



EG&G Idaho

EG&G-954
9-76)

INTEROFFICE CORRESPONDENCE

date March 24, 1978
to R. C. Stoker
from C. A. Allen *C. A. Allen*
subject CHEMICAL ANALYSIS OF RRGE-3 AND RRG1-4 - CAA-7-78

The attached table lists the composition of water from RRGE-3 and RRG1-4 which you requested. Reported concentrations from RRGE-3 resulted from analysis of several samples at different times, so an average value and standard deviation is shown. Results from RRG1-4 are from a single analysis performed in November 1977, seven months after well completion and following a substantial period of flow.

Report

Chemically the two fluids are quite similar although slow cooling of fluid from RRG1-4 is reflected in the values for SiO₂ and K.

ajw

Attachment
As Stated

<u>Species</u>	<u>Concentration ($\mu\text{g/ml}$)</u>	
	<u>RRGE-3</u>	<u>RRGI-4</u>
Cl^-	2170 \pm 302	2510
F^-	4.55 \pm .25	4.54
Br^-	<1.5	
HCO_3^- *	44.4 \pm 11.1	23.9
SO_4	53.3 \pm 14.6	61.0
NO_3^-	0.2	
SiO_2	158 \pm 17	96
Na	1185 \pm 52	1560
K	97.2 \pm 7.3	28
Sr	6.7 \pm .7	6.4
Li	3.1 \pm .2	3.4
Ca	193 \pm 15	160
Mg	0.60 \pm .16	0.15
TDS	4130 \pm 360	4448
Total Gas	69.9	
H_2	0.69	
N_2	65.5	
O_2	-0-	
Ar	.57	
CO_2	3.8	

* Reported as CaCO_3