McLaren-Hart Data

This is a modified data set to reflect a similar geology to the FSDF Off-Site Multimedia Background Data 1992-1994

| Location | Sample ID | Collection Date | Exposure Rate µR/hr | H-3 (pCi/l) mean | H-3 ±2σ | K-40 (pCi/g) mean | K-40 ±2σ | Sr-90 (pCi/g) mean | Sr-90 ±2σ | Cs-137 (pCi/g) mean | Cs-137 ±2σ | Th-228 (pCi/g) mean | Th-228 ±2σ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rocky Peak | BG-01-005 | 3/11/1992 | 14 | 220 | 80 | NR | | 0.03 | 0.01 | 0.092 | 0.027 | NA | |
| Rocky Peak | BG-01-008 | 3/10/1992 | 15 | 100 | | NR | | 0.01 | 0.01 | 0.04 | | NA | |
| Rocky Peak | BG-01-100 | 3/10/1992 | 15 | 380 | 100 | NR | | 0.05 | 0.01 | 0.181 | 0.035 | NA | |
| Rocky Peak | BG-01-016 | 3/15/1994 | | 100 | | 22.3 | 2.2 | 0.09 | | 0.04 | | 0.41 | 0.06 |
| Rocky Peak | BG-01-034 | 3/15/1994 | | 100 | | 22.2 | 2.2 | 0.1 | | 0.1 | 0.032 | 0.59 | 0.13 |
| Rocky Peak | BG-01-082 | 3/15/1994 | | 200 | | 19.9 | 2 | 0.08 | | 0.04 | | 0.82 | 0.12 |
| Rocky Peak | BG-01-087 | 3/15/1994 | | 200 | | 21.7 | 2.2 | 0.07 | | 0.158 | 0.038 | 0.51 | 0.1 |
| Rocky Peak | BG-01-099 | 3/15/1994 | | 200 | | 21.5 | 2.2 | 0.1 | | 0.175 | 0.026 | 0.69 | 0.1 |
| Santa Susana Park | BG-02-007 | 3/10/1992 | 13 | 360 | 90 | NR | | 0.02 | 0.01 | 0.17 | 0.04 | NA | |
| Santa Susana Park | BG-02-074 | 3/10/1992 | 14 | W | | NR | | 0.01 | | 0.04 | | NA | |
| Santa Susana Park | BG-02-076 | 3/10/1992 | 13 | 420 | 90 | NR | | 0.03 | 0.01 | 0.099 | 0.032 | NA | |
| Santa Susana Park | BG-02-007 | 3/10/1994 | | 100 | | 21.5 | 2.1 | 0.13 | 0.08 | 0.06 | | NA | |
| Santa Susana Park | BG-02-017 | 3/10/1994 | | 200 | | 21.4 | 2.1 | 0.12 | 0.05 | 0.213 | 0.04 | NA | |
| Santa Susana Park | BG-02-074 | 3/10/1994 | | 200 | | 23.2 | 2.3 | 0.08 | | 0.05 | | NA | |
| Santa Susana Park | BG-02-076 | 3/10/1994 | 12 | 200 | | 20.9 | 2.1 | 0.09 | | 0.04 | | NA | |
| Santa Susana Park | BG-02-065 | 3/10/1994 | | 200 | | 21.4 | 2.1 | 0.13 | 0.10 | 0.04 | | NA | |
| Santa Susana Park* | A4CM-95-146 | 6/21/1995 | | NA | | NA | | NA | | NA | | 1.2 | 0.19 |
| Santa Susana Park* | A4CM-95-147 | 6/21/1995 | | NA | | NA | | NA | | NA | | 0.93 | 0.13 |
| Bell Canyon | BG-03-001 | 3/12/1992 | | SD | | NR | | 0.01 | | 0.07 | | NA | |
| Bell Canyon | BG-03-.18 | 3/12/1992 | | 200 | | NR | | 0.02 | 0.01 | 0.07 | | NA | |
| Bell Canyon | BG-03-.059 | 3/12/1992 | | 200 | | NR | | 0.01 | 0.01 | 0.05 | | NA | |
| Bell Canyon* | A4CM-95-144 | 6/20/1995 | | NA | | NA | | NA | | NA | | 1.1 | 0.1 |
| Bell Canyon* | A4CM-95-145 | 6/20/1995 | | NA | | NA | | NA | | NA | | 0.95 | 0.12 |
| Western Site | BG-04-025 | 3/13/1992 | 13 | 220 | 80 | NR | | 0.02 | 0.01 | 0.15 | 0.05 | NA | |
| Western Site | BG-04-029 | 3/13/1992 | 13 | 750 | 200 | NR | | 0.02 | 0.01 | 0.14 | 0.05 | NA | |
| Western Site | BG-04-090 | 3/13/1992 | 13 | 120 | 70 | NR | | 0.05 | 0.01 | 0.19 | 0.03 | NA | |
| Western Site* | A4CM-95-148 | 6/22/1995 | | NA | | NA | | NA | | NA | | 1.6 | 0.22 |
| Western Site* | A4CM-95-149 | 6/22/1995 | | NA | | NA | | NA | | NA | | 1.4 | 0.14 |
| SMMNRA | BG-06-033 | 3/12/1992 | 14 | 330 | 80 | NR | | 0.03 | 0.01 | 0.097 | 0.034 | NA | |
| SMMNRA | BG-06-069 | 3/12/1992 | 14 | 440 | 90 | NR | | 0.03 | 0.01 | 0.06 | | NA | |
| SMMNRA | BG-06-096 | 3/12/1992 | 14 | SD | | NR | | 0.02 | 0.01 | 0.14 | 0.03 | NA | |
| Rocky Peak Ravine | BG-14-001 | 3/15/1994 | | 100 | | 20.5 | 2 | 0.082 | 0.043 | 0.04 | | 0.53 | 0.08 |
| Rocky Peak Ravine | BG-14-002 | 3/15/1994 | | 100 | | 20.3 | 2 | 0.09 | | 0.0845 | 0.0426 | 0.78 | 0.08 |
| Rocky Peak Ravine | BG-14-003 | 3/15/1994 | | 300 | | 20.3 | 2 | 0.08 | | 0.0799 | 0.0375 | 0.57 | 0.09 |
| Rocky Peak Ravine | BG-14-004 | 3/15/1994 | | W | | 21 | 2.1 | 0.07 | | 0.03 | | 0.40 | 0.09 |
| Rocky Peak Ravine | BG-14-005 | 3/15/1994 | | W | | 22.5 | 2.3 | 0.05 | | 0.04 | | 0.27 | 0.07 |

