

MONTICELLO PROJECTS
FEDERAL FACILITY AGREEMENT REPORT
January/February 2005
Report Period: January 1 – February 28, 2005
DOE Project Coordinator: Art Kleinrath

HIGHLIGHTS

MSG

The Environmental Protection Agency (EPA), Utah Department of Environmental Quality (UDEQ), and U.S. Department of Energy (DOE) agreed that the *Monticello Administrative Manual* and *Long-Term Surveillance and Maintenance Operating Procedures* will not be combined into a single manual. Instead, the *Monticello LTSM Operating Procedures for Surface and Ground Water* will be written to address Operable Unit III requirements. A draft of this manual will be delivered to EPA and UDEQ by April 14, 2005, and a draft-final version will be completed by August 12, 2005.

A Program Directive for conducting wildlife surveys at the Monticello wetland areas has been completed and the initial survey is scheduled for April 19-20, 2005. Input to the Program Directive was obtained from the Biological Technical Assistance Group, which includes members from the U.S. Fish and Wildlife Service, the UDEQ, and the EPA. The surveys will target avian species that will likely use the wetland habitat.

MRAP

The *Monticello Millsite Restoration Plan* was updated on February 24 to include comments received from EPA and UDEQ and was subsequently submitted to the City of Monticello.

DOE submitted the *Final Results of Wetland Restoration and Monitoring at the Monticello Mill Tailings Site and Monticello Vicinity Properties Site* to EPA and UDEQ on February 25. DOE has successfully completed its wetland restoration program in Monticello, and this is the final report.

DOE submitted Chapter 5, Project Schedules and Milestones, of the Monticello Site Management Plan to EPA and UDEQ on February 4.

MVP

No significant activities to report.

MONTICELLO PROJECTS
FEDERAL FACILITIES AGREEMENT REPORT
January/February 2005
Report Period: January 1 – February 28, 2005
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STATUS

Operable Units I and II

A teleconference was held with DOE, EPA, and UDEQ to discuss the trip report for the 2004 annual inspection of the disposal site, which was submitted to EPA and UDEQ on October 27, 2004. Comments are currently being addressed and will be incorporated into the final 2004 Annual Inspection Report. This report is scheduled to be delivered to EPA and UDEQ by March 18.

The *Monticello Millsite Restoration Plan* was updated on February 24 to include comments received from EPA and UDEQ and submitted to the City of Monticello.

A *Water Users Claim Form* has been prepared requesting that the Utah Division of Water Rights conduct a field verification of water rights being used for stock watering purposes by Mr. Pete Steele of Monticello. This *Water Users Claim Form* is required to demonstrate that the water stored and used by Mr. Steele is being put to beneficial use. The *Water Users Claim Form*, construction drawings for the Steele Pond, and a check for \$25 (for administrative fees) were sent from DOE to Mr. Casey Ford of the Utah Division of Water Rights on February 16.

DOE submitted the *Final Results of Wetland Restoration and Monitoring at the Monticello Mill Tailings Site and Monticello Vicinity Properties Site* to EPA and UDEQ on February 25. DOE has successfully completed its wetland restoration program in Monticello, and this is the final report. EPA requested that DOE visit all the restored wetland areas in 2005 because some of the restored wetland areas had not been visited since the date they were considered successfully restored. DOE plans to visit all of the wetland areas in summer 2005 to ensure that all are still considered successfully restored. Wetland specialists will conduct a quantitative analysis of plant cover but will not re-delineate or re-survey wetland areas. A short trip report summarizing the results of the 2005 field visits will be submitted to EPA and UDEQ in January 2006.

A meeting with LM-30 contractor personnel, DOE, Stoller, and the City of Monticello was held in Monticello to discuss potential changes to the use of the millsite. LM-30 contract personnel will contact potential partners of the City, such as the Four Corners School or the Audubon Society, to determine if there is interest in developing an educational facility on the millsite. Other plans, such as development of an interpretive center, will also be investigated. The City of Monticello was receptive to the idea and felt that it may improve their economic development. LM-30 will take the lead in finding a partner for the City and in determining what types of alternative uses may be available for the millsite. DOE submitted several Monticello Fact Sheets and the 2004 annual inspection trip report for the Monticello Mill

Tailings Site (MMTS) and Monticello Vicinity Properties to Ms. Janet Ross of the Four Corners School for her use in determining how to proceed with the potential reuse of the former MMTS.

DOE submitted Chapter 5, Project Schedules and Milestones, of the Monticello Site Management Plan to the EPA and UDEQ on February 4.

