

## **MONTICELLO NPL SITES**

**FFA QUARTERLY REPORT: April 1 – June 30, 2007**

**DOE Site Manager: Jalena Maestas**

### **1.0 MMTS Activities/Status**

#### Repository and Pond 4

- Monthly and quarterly inspection of the repository identified no problems other than continued observation of shrub damage by voles.
- Monthly inspection of Pond 4 identified no unacceptable conditions.
- The upgrade of the telemetry system used to manage the Repository and Pond 4 LCRS and LDS is not complete. The available data suggests the repository and Pond 4 LCRS and LDS operated at normal levels during the last quarter.
- Completion of the telemetry system upgrade and training of on-site staff on the new telemetry software is ongoing.
- Preparations are in progress to plant live shrubs in areas of the repository damaged by voles. To be completed in September 2007.
- Preparations are in progress to install raptor perches at the repository to promote predation on voles. To be completed in August 2007.
- The transport of radiologically contaminated material from the on-site temporary storage facility (TSF) to the Grand Junction Disposal Cell was completed.

#### Former Millsite

- No significant activity or issues to report
- The former millsite restorations are in good condition.

#### Peripheral Properties (Private and City-owned)

- DOE is facilitating cooperation between the City of Monticello and a private landowner to clean a sediment catch basin on City-owned land. Under the land transfer to the City from DOE, the City is obligated to maintain this and other drainage controls. The landowner is concerned about excess runoff onto his property because the ditch is full.

#### Surface Water and Ground Water (OU III)

- A second ground water treatment cell at the permeable reactive barrier was installed and is fully operational. The two cells operate in parallel for a combined treatment rate of 12 gallons per minute.
- The spent media of the initial treatment cell was removed and transported to the Grand Junction Disposal Cell for disposal. The shipment was managed as DOT-regulated material.

### **2.0 MVP Activities/Status**

#### City Streets and Utilities, UDOT Rights-of-Way, Land-use Restrictions

- No non-routine activities or issues to report.

### **3.0 MMTS/MVP Activities**

- The Cooperative Agreement between DOE and City of Monticello was renewed and extended to year 2016. The agreement primarily addresses roles and responsibilities in managing residual radioactive material encountered at City excavations in Monticello.

#### 4.0 Meetings/Deliverables/Schedule

- A semi-annual Federal Facilities Agreement (FFA) meeting was held in Grand Junction and Monticello on April 10 to 12, 2007. Significant progress was made in defining the scope and decision process for OU III biomonitoring and ground water compliance activities through the next 5-year review period. Numerous other topics were discussed and future activities were outlined. Detailed meeting minutes and action items were distributed to stakeholders on May 17, 2007.
- The CERCLA 5-Year Review Reports for the MMTS and MVP received final signature on June 11, 2007. The reports were posted on the DOE LM website on June 14, 2007. A public notice summarizing the findings of the 5-year reviews was published in Monticello-area newspapers on June 27, 2007.
- The LTSM Plan for the Monticello NPL Sites was finalized and distributed as a controlled document (Revision 0) on June 20, 2007.
- The draft report detailing the second statistical analysis of uranium concentration trends in ground water was submitted to DOE, EPA, and UDEQ in ~~January~~ <sup>Feb.</sup> 2007 and discussed at length at the FFA meeting. No deadline has been established for finalizing this report.
- Reporting deliverables and activities for the current quarter (July 2007 – September 2007) are listed in Table 1.

Table 1. MMTS & MVP Task and Deliverables Schedule, July – September 2007

| Task/Document                    | Regulatory Concurrence | Status/Schedule  |
|----------------------------------|------------------------|--|
| FFA semi-annual meeting          | Yes                    | Next meeting scheduled for September 2007 in Monticello to coincide with the annual site inspection.   |
| FFA quarterly report             | Yes                    | Minutes/proceedings/action items from the FFA meeting will be reported as the FFA quarterly report for the period of July through September 2007. DOE will submit the report to EPA and UDEQ for review by the end of October 2007. A 2-week review of this document is typical. |
| Annual site inspection           | Yes                    | September 2007. Site inspection report due in following quarter (by January 1, 2008).  |
| Annual ground water report       | Yes                    | Due by October 1, 2007.  |
| Repository vegetation monitoring | No                     | September 2007. Report due the following quarter.  |
| FY 2007 biomonitoring            | No                     | FY 07 biomonitoring results to be available for September FFA meeting. FY 07 biomonitoring report to be completed fall 2007.   |
| Site Management Plan             | Yes                    | Annual update of Section 5.0 of the SMP to project a 3-year rolling schedule of planned activities and deliverables and summarize main accomplishments of the past fiscal year. Due by October 1, 2007. This year's schedule update will address FY 2008, 2009, and 2010.        |

