JA CESARE AND ASSOCIATES, INC.
Geotechnical Engineering Consultants

MONITORING REPORT
Lake Las Vegas Dam
January 1, 2000 to December 31, 2000
Lake Las Vegas Resort Project
Henderson, Clark County, Nevada

Project No. 01.047

Report Prepared for

Lake at Las Vegas Joint Venture
1605 Lake Las Vegas Parkway
Henderson, Nevada 89011

PROFESSIONAL ENGINEER-STATE OF NEVADA
SCOTT M. HEINY
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4-5-01

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Project Manager

Aaron C. Hastings, P.E.
Regional Manager

April 5, 2001

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NATURAL EVENTS 2000

During year 2000, two major storm events and several minor storm events were recorded on at the Lake Las Vegas Project. During the minor storm events, the Las Vegas Wash continued to be diverted beneath Lake Las Vegas reservoir through the bypass system.

The two major storm events occurred on February 21 and February 23, 2000. In both flood events storm water runoff flowed into Lake Las Vegas from the Las Vegas Wash. As a result of these flood events approximately 2,455 acre-feet and 2,700 acre-feet of water was discharged from the lake. The majority of this discharge was passed through the rubber dam bladder on the auxiliary spillway, however both the service spillway and the Howell Bunger valve discharged storm water.

MONITORING FEATURES

Features incorporated in the Lake Las Vegas dam to monitor performance of the embankment and appurtenant structures include piezometers, embankment measuring points, and seepage terminals. These monitoring features are described below.

1) Piezometers - The piezometers consist of eleven standpipes with porous tube points sealed at various levels within the dam and dam foundation. The eleven piezometers are located so five piezometers provide foundation pore pressure data and six piezometers provide embankment pore pressure data.

2) Embankment Measurement Points - Eight embankment measurement points are located on the upstream and downstream edges of the dam crest at approximate Stations 20+00, 25+00, 30+00 and 37+00. Measurement points are surveyed to obtain data on horizontal and vertical movements of the dam embankment.

3) Seepage Terminals – Seepage from the dam is measured at a concrete toe drain terminal structure located at the downstream toe of the dam. Seepage from dam is collected by two drain pipes installed in the toe of the dam. Seepage is also measured from seepage terminals at the control structure south wing wall and the service spillway flip bucket.

JA CESARE AND ASSOCIATES, INC.
Geotechnical Engineering Consultants

MONITORING REPORT
Lake Las Vegas Dam
January 1, 2001 to December 31, 2001
Lake Las Vegas Resort Development Project
Henderson, Clark County, Nevada

Project No. 02.011
April 5, 2002

Prepared for:

Mr. David Laman
Lake at Las Vegas Joint Venture
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Prepared by:

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John J. Durkin, Jr., P.E.
Senior Engineer
JOSEPH A. CESARE AND ASSOCIATES, INC.

2001 STORM EVENTS

In 2001, one major storm event and several minor storm events were recorded on at the Lake Las Vegas Project. During the minor storm events, the Las Vegas Wash continued to be diverted beneath Lake Las Vegas reservoir through the bypass system.

The major storm event occurred on February 26 and February 27, 2001. In this event, storm water runoff flowed into Lake Las Vegas from the Las Vegas Wash. As a result of this storm approximately 1927 acre-feet flowed into the lake and 1644 acre-feet was discharged from the lake. Approximately 748 acre-feet was discharged through the Howell-Bunger valve in the dam outlet works, 830 acre-feet passed through the rubber dam bladder on the auxiliary spillway and approximately 66 acre-feet discharged over the service spillway. The Lake Las Vegas reservoir recovered approximately 283 acre-feet of water from that storm.

MONITORING FEATURES

Features incorporated in the Lake Las Vegas dam to monitor performance of the embankment and appurtenant structures include piezometers, embankment measuring points, and a seepage terminal. These monitoring features are described below.