DOE submitted the final *2004 Revegetation Monitoring of the Monticello, Utah, Repository Cover* report to EPA and UDEQ on February 16.

Rain combined with snowmelt caused high runoff in Montezuma Creek during the week of January 10. An inspection of Montezuma Creek did not show evidence of erosion damage to any of the supplemental standards areas.

DOE submitted the Monticello Federal Facility Agreement report for November and December 2004 to EPA and UDEQ on January 13, 2005.

Onsite contractor personnel, Joe Slade and Todd Moon, successfully completed the eight-hour Hazardous Waste Site Operations refresher training course.

The MMTS/MVP Information Repository was updated on January 24, and a new index was completed. The Administrative Records for both of the Monticello Projects (MMTS/MVP and Operable Unit III) are considered complete and will not be added to, with the exception of possible ROD amendments or document omissions, if identified.

SCHEDULE/EXPECTATIONS

See attached document submittal table for projected submittal dates.

NEW ISSUES/RESOLUTIONS

No new issues.

MONTICELLO SURFACE- AND GROUND-WATER PROJECT (MSG)

STATUS

EPA, UDEQ, and DOE agreed that the *Monticello Administrative Manual* and *Long-Term Surveillance and Maintenance Operating Procedures* will not be combined into a single manual. Instead, the *Monticello LTSM Operating Procedures for Surface and Ground Water* will be written to address Operable Unit III requirements. A draft of this manual will be delivered to EPA and UDEQ by April 14, 2005. The draft-final version will be completed by August 12, 2005.

A Program Directive for conducting wildlife surveys at the Monticello wetland areas has been completed and the initial survey is scheduled for April 19-20, 2005. Input to the Program Directive was obtained from the Biological Technical Assistance Group, which includes members from the U.S. Fish and Wildlife Service, the Utah Department of Environmental Quality, and the Environmental Protection Agency. The surveys will target avian species that will likely use the wetland habitat. There is concern that selenium concentrations in the surface water and sediment could potentially bioaccumulate and affect avian species nesting in or using the wetlands.

A draft copy of the *Macroinvertebrate Sampling and Analysis Plan* has been completed and is in review by DOE prior to being distributed to the Biological Technical Assistance Group for final comments.

SCHEDULE/EXPECTATIONS

See attached document submittal table for projected submittal dates.

NEW ISSUES/RESOLUTIONS

No new issues.

MONTICELLO VICINITY PROPERTIES (MVP)
SITE ACTIVITIES

STATUS

No significant issues to report.

SCHEDULE/EXPECTATIONS

Not established.

