

# *Appendix H*

## *Summary of Direct Radiation Monitoring Data*



*An Environmental TLD Package*

**Table H - 1**  
**Summary of 1999 Quarterly Averages of Off-site TLD Measurements**  
**(mR±SD/Quarter)**

Location Number*	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Location Average
DFTLD01	17±3.9	24±13.6	24±6.6	34±16.2	25±11.2
DFTLD02	16±2.1	34±22.2	21±1.4	20±11.7	23±12.6
DFTLD03	12±1.9	26±16.5	23±3.2	23±12.6	21±10.5
DFTLD04	13±2.0	30±13.9	25±12.1	17±11.3	21±10.9
DFTLD05	13±1.9	27±11.4	25±1.9	20±12.2	21±8.5
DFTLD06	15±4.0	29±15.7	29±12.4	16±7.2	22±10.8
DFTLD07	13±3.2	28±8.8	25±12.4	16±10.4	21±9.3
DFTLD08	15±6.4	34±15.4	21±4.9	17±4.3	22±9.0
DFTLD09	13±1.8	23±9.1	28±5.4	16±7.3	20±6.5
DFTLD10	13±3.0	32±14.9	26±10.6	16±13.7	22±11.5
DFTLD11	15±4.0	18±6.8	33±9.7	16±4.5	21±6.6
DFTLD12	15±2.5	24±11.1	24±9.2	18±6.6	20±8.0
DFTLD13	13±2.1	23±7.9	32±6.9	15±8.6	21±6.9
DFTLD14	14±2.2	32±17.1	19±3.6	13±3.4	20±9.0
DFTLD15	14±2.9	21±10.0	21±5.8	12±5.4	17±6.5
DFTLD16	15±4.0	28±14.8	18±4.4	13±7.2	19±8.7
DFTLD17**	14±1.9	32±8.6	26±12.2	15±8.3	22±8.6
DFTLD20	14±3.3	18±7.1	25±16.4	18±4.9	19±9.4
DFTLD21	15±4.0	22±8.2	26±13.6	15±5.0	20±8.6
DFTLD22	13±1.0	21±10.3	25±10.2	18±4.4	19±7.6
DFTLD23**	13±2.3	24±7.3	30±11.4	12±5.0	20±7.3
DFTLD37**	17±2.6	24±11.3	21±3.5	15±7.9	19±7.2
DFTLD41**	16±3.0	17±4.9	25±12.1	12±7.5	18±7.7

\* Off-site locations are shown on Figure A-11 (p. A-13) and A-12 (p. A-14).

\*\* Background measurements are provided by off-site TLDs 17, 23, 37, and 41.

**Table H - 2**  
**Summary of 1999 Quarterly Averages of On-site TLD Measurements**  
**(mR±SD/Quarter)**

<b>Location Number*</b>	<b>1st Quarter</b>	<b>2nd Quarter</b>	<b>3rd Quarter</b>	<b>4th Quarter</b>	<b>Location Average</b>
DNTLD18	26±3.9	44±3.5	33±4.7	25±4.6	32±4.2
DNTLD19	15±1.9	27±6.6	39±16.3	14±6.5	24±9.4
DNTLD24	583±20.6	584±41.7	620±6.2	577±9.4	591±23.9
DNTLD25	19±3.1	31±12.8	23±5.2	13±2.5	22±7.2
DNTLD26	17±2.8	23±6.9	28±9.9	16±7.5	21±7.2
DNTLD27	15±3.1	27±12.8	21±7.6	15±4.1	20±7.9
DNTLD28	17±2.7	21±7.0	26±5.2	21±13.3	21±8.1
DNTLD29	18±3.8	29±12.3	26±4.6	29±14.3	26±9.9
DNTLD30	17±1.5	25±5.3	24±4.6	25±14.8	23±8.2
DNTLD31	16±1.0	24±6.4	20±5.2	17±3.5	19±4.5
DNTLD32	23±1.0	33±6.3	33±7.7	24±11.0	28±7.4
DNTLD33	31±6.2	29±7.9	36±8.4	25±4.3	30±6.9
DNTLD34	44±1.9	49±4.3	56±8.5	45±5.8	49±5.7
DNTLD35	76±1.5	68±12.5	85±8.8	67±4.9	74±8.1
DNTLD36	32±3.8	37±9.6	44±11.5	29±5.4	36±8.2
DNTLD38	28±4.9	34±14.4	48±16.8	29±9.6	35±12.3
DNTLD39	47±3.2	52±6.9	70±9.6	40±7.1	52±7.1
DNTLD40	173±5.6	146±4.7	268±13.9	113±11.4	175±9.7
DNTLD42	84±2.5	75±4.6	99±12.6	81±8.0	85±7.9
DNTLD43	25±2.5	30±10.1	35±6.7	22±9.6	28±7.8

\* On-site locations are shown on Figure A-10 (p. A-12).

