67	Pinyon Plain Site	10/9/2019	1/8/2020	91	38.3	2.95	268.45
			<b>Sum</b>		<b>362</b>			<b>1021.94</b>
			<b>Time weighted average</b>					<b>2.82</b>
<b>2020</b>								
First Quarter 2020	67	Pinyon Plain Site	1/8/2020	4/6/2020	89	37.2	2.93	260.77
Second Quarter 2020	67	Pinyon Plain Site	4/6/2020	7/7/2020	92	85.5	6.51	598.92
Third Quarter 2020	67	Pinyon Plain Site	7/7/2020	10/8/2020	93	39.4	2.97	276.21
Fourth Quarter 2020	67	Pinyon Plain Site	10/8/2020	1/7/2021	91	36.7	2.82	256.62
			<b>Sum</b>		<b>365</b>			<b>1392.52</b>
			<b>Time weighted average</b>					<b>3.82</b>

**Badge 67 - Pinyon Plain - West Badge**

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem / wk* time
<b>2021</b>								
First Quarter 2021	67	Pinyon Plain Site	1/7/2021	4/8/2021	91	40.4	3.11	283.01
Second Quarter 2021	67	Pinyon Plain Site	4/8/2021	Missing				0.00
Third Quarter 2021	67	Pinyon Plain Site	7/7/2021	10/6/2021	91	34.7	2.67	242.97
Fourth Quarter 2021	67	Pinyon Plain Site	10/6/2021	1/5/2022	91	39.8	3.06	278.46
				<b>Sum</b>	<b>273</b>			<b>804.44</b>
				<b>Time weighted average</b>				<b>2.95</b>
<b>2022</b>								
First Quarter 2022	67	Pinyon Plain Site	1/5/2022	4/13/2022	98	38.1	2.72	266.70
Second Quarter 2022	67	Pinyon Plain Site	4/13/2022	7/11/2022	89	37.8	2.97	264.33
Third Quarter 2022	67	Pinyon Plain Site	7/11/2022	10/3/2022	84	31.9	2.66	223.44
Fourth Quarter 2022	67	Pinyon Plain Site	10/3/2022	1/4/2023	93	31.9	2.40	223.2
				<b>Sum</b>	<b>364</b>			<b>977.67</b>
				<b>Time weighted average</b>				<b>2.69</b>
<b>2023</b>								
First Quarter 2023	67	Pinyon Plain Site	1/4/2023	4/5/2023	91	33.3	2.56	233.10
Second Quarter 2023	67	Pinyon Plain Site	4/5/2023	7/6/2023	92	37.1	2.82	259.70
Third Quarter 2023	67	Pinyon Plain Site	7/6/2023	10/6/2023	92	41.9	3.19	293.30
Fourth Quarter 2023	67	Pinyon Plain Site	10/6/2023	1/3/2024	89	35	2.75	245.00
				<b>Sum</b>	<b>364</b>			<b>1031.10</b>
				<b>Time weighted average</b>				<b>2.83</b>
<b>2024</b>								
First Quarter 2024	67	Pinyon Plain Site	1/3/2024	4/8/2024	96	39.2	2.86	274.40
Second Quarter 2024	67	Pinyon Plain Site	4/8/2024	7/10/2024	93	42	3.16	294.00
				<b>Sum</b>	<b>189</b>			<b>568.40</b>
				<b>Time weighted average</b>				<b>3.01</b>