### Repository Area Surveillance Checklist

\_\_\_\_ Monthly Surveillance X Quarterly Surveillance (Feb., May, Aug., Nov.)

\_\_\_\_ Storm Event Triggered Surveillance due to \_\_\_\_ inches of rainfall over the past 24 hours.

| Inspection Item               | Acceptable<br>(Yes/No) | Comments and Recommendations |
|-------------------------------|------------------------|------------------------------|
| <b>Condition of:</b>          |                        |                              |
| Fences and gates              | <u>yes</u>             | <u>gates remain open</u>     |
| Roads <sup>a</sup>            | <u>yes</u>             |                              |
| Signs                         | <u>yes</u>             |                              |
| Site monuments                | <u>yes</u>             |                              |
| Drainage ditches <sup>a</sup> | <u>yes</u>             |                              |
| Manholes                      | <u>yes</u>             |                              |
| Vegetation                    | <u>yes</u>             |                              |

|                                       |           |  |
|---------------------------------------|-----------|--|
| <b>Evidence of erosion of:</b>        |           |  |
| Top of disposal cell <sup>a</sup>     | <u>NO</u> |  |
| Disposal cell sideslopes <sup>a</sup> | <u>NO</u> |  |
| Ditches                               | <u>NO</u> |  |
| Surrounding area                      | <u>NO</u> |  |

|                         |            |  |
|-------------------------|------------|--|
| <b>Evidence of:</b>     |            |  |
| Vandalism               | <u>NO</u>  |  |
| Intrusion by livestock  | <u>yes</u> | <u>there is some sign of deer inside the fenced area</u>                             |
| Burrowing animal damage | <u>yes</u> | <u>holes continue to thrive</u>  |
| Intrusion by humans     | <u>NO</u>  |  |
| Accumulation of trash   | <u>NO</u>  | <u>wind has some trash against the fence but has blown some at other places away</u> |

#### Additional Quarterly Surveillance Requirements

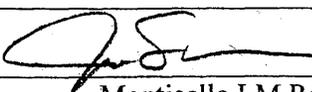
Note: All transects, shown in Figure 3-1, must be walked during this inspection.

|                             |            |  |
|-----------------------------|------------|--|
| <b>Condition of:</b>        |            |  |
| Settlement plate structures | <u>yes</u> |  |
| Manholes <sup>b</sup>       | <u>yes</u> |  |
| Sediment Ponds              | <u>yes</u> |  |

|                        |           |  |
|------------------------|-----------|--|
| <b>Evidence of:</b>    |           |  |
| Structural Instability | <u>NO</u> |  |

#### Additional Comments

New instrumentation has been installed in the manhole control systems this past month.  
very little rain this past month - today 5-2-2007 we have 1/2 in already today.