1) Piezometers - The piezometers consist of eleven standpipes with porous tube points sealed at various levels within the dam and dam foundation. The eleven piezometers are located so five piezometers provide foundation pore pressure data and six piezometers provide embankment pore pressure data.

2) Embankment Measurement Points - Eight embankment measurement points are located on the upstream and downstream edges of the dam crest at approximate Stations 20+00, 25+00, 30+00 and 37+00. Measurement points are surveyed to obtain data on horizontal and vertical movements of the dam embankment.

3) Seepage Terminals – Seepage from the dam is measured at a concrete toe drain terminal structure located at the downstream toe of the dam. Seepage from dam is collected by two drainpipes installed in the toe of the dam.

JA CESARE AND ASSOCIATES, INC
Geotechnical Engineering Consultants

MONITORING REPORT
Lake Las Vegas Dam
January 1, 2002 to December 31, 2002
Lake Las Vegas Resort
Henderson, Nevada

Project No. 03.020

Prepared for:

Mr. Steven Weber
Lake at Las Vegas Joint Venture
1605 Lake Las Vegas Parkway
Henderson, Nevada 89011

Prepared by:

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EXP. 12-31-04
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3-21-03

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Senior Engineer

March 21, 2003

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MONITORING SCHEDULE

Visual observations and measurements on the dam and appurtenant structures are scheduled to be performed monthly by Premier Residential Services personnel. Horizontal and vertical movements of the embankment measurement points are scheduled to be measured by surveyors on a yearly basis. Visual observation of the dam, reservoir rim and appurtenant structures are made at the end of the yearly monitoring period by JAC representatives.

2002 STORM EVENTS

In 2002, there were minor storm events recorded in the Las Vegas Valley and on the Lake Las Vegas Project. During the storm events, the Las Vegas Wash continued to be diverted beneath Lake Las Vegas reservoir through the bypass system. There were no major storm events in 2002 and no inflow from the Las Vegas Wash or outflow from the Lake Las Vegas reservoir due to storm water runoff.

MONITORING FEATURES

Features incorporated in the Lake Las Vegas dam to monitor performance of the embankment and appurtenant structures include piezometers, embankment measuring points, and a seepage terminal. These monitoring features are described below.

1) Piezometers - The piezometers consist of eleven standpipes with porous tube points sealed at various levels within the dam and dam foundation. The eleven piezometers are located so five piezometers provide foundation pore pressure data and six piezometers provide embankment pore pressure data.

2) Embankment Measurement Points - Eight embankment measurement points are located on the upstream and downstream edges of the dam crest at approximate Stations 20+00, 25+00, 30+00 and 37+00. Measurement points are surveyed to obtain data on horizontal and vertical movements of the dam embankment.

3) Seepage Terminals – Seepage from the dam is measured at a concrete toe drain terminal structure located at the downstream toe of the dam. Seepage from the dam is collected by two drainpipes installed in the toe of the dam.

JA CESARE
AND ASSOCIATES, INC.
Geotechnical Engineering Consultants

2003 MONITORING REPORT
Lake Las Vegas Dam
January 1, 2003 to December 31, 2003
Lake Las Vegas Resort
Henderson, Nevada

Project No. 04.1023

Prepared for:

Mr. Steven Weber
Lake at Las Vegas Joint Venture
1605 Lake Las Vegas Parkway
Henderson, Nevada 89011

Prepared by:

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EXP. 12-31-04
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No. 9708

03-19-04

Jason B. Dineen, E.I.
Project Manager

John J. Durkin, Jr., P.E.
Senior Engineer

March 19, 2004

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Horizontal and vertical movements of the embankment measurement points are scheduled to be measured by surveyors on a yearly basis. Visual observation of the dam, reservoir rim and appurtenant structures are made at the end of the yearly monitoring period by JAC representatives.