**Badge 68 - Pinyon Plain - North Badge**

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem/wk *time
<b>2013</b>								
First Quarter 2013	68	Pinyon Plain Site	12/31/2012	3/28/2013	87	37.4	3.01	261.80
Second Quarter 2013	68	Pinyon Plain Site	3/28/2013	6/26/2013	90	37.6	2.92	263.20
Third Quarter 2013	68	Pinyon Plain Site	6/26/2013	9/30/2013	96	38.8	2.83	271.60
Fourth Quarter 2013	68	Pinyon Plain Site	9/30/2013	1/2/2014	94	39.2	2.92	274.40
			<b>Sum</b>		<b>367</b>			<b>1071.00</b>
			<b>Time weighted average</b>					<b>2.92</b>
<b>2014</b>								
First Quarter 2014	68	Pinyon Plain Site	1/2/2014	3/27/2014	84	34.6	2.88	241.92
Second Quarter 2014	68	Pinyon Plain Site	3/27/2014	6/27/2014	92	40.8	3.10	285.20
Third Quarter 2014	68	Pinyon Plain Site	6/27/2014	9/25/2014	90	47.3	3.68	331.20
Fourth Quarter 2014	68	Pinyon Plain Site	9/25/2014	1/2/2015	99	41.4	2.93	290.07
			<b>Sum</b>		<b>365</b>			<b>1148.39</b>
			<b>Time weighted average</b>					<b>3.15</b>
<b>2015</b>								
First Quarter 2015	68	Pinyon Plain Site	1/2/2015	4/1/2015	89	35.9	2.82	250.98
Second Quarter 2015	68	Pinyon Plain Site	4/1/2015	7/1/2015	91	38.9	2.99	272.09
Third Quarter 2015	68	Pinyon Plain Site	7/1/2015	9/25/2015	86	37.9	3.08	264.88
Fourth Quarter 2015	68	Pinyon Plain Site	9/25/2015	1/7/2016	104	40.7	2.74	284.96
			<b>Sum</b>		<b>370</b>			<b>1072.91</b>
			<b>Time weighted average</b>					<b>2.90</b>
<b>2016</b>								
First Quarter 2016	68	Pinyon Plain Site	1/7/2016	3/31/2016	86	58.3	4.75	408.50
Second Quarter 2016	68	Pinyon Plain Site	3/31/2016	7/7/2016	98	44.6	3.19	312.62
Third Quarter 2016	68	Pinyon Plain Site	7/7/2016	10/10/2016	95	47.7	3.51	333.45
Fourth Quarter 2016	68	Pinyon Plain Site	10/10/2016	1/3/2017	85	42.9	3.53	300.05
			<b>Sum</b>		<b>364</b>			<b>1354.62</b>
			<b>Time weighted average</b>					<b>3.72</b>

**Badge 68 - Pinyon Plain - North Badge**

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem / wk *time
<b>2017</b>								
First Quarter 2017	68	Pinyon Plain Site	1/3/2017	4/10/2017	97	36.8	2.66	258.02
Second Quarter 2017	68	Pinyon Plain Site	4/10/2017	7/6/2017	87	37.9	3.05	265.35
Third Quarter 2017	68	Pinyon Plain Site	7/6/2017	10/3/2017	89	36.3	2.86	254.54
Fourth Quarter 2017	68	Pinyon Plain Site	10/3/2017	1/3/2018	92	39.3	2.99	275.08
			<b>Time weighted average</b>					<b>2.88</b>
<b>2018</b>								
First Quarter 2018	68	Pinyon Plain Site	1/3/2018	4/3/2018	90	37.4	2.91	261.90
Second Quarter 2018	68	Pinyon Plain Site	4/3/2018	7/15/2018	103	45.2	3.07	316.21
Third Quarter 2018	68	Pinyon Plain Site	7/15/2018	10/11/2018	88	38.1	3.03	266.64
Fourth Quarter 2018	68	Pinyon Plain Site	10/11/2018	1/11/2019	92	41.2	3.13	287.96
			<b>Time weighted average</b>		<b>Sum</b>			<b>1132.71</b>
					<b>373</b>			<b>3.04</b>
<b>2019</b>								
First Quarter 2019	68	Pinyon Plain Site	1/11/2019	4/2/2019	81	29.7	2.57	208.17
Second Quarter 2019	68	Pinyon Plain Site	4/2/2019	7/8/2019	97	43.3	3.12	302.64
Third Quarter 2019	68	Pinyon Plain Site	7/8/2019	10/9/2019	93	39.9	3.00	279
Fourth Quarter 2019	68	Pinyon Plain Site	10/9/2019	1/8/2020	91	39.1	3.01	273.91
			<b>Time weighted average</b>		<b>Sum</b>			<b>1063.72</b>
					<b>362</b>			<b>2.94</b>
<b>2020</b>								
First Quarter 2020	68	Pinyon Plain Site	1/8/2020	4/6/2020	89	37.5	2.95	262.55
Second Quarter 2020	68	Pinyon Plain Site	4/6/2020	7/7/2020	92	88.6	6.74	620.08
Third Quarter 2020	68	Pinyon Plain Site	7/7/2020	10/8/2020	93	37.9	2.85	265.05
Fourth Quarter 2020	68	Pinyon Plain Site	10/8/2020	1/7/2021	91	38.9	2.99	272.09
			<b>Time weighted average</b>		<b>Sum</b>			<b>1419.77</b>
					<b>365</b>			<b>3.89</b>