| | | | H-3 (pCi/l) | H-3 ± | K-40 (pCi/l) | K-40 ± | Sr-90 (pCi/l) | Sr-90 ± | Cs-137 (pCi/l) | Cs-137 ± | Th-228 (pCi/l) | Th-228 ± |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Data withdrawn by lab | W | # of analysis | 25 | | 15 | | 30 | | 30 | | 16 | |
| Not analyzed | NA | min | 100.00 | | 19.9000 | | 0.0100 | | 0.0300 | | 0.2700 | |
| Not Reported | NR | avg | 237.60 | 313.69 | 21.3733 | 8.2456 | 0.0574 | 0.1485 | 0.0926 | 0.1432 | 0.7969 | 0.4839 |
| Sampled Dried | SD | max | 750.00 | | 23.2000 | | 0.1300 | | 0.2130 | | 1.6000 | |
| Rocketdyne/TMA samples | * | avg + 2σ | 551.2877 | | 29.6189 | | 0.2059 | | 0.2358 | | 1.2808 | |

The sampling locations Happy Camp, Wildwood Regional Park, Wildwood Regional Park Ravine, Tapia County Park and Tapia County Park Ravine are removed from the data set due primarily to distance from the site.

McLaren Hart
3/13/92 DATE radiation test's*
[*Given to Collins by CDHS in 12/05]

Sr-90 background data shows three readings

0.02 pCi/g
0.02 "
0.05 "
0.09 pCi/g ÷ 3
= 0.03 pCi/g average