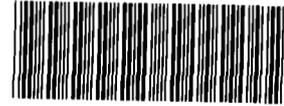




Department of Energy

ROCKY FLATS OFFICE
P.O. BOX 928
GOLDEN, COLORADO 80402-0928



000030242

Bonita Lavelle
U.S. Environmental Protection Agency, Region VIII
999 18th Street, Suite 500
Denver, CO 80202-2405

0938-DOE-91

Judy Bruch
Colorado Department of Health
4210 East 11th Avenue
Denver, CO 80220

Dear Ms. Lavelle & Ms. Bruch:

The enclosed tables and graphs are those requested during the Water Information meeting, January 15. All available plutonium ground water data along Indiana Street is being provided. As discussed during this meeting, the higher Pu values are associated with the larger error term which is an artifact of the analytical procedure. Analytical procedures have evolved through time to provide better information by lowering factors such as the error term and minimum detectable activity (MDA). During the 1986 and 1987 time frame, the MDA was not reported by the laboratory. An attempt will be made to back-calculate the MDA for these samples, if all of the documentation exists.

The other topic of concern was the possibility of Volatile Organic Compounds (VOC) in Well 39-86. As discussed in our meeting, the alluvial investigation for Operable Unit No.2 will address this possibility by installing additional monitoring wells and borehole sampling.

If you have any questions concerning this information or other ground water issues, please feel free to call Brent Lewis of my staff at 966-4765.

Sincerely,


David P. Simonson
Assistant Manager for
Environmental Management

Enclosures

cc w/Enclosures:
Kathy Schnoor, City of Broomfield
Susan Nachtrieb, City of Westminster

A-DU02-000862

Pu239 Concentrations in Groundwater at Indiana Street (pCi/L)