**Badge 68 - Pinyon Plain - North Badge**

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem/wk *time
First Quarter 2021	68	Pinyon Plain Site	1/7/2021	4/8/2021	91	36.6	2.82	256.62
Second Quarter 2021	68	Pinyon Plain Site	4/8/2021	7/7/2021	90	34.8	2.71	243.9
Third Quarter 2021	68	Pinyon Plain Site	7/7/2021	10/6/2021	91	36.1	2.78	252.98
Fourth Quarter 2021	68	Pinyon Plain Site	10/6/2021	1/5/2022	91	39.1	3.01	273.91
			<b>Sum</b>		<b>363</b>			<b>1027.41</b>
			<b>Time weighted average</b>					<b>2.83</b>
			<b>2022</b>					
First Quarter 2022	68	Pinyon Plain Site	1/5/2022	4/13/2022	98	39.3	2.81	275.10
Second Quarter 2022	68	Pinyon Plain Site	4/13/2022	7/11/2022	89	38.7	3.04	270.56
Third Quarter 2022	68	Pinyon Plain Site	7/11/2022	10/3/2022	84	31.3	2.61	219.24
Fourth Quarter 2022	68	Pinyon Plain Site	10/3/2022	1/4/2023	93	40.2	3.03	281.79
			<b>Sum</b>		<b>364</b>			<b>1046.69</b>
			<b>Time weighted average</b>					<b>2.88</b>
			<b>2023</b>					
First Quarter 2023	68	Pinyon Plain Site	1/4/2023	4/5/2023	91	32.5	2.50	227.50
Second Quarter 2023	68	Pinyon Plain Site	4/5/2023	7/6/2023	92	36.4	2.77	254.84
Third Quarter 2023	68	Pinyon Plain Site	7/6/2023	10/6/2023	92	40.2	3.06	281.52
Fourth Quarter 2023	68	Pinyon Plain Site	10/6/2023	1/3/2024	89	39.7	3.12	277.90
			<b>Sum</b>		<b>364</b>			<b>1041.76</b>
			<b>Time weighted average</b>					<b>2.86</b>
			<b>2024</b>					
First Quarter 2024	68	Pinyon Plain Site	1/3/2024	4/8/2024	96	43.5	3.17	304.50
Second Quarter 2024	68	Pinyon Plain Site	4/8/2024	7/10/2024	93	41.7	3.14	291.90
			<b>Sum</b>		<b>189</b>			<b>596.40</b>
			<b>Time weighted average</b>					<b>3.16</b>



