

**Table OP-1c Summary of Environmental and Operational Monitoring  
During Restoration/Reclamation/Decommissioning Activities and Evaluation of Activities' Effectiveness (Page 1 of 5)**

| Monitoring Description  | Frequency and Reporting | Comments | Section Number |         |      |
|---|-------------------------|----------|----------------|---------|------|
|   |                         |          | NRC            |         | WDEQ |
|   |                         |          | TR             | ER      |      |
| <i>Air Quality and Climate</i>  |                         |          |                |         |      |
| During ground water restoration, mine unit reclamation, and plant decommissioning, same monitoring as during Operations ( <i>Table OP-1b</i> ). Once these activities are complete:   |                         |          |                |         |      |
| Meteorological Station monitored until plant is decommissioned.   |                         | 5.7.7    | --             | OP 2.10 |      |
| Dust Control Monitoring will continue until daily on-site activities that could generate dust are completed, e.g., until last mine unit is reseeded, unless otherwise required by WDEQ AQD permit.  |                         | --       | 4.7.4.1        | --      |      |
| Radiation monitoring will continue until activities which could result in release of radiation completed, i.e., until mine unit reclamation and plant decommissioning completed.  |                         | 5.7.7    | --             | --      |      |
| <i>Equipment Performace - Basic and Radiation Safety</i>  |                         |          |                |         |      |
| During ground water restoration, mine unit reclamation, and plant decommissioning, same monitoring as during Operations ( <i>Table OP-1b</i> ). Once daily on-site activites are completed for specific operations within the Permit Area, e.g., once the wells are plugged in a given mine unit, monitoring will only occur when personnel are on-site, e.g, when the mine unit is seeded. |                         | 5.3.1    | --             | --      |      |

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| Monitoring Description  | Frequency and Reporting | Comments | Section Number |    |        |
|---|-------------------------|----------|----------------|----|--------|
|   |                         |          | NRC            |    | WDEQ   |
|   |                         |          | TR             | ER |        |
| <i>Equipment Performance - Effluent Control</i>   |                         |          |                |    |        |
| During ground water restoration, same monitoring as during Operations ( <i>Table OP-1b</i> ). After agency concurrence that restoration of all mine units is complete and after all processing operations completed at facility:  |                         |          |                |    |        |
| Storage Ponds will be reclaimed and all sludge will be disposed of at facility licensed for disposal of 11(e)(2) material. Other equipment associated with Effluent Control will be screened to determine whether or not it is contaminated with 11(e)(2) byproduct material (or other contaminant of concern) and whether it can be cleaned or must be disposed of at facility licensed for contaminant of concern.  |                         |          | 6.4.3          | -- | RP 4.2 |
| Class I UIC wells will be plugged; additional well abandonment requirements may be part of UIC permit.  |                         |          | 6.3.2          | -- | RP 3.1 |
| <i>Equipment Performance - Fluid Transfer and Processing</i>  |                         |          |                |    |        |
| During ground water restoration, same monitoring as during Operations ( <i>Table OP-1b</i> ). After agency concurrence that restoration of all Mine Units is complete and after all processing operations completed at facility, equipment will be screened to determine whether or not it is contaminated with 11(e)(2) byproduct material (or other contaminant of concern) and whether it can be cleaned or must be disposed of at facility licensed for contaminant of concern. |                         |          | 6.4.2          | -- | RP 4.1 |
| <i>Equipment Performance - Mine Unit Balance</i>  |                         |          |                |    |        |
| During ground water restoration, same monitoring as during Operations. Once ground water restoration is complete, no monitoring of mine unit balance necessary and monitoring of Ground Water Restoration Success ( <i>below</i> ) continues.   |                         |          |                |    |        |