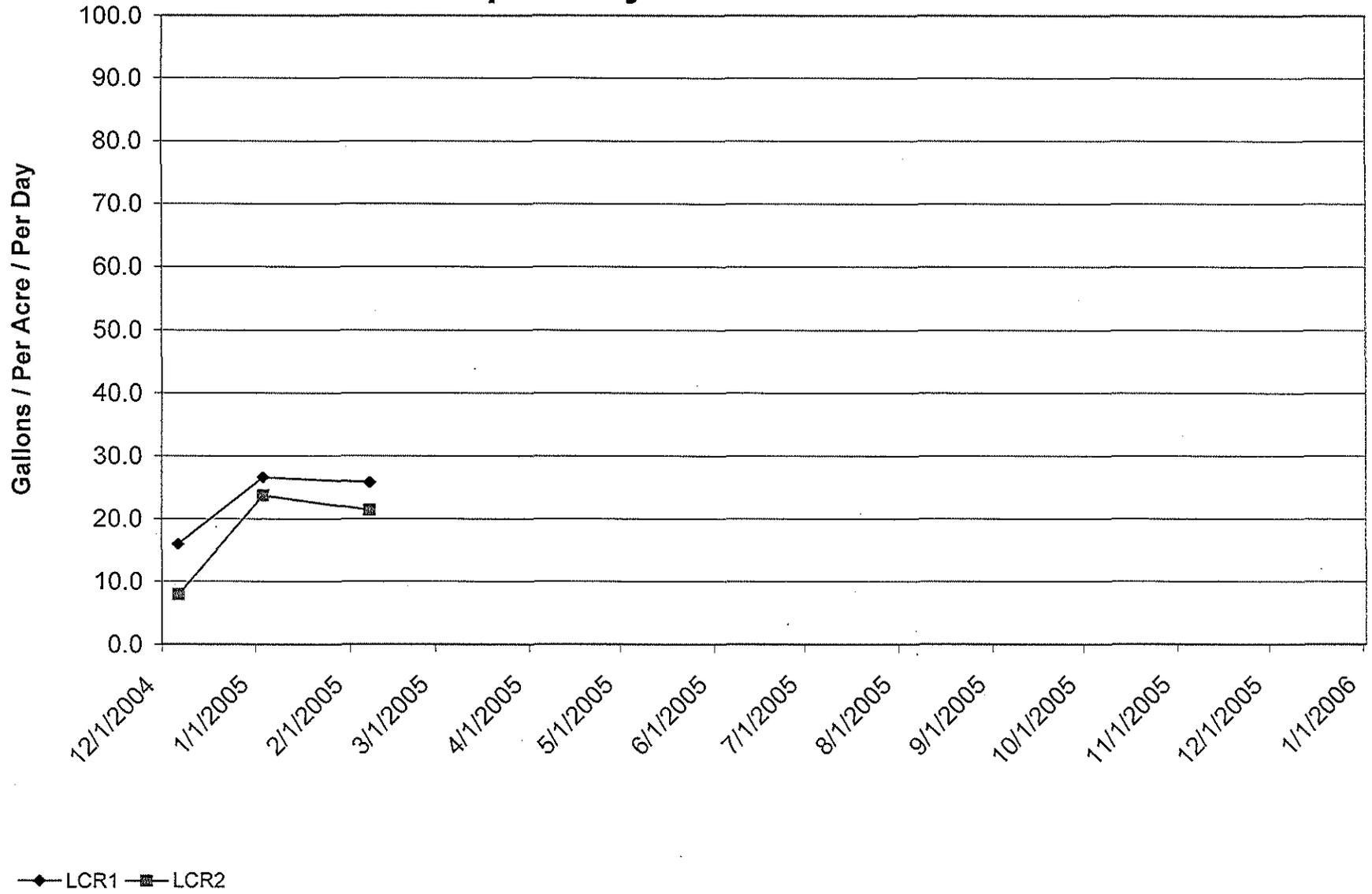
NEW ISSUES/RESOLUTIONS

No new issues.

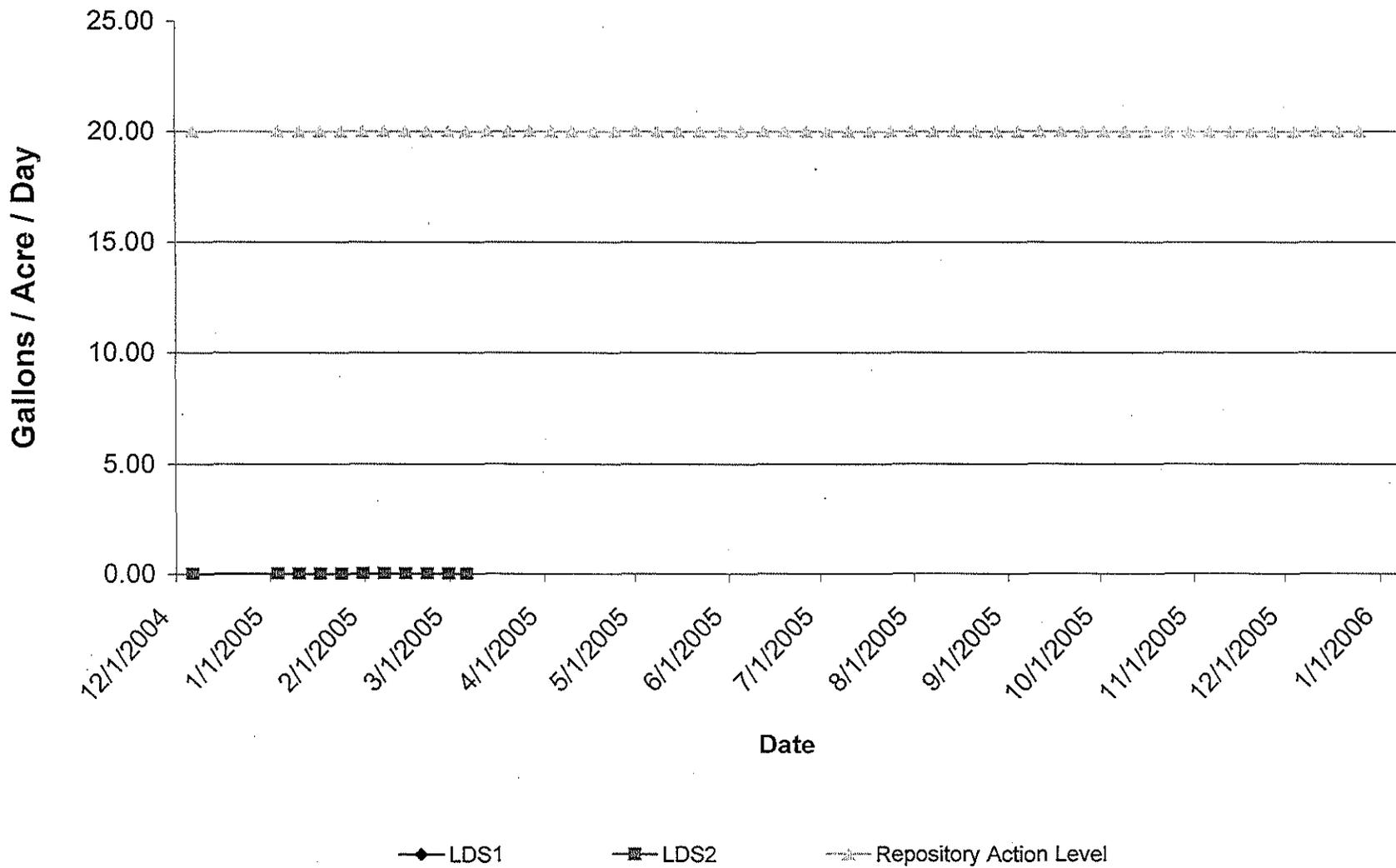
OPERABLE UNITS I, II and III
Projected Deliverables to Regulatory Agencies
April through May 2005