**Badge 69 - Pinyon Plain - East Badge**

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem / wk* time
<b>2013</b>								
First Quarter 2013	69	Pinyon Plain Site	12/31/2012	3/28/2013	87	35	2.82	245.00
Second Quarter 2013	69	Pinyon Plain Site	3/28/2013	6/26/2013	90	34.8	2.71	243.60
Third Quarter 2013	69	Pinyon Plain Site	6/26/2013	9/30/2013	96	38.1	2.78	266.70
Fourth Quarter 2013	69	Pinyon Plain Site	9/30/2013	1/2/2014	94	38.2	2.84	267.40
			<b>Sum</b>		<b>367</b>			<b>1022.70</b>
			<b>Time weighted average</b>					<b>2.79</b>
<b>2014</b>								
First Quarter 2014	69	Pinyon Plain Site	1/2/2014	3/27/2014	84	39.4	3.28	275.52
Second Quarter 2014	69	Pinyon Plain Site	3/27/2014	6/27/2014	92	39.8	3.03	278.76
Third Quarter 2014	69	Pinyon Plain Site	6/27/2014	9/25/2014	90	47.8	3.72	334.80
Fourth Quarter 2014	69	Pinyon Plain Site	9/25/2014	1/2/2015	99	45	3.18	314.82
			<b>Sum</b>		<b>365</b>			<b>1203.90</b>
			<b>Time weighted average</b>					<b>3.30</b>
<b>2015</b>								
First Quarter 2015	69	Pinyon Plain Site	1/2/2015	4/1/2015	89	37.2	2.93	260.77
Second Quarter 2015	69	Pinyon Plain Site	4/1/2015	7/1/2015	91	42	3.23	293.93
Third Quarter 2015	69	Pinyon Plain Site	7/1/2015	9/25/2015	86	37.1	3.02	259.72
Fourth Quarter 2015	69	Pinyon Plain Site	9/25/2015	1/7/2016	104	44	2.96	307.84
			<b>Sum</b>		<b>370</b>			<b>1122.26</b>
			<b>Time weighted average</b>					<b>3.03</b>
<b>2016</b>								
First Quarter 2016	69	Pinyon Plain Site	1/7/2016	3/31/2016	86	57.3	4.66	400.76
Second Quarter 2016	69	Pinyon Plain Site	3/31/2016	7/7/2016	98	45.2	3.23	316.54
Third Quarter 2016	69	Pinyon Plain Site	7/7/2016	10/10/2016	95	44.8	3.30	313.50
Fourth Quarter 2016	69	Pinyon Plain Site	10/10/2016	1/3/2017	85	41.5	3.42	290.70
			<b>Sum</b>		<b>364</b>			<b>1321.50</b>
			<b>Time weighted average</b>					<b>3.63</b>

**Badge 69 - Pinyon Plain - East Badge**

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem / wk* time
<b>2017</b>								
First Quarter 2017	69	Pinyon Plain Site	1/3/2017	4/10/2017	97	35.1	2.53	245.41
Second Quarter 2017	69	Pinyon Plain Site	4/10/2017	7/6/2017	87	36.3	2.92	254.04
Third Quarter 2017	69	Pinyon Plain Site	7/6/2017	10/3/2017	89	37.5	2.95	262.55
Fourth Quarter 2017	69	Pinyon Plain Site	10/3/2017	1/3/2018	92	37.4	2.85	262.20
			<b>Sum</b>		<b>365</b>			<b>1024.20</b>
			<b>Time weighted average</b>					<b>2.81</b>
<b>2018</b>								
First Quarter 2018	69	Canyon Mine Site	1/3/2018	4/3/2018	90	36.8	2.86	257.4
Second Quarter 2018	69	Canyon Mine Site	4/3/2018	7/15/2018	103	43.6	2.96	304.88
Third Quarter 2018	69	Canyon Mine Site	7/15/2018	10/11/2018	88	38.6	3.07	270.16
Fourth Quarter 2018	69	Canyon Mine Site	10/11/2018	1/11/2019	92	39.2	2.98	274.16
			<b>Sum</b>		<b>373</b>			<b>1106.6</b>
			<b>Time weighted average</b>					<b>2.97</b>
<b>2019</b>								
First Quarter 2019	69	Pinyon Plain Site	1/11/2019	4/2/2019	81	27.3	2.36	191.16
Second Quarter 2019	69	Pinyon Plain Site	4/2/2019	7/8/2019	97	39.1	2.82	273.54
Third Quarter 2019	69	Pinyon Plain Site	7/8/2019	10/9/2019	93	37.6	2.83	263.19
Fourth Quarter 2019	69	Pinyon Plain Site	10/9/2019	1/8/2020	91	38.8	2.98	271.18
			<b>Sum</b>		<b>362</b>			<b>999.07</b>
			<b>Time weighted average</b>					<b>2.76</b>
<b>2020</b>								
First Quarter 2020	69	Pinyon Plain Site	1/8/2020	4/6/2020	89	34.5	2.71	241.19
Second Quarter 2020	69	Pinyon Plain Site	4/6/2020	7/7/2020	92	99.3	7.56	695.52
Third Quarter 2020	69	Pinyon Plain Site	7/7/2020	10/8/2020	93	37.9	2.85	265.05
Fourth Quarter 2020	69	Pinyon Plain Site	10/8/2020	1/7/2021	91	36.7	2.82	256.62
			<b>Sum</b>		<b>365</b>			<b>1458.38</b>
			<b>Time weighted average</b>					<b>4.00</b>