2003 STORM EVENTS

In 2003, there were seven storm events recorded in the Las Vegas Valley that impacted the Lake Las Vegas Project. During the storm events, the Las Vegas Wash continued to be diverted beneath Lake Las Vegas reservoir through the bypass system though some storm water flowed into the Lake Las Vegas Reservoir. The inflow and outflow statistics from the seven storm events that caused increased flow rates in the Las Vegas Wash are summarized in the following table:

Table A. 2003 Storm Event Impact Analysis

Date of Rainfall Event	Inflow from Las Vegas Wash into Lake Las Vegas Reservoir (Acre-Feet)	Outflow from Lake Las Vegas Reservoir to Las Vegas Wash (Acre-Feet)	Net Quantity of Water Retained in Lake Las Vegas Reservoir (Acre-Feet)
2/26/03	625	0	625
2/28/03	387	36	351
7/31/03	154	36	118
8/17/03	216	0	216
8/19/03	358	77	281
11/13/03	216	0	216
12/26/03	218	0	218
TOTAL	**2174**	**149**	**2025**

The Lake Las Vegas Reservoir received approximately 2175 acre-feet of storm water in 2003. Approximately 149 acre-feet of water was released and approximately 2025 acre-feet of storm water was retained in the reservoir.

MONITORING FEATURES

Features incorporated in the Lake Las Vegas dam to monitor performance of the embankment and appurtenant structures include piezometers, embankment measuring points, and a seepage terminal. These monitoring features are described below.

1) Piezometers - The piezometers consist of eleven standpipes with porous tube points sealed at various levels within the dam and dam foundation. The eleven piezometers are located so five piezometers provide foundation pore pressure data and six piezometers provide embankment pore pressure data.

2) Embankment Measurement Points - Eight embankment measurement points are located on the upstream and downstream edges of the dam crest at approximate Stations 20+00, 25+00, 30+00 and 37+00. Measurement points are surveyed to obtain data on horizontal and vertical movements of the dam embankment.

3) Seepage Terminals – Seepage from the dam is measured at a concrete toe drain terminal structure located at the downstream toe of the dam. Seepage from the dam is collected by two drainpipes installed in the toe of the dam.

OBSERVATION AND MEASUREMENT SUMMARY

Lake Levels

The Lake Las Vegas reservoir operated with lake surface elevations between 1401.86 feet and 1405.64 feet in 2003. Lake surface elevations, recorded each month by PRS personnel are shown in Table 3.

The reservoir is periodically filled with raw water from Lake Mead that is transported to the Lake Las Vegas reservoir by a pipeline that is operated by Basic Management, Inc. Lake Las Vegas and Basic Management personnel control the raw water flow into the reservoir.

JACESARE
AND ASSOCIATES, INC.
Geotechnical Engineering Consultants

2004 MONITORING REPORT

Lake Las Vegas Dam
January 1, 2004 to December 31, 2004
Lake Las Vegas Resort
Henderson, Nevada

Project No. 05.1015

Prepared for:

Mr. Steven Weber
Lake at Las Vegas Joint Venture
1605 Lake Las Vegas Parkway
Henderson, Nevada 89011

PROFESSIONAL ENGINEER-STATE OF NEVADA
JOHN J. DURKIN, JR.
EXP. 12-31-06
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No. 9708

05-25-05

John J. Durkin, Jr., P.E.
Principal Engineer

May 25, 2005

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Horizontal and vertical movements of the embankment measurement points are scheduled to be measured by surveyors on a yearly basis. Visual observation of the dam, reservoir rim and appurtenant structures are made at the end of the yearly monitoring period by JAC representatives.

