

Monticello, Utah, National Priorities List Sites Federal Facilities Agreement (FFA) Quarterly Report: January 1–March 31, 2010

This report summarizes project status and activities implemented January through March 2010, and provides a schedule of near-term activities for the Monticello Mill Tailings Site (MMTS) and the Monticello Vicinity Properties (MVP) Site. This report also includes disposal cell and Pond 4 leachate collection data, quarterly site inspection reports, site meteorological data, and a performance summary for the ex situ groundwater treatment system.

1.0 MMTS Activities and Status

1.1 Repository Site Inspections

- Monthly and quarterly inspections of the repository site (waste disposal cell, Pond 4, and associated infrastructure) identified no abnormalities or unacceptable conditions (see attached inspection reports).
- Repository leachate collection in the upper sumps (Leachate Collection and Recovery System [LCRS]) was normal for the quarter. Leachate production has decreased in quantity from approximately 30,000 gallons per week following final waste encapsulation in 1999 to current values of about 1,000 gallons per week or less for each of the two sumps (LCRS 1 and LCRS 2; see attached graph).
- The LCRS 1 water level transducer has needed to be replaced since July 2009. The transducer activates the sump pump at a specified water level in the sump. Health and safety evaluations were not completed in time for replacing the transducer in fall 2009. Health and safety evaluations have since been completed; however, heavy snow cover now prevents replacing the transducer. The LCRS 1 pump is operated manually each month and will be until the transducer is replaced. All remaining repository and Pond 4 telemetry components are functional.
- Pond 4 LCRS operation was normal (no water collected during the quarter).
- Disposal cell and Pond 4 leachate collection in the lower sumps (Leachate Detection System) remains at zero (see attached graphs).

1.2 Former Millsite

- No land use or groundwater use compliance issues were observed or reported by long-term surveillance and maintenance (LTSM) on-site staff. Heavy snow cover inhibits normal use of the park.

1.3 Peripheral Properties (Private and City-Owned)

- No land use or supplemental standards compliance issues were observed or reported by LTSM on-site staff.

- The U.S. Department of Energy (DOE) continues to excess DOE-owned property MP-01080-VL, east of the repository site. With DOE approval, a local landowner has been using the property for agricultural purposes in recent years.

1.4 Temporary Storage Facility (TSF)

- Approximately 50 cubic yards of radiologically contaminated material are present in the TSF. No material was added to the TSF since the City of Monticello, the Utah Department of Transportation, and utility companies ceased construction there in late fall 2009. DOE typically initiates the process to transfer TSF materials to the Grand Junction, Colorado, Disposal Site for permanent disposal when TSF contents approach 75 cubic yards. In anticipation of encountering contamination soon after construction activities resume in spring 2010, DOE will initiate the transfer process sooner than usual.

1.5 Operable Unit (OU) III (Surface Water and Groundwater)

- On February 22, 2010, the U.S. Environmental Protection Agency (EPA) and the Utah Department of Environmental Quality (UDEQ) e-mailed comments to DOE regarding the biomonitoring scope proposed for 2010 and 2011 (which DOE submitted on January 26, 2010). DOE is currently preparing responses to those comments. Following comment resolution, DOE will prepare a program directive and associated sampling and analysis plan to guide and document the biomonitoring scope for 2010.
- On January 26, 2010, DOE e-mailed the Biological Technical Assistance Group (BTAG) a preliminary comparison of current selenium concentrations in biotic and abiotic media to pre-remediation and background conditions. This submittal accompanied the proposed biomonitoring scope for 2010 and 2011. DOE received no comments on the comparison. The comparison indicated that selenium concentrations were consistent with background and pre-remediation conditions.
- No issues in association with the OU III institutional controls that affect land use and groundwater use were reported.