Signature  Joe Seade Date 5-2-2007  
 Monticello LM Representative

<sup>a</sup>Inspections required following a significant storm event

<sup>b</sup>Open to inspect quarterly

Figure 3-5. Example Repository Area Surveillance Checklist

LMNT. 4.4

### Monthly Pond 4 Surveillance Checklist

Level of Water in Pond 4 \_\_\_\_\_

| Inspection Item                | Acceptable<br>(Yes/No)                 | Comments & Recommendation |
|--------------------------------|--|---------------------------|
| <b>Condition of:</b>           |  |                           |
| Fences, gates, and locks       | <u>YES</u>                             | _____                     |
| Roads                          | <u>YES</u>                             | _____                     |
| Signs                          | <u>YES</u>                             | _____                     |
| Visible piping                 | <u>YES</u>                             | _____                     |
| Visible liner and anchors      | <u>YES</u>                             | _____                     |
| Rescue equipment               | <u>YES</u>                             | _____                     |
| <b>Evidence of erosion of:</b> |  |                           |
| Top of Pond 4 berm             | <u>NO</u>                              | _____                     |
| Pond 4 sideslopes              | <u>NO</u>                              | _____                     |
| Ditches                        | <u>NO</u>                              | _____                     |
| Surrounding area               | <u>NO</u>                              | _____                     |
| Seepage from Pond 4            | <u>NO</u>                              | _____                     |
| Overtopping of Pond 4          | <u>NO</u>                              | _____                     |
| <b>Evidence of:</b>            |  |                           |
| Vandalism                      | <u>NO</u>                              | _____                     |
| Intrusion by wildlife          | <u>NO</u>                              | _____                     |
| Intrusion by humans            | <u>NO</u>                              | _____                     |
| Accumulation of trash          | <u>SOME AGAINST THE OUTSIDE FENCES</u> | _____                     |

**Additional Comments**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Monticello LM Representative  Joe Slade Date 5-2-2007

Figure 3-6. Example Checklist for Monthly Pond 4 Surveillance

LMNT 4.4

MONTHLY CLIMATOLOGICAL SUMMARY for APR. 2007

NAME: Monticello LTSM CITY: STATE:  
 ELEV: 7000 ft LAT: 37° 54' 00" N LONG: 109° 18' 00" W

TEMPERATURE (°F), RAIN (in), WIND SPEED (mph)

