

TABLE 1
RENO CREEK

GROUNDWATER SAMPLING-THIRD QUARTER, 1984

PATTERN 1

	Sample Date	pH	TDS mg/l	Calcium mg/l	Sulfate mg/l	U_3O_8 mg/l
M-1	CL*	6.5	2858	286	1606	1.102
	July	7.8	1200	83	598	0.026
	Aug	8.0	1120	89	642	0.001
	Sept	8.0	1200	90	678	0.071
M-2	CL*	6.5	2744	278	1644	1.027
	July	8.0	1240	95	757	0.009
	Aug	8.1	1200	10	734	0.012
	Sept	7.8	1180	99	777	0.032
M-3	CL*	6.5	3104	286	1657	1.750
	July	8.5	1560	103	834	0.219
	Aug	8.6	1360	105	826	0.212
	Sept	8.5	1320	111	870	0.167
M-4	CL*	6.5	3096	304	1783	1.550
	July	8.5	1380	117	831	1.400
	Aug	8.4	1460	122	881	1.064
	Sept	7.8	1380	119	882	1.340
LSM-1	CL*	6.5	994	207	137	1.022
	July	11.8	480	34	10	0.038
	Aug	11.5	540	56	10	0.003
	Sept	11.5	460	40	13	0.008
USM-1	CL*	6.5	987	32	137	1.020
	July	7.2	520	31	4	0.012
	Aug	7.7	400	35	4	0.003
	Sept	7.2	420	34	5	0.021
P-1	CL*	6.5	2771	267	1673	5.00
	July	5.8	2040	238	1261	0.757
	Aug	5.8	2060	246	1387	0.595
	Sept	5.4	1880	247	1375	0.032
P-2	CL*	6.5	2771	267	1673	5.00
	July	5.9	2440	235	1390	0.649
	Aug	5.8	2280	245	1380	0.459
	Sept	6.3	1960	257	1550	0.025

CL*-Stabilization Control Limits

TABLE 2
RENO CREEK PATTERN 1
QUARTERLY GROUNDWATER ANALYSES
THIRD QUARTER, 1984

	WELL NUMBER							
	<u>P-1</u>	<u>P-2</u>	<u>M-1</u>	<u>M-2</u>	<u>M-3</u>	<u>M-4</u>	<u>LSM-1</u>	<u>USM-1</u>
pH	5.8	5.8	8.0	8.1	8.6	8.4	11.5	7.7
CONDUCTIVITY	2600	2900	1700	2600	2000	2100	1500	1000
BICARBONATE	31	28	168	110	79	95	0	439
ALKALINITY	25	23	138	90	88	101	612	360
CALCIUM	246	243	89	103	105	122	56	35
CHLORIDE	27	37	16	17	15	14	66	31
MAGNESIUM	54	63	17	19	18	22	0.3	5
POTASSIUM	34	64	7.2	7.7	8.6	9.1	5.1	4.6
SODIUM	273	288	246	255	266	284	90	110
SULFATE	1387	1380	642	734	826	881	10	4
TDS	2060	2280	1120	1200	1360	1460	540	400
ARSENIC	0.026	0.005	0.001	< 0.001	0.003	0.003	0.001	0.001
IRON	32.3	56.3	0.18	0.06	0.05	0.06	0.30	1.94
SELENIUM	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
VANADIUM	0.332	0.122	0.001	0.001	0.003	0.003	0.039	0.026
URANIUM (U_3O_8)	0.595	0.459	0.001	0.012	0.212	1.064	0.003	0.003
RADIUM-226	816	671	170	30	97	68	15	7

Units is mg/l (ppm) except pH (standard units), conductivity (μ mhos/cm) and Radium-226 (pci/l)

TABLE 3
RENO CREEK
RADON GAS - THIRD QUARTER, 1984

<u>SITE</u>	<u>JULY</u>	<u>AUG</u>	<u>SEPT</u>
UPWIND BOUNDARY #8*	0.00 \pm 1.13	0.92 \pm 0.61	0.22 \pm 0.70
DOWNWIND BOUNDARY #10*	0.00 \pm 0.96	0.22 \pm 0.57	0.09 \pm 0.53
PLANT BUILDING INSIDE**	2.34 \pm 1.21	0.00 \pm 0.58	0.39 \pm 0.52

* 10 CFR 20 Limit (Unrestricted area) 3.0×10^{-9} $\mu\text{Ci/ml}$

** 10 CFR 20 Limit (restricted area) 3.0×10^{-8} $\mu\text{Ci/ml}$

All Values reported in $\mu\text{Ci/ml} \times 10^{-9}$

TABLE 5
AREA DOSIMETRY
RENO CREEK
THIRD QUARTER, 1984

<u>SITE</u>	<u>MREM/QUARTER</u>
Control	28.52
Upwind Boundary (#8)	22.08
Downwind Boundary (#10)	Badge Lost
Pattern 1	20.50
Pattern 2	21.29
Office	23.66
Lab	23.26
Sump	21.02
Plant Building	36.01

* Dosimetry service performed by Eberline Instrument Corp.

Badges are exchanged quarterly.

Table 6
Reno Creek
Monthly Reservoir Analysis
Third Quarter, 1984

		<u>July</u>	<u>Aug</u>	<u>Sept</u>
pH	Standard Units	6.2	5.8	5.9
Conductivity	μ mhos/cm	20000+	20000+	20000+
Bicarbonate	mg/l	32	37	46
Chloride	mg/l	647	935	1300
Sulfate	mg/l	13349	17176	21211
Sodium	mg/l	1375	1685	1826
Potassium	mg/l	167	277	240
Calcium	mg/l	350	424	497
Magnesium	mg/l	414	458	457
Iron	mg/l	0.15	0.33	0.39
Vanadium	mg/l	0.011	0.020	0.013
Uranium	mg/l	0.491	0.597	0.754
TDS	mg/l	18620	21240	24200
Ra ²²⁶	pci/l	225	293	139
Arsenic	mg/l	0.004	0.018	0.007
Selenium	mg/l	0.001	0.001	0.001