1.6 Ex Situ Groundwater Treatment System

- The treatment system operated continuously for the quarter at an average rate of 10 gallons per minute (gpm). There were no modifications to the treatment system or its flow settings during the quarter.
- Approximately 1.3 million gallons of water were treated during the quarter, and 3.6 pounds of uranium were removed from the aquifer as a result of groundwater treatment.
- Deep snow cover prevented the reconfiguration of outfall components and the calibration of the outfall flow meter. The changes will be completed when conditions improve. (Inflow to the treatment cells is metered in the control vault.)
- Table 1 summarizes treatment system performance. Flow information is from the DOE Office of Legacy Management (LM) Systems Operations and Analysis at Remote Sites telemetry system. Uranium concentrations are from inflow and outflow water samples collected monthly. Prior to June 2008, water samples were analyzed at the LM Environmental Sciences Laboratory (ESL) in Grand Junction. Samples have since been

analyzed at the LM contract laboratory Paragon Analytics in Fort Collins, Colorado. DOE continues to, on occasion, analyze a split of selected samples at the ESL.

- Table 2 provides monthly results of total iron and pH for the combined effluent of the two treatment cells. Iron concentration and pH for this quarter are within the discharge allowances as specified by the Utah Division of Water Quality.
- The treatment media was most recently changed out on March 18, 2009. Uranium removal from the influent groundwater remained highly effective through the quarter.

Table 1. Treatment System Performance Summary

Treatment Parameter	December 2009	January 2010	February 2010	March 2010
Gallons treated	410,277	431,006	423,272	456,490
Average treatment rate, gpm	9.0	9.5	10.5	10.0
Uranium influent, micrograms per liter	340	330	320	350
Uranium outfall, micrograms per liter	6.8	8.8	8.4	11
Uranium mass removed, pounds	1.14	1.15	1.10	1.29
Cumulative uranium mass removed, pounds	31.4	32.6	33.7	35.0
Cumulative volume treated, gallons	12,942,030	13,373,036	13,796,308	14,252,798

Table 2. Treatment System Compliance Summary

Outfall to Creek (sample location TCOU)	December 2009	January 2010	February 2010	March 2010
pH ^a	7.33	7.09	7.00	7.42
Iron (total, micrograms per liter) ^b	35	24	19	20

^aDischarge allowance range = 6.5–9 standard units

^bDischarge limit = 45.4 micrograms per liter at outfall to creek

2.0 MVP Activities and Status

2.1 City Streets and Utilities, and Utah Department of Transportation (UDOT) Rights-of-Way

- On-site LTSM staff continue to coordinate with City, UDOT, and utility company officials regarding radiological control at highway, street, and utility excavations. Heavy snow cover and winter conditions inhibited any significant construction activity by the City, UDOT, and utility companies.
- On-site LTSM staff report that City construction activities will resume early in spring 2010, at which time contaminated materials are expected to be encountered in association with storm sewer repairs.