| DAY   | MEAN TEMP | HIGH | TIME  | LOW  | TIME   | HEAT DEG DAYS | COOL DEG DAYS | RAIN | AVG WIND SPEED | HIGH | TIME   | DOM DIR |
|-------|-----------|------|-------|------|--------|---------------|---------------|------|----------------|------|--------|---------|
| 1     | 49.5      | 61.4 | 4:00p | 37.8 | 1:00a  | 15.5          | 0.0           | 0.00 | 9.1            | 30.0 | 6:00p  | SE      |
| 2     | 50.6      | 62.3 | 3:00p | 40.3 | 6:30a  | 14.4          | 0.0           | 0.00 | 12.0           | 33.0 | 2:00p  | SSE     |
| 3     | 52.1      | 63.7 | 6:00p | 39.7 | 5:30a  | 12.9          | 0.0           | 0.00 | 5.6            | 26.0 | 5:00p  | SSW     |
| 4     | 54.7      | 66.1 | 4:30p | 41.7 | 7:30a  | 10.4          | 0.0           | 0.00 | 5.6            | 19.0 | 11:00a | SE      |
| 5     | 54.6      | 62.2 | 3:30p | 47.0 | 7:00a  | 10.4          | 0.0           | 0.00 | 11.4           | 31.0 | 1:30a  | WNW     |
| 6     | 54.1      | 64.6 | 1:00p | 41.7 | 4:30a  | 10.9          | 0.0           | 0.00 | 6.8            | 28.0 | 6:00p  | SW      |
| 7     | 53.0      | 61.4 | 3:00p | 46.3 | 7:30a  | 12.0          | 0.0           | 0.00 | 7.9            | 27.0 | 4:30p  | SSW     |
| 8     | 47.6      | 58.4 | 3:00p | 37.6 | 12:00m | 17.4          | 0.0           | 0.17 | 6.8            | 40.0 | 4:00p  | WNW     |
| 9     | 44.1      | 57.1 | 6:00p | 35.0 | 3:30a  | 20.9          | 0.0           | 0.00 | 4.9            | 36.0 | 12:00m | NNW     |
| 10    | 38.0      | 50.8 | 2:30a | 29.4 | 12:00m | 27.0          | 0.0           | 0.04 | 18.9           | 42.0 | 9:00a  | WNW     |
| 11    | 32.6      | 42.2 | 4:00p | 24.4 | 4:00a  | 32.4          | 0.0           | 0.00 | 8.3            | 31.0 | 6:30a  | WNW     |
| 12    | 32.6      | 41.8 | 1:30p | 28.8 | 7:30a  | 32.4          | 0.0           | 0.03 | 5.9            | 26.0 | 10:30a | SSE     |
| 13    | 38.5      | 48.9 | 3:30p | 31.1 | 4:00a  | 26.4          | 0.0           | 0.12 | 14.2           | 41.0 | 4:00p  | WNW     |
| 14    | 43.5      | 55.2 | 5:00p | 31.3 | 6:30a  | 21.5          | 0.0           | 0.00 | 8.2            | 30.0 | 4:30p  | SSE     |
| 15    | 47.3      | 59.2 | 3:30p | 38.0 | 4:00a  | 17.7          | 0.0           | 0.00 | 12.6           | 47.0 | 4:00p  | SSE     |
| 16    | 44.3      | 56.8 | 1:00p | 34.0 | 12:00m | 20.7          | 0.0           | 0.05 | 7.7            | 42.0 | 7:30p  | WNW     |
| 17    | 44.9      | 55.3 | 4:30p | 33.7 | 7:00a  | 20.1          | 0.0           | 0.00 | 5.9            | 25.0 | 2:30p  | WNW     |
| 18    | 45.7      | 59.5 | 3:30p | 31.7 | 12:00m | 19.4          | 0.0           | 0.00 | 17.9           | 57.0 | 6:00p  | SSE     |
| 19    | 35.9      | 47.2 | 5:00p | 22.8 | 7:00a  | 29.1          | 0.0           | 0.01 | 9.3            | 29.0 | 1:30p  | SSE     |
| 20    | 44.5      | 54.6 | 2:30p | 27.8 | 5:00a  | 20.5          | 0.0           | 0.00 | 14.8           | 42.0 | 12:00p | SSE     |
| 21    | 40.9      | 49.3 | 6:30p | 34.6 | 11:30a | 24.1          | 0.0           | 0.00 | 7.3            | 27.0 | 6:00p  | SSE     |
| 22    | 41.9      | 50.8 | 1:30p | 31.7 | 3:30a  | 23.1          | 0.0           | 0.00 | 13.0           | 46.0 | 3:30p  | SSE     |
| 23    | 36.0      | 41.1 | 9:30a | 31.7 | 10:30p | 29.0          | 0.0           | 0.05 | 8.7            | 32.0 | 10:30a | SSE     |
| 24    | 40.8      | 50.4 | 5:00p | 32.0 | 1:30a  | 24.2          | 0.0           | 0.05 | 16.7           | 44.0 | 11:00a | WNW     |
| 25    | 47.6      | 57.5 | 3:30p | 34.8 | 6:00a  | 17.4          | 0.0           | 0.00 | 7.3            | 22.0 | 10:00a | WNW     |
| 26    | 52.0      | 62.7 | 5:00p | 40.5 | 6:00a  | 13.0          | 0.0           | 0.00 | 7.5            | 26.0 | 5:00p  | WNW     |
| 27    | 55.5      | 65.7 | 3:30p | 43.8 | 7:30a  | 9.5           | 0.0           | 0.00 | 11.1           | 25.0 | 3:00p  | W       |
| 28    | 59.2      | 71.0 | 5:00p | 46.6 | 6:00a  | 7.1           | 1.3           | 0.00 | 6.8            | 22.0 | 3:00p  | SE      |
| 29    | 60.0      | 74.1 | 3:30p | 48.2 | 1:00a  | 5.9           | 0.9           | 0.00 | 9.0            | 25.0 | 8:30a  | SSE     |
| 30    | 61.8      | 73.8 | 3:30p | 47.4 | 6:30a  | 5.8           | 2.5           | 0.00 | 8.2            | 30.0 | 12:30p | WNW     |
| ----- |           |      |       |      |        |               |               |      |                |      |        |         |
|       | 46.8      | 74.1 | 29    | 22.8 | 19     | 551.1         | 4.7           | 0.52 | 9.6            | 57.0 | 18     | WNW     |

Max >= 90.0: 0  
 Max <= 32.0: 0  
 Min <= 32.0: 11  
 Min <= 0.0: 0  
 Max Rain: 0.17 ON 04/08/07  
 Days of Rain: 7 (>.01 in) 2 (>.1 in) 0 (>1 in)  
 Heat Base: 65.0 Cool Base: 65.0 Method: Integration

### Repository Area Surveillance Checklist

Monthly Surveillance \_\_\_\_\_ Quarterly Surveillance (Feb., May, Aug., Nov.)