Op. Unit or Site	Deliverable	Projected Submittal/ Resubmittal	Regulator Input or Concurrence Needed (Yes / No)	Status/Progress/Comments as of: <u>February 28, 2005</u>
OUI, II, & III	<ul style="list-style-type: none"> Final 2004 Annual Inspection Report 	3/18/05	No	
OU III	<ul style="list-style-type: none"> Program directive for wildlife survey Obtain subcontractor for wildlife survey Conduct first survey 	01/15/05 02/15/05 4/19/05	Yes No No	Complete Complete
OU III	<ul style="list-style-type: none"> Program directive for macroinvertebrate sampling 	02/01/05	Yes	Draft to BTAG for review; comments requested by 3/21/05
OU III	<ul style="list-style-type: none"> Monticello LTSM Operating Procedures for Surface and Ground Water – Draft 	04/14/05	Yes	
OU III	<ul style="list-style-type: none"> Conduct Surface and Ground Water Sampling 	4/04/05	No	
OU III	<ul style="list-style-type: none"> Conduct Co-located Surface Water and Sediment Sampling 	4/04/05	No	
OU III	<ul style="list-style-type: none"> Deploy Hester-Dendy macroinvertebrate samplers Collect macroinvertebrate samples 	4/04/05 5/31/05	No No	