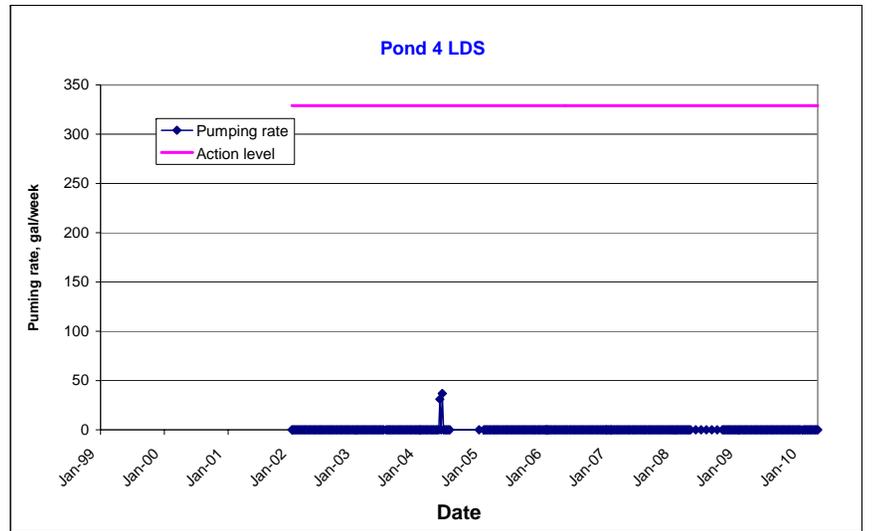
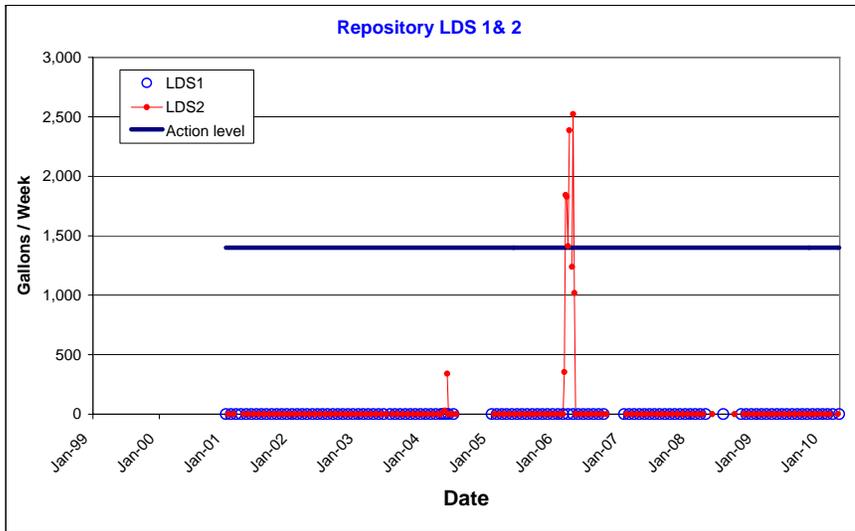
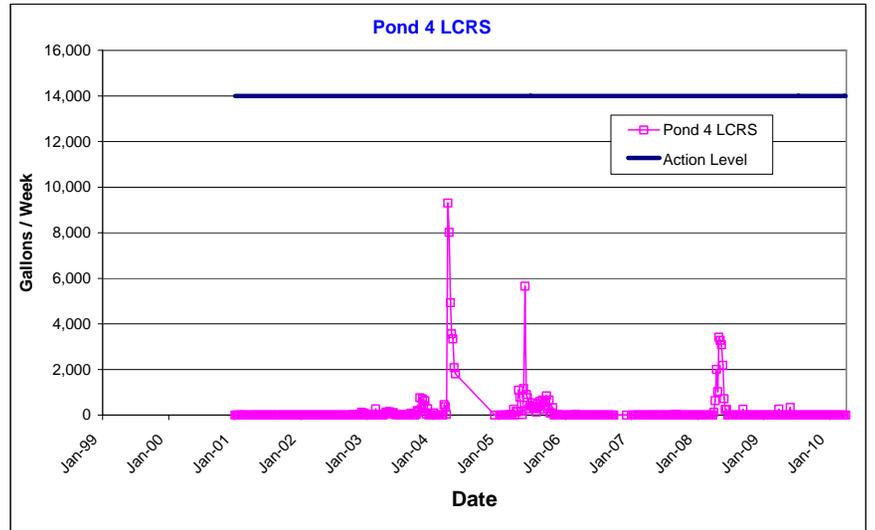
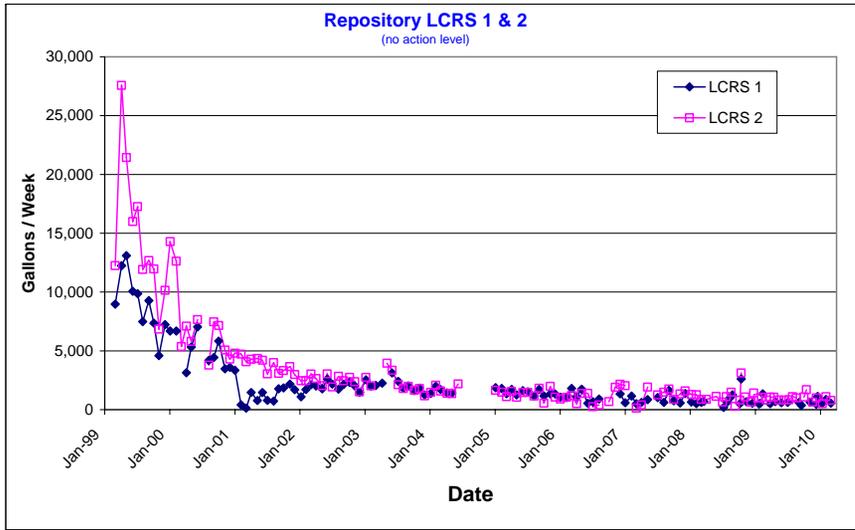
3.0 Schedule and Deliverables