\_\_\_\_\_ Storm Event Triggered Surveillance due to \_\_\_\_\_ inches of rainfall over the past 24 hours.

| Inspection Item                       | Acceptable<br>(Yes/No) | Comments and Recommendations         |
|---------------------------------------|------------------------|--------------------------------------|
| <b>Condition of:</b>                  |                        |                                      |
| Fences and gates                      | <u>yes</u>             | _____                                |
| Roads <sup>a</sup>                    | <u>yes</u>             | _____                                |
| Signs                                 | <u>yes</u>             | _____                                |
| Site monuments                        | <u>yes</u>             | _____                                |
| Drainage ditches <sup>a</sup>         | <u>yes</u>             | _____                                |
| Manholes                              | <u>yes</u>             | _____                                |
| Vegetation                            | <u>yes</u>             | _____                                |
| <b>Evidence of erosion of:</b>        |                        |                                      |
| Top of disposal cell <sup>a</sup>     | <u>NO</u>              | _____                                |
| Disposal cell sideslopes <sup>a</sup> | <u>NO</u>              | _____                                |
| Ditches                               | <u>NO</u>              | _____                                |
| Surrounding area                      | <u>NO</u>              | _____                                |
| <b>Evidence of:</b>                   |                        |                                      |
| Vandalism                             | <u>NO</u>              | _____                                |
| Intrusion by livestock                | <u>yes</u>             | <u>Deer</u>                          |
| Burrowing animal damage               | <u>yes</u>             | <u>mice/vole damage to the cover</u> |
| Intrusion by humans                   | <u>NO</u>              | _____                                |
| Accumulation of trash                 | <u>NO</u>              | _____                                |

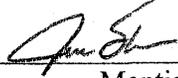
**Additional Quarterly Surveillance Requirements**

Note: All transects, shown in Figure 3-1, must be walked during this inspection.

|                             |            |       |
|-----------------------------|------------|-------|
| <b>Condition of:</b>        |            |       |
| Settlement plate structures | _____      | _____ |
| Manholes <sup>b</sup>       | <u>yes</u> | _____ |
| Sediment Ponds              | <u>yes</u> | _____ |
| <b>Evidence of:</b>         |            |       |
| Structural Instability      | <u>NO</u>  | _____ |

**Additional Comments**

upper pump in manhole #3 was pulled & the monitor equip replaced w/new system making other systems to follow

Signature  Joe Seade  
 Monticello LM Representative

Date 6-5-2007

<sup>a</sup>Inspections required following a significant storm event

<sup>b</sup>Open to inspect quarterly

Figure 3-5. Example Repository Area Surveillance Checklist

LMNT 4.4

**Monthly Pond 4 Surveillance Checklist**

Level of Water in Pond 4 approx 1 1/2 ft in Sump

| <b>Inspection Item</b>         | <b>Acceptable<br/>(Yes/No)</b> | <b>Comments &amp; Recommendation</b> |
|--------------------------------|--------------------------------|--------------------------------------|
| <b>Condition of:</b>           |                                |                                      |
| Fences, gates, and locks       | <u>yes</u>                     |                                      |
| Roads                          | <u>yes</u>                     |                                      |
| Signs                          | <u>yes</u>                     |                                      |
| Visible piping                 | <u>yes</u>                     |                                      |
| Visible liner and anchors      | <u>yes</u>                     |                                      |
| Rescue equipment               | <u>yes</u>                     |                                      |
| <b>Evidence of erosion of:</b> |                                |                                      |
| Top of Pond 4 berm             | <u>NO</u>                      |                                      |
| Pond 4 sideslopes              | <u>NO</u>                      |                                      |
| Ditches                        | <u>NO</u>                      |                                      |
| Surrounding area               | <u>NO</u>                      |                                      |
| Seepage from Pond 4            | <u>NO</u>                      |                                      |
| Overtopping of Pond 4          | <u>NO</u>                      |                                      |
| <b>Evidence of:</b>            |                                |                                      |
| Vandalism                      | <u>NO</u>                      |                                      |
| Intrusion by wildlife          | <u>NO</u>                      |                                      |
| Intrusion by humans            | <u>NO</u>                      |                                      |
| Accumulation of trash          | <u>yes</u>                     | <u>some weeds against the fence</u>  |