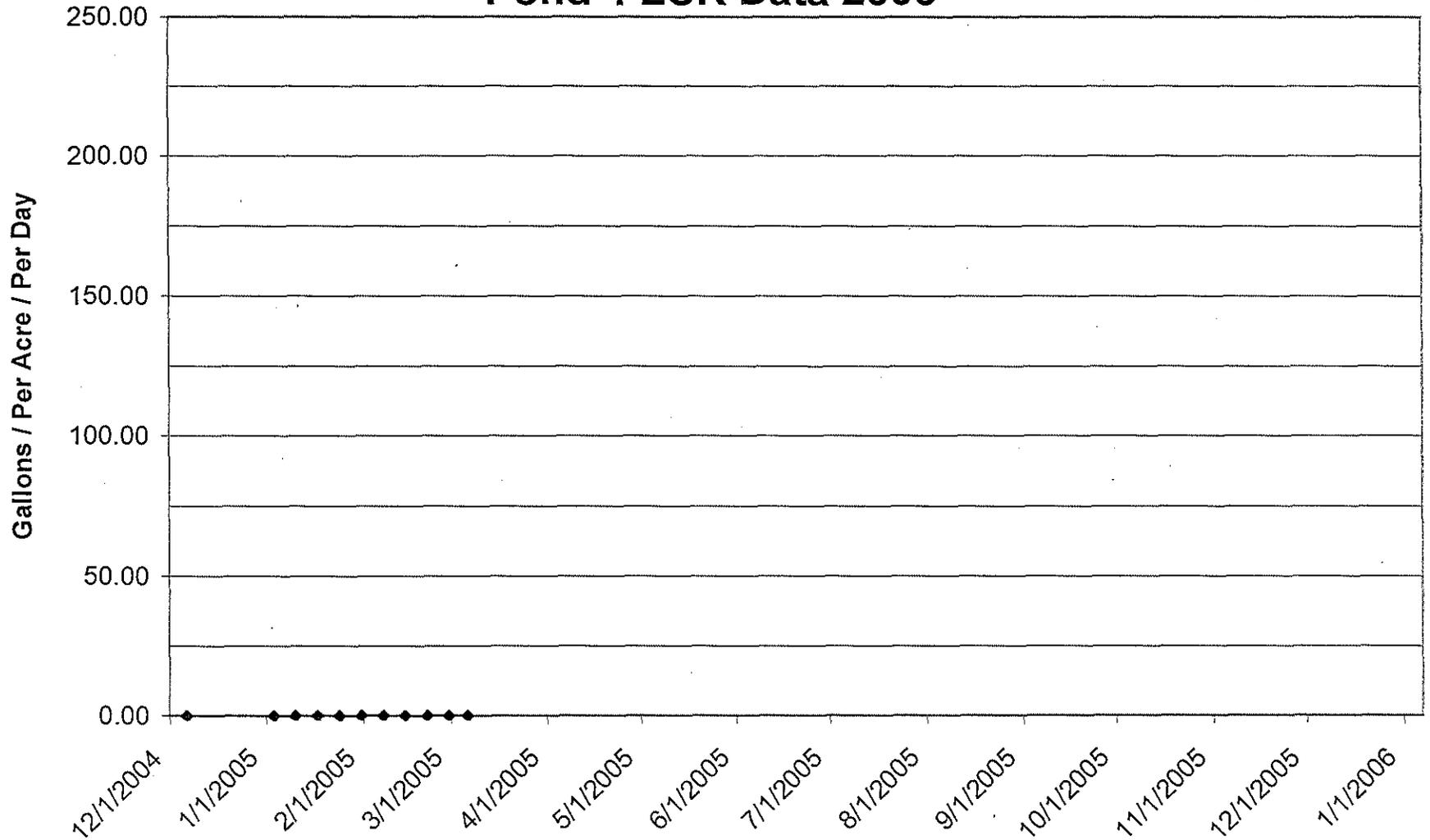
Repository LCR Data 2005



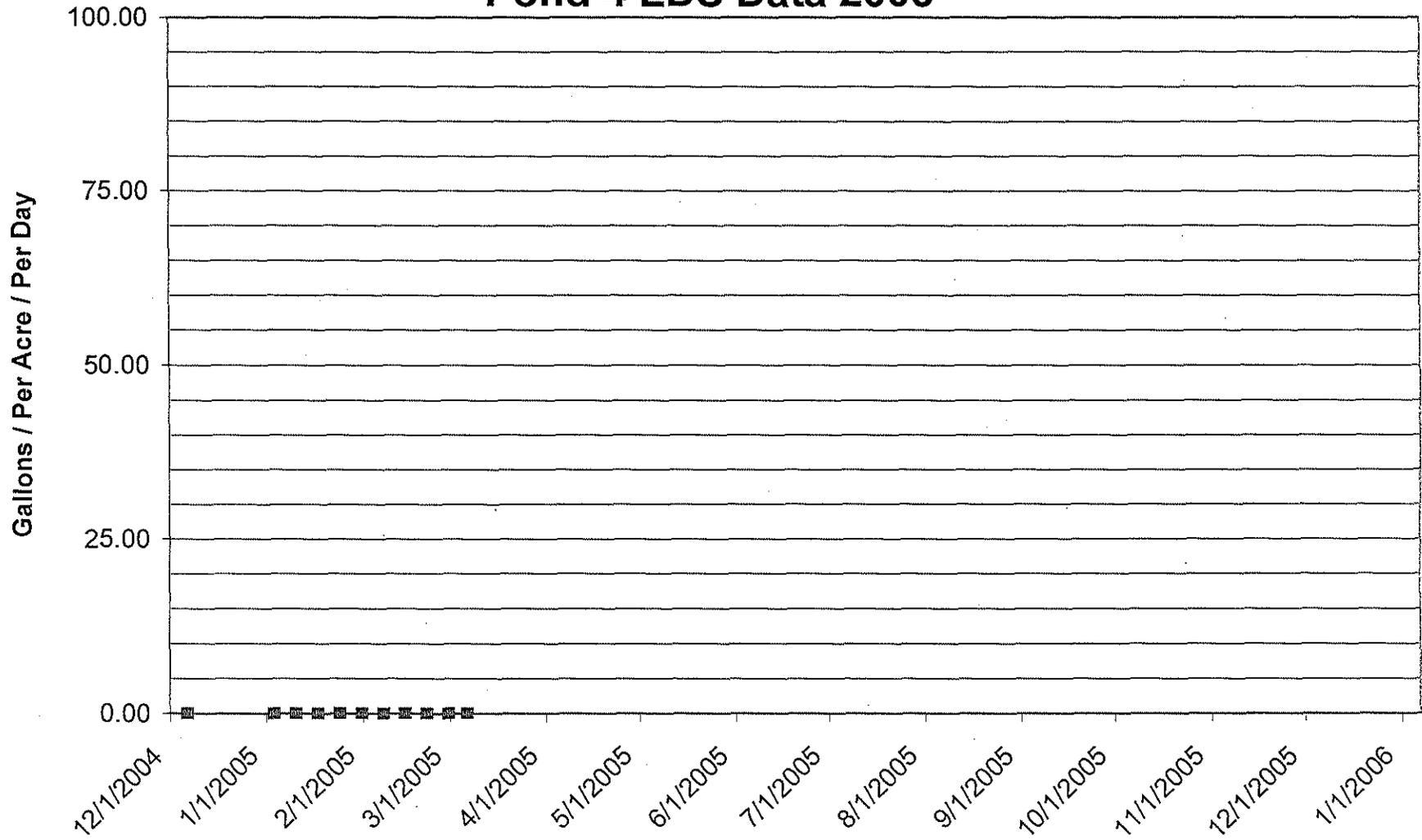
Repository LDS Data 2005



Pond 4 LCR Data 2005



Pond 4 LDS Data 2005



Total Gallons Pumped from LCR1 as Measured by Flowmeter Monthly Basis

Month Begin	Total for Month	Average Per Day	Gallons Per Acre Per Day	DA YS	Comments
12/6/2004	5587	159.6	16.0	35	
1/3/2005	9324	266.4	26.6	35	
2/7/2005	7230	258.2	25.8	28	
3/6/2005		0.0	0.0	28	
4/4/2005		0.0	0.0	28	
5/2/2005		0.0	0.0	28	
6/6/2005		0.0	0.0	35	
7/4/2005		0.0	0.0	28	
8/1/2005		0.0	0.0	28	
9/5/2005		0.0	0.0	35	
10/3/2005		0.0	0.0	28	
11/7/2005		0.0	0.0	28	
12/5/2005		0.0	0.0	28	
1/2/2006		0.0	0.0	28	
Total	16554				

Total Gallons Pumped from LCR2 as Measured by Flowmeter Monthly Basis

Month Begin	Total for Month	Average Per Day	Gallons Per Acre Per Day	DA YS	Comments