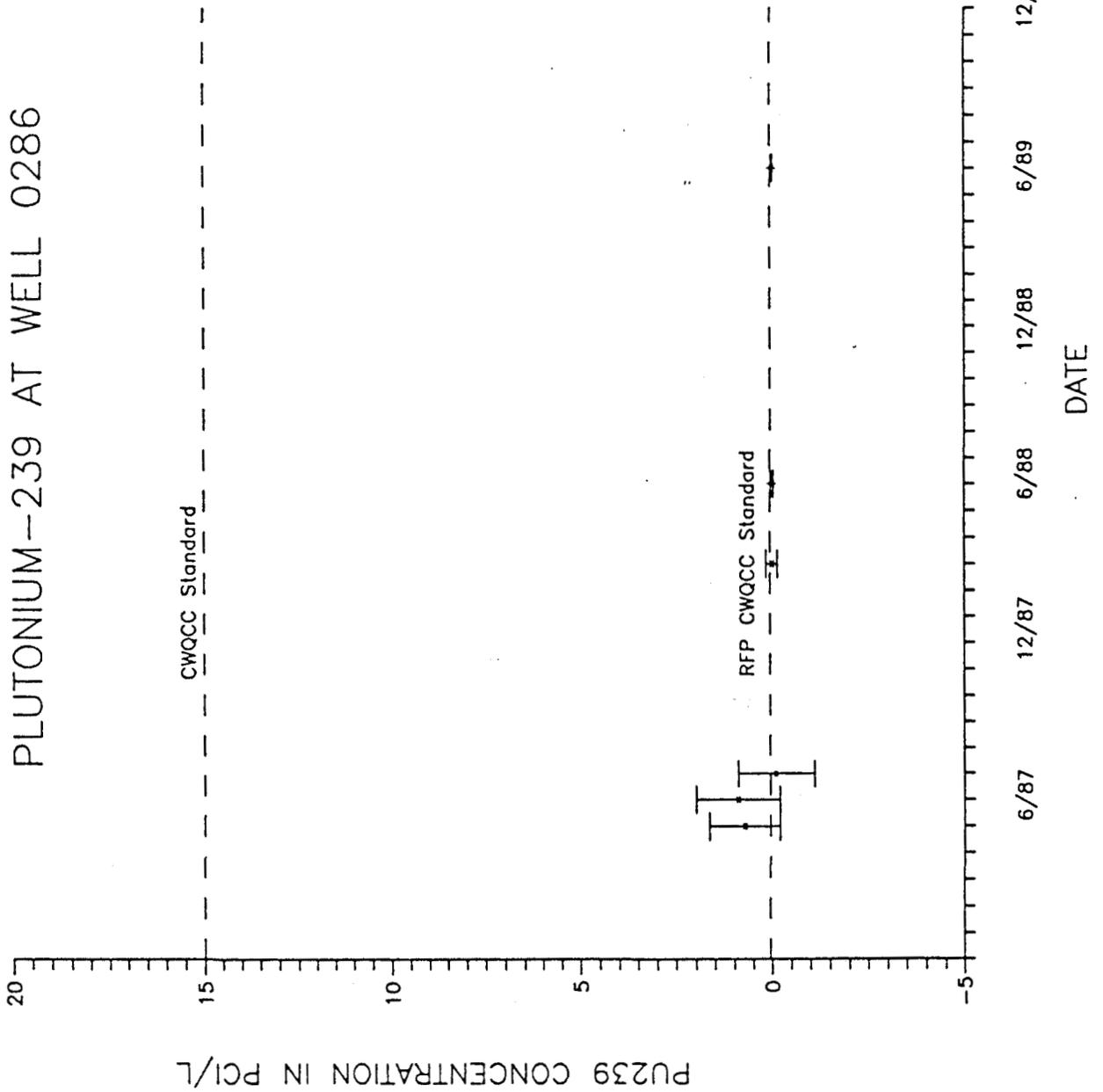
<u>Well</u>	<u>Sample Date</u>	<u>Result</u>	<u>Error</u>	<u>MDA</u>
1-86	06-JUN-87	1.1*	1.100	NR
	11-MAY-87	2.1*	1.400	NR
	17-JUL-87	-.24	0.650	NR
	31-MAR-88	0.00	0.140	0.530
	03-JUN-88	0.00	0.040	0.110
	01-JUN-89	0.00	0.010	0.01
2-86	11-MAY-87	.72*	0.930	NR
	01-JUN-87	0.9*	1.100	NR
	21-JUL-87	-0.1	1.000	NR
	31-MAR-88	0.00	0.015	0.960
	03-JUN-88	0.00	0.040	0.110
	27-JUN-89	NS	0.000	0.01
	30-JUN-89	0.00	0.020	0.01
	03-AUG-89	NS	0.000	0.01
3-86	08-SEP-86	0.01*	0.070	NR
	08-SEP-86	0.03*	0.080	NR
	12-MAY-87	0.00*	0.700	NR
	08-JUN-87	0.00*	0.590	NR
	24-JUL-87	-.32	0.680	NR
	15-DEC-87	0.00	0.140	1.000
	31-MAR-88	0.00	0.150	0.890
	03-JUN-88	0.00	0.040	0.120
	06-OCT-88	0.00	0.040	0.110
	29-JUN-89	0.01	0.010	0.01
	12-JUL-89	0.00	0.010	0.01
	02-AUG-89	NS	NS	0.01
	05-OCT-89	0.005	0.006	0.007
	18-DEC-89	.002	0.003	0.004
4-86	06-OCT-88	0.00	0.040	0.090
	28-JUN-89	0.00	0.010	0.01
	12-JUL-89	0.00	0.010	0.01
	02-AUG-89	NS	NS	NS
	06-OCT-89	0.007	0.008	0.010

NS = No sample due to insufficient amount of water in the well.

NR = Not reported.