**Additional Comments**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Monticello LM Representative *J. Stah* Date 6-5-2007

Figure 3-6. Example Checklist for Monthly Pond 4 Surveillance

*LMNT 4.4*

MONTHLY CLIMATOLOGICAL SUMMARY for MAY. 2007

NAME: Monticello LTSM CITY: STATE:  
 ELEV: 7000 ft LAT: 37° 54' 00" N LONG: 109° 18' 00" W

TEMPERATURE (°F), RAIN (in), WIND SPEED (mph)

| DAY   | MEAN TEMP | HIGH | TIME   | LOW  | TIME   | HEAT DEG DAYS | COOL DEG DAYS | RAIN | AVG WIND SPEED | HIGH | TIME   | DOM DIR |
|-------|-----------|------|--------|------|--------|---------------|---------------|------|----------------|------|--------|---------|
| 1     | 60.0      | 73.1 | 3:00p  | 48.0 | 12:00m | 6.2           | 1.2           | 0.01 | 8.9            | 30.0 | 6:00p  | SSE     |
| 2     | 46.7      | 52.9 | 6:30p  | 43.6 | 8:00a  | 18.3          | 0.0           | 0.51 | 10.3           | 26.0 | 9:30a  | SE      |
| 3     | 49.0      | 59.8 | 2:30p  | 39.2 | 11:30p | 16.0          | 0.0           | 0.01 | 16.1           | 46.0 | 2:00p  | SSE     |
| 4     | 43.9      | 55.5 | 3:00p  | 33.4 | 12:00m | 21.1          | 0.0           | 0.00 | 9.9            | 45.0 | 6:00p  | SSE     |
| 5     | 33.8      | 40.0 | 6:00p  | 30.6 | 8:30a  | 31.2          | 0.0           | 0.20 | 8.0            | 33.0 | 3:30p  | WNW     |
| 6     | 36.3      | 41.9 | 5:00p  | 32.2 | 4:30a  | 28.7          | 0.0           | 0.00 | 15.5           | 38.0 | 5:30p  | WNW     |
| 7     | 43.7      | 54.7 | 5:00p  | 34.0 | 6:00a  | 21.3          | 0.0           | 0.00 | 9.0            | 23.0 | 12:30a | WNW     |
| 8     | 51.3      | 63.5 | 4:30p  | 38.1 | 6:30a  | 13.7          | 0.0           | 0.00 | 7.1            | 22.0 | 6:00p  | W       |
| 9     | 55.3      | 67.6 | 4:30p  | 44.2 | 1:00a  | 10.1          | 0.3           | 0.00 | 10.0           | 27.0 | 5:00p  | SE      |
| 10    | 61.6      | 73.7 | 4:00p  | 50.5 | 6:00a  | 5.6           | 2.2           | 0.00 | 6.9            | 19.0 | 1:30p  | SSW     |
| 11    | 63.7      | 75.3 | 4:30p  | 49.8 | 6:30a  | 4.5           | 3.2           | 0.00 | 7.9            | 22.0 | 9:00a  | SSW     |
| 12    | 63.9      | 76.2 | 4:00p  | 49.6 | 6:30a  | 4.2           | 3.1           | 0.00 | 8.5            | 27.0 | 10:30a | SE      |
| 13    | 64.5      | 76.7 | 4:00p  | 54.0 | 1:30a  | 2.8           | 2.3           | 0.00 | 10.4           | 32.0 | 7:30p  | SE      |
| 14    | 62.8      | 74.4 | 4:30p  | 52.3 | 6:30a  | 4.5           | 2.3           | 0.00 | 11.5           | 32.0 | 2:30p  | SSE     |
| 15    | 60.6      | 72.7 | 2:30p  | 48.5 | 6:30a  | 6.2           | 1.8           | 0.00 | 6.9            | 24.0 | 5:30p  | WNW     |