**Badge 69 - Pinyon Plain - East Badge**

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem / wk* time
<b>2021</b>								
First Quarter 2021	69	Pinyon Plain Site	1/7/2021	4/8/2021	91	36.3	2.79	253.89
Second Quarter 2021	69	Pinyon Plain Site	4/8/2021	Missing				0
Third Quarter 2021	69	Pinyon Plain Site	7/7/2021	10/6/2021	91	35.9	2.76	251.16
Fourth Quarter 2021	69	Pinyon Plain Site	10/6/2021	1/5/2022	91	34.5	2.65	241.15
				<b>Sum</b>	<b>273</b>			<b>746.20</b>
				<b>Time weighted average</b>				<b>2.73</b>
<b>2022</b>								
First Quarter 2022	69	Pinyon Plain Site	1/5/2022	4/13/2022	98	39.7	2.84	277.90
Second Quarter 2022	69	Pinyon Plain Site	4/13/2022	7/11/2022	89	38.3	3.01	267.89
Third Quarter 2022	69	Pinyon Plain Site	7/11/2022	10/3/2022	84	32.3	2.69	225.96
Fourth Quarter 2022	69	Pinyon Plain Site	10/3/2022	1/4/2023	93	37.8	2.85	265.05
				<b>Sum</b>	<b>364</b>			<b>1036.80</b>
				<b>Time weighted average</b>				<b>2.85</b>
<b>2023</b>								
First Quarter 2023	69	Pinyon Plain Site	1/4/2023	4/5/2023	91	33.7	2.59	235.90
Second Quarter 2023	69	Pinyon Plain Site	4/5/2023	7/6/2023	92	33.2	2.53	232.76
Third Quarter 2023	69	Pinyon Plain Site	7/6/2023	10/6/2023	92	42.5	3.23	297.16
Fourth Quarter 2023	69	Pinyon Plain Site	10/6/2023	1/3/2024	89	32.7	2.57	228.90
				<b>Sum</b>	<b>364</b>			<b>994.72</b>
				<b>Time weighted average</b>				<b>2.73</b>
<b>2024</b>								
First Quarter 2024	69	Pinyon Plain Site	1/3/2024	4/8/2024	96	39.5	2.88	276.50
Second Quarter 2024	69	Pinyon Plain Site	4/8/2024	7/10/2024	93	56.3	4.24	394.10
				<b>Sum</b>	<b>189</b>			<b>670.60</b>
				<b>Time weighted average</b>				<b>3.55</b>