2004 STORM EVENTS

In 2004, there were six significant storm events recorded in the Las Vegas Valley that impacted the Lake Las Vegas Project. During the storm events, the Las Vegas Wash continued to be diverted beneath Lake Las Vegas reservoir through the bypass system though some storm water flowed into the Lake Las Vegas Reservoir. The inflow and outflow statistics from the six storm events that caused increased flow rates in the Las Vegas Wash are summarized in the following table:

Table A. 2004 Storm Event Impact Analysis

Date of Rainfall Event	Inflow from Las Vegas Wash into Lake Las Vegas Reservoir (Acre-Feet)	Outflow from Lake Las Vegas Reservoir to Las Vegas Wash (Acre-Feet)	Net Quantity of Water Retained in Lake Las Vegas Reservoir (Acre-Feet)
4-3-04	255	0	255
8-16-04	307	0	307
9-9-04	31	0	31
10-20-04	58	0	58
11-21-04	1,378	835	543
12-29-04	9,398	9,526	-128
TOTAL	**11,427**	**10,361**	**1,066**

The Lake Las Vegas Reservoir received approximately 11,427 acre-feet of storm water and approximately 10,361 acre-feet of water was released in 2004. Based on the change in lake level and the inlet and outlet ratings, approximately 1,066 acre-feet of storm water was retained in the reservoir.

MONITORING FEATURES

Features incorporated in the Lake Las Vegas dam to monitor performance of the embankment and appurtenant structures include piezometers, embankment measuring points, and a seepage terminal. These monitoring features are described below.

1) Piezometers - The piezometers consist of eleven standpipes with porous tube points sealed at various levels within the dam and dam foundation. The eleven piezometers are located so five piezometers provide foundation pore pressure data and six piezometers provide embankment pore pressure data.

2) Embankment Measurement Points - Eight embankment measurement points are located on the upstream and downstream edges of the dam crest at approximate Stations 20+00, 25+00, 30+00 and 37+00. Measurement points are surveyed to obtain data on horizontal and vertical movements of the dam embankment.

3) Seepage Terminals – Seepage from the dam is measured at a concrete toe drain terminal structure located at the downstream toe of the dam. Seepage from the dam is collected by two drainpipes installed in the toe of the dam.

OBSERVATION AND MEASUREMENT SUMMARY

Lake Levels

The Lake Las Vegas reservoir operated with lake surface elevations between 1402.28 feet and 1405.98 feet in 2004. Lake surface elevations, recorded each month by PRS personnel, are shown in Table 3.

The reservoir periodically receives raw water from Lake Mead and is transported to the Lake Las Vegas reservoir by a pipeline that is operated by Basic Management, Inc. Lake Las Vegas and Basic Management personnel control the raw water flow into the reservoir.

JACESARE
AND ASSOCIATES, INC.
Geotechnical Engineering Consultants

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2005 MONITORING REPORT

Lake Las Vegas Dam
January 1, 2005 to December 31, 2005
Lake Las Vegas Resort
Henderson, Nevada

Project No. 05.1015

Prepared for:

Mr. Steven Weber
Lake at Las Vegas Joint Venture
1605 Lake Las Vegas Parkway
Henderson, Nevada 89011

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JOHN J. DURKIN, JR.
EXP. 12-31-06
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5-25-06

John J. Durkin, Jr., P.E.
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May 25, 2006

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structures are made at the end of the yearly monitoring period by JAC representatives. An inspection of the dam, appurtenant structures and outlet works was also performed on March 1, 2006 with Robert K. Martinez, P.E., Chief, Engineering and Dam Safety for the State of Nevada Division of Water Resources.

2005 STORM EVENTS

In 2005, there were eleven (11) significant storm events recorded in the Las Vegas Valley that impacted the Lake Las Vegas Project. During the storm events, the Las Vegas Wash continued to be diverted beneath Lake Las Vegas reservoir through the bypass system though some storm water flowed into the Lake Las Vegas Reservoir. The inflow and outflow statistics from the eleven storm events that caused increased flow rates in the Las Vegas Wash are summarized in the following table:

Table A. 2005 Storm Event Impact Analysis

Date of Rainfall Event	Inflow from Las Vegas Wash into Lake Las Vegas Reservoir (Acre-Feet)	Outflow from Lake Las Vegas Reservoir to Las Vegas Wash (Acre-Feet)	Net Quantity of Water Retained in Lake Las Vegas Reservoir (Acre-Feet)
1-3-05 to 1-6-05	1,566	1,852	-286
1-7-05	124	0	124
1-11-05	253	0	253
1-26-05	95	0	95
1-29-05	159	0	159
2-11-05	1,037	1,005	32
2-18-05 to 2-23-05	5,070	4,656	414
3-23-05	50	18	32
7-24-05	709	0	709
7-28-05	31	0	31
10-18-05	4,377	3,461	916
TOTAL	**13,471**	**10,992**	**2,479**

The Lake Las Vegas Reservoir received approximately 13,471 acre-feet of storm water and approximately 10,992 acre-feet of water was released in 2005. Based on the change in lake level and the inlet and outlet ratings, approximately 2,479 acre-feet of storm water was retained in the reservoir.

MONITORING FEATURES

Features incorporated in the Lake Las Vegas dam to monitor performance of the embankment and appurtenant structures include piezometers, embankment measuring points, and a seepage measurement terminal. These monitoring features are described below.

1) Piezometers - The piezometers consist of eleven standpipes with porous tube points sealed at various levels within the dam and dam foundation. The eleven piezometers are located so five piezometers provide foundation pore pressure data and six piezometers provide embankment pore pressure data. The piezometer locations are shown in Figure 1. and cross sections are shown in Figures 2 and 3.

2) Embankment Measurement Points - Eight embankment measurement points are located on the upstream and downstream edges of the dam crest at approximate Stations 20+00, 25+00, 30+00 and 37+00. Measurement points are surveyed to obtain data on horizontal and vertical movements of the dam embankment. The measurement point locations are shown in Figure 1.

3) Seepage Measurement Terminal – Seepage from the dam is measured at a concrete toe drain terminal structure located at the downstream toe of the dam. Seepage from the dam is collected by two drainpipes installed along the toe of the dam. The toe drain terminal location is shown in Figure 1.

OBSERVATION AND MEASUREMENT SUMMARY

Lake Levels

The Lake Las Vegas reservoir operated with lake surface elevations between 1401.98 feet and 1405.96 feet in 2005. Lake surface elevations, recorded each month by LLVM personnel, are shown in Table 3.

JA CESARE
AND ASSOCIATES, INC.
Geotechnical Engineering Consultants

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2006 ANNUAL MONITORING REPORT

Lake Las Vegas, Henderson Dam
State of Nevada Division of Water of Resources
Permit No. J - 232
Henderson, Nevada

Project No. 06.1005

Prepared for:

Mr. Steven Weber
Lake Las Vegas Master Association
29 Grand Mediterra Boulevard
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4-24-07

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April 24, 2007

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surveyors on a yearly basis. Visual observation of the dam, reservoir rim and appurtenant structures are made at the end of the yearly monitoring period by JAC representatives. An inspection of the dam, appurtenant structures and outlet works was also performed on March 1, 2006 by JAC with Robert K. Martinez, P.E., Chief, Engineering and Dam Safety for the State of Nevada Division of Water Resources.

2006 STORM EVENTS

In 2006, there were two (2) significant storm events recorded in the Las Vegas Valley that impacted the Lake Las Vegas Project. During the storm events, the Las Vegas Wash continued to be diverted beneath the Lake Las Vegas reservoir through the bypass system though some storm water flowed into the Lake Las Vegas Reservoir. The inflow and outflow statistics from the two significant storm events that caused increased flow rates in the Las Vegas Wash are summarized in the following table:

Table A. 2006 Storm Event Impact Summary

Date of Rainfall Event	Inflow from Las Vegas Wash into Lake Las Vegas Reservoir (Acre-Feet)	Outflow from Lake Las Vegas Reservoir to Las Vegas Wash (Acre-Feet)	Net Quantity of Water Retained in Lake Las Vegas Reservoir (Acre-Feet)
10/6/06	31	0	31
10/14/06	1,643	1,045	598
TOTAL	**1,674**	**1,045**	**629**

The Lake Las Vegas Reservoir received approximately 1,674 acre-feet of storm water and approximately 1,045 acre-feet of water was released in 2006. Based on the change in lake level and the inlet and outlet ratings, approximately 629 acre-feet of storm water was retained in the reservoir during 2006.