| 16    | 57.2      | 71.2 | 4:00p  | 48.9 | 11:30p | 8.5           | 0.6           | 0.05 | 10.1           | 30.0 | 6:00p  | SSE     |
| 17    | 57.0      | 71.3 | 4:30p  | 43.9 | 6:00a  | 8.2           | 0.2           | 0.00 | 9.3            | 33.0 | 7:30p  | SSE     |
| 18    | 59.0      | 72.4 | 3:30p  | 47.5 | 6:00a  | 6.8           | 0.8           | 0.00 | 7.1            | 32.0 | 5:30p  | SE      |
| 19    | 60.4      | 71.7 | 3:30p  | 50.6 | 6:30a  | 5.7           | 1.1           | 0.03 | 8.6            | 30.0 | 2:00p  | SSE     |
| 20    | 57.3      | 70.3 | 1:30p  | 46.2 | 5:30a  | 8.0           | 0.2           | 0.06 | 10.2           | 27.0 | 2:00p  | SE      |
| 21    | 58.9      | 70.2 | 4:30p  | 49.1 | 6:30a  | 6.9           | 0.8           | 0.00 | 14.8           | 40.0 | 12:00m | SSE     |
| 22    | 40.4      | 52.5 | 12:30a | 34.4 | 7:00a  | 24.6          | 0.0           | 0.15 | 10.9           | 40.0 | 1:00a  | SE      |
| 23    | 41.8      | 50.3 | 5:30p  | 35.9 | 12:30a | 23.2          | 0.0           | 0.00 | 8.5            | 35.0 | 3:30p  | SSE     |
| 24    | 46.4      | 56.9 | 5:00p  | 31.0 | 3:00a  | 18.6          | 0.0           | 0.00 | 6.6            | 28.0 | 1:00p  | SE      |
| 25    | 55.9      | 68.3 | 6:30p  | 42.4 | 5:30a  | 9.2           | 0.2           | 0.00 | 7.1            | 31.0 | 3:00p  | SSW     |
| 26    | 59.2      | 68.6 | 1:00p  | 45.2 | 6:00a  | 6.3           | 0.5           | 0.00 | 9.3            | 29.0 | 3:30p  | SSW     |
| 27    | 61.8      | 73.9 | 4:30p  | 47.7 | 6:30a  | 5.4           | 2.2           | 0.00 | 7.6            | 24.0 | 10:30a | S       |
| 28    | 63.2      | 74.1 | 5:00p  | 49.3 | 6:30a  | 4.3           | 2.5           | 0.00 | 10.6           | 35.0 | 4:00p  | SSE     |
| 29    | 61.3      | 71.4 | 2:30p  | 51.0 | 6:30a  | 4.4           | 0.7           | 0.00 | 12.4           | 33.0 | 11:00p | WNW     |
| 30    | 55.9      | 67.8 | 4:30p  | 39.7 | 4:30a  | 9.5           | 0.3           | 0.00 | 9.1            | 29.0 | 12:00p | WNW     |
| 31    | 63.0      | 74.5 | 3:30p  | 48.6 | 5:00a  | 4.8           | 2.8           | 0.00 | 8.7            | 33.0 | 4:30p  | W       |
| ----- |           |      |        |      |        |               |               |      |                |      |        |         |
|       | 54.7      | 76.7 | 13     | 30.6 | 5      | 348.8         | 29.3          | 1.02 | 9.6            | 46.0 | 3      | SSE     |

Max >= 90.0: 0  
 Max <= 32.0: 0  
 Min <= 32.0: 2  
 Min <= 0.0: 0

Max Rain: 0.51 ON 05/02/07

Days of Rain: 6 (>.01 in) 3 (>.1 in) 0 (>1 in)

Heat Base: 65.0 Cool Base: 65.0 Method: Integration

### Repository Area Surveillance Checklist

Monthly Surveillance  Quarterly Surveillance (Feb., May, Aug., Nov.)