- The future scope of biomonitoring will be addressed at the spring 2010 FFA meeting, tentatively scheduled for April 21, 2010.
- In correspondence dated March 25, 2010, DOE documented that DOE, EPA, and UDEQ agreed to modify the deliverable schedule for the annual site management plan so that the update to “draft” status is due to EPA and UDEQ for review by August 1 annually. Previously, the “draft final” version was due by September 30 annually. As of April 7, 2010, per a telephone conversation, EPA wants to reconfirm its position to the deliverable status of the annual update.
- Spring 2010 semiannual water quality monitoring is scheduled for the week of April 19, 2010, weather and snow conditions permitting.
- No other regulatory-required deliverables are scheduled for the next quarter (April 2010 through June 2010). Table 3 lists recently completed deliverables.

Table 3. Recent and Near-Term Deliverables

Deliverable	Status/Schedule
FFA quarterly report for October–December 2009	E-mailed to EPA and UDEQ on January 11, 2010.
FFA quarterly report for April 2010–June 2010	Due to EPA and UDEQ by July 11, 2010.
Site Management Plan, Section 5.0, annual update	Submittal date to be determined.

Graphs Showing Performance History for Repository and Pond 4 Leachate Collection and Recovery System (LCRS) and Leak Detection System (LDS) and Leak Detection System (LDS)



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MONTHLY CLIMATOLOGICAL SUMMARY for MAR. 2010

NAME: Monticello CITY: STATE:
 ELEV: 7000 ft LAT: 37° 36' 00" N LONG: 122° 06' 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	33.7	39.2	4:00p	28.5	12:00m	31.3	0.0	0.00	12.1	30.0	1:00a	NNW
2	31.9	39.6	2:30p	25.7	7:00a	33.1	0.0	0.00	5.0	16.0	2:30p	S
3	34.0	41.0	3:00p	26.8	5:30a	31.0	0.0	0.00	5.0	15.0	1:00p	SW
4	34.7	42.6	5:30p	26.4	12:00m	30.3	0.0	0.00	11.9	40.0	8:00p	S
5	30.0	41.7	4:00p	24.3	6:30a	35.0	0.0	0.00	5.1	20.0	5:30a	SSE
6	33.5	44.0	3:30p	24.1	5:00a	31.5	0.0	0.00	3.8	13.0	1:30p	W
7	34.4	41.1	1:00a	31.8	6:30a	30.6	0.0	0.39	5.5	24.0	5:00a	S
8	31.8	37.0	4:30p	26.5	11:30p	33.2	0.0	0.29	2.9	20.0	1:30p	WSW
9	30.5	35.9	3:30p	25.6	6:30a	34.5	0.0	0.01	4.6	18.0	12:00p	SW
10	28.2	32.4	1:30p	24.3	7:00a	36.8	0.0	0.32	2.6	14.0	1:00a	NNW
11	26.5	33.5	3:00p	22.1	6:30a	38.5	0.0	0.06	14.3	34.0	10:00a	NNW
12	30.7	44.2	5:30p	18.7	6:30a	34.3	0.0	0.03	3.8	11.0	1:30a	ENE
13	35.5	43.4	3:30p	27.5	3:30a	29.5	0.0	0.00	7.4	26.0	12:30p	SW
14	26.9	33.0	2:00p	21.5	8:30a	36.5	0.0	0.24	4.5	15.0	3:00p	S
15	31.7	39.7	6:00p	19.5	4:00a	33.3	0.0	0.14	7.2	19.0	4:00p	NNW
16	37.5	46.9	2:00p	28.2	7:30a	27.5	0.0	0.00	6.2	17.0	12:30a	NW
17	40.4	53.3	5:00p	30.2	5:00a	24.6	0.0	0.00	4.2	17.0	3:00a	NW
18	42.2	48.7	6:30p	33.9	3:00a	22.8	0.0	0.00	6.0	23.0	12:00m	W
19	31.3	43.6	12:30a	24.1	12:00m	33.7	0.0	0.02	18.5	44.0	12:30p	NNW
20	26.9	34.0	5:00p	19.1	4:30a	38.1	0.0	0.00	11.2	30.0	12:30a	NNW
21	34.1	45.9	6:00p	20.6	3:30a	30.9	0.0	0.00	4.0	13.0	1:00a	NNW
22	40.0	47.9	4:30p	31.3	2:30a	25.0	0.0	0.00	6.5	19.0	8:30a	SW
23	34.5	41.1	12:30a	28.2	9:00p	30.5	0.0	0.00	14.2	34.0	11:00a	NNW
24	32.0	39.8	5:00p	27.2	7:30a	33.0	0.0	0.00	17.4	42.0	8:00a	NNW
25	35.9	44.2	5:00p	23.9	4:00a	29.1	0.0	0.00	5.4	20.0	10:00a	SSE
26	33.8	41.5	1:00a	28.2	12:00m	31.2	0.0	0.05	10.9	38.0	6:30p	NNW
27	30.7	38.8	5:30p	25.1	7:30a	34.3	0.0	0.00	15.1	38.0	9:30a	NNW
28	36.4	50.5	6:30p	25.3	7:00a	28.6	0.0	0.00	3.7	13.0	1:00a	ENE
29	31.5	39.1	9:30a	28.1	6:00a	13.2	0.0	0.00	2.5	12.0	9:30a	SW
30												
31												
	33.1	53.3	17	18.7	12	901.9	0.0	1.55	7.6	44.0	19	NNW