12/6/2004	2757	78.8	7.9	35	
1/3/2005	8281	236.6	23.7	35	
2/7/2005	5989	213.9	21.4	28	
3/6/2005		0.0	0.0	28	
4/4/2005		0.0	0.0	28	
5/2/2005		0.0	0.0	28	
6/6/2005		0.0	0.0	35	
7/4/2005		0.0	0.0	28	
8/1/2005		0.0	0.0	28	
9/5/2005		0.0	0.0	35	
10/3/2005		0.0	0.0	28	
11/7/2005		0.0	0.0	28	
12/5/2005		0.0	0.0	28	
1/2/2006		0.0	0.0	28	
Total	14270				

Total Gallons Pumped from Pond 4 LDS Sump

Month Begin	Total for Month	Average Per Day	Gallons Per Acre Per Day	DA YS	Comments
12/6/2004	0	0.0	0.0	35	Level is monitored
1/3/2005	0	0.0	0.0	35	Level is monitored
2/7/2005	0	0.0	0.0	28	Level is monitored
3/6/2005		0.0	0.0	28	
4/4/2005		0.0	0.0	28	
5/2/2005		0.0	0.0	28	
6/6/2005		0.0	0.0	35	
7/4/2005		0.0	0.0	28	
8/1/2005		0.0	0.0	28	
9/5/2005		0.0	0.0	35	
10/3/2005		0.0	0.0	28	
11/7/2005		0.0	0.0	28	
12/5/2005		0.0	0.0	28	
1/2/2006		0.0	0.0	28	
Total	0				