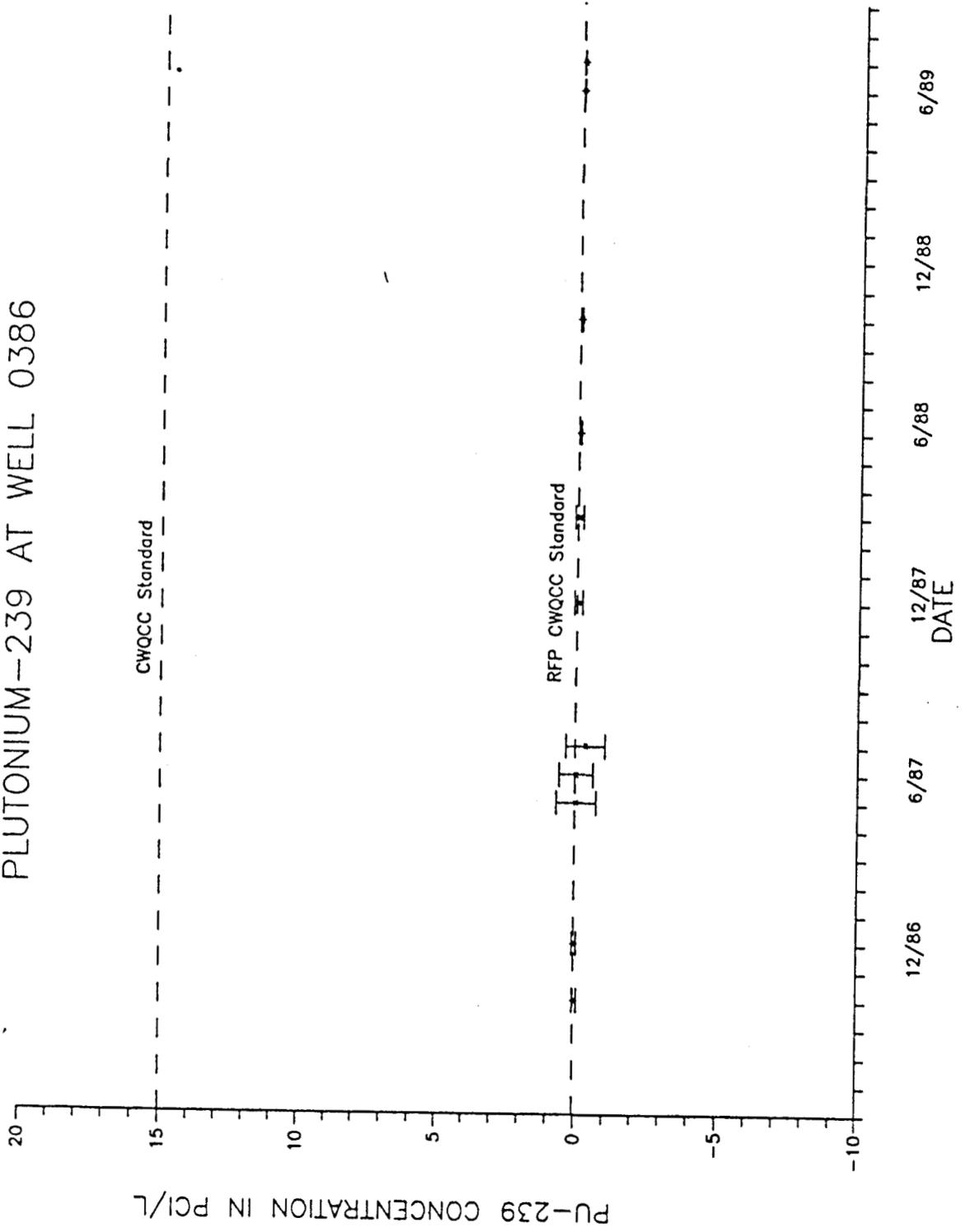
* = Total Plutonium; samples were not filtered.