Max >= 90.0: 0
 Max <= 32.0: 0
 Min <= 32.0: 28
 Min <= 0.0: 0
 Max Rain: 0.39 ON 03/07/10
 Days of Rain: 9 (>.01 in) 5 (>.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 (Yes/No)	Comments and Recommendations
Condition of:		
Fences and gates	yes	_____
Roads ^a	yes	_____
Signs	yes	_____
Site monuments	yes	_____
Drainage ditches ^a	yes	_____
Manholes	yes	_____
Vegetation	yes	_____
Evidence of erosion of:		
Top of disposal cell ^a	NO	_____
Disposal cell sideslopes ^a	NO	_____
Ditches	NO	_____
Surrounding area	NO	_____
Evidence of:		
Vandalism	NO	_____
Intrusion by livestock	NO	_____
Burrowing animal damage	NO	_____
Intrusion by humans	NO	_____
Accumulation of trash	NO	_____

Additional Quarterly Surveillance Requirements

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

Condition of:

Settlement plate structures	yes	_____
Manholes ^b	yes	_____
Sediment Ponds	NA	_____

Evidence of:

Structural Instability	ok	_____
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Additional Comments Lots of snow & mud

Signature Jedd Meon
Monticello LM Representative

Date 3-2-10

^aInspections required following a significant storm event

^bOpen to inspect quarterly

Monthly Pond 4 Surveillance Checklist

Level of Water in Pond 4 2.6

Inspection Item	Acceptable (Yes/No)	Comments & Recommendation
Condition of:		
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>	_____
 Evidence of erosion of:		
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>	_____
 Evidence of:		
Vandalism	<u>NO</u>	_____
Intrusion by wildlife	<u>NO</u>	_____
Intrusion by humans	<u>NO</u>	_____
Accumulation of trash	<u>NO</u>	_____