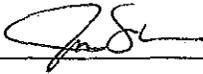
Pond4 LDS

Weekly Basis			Pond 4 Evaporation Pond Elevation	
Week Begin	Level Measure	Gallons Per Day	Level Measurement	Feet Above 6938.0
12/27/2004	1.47	0.00	6939.80	1.80
1/3/2005	0.33		6938.10	0.10
1/10/2005	0.36		6938.10	0.10
1/17/2005	0.34		6938.10	0.10
1/24/2005	0.33		6938.10	0.10
1/31/2005	0.34		6938.10	0.10
2/7/2005	0.35		6938.10	0.10
2/14/2005	1.05		6941.20	3.20
2/21/2005	1.06		6941.44	3.44
2/28/2005	1.05		6941.45	3.45
3/6/2005	1.06		6941.40	3.40
3/13/2005	0.00		0.00	-6938.00
3/20/2005	0.00		0.00	-6938.00
3/27/2005	0.00		0.00	-6938.00
4/3/2005	0.00		0.00	-6938.00
4/10/2005	0.00		0.00	-6938.00
4/17/2005	0.00		0.00	-6938.00
4/24/2005	0.00		0.00	-6938.00
5/1/2005	0.00		0.00	-6938.00
5/8/2005	0.00		0.00	-6938.00
5/15/2005	0.00		0.00	-6938.00
5/22/2005	0.00		0.00	-6938.00
5/29/2005	0.00		0.00	-6938.00
6/5/2005	0.00		0.00	-6938.00
6/12/2005	0.00		0.00	-6938.00
6/19/2005	0.00		0.00	-6938.00
6/26/2005	0.00		0.00	-6938.00
7/3/2005	0.00		0.00	-6938.00
7/10/2005	0.00		0.00	-6938.00
7/17/2005	0.00		0.00	-6938.00
7/24/2005	0.00		0.00	-6938.00
7/31/2005	0.00		0.00	-6938.00
8/7/2005	0.00		0.00	-6938.00
8/14/2005	0.00		0.00	-6938.00
8/21/2005	0.00		0.00	-6938.00
8/28/2005	0.00		0.00	-6938.00
9/4/2005	0.00		0.00	-6938.00
9/11/2005	0.00		0.00	-6938.00
9/18/2005	0.00		0.00	-6938.00
9/25/2005	0.00		0.00	-6938.00
10/2/2005	0.00		0.00	-6938.00
10/9/2005	0.00		0.00	-6938.00
10/16/2005	0.00		0.00	-6938.00
10/23/2005	0.00		0.00	-6938.00
10/30/2005	0.00		0.00	-6938.00
11/6/2005	0.00		0.00	-6938.00
11/13/2005	0.00		0.00	-6938.00
11/20/2005	0.00		0.00	-6938.00
11/27/2005	0.00		0.00	-6938.00
12/4/2005	0.00		0.00	-6938.00
12/11/2005	0.00		0.00	-6938.00
12/18/2005	0.00		0.00	-6938.00
12/25/2005	0.00		0.00	-6938.00
1/1/2006	0.00		0.00	-6938.00

Total Gallons Pumped from Pond4 LCR as Measured by Flowmeter Weekly Basis

Week Begin	Total for Week	Average Per Day	Gallons Per Acre Per Day	Number of Days	Comments
12/6/2004	0				
1/3/2005	0				
1/10/2005	0				
1/17/2005	0				
1/24/2005	0				
1/31/2005	0				
2/7/2005	0				
2/14/2005	0				
2/21/2005	0				
2/28/2005	0				
3/6/2005	0				
3/13/2005					
3/20/2005					
3/27/2005					
4/3/2005					
4/10/2005					
4/17/2005					
4/24/2005					
5/1/2005					
5/8/2005					
5/15/2005					
5/22/2005					
5/29/2005					
6/5/2005					
6/12/2005					
6/19/2005					
6/26/2005					
7/3/2005					
7/10/2005					
7/17/2005					
7/24/2005					
7/31/2005					
8/7/2005					
8/14/2005					
8/21/2005					
8/28/2005					
9/4/2005					
9/11/2005					
9/18/2005					
9/25/2005					
10/2/2005					
10/9/2005					
10/16/2005					
10/23/2005					
10/30/2005					
11/6/2005					
11/13/2005					
11/20/2005					
11/27/2005					
12/4/2005					
12/11/2005					
12/18/2005					
12/25/2005					
1/1/2006					

Monthly Pond 4 Surveillance Checklist

Monticello LTSM Representative JOE SLADE  Date 1-7-2005

Level of Water in Pond 4 approx 2 - 2 1/2 ft (there is a snow cover on the pond at this time)

Inspection Item	Acceptable (Yes/No)	Comments & Recommendation
<u>Condition of:</u>		
Fence	<u>YES</u>	
Roads	<u>YES</u>	
Signs	<u>YES</u>	
Visible Piping	<u>YES</u>	
Visible Liner	<u>YES</u>	
Life Saver Station	<u>YES</u>	
<u>Evidence of erosion of:</u>		
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>	
<u>Evidence of:</u>		
Vandalism	<u>NO</u>	
Intrusion by wildlife	<u>NO</u>	
Intrusion by humans	<u>NO</u>	
Accumulation of trash	<u>NO</u>	

Additional Comments:
December time has brought us a great snow cover. It also hasn't been too cold this past month.