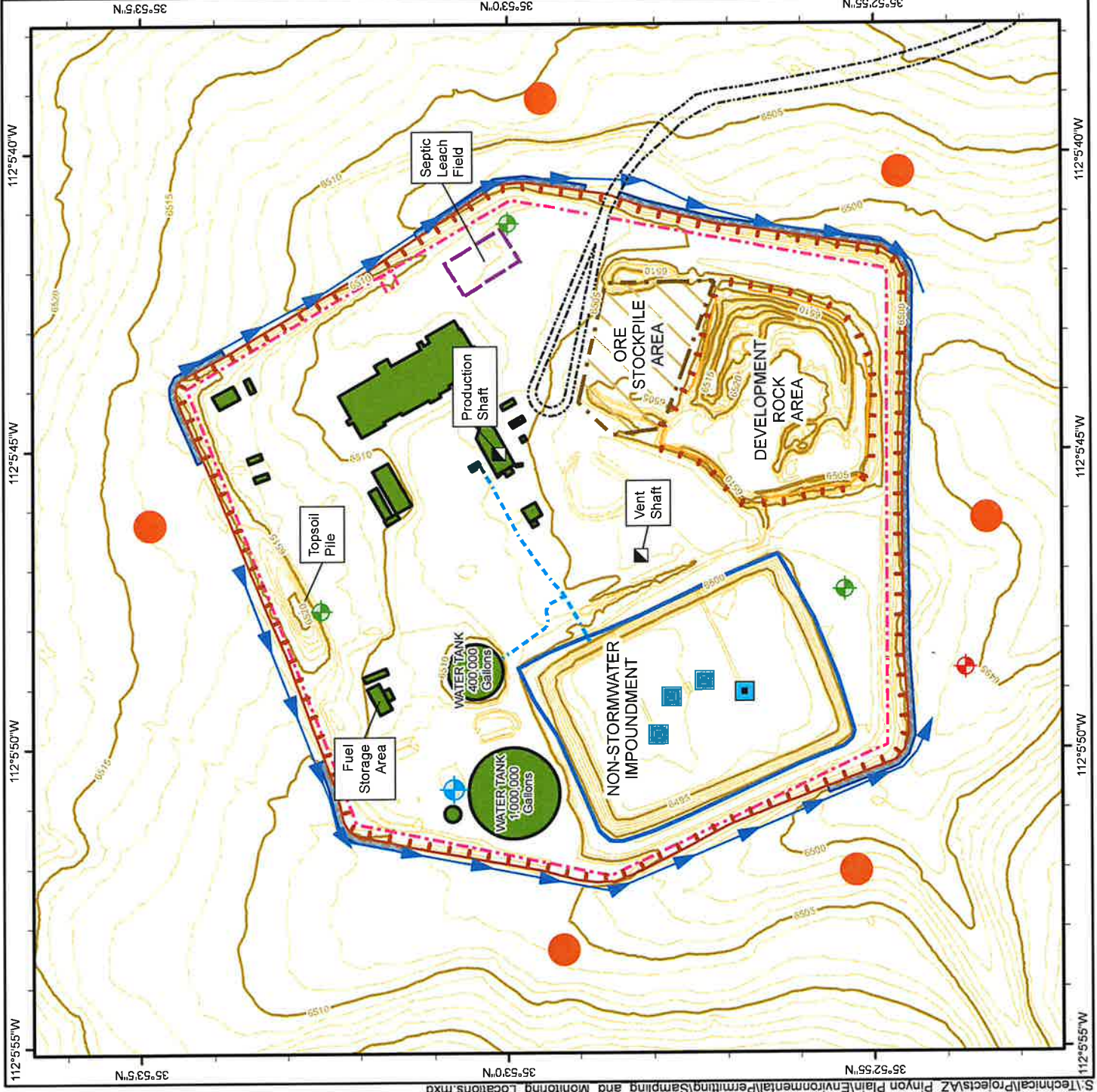
**Badge 114 - Pinyon Plain - South West Badge**

Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem / wk *time
<b>2021</b>								
First Quarter 2021	114	Pinyon Plain Site	Not in use					
Second Quarter 2021	114	Pinyon Plain Site	Not in use					
Third Quarter 2021	114	Pinyon Plain Site	Not in use					
Fourth Quarter 2021	114	Pinyon Plain Site	10/7/2021	1/5/2022	90	30.6	2.38	214.2
			<b>Sum</b>		90			<b>214.2</b>
			<b>Time weighted average</b>					<b>2.38</b>
<b>2022</b>								
First Quarter 2022	114	Pinyon Plain Site	1/5/2022	4/13/2022	98	28.9	2.06	202.30
Second Quarter 2022	114	Pinyon Plain Site	4/13/2022	7/11/2022	89	31.9	2.51	223.39
Third Quarter 2022	114	Pinyon Plain Site	7/11/2022	10/3/2022	84	27.5	2.29	192.36
Fourth Quarter 2022	114	Pinyon Plain Site	10/3/2022	1/4/2023	93	32.2	2.42	225.06
			<b>Sum</b>		364			<b>843.11</b>
			<b>Time weighted average</b>					<b>2.32</b>
<b>2023</b>								
First Quarter 2023	114	Pinyon Plain Site	1/4/2023	4/5/2023	91	28.3	2.18	198.10
Second Quarter 2023	114	Pinyon Plain Site	4/5/2023	7/6/2023	92	31.2	2.37	218.04
Third Quarter 2023	114	Pinyon Plain Site	7/6/2023	10/5/2023	91	33.4	2.57	233.87
Fourth Quarter 2023	114	Pinyon Plain Site	10/5/2023	1/3/2024	90	31.2	2.43	218.40
			<b>Sum</b>		364			<b>868.41</b>
			<b>Time weighted average</b>					<b>2.39</b>
<b>2024</b>								
First Quarter 2024	114	Pinyon Plain Site	1/3/2024	4/8/2024	96	28.2	2.06	197.40
Second Quarter 2024	114	Pinyon Plain Site	4/8/2024	7/10/2024	93	37.4	2.82	261.80
			<b>Sum</b>		189			<b>459.20</b>
			<b>Time weighted average</b>					<b>2.43</b>

