

# Los Alamos

Los Alamos National Laboratory  
Los Alamos, New Mexico 87545

DATE: May 9, 1994  
IN REPLY REFER TO: EM/ER:94-J204  
MAIL STOP: M992  
TELEPHONE: (505) 667-0819

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TA-33

Mr. Ted Taylor, Program Manager  
U.S. Department of Energy  
Los Alamos Area Office, MS A316  
Los Alamos, NM 87544

Dear Mr. Taylor:

We are planning to resume sampling at Operable Unit (OU) 1122 on or about May 23, 1994, through mid-July 1994. Investigations will include 24 Potential Release Sites involving 169 locations, and approximately 244 samples will be taken. Attached is a sampling summary for each site.

The readiness review for this voluntary corrective action was conducted on May 4, 1994. If you have any questions or concerns, please feel free to give me a call.

Sincerely,



David J. McInroy  
Acting Program Manager  
Environmental Restoration Program

DJM/sg

Enclosure a/s

Cy: T. Baca, EM, MS J591  
J. Jansen, EM/ER, MS M992  
P. Aamodt, EM/ER, MS M992  
K. Hargis, EM-8, MS K490  
R. Michelotti, CST-6, MS E525  
RPF, MS M707  
CRM-4, MS A150, (w/o enclosure)



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Mr. Ted Taylor  
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Benito Garcia  
New Mexico Environment Dept.  
525 Camino de los Marquez  
Santa Fe, New Mexico 87502

Bruce Swanton  
Hazardous & Radioactive  
Materials Bureau  
New Mexico Environment Dept.  
525 Camino de los Marquez  
Santa Fe, New Mexico 87502

Barbara Driscoll  
RCRA Permits Branch  
U. S. Environmental Protection Agency  
Region 6  
1445 Ross Avenue  
Dallas, TX 75202-2733

**Table 2.1  
East Site Sampling Summary**

| <b>SWMU ID</b> | <b>Site</b>                        | <b>PCOCs</b>   | <b>Sampling Type</b>   | <b>Number of Samples</b> | <b>Number of QA Samples</b> | <b>Sampling Technique</b>       | <b>Sampling Media</b>                   |
|----------------|------------------------------------|--|------------------------|--------------------------|-----------------------------|---------------------------------|---|
| 33-007(a)      | Firing Area, Berm, Drainage        | Co-60, H-3, Oil, Other Metals, High Explosive Residue, Uranium, Cadmium, Lead, Beryllium | Random, Collocated (2) | 31                       | 3                           | Spade-Spoon, Excavation         | Surface Soil, Projectiles               |
| 33-003(b)      | Shot Chamber                       | Beryllium, High Explosive Residue  | Random, Collocated (1) | 5                        | 1                           | Spade-Spoon                     | Surface Soil                            |
| 33-006(b)      | Shot Pads, Berm                    | Co-60, H-3, Metals, High Explosive Residue, Oil, Lead, Uranium, Beryllium, Cadmium       | Biased                 | 14                       | 2                           | Spade-Spoon, Excavation         | Surface Soil, Projectiles               |
| 33-010(a)      | Canyon-Side Disposal Area          | Uranium, Beryllium, Lead   | Biased, Collocated (1) | 4                        | 1                           | Spade-Spoon                     | Surface Soil                            |
| 33-010(b)      | Canyon-Side Disposal Area          | Uranium, Beryllium, Lead   | Biased                 | 3                        | 0                           | Spade-Spoon                     | Surface Soil                            |
| 33-010(d)      | Canyon-Side Disposal Area Drainage | Uranium, Beryllium, Lead   | Biased                 | 6                        | 0                           | Spade-Spoon                     | Surface Soil                            |
| 33-004(c)      | Septic System, Leach Field         | VOCs, Photoprocessing Chemicals  | Biased                 | 11                       | 2                           | Sucker Tube, Auger, Spade-Spoon | Water, Surface Soil, Subsurface, Sludge |
| 33-004(k)      | Outfall                            | Photoprocessing Chemicals  | Biased, Collocated (1) | 5                        | 1                           | Spade-Spoon                     | Surface Soil                            |