Monthly Repository Surveillance Checklist

Monticello LTSM Representative JOE SLADE Date 1-7-2005

Meteorological Data for the period beginning See weather data logs ending _____

Average wind speed _____ Prevailing wind direction _____

Average temperature _____ High Temperature _____ Low Temperature _____

Current barometric pressure _____

Total precipitation _____ Inches of Precipitation in last 24 hours _____

Inspection Item	Acceptable (Yes/No)	Comments and Recommendations
<u>Condition of:</u>		
Fence	<u>Yes</u>	_____
Roads	<u>Yes</u>	_____
Signs	<u>Yes</u>	_____
Site Marker	<u>Yes</u>	_____
Drainage ditches	<u>Yes</u>	_____
Manholes	<u>Yes</u>	_____
Settlement Plates	<u>Yes</u>	_____
Vegetation	<u>Yes</u>	_____
<u>Evidence of erosion of:</u>		
Top of Repository	<u>No</u>	_____
Repository Sideslopes	<u>No</u>	_____
Ditches	<u>No</u>	_____
Surrounding area	<u>No</u>	_____
<u>Evidence of:</u>		
Vandalism	<u>No</u>	_____
Intrusion by wildlife	<u>No</u>	_____
Burrowing Animal Damage	<u>No</u>	_____
Intrusion by humans	<u>No</u>	_____
Accumulation of trash	<u>No</u>	_____

Additional Comments

December weather has brought a cover on the cell that is really wet and has us looking forward to the spring to see things really start to grow. the wet snow has not started water running at this time and it looks as if the moisture is being absorbed into the soil when it does melt.

Monthly Repository Surveillance Checklist

Monticello LTSM Representative JOE SLADE  Date 2-1-2005

Meteorological Data for the period beginning See Weather Data Log ending _____

Average wind speed _____ Prevailing wind direction _____

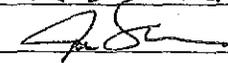
Average temperature _____ High Temperature _____ Low Temperature _____

Current barometric pressure _____

Total precipitation _____ Inches of Precipitation in last 24 hours _____

Inspection Item	Acceptable (Yes/No)	Comments and Recommendations
<u>Condition of:</u>		
Fence	<u>yes</u>	_____
Roads	<u>yes</u>	_____
Signs	<u>yes</u>	_____
Site Marker	<u>yes</u>	_____
Drainage ditches	<u>yes</u>	_____
Manholes	<u>yes</u>	_____
Settlement Plates	<u>yes</u>	_____
Vegetation	<u>yes</u>	_____
<u>Evidence of erosion of:</u>		
Top of Repository	<u>NO</u>	_____
Repository Sideslopes	<u>NO</u>	_____
Ditches	<u>NO</u>	_____
Surrounding area	<u>NO</u>	_____
<u>Evidence of:</u>		
Vandalism	<u>NO</u>	_____
Intrusion by wildlife	<u>NO</u>	_____
Burrowing Animal Damage	<u>NO</u>	_____
Intrusion by humans	<u>NO</u>	_____
Accumulation of trash	<u>NO</u>	_____

Additional Comments

Both manhole #1 & #3 have water coming into them and we have pumped this water into the drain system using the sump pumps. At manhole #3 the water was coming in thru the electrical conduit. Winter storms have given us more moisture than we have seen for maybe 3/4 yrs - our water average for SE Utah is at 150% right now. When the snow melts we can then check for settling and drainage problems - 

Monthly Pond 4 Surveillance Checklist

Monticello LTSM Representative

JOE SCARDE

Date 2-1-2005

Level of Water in Pond 4 aprox 3 1/2 x 4 ft

Inspection Item	Acceptable (Yes/No)	Comments & Recommendation
<u>Condition of:</u>		
Fence	<u>yes</u>	
Roads	<u>yes</u>	
Signs	<u>yes</u>	
Visible Piping	<u>yes</u>	
Visible Liner	<u>yes</u>	
Life Saver Station	<u>yes</u>	
<u>Evidence of erosion of:</u>		
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>	
<u>Evidence of:</u>		
Vandalism	<u>NO</u>	
Intrusion by wildlife	<u>NO</u>	
Intrusion by humans	<u>NO</u>	
Accumulation of trash	<u>NO</u>	

Additional Comments

water has accumulated from the winter storms - water coming out of the cell is still not very much. when the weather warms we will re-set the measuring system and check the sumps. Winter storms have us at a 150% of Normal water year at this time

Joe Scarde