**Badge 115 - Pinyon Plain - South East Badge**

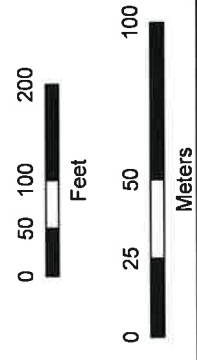
Quarter	Badge Number	Location	Date Issued	Date Returned	Total Days Badge Deployed	Mean Ambient Dose Equivalent	mRem / Week	mRem/wk *time
<b>2021</b>								
First Quarter 2021	115	Pinyon Plain Site	Not in use					
Second Quarter 2021	115	Pinyon Plain Site	Not in use					
Third Quarter 2021	115	Pinyon Plain Site	Not in use					
Fourth Quarter 2021	115	Pinyon Plain Site	10/7/2021	1/5/2022	90	34.4	2.68	241.2
			<b>Sum</b>		90			<b>241.2</b>
			<b>Time weighted average</b>					<b>2.68</b>
<b>2022</b>								
First Quarter 2022	115	Pinyon Plain Site	1/5/2022	4/13/2022	98	34.2	2.44	239.40
Second Quarter 2022	115	Pinyon Plain Site	4/13/2022	7/11/2022	89	35.2	2.77	246.53
Third Quarter 2022	115	Pinyon Plain Site	7/11/2022	10/3/2022	84	27.6	2.30	193.2
Fourth Quarter 2022	115	Pinyon Plain Site	10/3/2022	1/4/2023	93	37.0	2.78	258.54
			<b>Sum</b>		364			<b>937.67</b>
			<b>Time weighted average</b>					<b>2.58</b>
<b>2023</b>								
First Quarter 2023	115	Pinyon Plain Site	1/4/2023	4/5/2023	91	32.7	2.52	228.90
Second Quarter 2023	115	Pinyon Plain Site	4/5/2023	7/6/2023	92	36.9	2.81	258.52
Third Quarter 2023	115	Pinyon Plain Site	7/6/2023	10/5/2023	91	37.1	2.85	259.35
Fourth Quarter 2023	115	Pinyon Plain Site	10/5/2023	1/3/2024	90	30.5	2.37	213.50
			<b>Sum</b>		364			<b>960.27</b>
			<b>Time weighted average</b>					<b>2.64</b>
<b>2024</b>								
First Quarter 2024	115	Pinyon Plain Site	1/3/2024	4/8/2024	96	37.4	2.73	261.80
Second Quarter 2024	115	Pinyon Plain Site	4/8/2024	7/10/2024	93	51.9	3.91	363.30
			<b>Sum</b>		189			<b>625.10</b>
			<b>Time weighted average</b>					<b>3.31</b>

**FIGURE**



**Legend**

- Soil Sample and Gamma Monitoring Location
- Evaporative Water System
- Redwall-Muav Water Supply/Monitoring Well
- Coconino Monitoring Well
- USGS Coconino Well
- Surface Water Diversion
- Berm
- - - 4" PVC Discharge
- - - Fence Line - Facility Area
- ▣ Rip Rap
- ▣ Building/Structure
- Major Contour - 5 ft
- Minor Contour - 1 ft



**CF Energy Fuels**  
**Resources (USA) Inc**

Pinyon Plain Mine

T29N, R03E, Section 20, Coconino County, AZ

**Sampling and Monitoring  
 Location Map**

112°55'55"W 112°55'50"W 112°54'55"W 112°54'50"W

35°53'55"N 35°53'50"N 35°53'45"N 35°53'40"N

112°55'55"W 112°55'50"W 112°54'55"W 112°54'50"W