Storm Event Triggered Surveillance due to \_\_\_\_\_ inches of rainfall over the past 24 hours.

| Inspection Item                       | Acceptable<br>(Yes/No) | Comments and Recommendations                      |
|---------------------------------------|------------------------|---|
| <b>Condition of:</b>                  |                        |   |
| Fences and gates                      | <u>YES</u>             |   |
| Roads <sup>a</sup>                    | <u>YES</u>             |   |
| Signs                                 | <u>YES</u>             |   |
| Site monuments                        | <u>YES</u>             |   |
| Drainage ditches <sup>a</sup>         | <u>YES</u>             |   |
| Manholes                              | <u>YES</u>             |   |
| Vegetation                            | <u>YES</u>             |   |
| <b>Evidence of erosion of:</b>        |                        |   |
| Top of disposal cell <sup>a</sup>     | <u>NO</u>              |   |
| Disposal cell sideslopes <sup>a</sup> | <u>NO</u>              |   |
| Ditches                               | <u>NO</u>              |   |
| Surrounding area                      | <u>NO</u>              |   |
| <b>Evidence of:</b>                   |                        |   |
| Vandalism                             | <u>NO</u>              |   |
| Intrusion by livestock                | <u>NO</u>              |   |
| Burrowing animal damage               | <u>NO</u>              | <u>the whole problem seems to have subsided —</u> |
| Intrusion by humans                   | <u>NO</u>              |   |
| Accumulation of trash                 | <u>NO</u>              |   |

**Additional Quarterly Surveillance Requirements**

Note: All transects, shown in Figure 3-1, must be walked during this inspection.

|                             |       |       |
|-----------------------------|-------|-------|
| <b>Condition of:</b>        |       |       |
| Settlement plate structures | _____ | _____ |
| Manholes <sup>b</sup>       | _____ | _____ |
| Sediment Ponds              | _____ | _____ |
| <b>Evidence of:</b>         |       |       |
| Structural Instability      | _____ | _____ |

**Additional Comments**

the plant vegetation is very dry at this time we have had no rain fall for the month of June.

Signature  Date 7-6-2007  
Monticello LM Representative

<sup>a</sup>Inspections required following a significant storm event  
<sup>b</sup>Open to inspect quarterly

Figure 3-5. Example Repository Area Surveillance Checklist

LMNT 4.4

**Monthly Pond 4 Surveillance Checklist**

Level of Water in Pond 4 4 1/2 to 6"

| Inspection Item   | Acceptable (Yes/No) | Comments & Recommendation   |
|---|---------------------|---|
| <b>Condition of:</b>  |                     |   |
| Fences, gates, and locks  | <u>yes</u>          |   |
| Roads   | <u>yes</u>          |   |
| Signs   | <u>yes</u>          |   |
| Visible piping  | <u>yes</u>          |   |
| Visible liner and anchors   | <u>yes</u>          |   |
| Rescue equipment  | <u>yes</u>          | <u>New Rescue Cabinets installed by the Pond</u><br><u>Electrical Cabinet - New Rescue Equipment also</u><br><u>placed in new Cabinets.</u> |
| <b>Evidence of erosion of:</b>  |                     |   |
| Top of Pond 4 berm  | <u>NO</u>           |   |
| Pond 4 sideslopes   | <u>NO</u>           |   |
| Ditches   | <u>NO</u>           |   |
| Surrounding area  | <u>NO</u>           |   |
| Seepage from Pond 4   | <u>NO</u>           |   |
| Overtopping of Pond 4   | <u>NO</u>           |   |
| <b>Evidence of:</b>   |                     |   |
| Vandalism   | <u>NO</u>           |   |
| Intrusion by wildlife   | <u>NO</u>           |   |
| Intrusion by humans   | <u>NO</u>           |   |
| Accumulation of trash   | <u>NO</u>           |   |
| <b>Additional Comments</b>  |                     |   |
| <u>Some of the old Pond Liner Bag Ropes were removed from the site along with</u><br><u>the bags that had lost their sand. the 4" pump hose was also removed</u><br><u>from the North side of the Pond.</u> |                     |   |
| <u>After the safety audit, the wires that were installed with the new meters,</u><br><u>were placed in conduit going to the control panel.</u>  |                     |   |
| Monticello LM Representative  | <u>[Signature]</u>  | Date <u>7-6-2007</u>  |

Figure 3-6. Example Checklist for Monthly Pond 4 Surveillance

LMNT 4.4