**Table H - 3**  
**3rd Quarter 1999 TLD Results and Instantaneous Dose Readings ( $\mu\text{R/hr}$ ) with a High-pressure Ion Chamber (HPIC) at Each Monitoring Location**

<b>Off-site Location Number</b>	<b>3rd Quarter TLD Result</b>	<b>August 1999 HPIC Results</b>	<b>On-site Location Number</b>	<b>3rd Quarter TLD Result</b>	<b>August 1999 HPIC Results</b>
DFTLD01	10.64	10.00	DNTLD18	14.64	17.00
DFTLD02	9.30	9.00	DNTLD19	17.31	11.00
DFTLD03	10.19	8.00	DNTLD24	275.21	316.00
DFTLD04	11.07	8.00	DNTLD25	10.18	12.00
DFTLD05	11.07	9.00	DNTLD26	12.43	11.00
DFTLD06	12.85	9.00	DNTLD27	9.32	10.00
DFTLD07	11.07	9.00	DNTLD28	11.54	10.00
DFTLD08	9.30	9.00	DNTLD29	11.53	11.00
DFTLD09	12.40	9.00	DNTLD30	10.63	12.00
DFTLD10	11.51	9.00	DNTLD31	8.87	10.00
DFTLD11	14.61	8.00	DNTLD32	14.63	12.00
DFTLD12	10.63	9.00	DNTLD33	15.97	15.00
DFTLD13	14.17	9.00	DNTLD34	24.84	26.00
DFTLD14	8.41	9.00	DNTLD35	37.71	37.00
DFTLD15	9.30	9.00	DNTLD36	19.52	17.00
DFTLD16	7.97	9.00	DNTLD38	21.30	18.00
DFTLD17	11.52	9.00	DNTLD39	31.07	22.00
DFTLD20	11.07	8.00	DNTLD40	118.95	60.00
DFTLD21	11.51	9.00	DNTLD42	43.96	29.00
DFTLD22	11.08	10.00	DNTLD43	15.54	13.00
DFTLD23	13.29	9.00			
DFTLD37	9.30	10.00			
DFTLD41	11.07	9.00			