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| Monitoring Description  | Frequency and Reporting   | Comments   | Section Number        |                         |                         |
|---|---|--|-----------------------|-------------------------|-------------------------|
|   |   |  | NRC                   |                         | WDEQ                    |
|   |   |  | TR                    | ER                      |                         |
| <i>Equipment Performance - Wells</i>  |   |  |                       |                         |                         |
| During ground water restoration, same monitoring as during Operations ( <i>Table OP-1b</i> ). After agency concurrence that restoration of a given Mine Unit is complete, injection and production wells in that Mine Unit will be plugged. |   |  | 3.2.5<br>6.3.2        | 1.2.2.1<br>and<br>7.4.4 | OP 3.4<br>RP 3.1        |
| <i>Health (radiation-related)</i>   |   |  |                       |                         |                         |
| During all restoration/reclamation/decommissioning activities, same monitoring as during Operations ( <i>Table OP-1b</i> ).   |   |  |                       |                         |                         |
| <i>Groundwater</i>  |   |  |                       |                         |                         |
| Restoration Progress  | Daily, weekly, and monthly analyses as needed to track restoration progress.<br>Analytical results, along with restoration methods, in the semiannual report to NRC and Annual Report to WDEQ/LQD, and in final report on mine unit restoration | Tailored to specific restoration phase and to specific areas of the mine unit. | 6.2.4                 | --                      | RP 2.5                  |
| Stability Monitoring  | Once per quarter for nine months. Data submitted to WDEQ/LQD in restoration report and, depending on timing, in Annual Report.  | NRC and WDEQ/LQD to approve restoration complete.                              | 6.2.4<br>and<br>6.2.5 | --                      | RP 2.4<br>and<br>RP 2.5 |

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| Monitoring Description      | Frequency and Reporting  | Comments   | Section Number                 |         |                             |
|-----------------------------|--|--|--------------------------------|---------|-----------------------------|
|                             |  |  | NRC                            |         | WDEQ                        |
|                             |  |  | TR                             | ER      |                             |
| <i>Groundwater - cont'd</i> |  |  |                                |         |                             |
| Off-Site BLM Wells          | Quarterly until stability monitoring in last mine unit begins.<br>Data compilation over time and evaluation to be included in Annual Report to NRC and WDEQ/LQD.                     | Includes water quality monitoring (and water level monitoring if accessible) in 4 wells to ensure on-site groundwater pumping does not adversely affect off-site water uses.                   | 5.7.8.2<br>and<br>7.1.5.2      | 4.5.4.2 | OP 2.11.2                   |
| <i>Soils</i>                |  |  |                                |         |                             |
| Radiation                   | Before removal of facilities per operator SOP. Reporting to NRC in Annual Report.<br>After removal of facilities. Reporting to NRC in Annual Report and License Termination Request. | To 'double check' the extent, if any, of soil contamination.<br><br>To double check that facility removal has not resulted in contamination.   | 6.3.1,<br>6.4.1,<br>and<br>6.5 | --      | RP 4.0                      |
| Replacement Depths          | Any time topsoil replaced.<br>Submitted to WDEQ/LQD in Annual Report.  | Replacement depths for small areas, such as mud pits and header houses, based on average soil depth across mine unit. Depths for larger areas, such as the Plant, based on site-specific data. | 6.6.2<br>and<br>6.6.3          | --      | RP 4.5.2<br>and<br>RP 4.5.3 |

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|---|--|---|----------------|---------|----------|
|   |  |   | NRC            |         | WDEQ     |
|   |  |   | TR             | ER      |          |
| <i>Surface Water</i>  |  |   |                |         |          |
| During ground water restoration, mine unit reclamation, and plant decommissioning, same monitoring as during Operations ( <i>Table OP-1b</i> ). Once these activities are complete, then surface water monitoring no longer required except in case of spills or if storm water runoff controls needed while vegetation is reestablishing.  |  |   |                |         |          |
| <i>Transportation</i>   |  |   |                |         |          |
| During groundwater restoration, mine unit reclamation, and plant decommissioning, same monitoring for transportation risk associated with disposal of 11(e)(2) byproduct materials as during Operations ( <i>Table OP-1b</i> ). Similarly, monitoring associated with road conditions and fuel storage will continue as during Operations as long as those facilities are in use for on-site activities. Once these activities are complete, no additional monitoring required. |  |   |                |         |          |
| <i>Vegetation</i>   |  |   |                |         |          |
| Revegetation Success  | Sampling during 1st growing season five years after seeding. Data submitted to WDEQ/LQD in bond release package. | Interim monitoring to evaluate revegetation progress during five-year 'bond clock' at operator's discretion, but weed control necessary. Revegetation success criteria include cover and appropriate species. | 6.6.5          | 4.6.4.1 | RP 4.5.5 |
| <i>Wildlife</i>   |  |   |                |         |          |
| During groundwater restoration, mine unit reclamation, and plant decommissioning, same monitoring as during Operations ( <i>Table OP-1b</i> ). Once these activities are complete, no additional monitoring required.   |  |   |                |         |          |