PLUTONIUM-239 AT WELL 0286



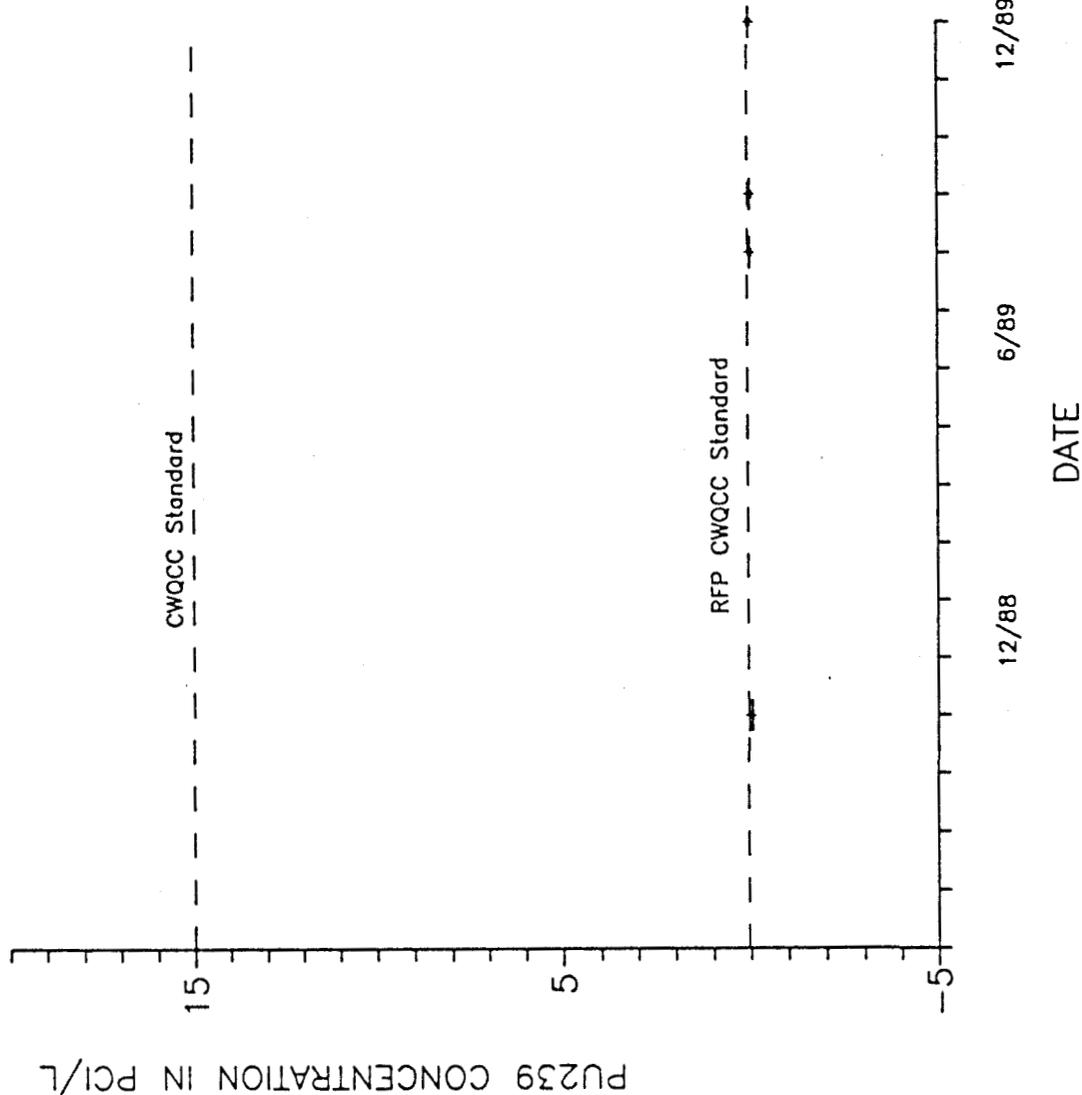
Attachment
page 3 of 4

PLUTONIUM-239 AT WELL 0386



attachment
page 4 of 4

PLUTONIUM-239 AT WELL 0486



Volatile Organic Compound Analyses for Well 39-86 (ug/L)

<u>Well</u>	<u>Date</u>	<u>Validated</u>	<u>Trichloroethene</u>	<u>Tetrachloroethene</u>	<u>Carbon Tetrachloride</u>
39-86	Jan 87	No	5 U	5 U	5 U
	May 87	No	4 U	4 U	4 U
	Jun 87	No	4 U	4 U	4 U
	Dec 87	No	5 U	5 U	5 U
	Mar 88	No	5 U	5 U	5 U
	May 88	No	310	845	2292
	Aug 88	No	5 U	5 U	5 U
	Nov 88	No	418 U	5 U	5 U
	Feb 89	Yes	5 U	5 U	5 U
	Aug 89	Yes	5 U	5 U	5 U
	Nov 89	Yes	77 J	5 U	5 U
	Feb 90	Yes	5 U	5 U	5 U
	Jun 90	Yes	5 U	5 U	5 U

U = Below detection limit.

J = Detected below the detection limit; estimated value.