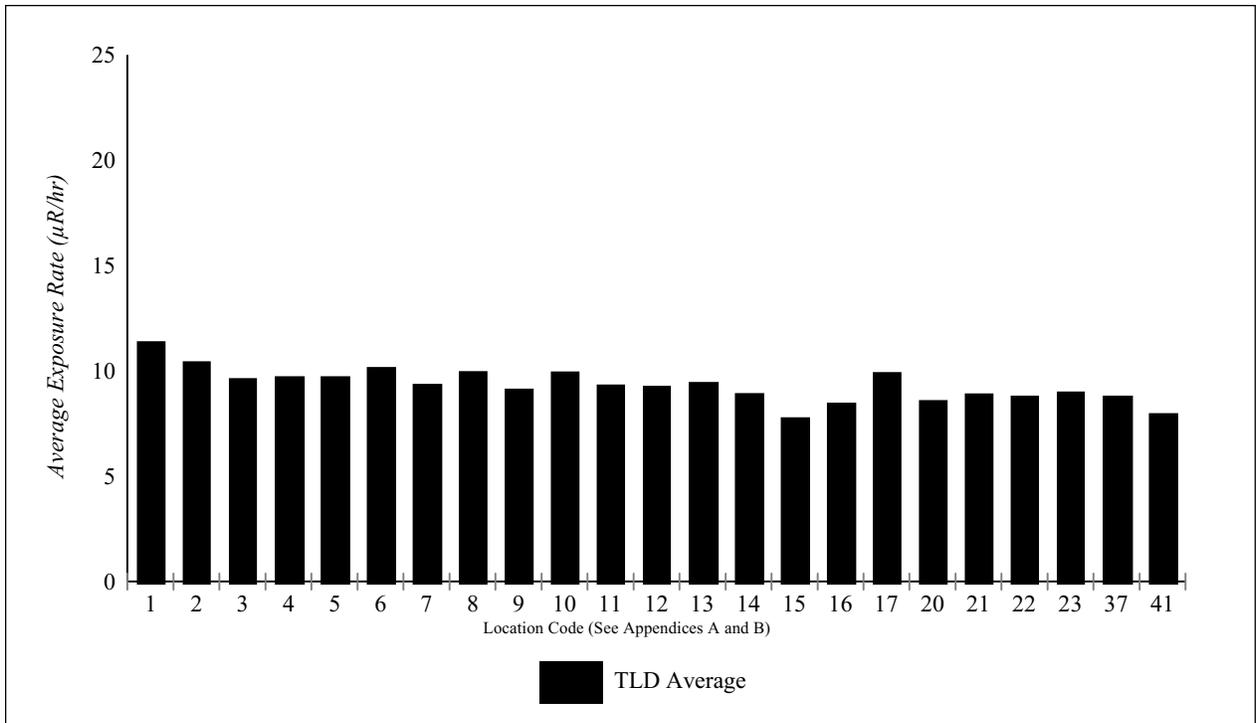


Figure H-1. 1999 Average Yearly Gamma Exposure Rates around the West Valley Demonstration Project Site

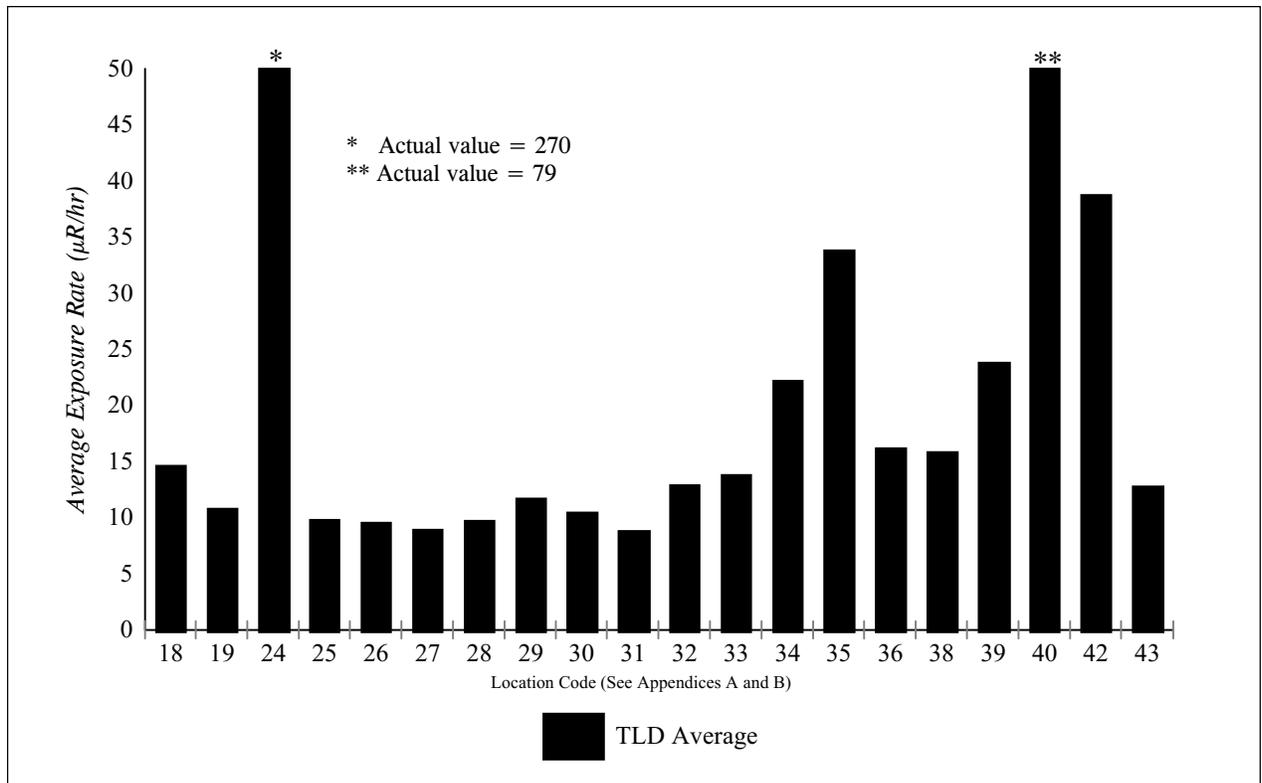


Figure H-2. 1999 Yearly Gamma Exposure Rates on the West Valley Demonstration Project Site