Additional Comments lots of snow & mud

Monticello LM Representative Jodd Moon Date 3-2-10

MONTHLY CLIMATOLOGICAL SUMMARY for FEB. 2010

NAME: Monticello CITY: STATE:
 ELEV: 7000 ft LAT: 37° 36' 00" N LONG: 122° 06' 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	21.1	33.7	2:00p	12.7	7:30a	43.9	0.0	0.00	4.2	13.0	8:00a	NNE
2	21.5	32.2	3:30p	14.5	7:30a	43.5	0.0	0.00	3.5	13.0	2:00p	W
3	24.8	33.9	3:30p	15.9	1:00a	40.2	0.0	0.00	2.4	7.0	2:00a	NNE
4	25.4	38.4	3:00p	15.9	5:00a	39.6	0.0	0.00	3.0	9.0	1:30a	NW
5	26.0	34.3	2:00p	20.2	5:30a	39.0	0.0	0.00	3.6	17.0	12:30p	NW
6	31.2	35.5	3:00p	24.4	12:30a	33.8	0.0	0.01	7.3	22.0	8:00a	SSW
7	29.7	35.9	1:30p	21.9	11:30p	35.3	0.0	0.21	7.1	20.0	7:30a	SSW
8	25.7	31.3	1:00p	19.7	7:30p	39.3	0.0	0.00	8.3	23.0	11:00a	NNW
9	23.7	32.6	2:30p	14.6	3:00a	41.3	0.0	0.04	4.1	15.0	12:30p	WNW
10	25.3	35.2	11:00a	16.3	11:00p	39.7	0.0	0.03	3.1	10.0	3:30p	SW
11	22.5	33.4	2:30p	10.8	4:00a	42.5	0.0	0.00	4.4	22.0	3:30p	NNW
12	26.7	38.0	2:30p	18.1	5:30a	38.3	0.0	0.00	3.8	12.0	1:30a	W
13	30.1	41.7	2:30p	18.8	1:00a	34.9	0.0	0.00	5.4	26.0	4:00p	NNW
14	27.5	34.1	2:00p	19.6	12:00m	37.5	0.0	0.00	9.3	22.0	12:30a	NNW
15	26.2	35.3	11:00a	18.2	3:00a	38.8	0.0	0.00	3.2	14.0	2:00p	ENE
16	26.3	35.4	2:00p	17.7	9:00a	38.7	0.0	0.01	4.7	18.0	2:30p	NW
17	28.1	40.1	3:30p	19.1	1:30a	36.9	0.0	0.00	3.5	11.0	1:00p	WNW
18	28.1	36.8	1:30p	18.3	3:30a	36.9	0.0	0.01	4.4	15.0	1:30p	SSE
19	30.0	37.9	3:30p	20.0	3:00a	35.0	0.0	0.11	6.3	22.0	9:30a	S
20	29.9	36.2	1:30p	25.3	11:00p	35.1	0.0	0.01	6.9	28.0	2:00p	SSW
21	26.4	32.3	12:00p	19.3	11:00p	38.6	0.0	0.20	5.4	23.0	5:30p	S
22	19.3	23.7	2:30a	16.1	10:00p	45.7	0.0	0.00	18.7	36.0	12:00p	S
23	21.3	30.4	4:00p	14.6	8:30p	43.7	0.0	0.00	9.2	29.0	12:30a	NNW
24	22.8	29.7	1:30p	14.9	12:30a	42.2	0.0	0.00	7.2	30.0	10:00a	S
25	26.8	32.3	2:00p	18.9	6:30a	38.2	0.0	0.03	9.3	27.0	5:00p	NNW
26	27.8	36.0	3:30p	17.0	7:00a	37.2	0.0	0.00	5.2	22.0	12:30a	NNW
27	31.9	37.4	2:00p	23.6	12:30a	33.1	0.0	0.00	6.3	19.0	11:30a	SW
28	32.5	36.8	12:30p	26.3	8:00a	32.5	0.0	0.00	11.0	31.0	4:30p	NNW

	26.4	41.7	13	10.8	11	1081.4	0.0	0.66	6.1	36.0	22	NNW

Max >= 90.0: 0
 Max <= 32.0: 4
 Min <= 32.0: 28
 Min <= 0.0: 0
 Max Rain: 0.21 ON 02/07/10
 Days of Rain: 6 (>.01 in) 3 (>.1 in) 0 (>1 in)
 Heat Base: 65.0 Cool Base: 65.0 Method: Integration