Table 2.2  
Area 6 Site Sampling Summary

| SWMU ID   | Site                  | PCOCs  | Sampling Type | Number of Samples | Number of QA Samples | Sampling Technique      | Sampling Media            |
|-----------|-----------------------|--|---------------|-------------------|----------------------|-------------------------|---------------------------|
| 33-007(c) | Firing Area, Drainage | Metals, H-3, Oils, High Explosive Residue, Uranium, Beryllium, Co-60 | Biased        | 9                 | 2                    | Spade-Spoon, Excavation | Surface Soil, Projectiles |

**Table 2.3  
South Site Sampling Summary**

| <b>SWMU ID</b> | <b>Site</b>               | <b>PCOCs</b>   | <b>Sampling Type</b>                             | <b>Number of Samples</b> | <b>Number of QA Samples</b> | <b>Sampling Technique</b>       | <b>Sampling Media</b>                    |
|----------------|---------------------------|--|--|--------------------------|-----------------------------|---------------------------------|--|
| 33-007(b)      | Firing Areas, Berms       | Beryllium, Metals, High Explosive Residue, Uranium, H-3, Co-60, Oils | Biased, Collocated (2)                           | 17                       | 2                           | Spade-Spoon Excavation          | Surface Soil, Projectiles                |
| 33-008(a)      | Landfill                  | Metals, High Explosive Residue, Beryllium, Lead, Unknown Chemicals   | Random   | 10                       | 0                           | Excavation                      | Surface Soil, Debris                     |
| 33-006(a)      | Shot Pad, Drainage        | High Explosive Residue, Beryllium, Lead, Uranium, H-3                | Biased (10), Random, Neighbor (4) Collocated (2) | 39                       | 6                           | Spade-Spoon                     | Surface Soil                             |
| 33-010(h)      | Surface Disposal Area     | Uranium, Metals, High Explosive Residue, Beryllium                   | Biased   | 10                       | 0                           | Excavation                      | Surface Soil, Debris                     |
| 33-010(c)      | Canyon-Side Disposal Area | High Explosive Residue, Beryllium, Lead                              | Random   | 10                       | 0                           | Excavation                      | Surface Soil, Debris                     |
| 33-011(c)      | Blivit Storage Area       | H-3  | Biased   | 3                        | 0                           | Spade-Spoon                     | Surface Soil                             |
| 33-004(b)      | Septic System, Outfall    | Photoprocessing Chemicals  | Biased   | 8                        | 0                           | Sucker Tube, Auger, Spade-Spoon | Liquid, Surface Soil, Subsurface, Sludge |
| 33-004(j)      | Outfall                   | Uranium, Beryllium   | Biased   | 2                        | 0                           | Spade-Spoon                     | Surface Soil                             |
| 33-014         | Burn Site                 | Uranium, High Explosive Residue, Powders, Beryllium, Black Powder    | Biased   | 4                        | 0                           | Spade-Spoon                     | Surface Soil                             |
| 33-010(g)      | Canyon-Side Disposal Area | Uranium, High Explosive Residue, Metals, Beryllium                   | Biased   | 4                        | 0                           | Spade-Spoon                     | Surface Soil                             |
| 33-43          | Berm                      | Uranium, Metals, High Explosive Residue                              | Biased   | 5                        | 0                           | Excavation                      | Surface Soil, Projectiles                |

**Table 2.4  
NRAO Site Sampling Summary**

| <b>SWMU ID</b> | <b>Site</b>                | <b>PCOCs</b>               | <b>Sampling Type</b>           | <b>Number of Samples</b> | <b>Number of QA Samples</b> | <b>Sampling Technique</b>       | <b>Sampling Media</b>                    |
|----------------|----------------------------|----------------------------|--------------------------------|--------------------------|-----------------------------|---------------------------------|--|
| 33-004(m)      | Septic System, Leach Field | Solvents                   | Biased, Random, Collocated (1) | 11                       | 2                           | Sucker Tube, Spade-Spoon, Auger | Liquid, Sludge, Surface Soil, Subsurface |
| 33-011(b)      | General Storage Area       | Beryllium, Metals, Uranium | Biased                         | 9                        | 2                           | Spade-Spoon, Excavation         | Surface Soil, Projectiles                |