JA CESARE
AND ASSOCIATES, INC.
Geotechnical Engineering Consultants

2007 ANNUAL MONITORING REPORT

Lake Las Vegas, Henderson Dam
State of Nevada Division of Water of Resources
Permit No. J - 232
Henderson, Nevada

Project No. 07.1005

Prepared for:

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Lake Las Vegas Marina, LLC
53 Strada Nathan
Henderson, Nevada 89011

Prepared by:

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4-4-08

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Principal Engineer

April 4, 2008

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surveyors on a yearly basis. Visual observation of the dam, reservoir rim and appurtenant structures are made at the end of the yearly monitoring period by JAC representatives. An inspection of the dam, appurtenant structures and outlet works was also performed on April 17, 2007 by Robert K. Martinez, P.E., Chief, Engineering and Dam Safety for the State of Nevada Division of Water Resources.

2007 STORM EVENTS

In 2007, there were four (4) significant storm events recorded in the Las Vegas Valley that impacted the Lake Las Vegas Project. During the storm events, the Las Vegas Wash continued to be diverted beneath the Lake Las Vegas reservoir through the bypass system though some storm water flowed into the Lake Las Vegas Reservoir. The inflow and outflow statistics from the four significant storm events that caused increased flow rates in the Las Vegas Wash are summarized in the following table:

Table A: 2007 Storm Event Impact Summary

Date of Rainfall Event	Inflow from Las Vegas Wash into Lake Las Vegas Reservoir (Acre-Feet)	Outflow from Lake Las Vegas Reservoir to Las Vegas Wash (Acre-Feet)	Net Quantity of Water Retained in Lake Las Vegas Reservoir (Acre-Feet)
08/27/07	1,274	576	698
09/22/07	513	0	513
09/28/07	135	392	-257
11/30/07	346	0	346
TOTAL	**2,268**	**968**	**1,300**

The Lake Las Vegas Reservoir received approximately 2,268 acre-feet of storm water and approximately 968 acre-feet of water was released in 2007. Based on the change in lake

level and the inlet and outlet ratings, approximately 1,300 acre-feet of storm water was retained in the reservoir during 2007.

MONITORING FEATURES

Features incorporated in the Lake Las Vegas dam to monitor performance of the embankment and appurtenant structures include piezometers, embankment measuring points, and a seepage measurement terminal. These monitoring features are described below.

1) Piezometers - The piezometers consist of eleven standpipes with porous tube points sealed at various levels within the dam and dam foundation. The eleven piezometers are located so five piezometers provide foundation pore pressure data and six piezometers provide embankment pore pressure data. The piezometer locations are shown in Figure 1. and cross sections are shown in Figures 2 and 3.

2) Embankment Measurement Points - Eight embankment measurement points are located on the upstream and downstream edges of the dam crest at approximate Stations 20+00, 25+00, 30+00 and 37+00. Measurement points are surveyed to obtain data on horizontal and vertical movements of the dam embankment. The embankment measurement point locations are shown in Figure 1.

3) Seepage Measurement Terminal – Seepage from the dam is measured at a concrete toe drain terminal structure located at the downstream toe of the dam approximate station 29+50. Seepage from the dam is collected by two perforated drainpipes installed along the toe of the dam. The toe drain terminal structure location is shown in Figure 1.

OBSERVATION AND MEASUREMENT SUMMARY

Lake Levels

The Lake Las Vegas reservoir operated with lake surface elevations between 1402.78 feet and 1405.30 feet in 2007. Lake surface elevations, recorded each month by LLVM personnel, are shown in Table 3.