Monthly Pond 4 Surveillance Checklist

Level of Water in Pond 4 2.4

Inspection Item	Acceptable (Yes/No)	Comments & Recommendation
Condition of:		
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>	_____
 Evidence of erosion of:		
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>	_____
 Evidence of:		
Vandalism	<u>NO</u>	_____
Intrusion by wildlife	<u>NO</u>	_____
Intrusion by humans	<u>NO</u>	_____
Accumulation of trash	<u>NO</u>	_____

Additional Comments Lots of SNOW

Monticello LM Representative Judd Moon Date 2-2-10

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 (Yes/No)	Comments and Recommendations
Condition of:		
Fences and gates	<u>yes</u>	_____
Roads ^a	<u>yes</u>	_____
Signs	<u>yes</u>	_____
Site monuments	<u>yes</u>	_____
Drainage ditches ^a	<u>yes</u>	_____
Manholes	<u>yes</u>	_____
Vegetation	<u>yes</u>	_____
Evidence of erosion of:		
Top of disposal cell ^a	<u>no</u>	_____
Disposal cell sideslopes ^a	<u>no</u>	_____
Ditches	<u>no</u>	_____
Surrounding area	<u>no</u>	_____
Evidence of:		
Vandalism	<u>no</u>	_____
Intrusion by livestock	<u>no</u>	_____
Burrowing animal damage	<u>no</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.

Condition of:		
Settlement plate structures	_____	_____
Manholes ^b	_____	_____
Sediment Ponds	_____	_____
Evidence of:		
Structural Instability	_____	_____

Additional Comments _____

Signature Jodd Moon
 Monticello LM Representative

Date 2-7-10

^aInspections required following a significant storm event
^bOpen to inspect quarterly

MONTHLY CLIMATOLOGICAL SUMMARY for JAN. 2010

NAME: Monticello CITY: STATE:
 ELEV: 7000 ft LAT: 37° 36' 00" N LONG: 122° 06' 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	19.7	32.9	1:30p	9.0	5:30a	45.3	0.0	0.00	1.4	9.0	12:00p	SSE
2	24.4	34.3	3:30p	15.5	6:30a	40.6	0.0	0.00	4.8	21.0	3:30p	NNW
3	24.6	32.3	2:00p	14.3	7:00a	40.4	0.0	0.00	5.3	19.0	5:30a	NNE
4	23.5	38.2	2:30p	15.3	7:00a	41.5	0.0	0.00	2.8	9.0	9:00a	NNW
5	22.3	32.1	4:00p	13.6	7:00a	42.7	0.0	0.00	3.1	12.0	12:30p	WNW
6	29.6	41.1	2:00p	20.2	8:00a	35.4	0.0	0.00	3.4	22.0	12:30p	WNW
7	27.3	33.3	1:00a	17.7	10:30p	37.7	0.0	0.00	11.3	26.0	11:30a	NNW
8	20.8	30.8	3:30p	14.1	10:30p	44.2	0.0	0.00	4.3	24.0	3:30a	S
9	22.2	34.8	2:00p	12.1	4:30a	42.8	0.0	0.00	2.8	14.0	9:30p	WNW
10	25.8	35.8	5:00p	17.5	8:30p	39.2	0.0	0.00	2.4	11.0	5:00p	NNW
11	29.3	40.9	1:00p	19.5	7:00a	35.7	0.0	0.00	2.4	7.0	2:30a	NNW
12	31.4	37.5	1:30p	20.3	3:30a	33.6	0.0	0.00	5.9	17.0	2:00p	SSW
13	32.3	37.0	2:30p	25.3	6:00a	32.7	0.0	0.00	6.9	24.0	11:30a	S
14	32.6	37.6	4:00p	25.5	2:30a	32.4	0.0	0.00	9.9	31.0	1:00p	NNW
15	29.0	38.8	1:00p	20.9	9:00p	36.0	0.0	0.00	4.3	20.0	12:30a	NNW
16	28.2	35.6	11:00a	20.4	2:30a	36.8	0.0	0.00	3.0	9.0	1:00p	SSE
17	28.9	37.1	11:00a	20.1	9:30p	36.1	0.0	0.00	3.4	12.0	12:00m	S
18	28.2	29.5	5:00a	26.2	10:00a	36.8	0.0	0.00	10.2	23.0	11:30a	SSW
19	29.1	33.2	1:30p	27.2	5:00a	35.9	0.0	0.10	8.5	24.0	5:00p	S
20	28.0	33.5	1:30p	21.9	6:30p	37.0	0.0	0.07	11.5	39.0	6:00a	SSW
21	28.2	32.6	10:30p	25.2	1:00a	36.8	0.0	0.02	11.8	33.0	9:30a	SSW
22	27.4	31.6	12:30a	21.8	12:00m	37.6	0.0	0.00	11.7	29.0	4:30p	S
23	20.1	28.4	3:30p	11.8	7:30a	44.9	0.0	0.20	5.8	34.0	8:00p	NNW
24	19.9	26.5	2:30p	12.8	12:00m	45.1	0.0	0.00	12.0	31.0	9:30a	NNW
25	20.1	32.1	1:00p	9.8	5:00a	44.9	0.0	0.11	4.1	12.0	12:30a	WNW
26	22.3	31.0	2:00p	10.7	4:00a	42.7	0.0	0.00	5.7	24.0	1:00p	S
27	29.3	35.2	7:30p	21.1	2:00a	35.7	0.0	0.06	4.5	18.0	3:00p	SSW
28	32.3	37.3	1:30p	28.1	12:00m	32.7	0.0	0.24	5.6	27.0	10:00p	NNW
29	28.9	36.3	2:30p	22.0	10:00p	36.1	0.0	0.00	5.7	21.0	3:00a	NNW
30	25.3	31.4	1:30p	15.5	5:30a	39.7	0.0	0.00	6.6	20.0	6:30p	SW
31	27.4	33.2	1:30p	22.0	12:00m	37.6	0.0	0.00	4.4	18.0	10:30a	SSW
	26.4	41.1	6	9.0	1	1196.6	0.0	0.80	6.0	39.0	20	NNW

Max >= 90.0: 0
 Max <= 32.0: 7
 Min <= 32.0: 31
 Min <= 0.0: 0
 Max Rain: 0.24 ON 01/28/10
 Days of Rain: 7 (>.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 (Yes/No)	Comments and Recommendations
Condition of:		
Fences and gates	Yes	_____
Roads ^a	Yes	_____
Signs	Yes	_____
Site monuments	Yes	_____
Drainage ditches ^a	Yes	_____
Manholes	Yes	_____
Vegetation	Yes	_____
Evidence of erosion of:		
Top of disposal cell ^a	NO	Buried in Snow
Disposal cell sideslopes ^a	NO	_____
Ditches	NO	_____
Surrounding area	NO	_____
Evidence of:		
Vandalism	NO	_____
Intrusion by livestock	NO	_____
Burrowing animal damage	NO	_____
Intrusion by humans	NO	_____
Accumulation of trash	NO	_____

Additional Quarterly Surveillance Requirements

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

Condition of:		
Settlement plate structures	_____	_____
Manholes ^b	_____	_____
Sediment Ponds	_____	_____
Evidence of:		
Structural Instability	_____	_____

Additional Comments _____

Signature Judd Moon
 Monticello LM Representative

Date 1-4-2010

^aInspections required following a significant storm event
^bOpen to inspect quarterly

Monthly Pond 4 Surveillance Checklist

Level of Water in Pond 4 2.2

Inspection Item	Acceptable (Yes/No)	Comments & Recommendation
Condition of:		
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>	_____
 Evidence of erosion of:		
Top of Pond 4 berm	<u>no</u>	<u>buried in snow</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>	_____
 Evidence of:		
Vandalism	<u>no</u>	_____
Intrusion by wildlife	<u>no</u>	_____
Intrusion by humans	<u>no</u>	_____
Accumulation of trash	<u>no</u>	_____

Additional Comments _____

Monticello LM Representative Jodel Maun Date 01-04-2010

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