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ENTERED



Environmental Protection & Compliance Division
Environmental Compliance Programs (EPC-CP)
PO Box 1663, K490
Los Alamos, New Mexico 87545
(505) 667-0666

National Nuclear Security Administration
Los Alamos Field Office, A316
3747 West Jemez Road
Los Alamos, New Mexico, 87544
(505) 606-0397/Fax (505) 284-7522

Date: APR 28 2016
Symbol: EPC-DO-16-101
LA-UR: 16-22641
Locates Action No.: N/A

Ms. Michelle Hunter, Chief
Ground Water Quality Bureau
New Mexico Environment Department
Harold Runnels Building, Room N2261
1190 St. Francis Drive
P.O. Box 26110
Santa Fe, NM 87502

Dear Ms. Hunter:

SUBJECT: Discharge Permit DP-857 Quarterly Report, First Quarter 2016, TA-46 Sanitary Wastewater Systems Plant

This letter and enclosures from the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) are the first quarter 2016 Discharge Permit DP-857 report for the Technical Area (TA)-46 Sanitary Wastewater Systems (SWWS) Plant. Quarterly reports are submitted to the New Mexico Environment Department (NMED), Ground Water Quality Bureau, in accordance with the reporting requirements of the January 7, 1998, renewal letter for Discharge Permit DP-857.

Table 1.0 provides water quality data from sampling conducted at the TA-46 SWWS Plant's reuse wet well and National Pollutant Discharge Elimination System (NPDES) Outfalls 001 and 03A027. No sample was collected from Cañada del Buey Observation Well (CDBO)-6 during the first quarter because there was insufficient water in the well. The water level at CDBO-6 is measured each quarter and a sample is collected whenever sufficient water is present. All sample results presented in Table 1.0 are less than the New Mexico Water Quality Control Commission Regulation 3103 standards for groundwater. Enclosure 1 presents copies of the GEL Laboratories LLC analytical reports.



The 4th quarter 2015 Discharge Permit DP-857 quarterly report (ENV-DO-16-014) submitted to NMED on January 28, 2016, reported abnormally high NO₃+NO₂-N values at the SWWS Plant reuse wet well and NPDES Outfall 001 from sampling conducted in November 2015. Repeat sampling conducted at these locations in January 2016 (See Table 1.0) confirmed the November 2015 results as analytical outliers. The January 2016 NO₃+NO₂-N results of 1.93 mg/L and 2.62 mg/L from the SWWS Plant reuse wet well and NPDES Outfall 001, respectively, are consistent with historical results from these locations.

Additionally, higher than normal Total Kjeldahl Nitrogen (TKN) concentrations of 6.5 mg/L and 4.7 mg/L were detected at NPDES Outfall 03A027 in November 2015 and January 2016. A confirmation sample collected on February 17, 2016, reported a concentration of 0.96 mg/L, consistent with the average TKN concentration from 2011 to 2016 of 1.9 mg/L (n=22).

Table 2.0 reports that the water level in CDBO-6 for the first quarter of 2016 was below the top of the pump (dry). Table 3.0 reports discharge volumes from the SWWS Plant's force main to TA-3, the Power Plant's NPDES Outfall 001, and the Super Computing Complex (SCC) NPDES Outfall 03A027. In addition, Table 3.0 reports the volume of SWWS Plant reuse water used by the SCC cooling towers during the first quarter of 2016.

Table 4.0 and Enclosure 2 present the results from monthly inspections of the leak collection ports at the five SERF evaporation basins located on Sigma Mesa for the first quarter of 2016. All leak collection ports were dry or contained de minimis amounts of water except for three basins: Northwest, Southeast, and the new 5th. Details on the status of these basins are provided below.

- **Northeast Basin.** In March 2015 DOE/LANS submitted to NMED a Corrective Action Plan (CAP) for a leak in the primary liner at the Northeast (NE) evaporation basin (ENV-DO-15-0081). The CAP identified the steps necessary to locate and repair the leak by September 1, 2015. On August 26, 2015, a contractor completed repairs to the NE evaporation basin's primary liner. The basin was returned to service but it was immediately evident that the repairs were not successful.

The NE evaporation basin was removed from service, drained, cleaned, and evaluated by LANL Craft personnel. Additional defects were identified. A second attempt at repairing the leak in November 2015 was also unsuccessful. Further attempts to repair the liner were suspended due to cold weather. A modified corrective action plan submitted to NMED on January 22, 2016, contained the following elements and their status:

- ✓ Monitor water levels in the leak collection ports and pump weekly, as needed.
Status: Water levels are measure weekly. Weekly pumping, however, has been suspended because the ports immediately refilled and pumping interfered with the operation of the mechanical evaporator.
- ✓ Procure a contract to truck approximately 200,000 gal of water off-site for disposal.
Status: Approximately 436,000 gallons of wastewater was trucked off-site for disposal.
- ✓ Drain the NE evaporation basin once space becomes available within the system.
Status: Pending. Estimated completion: October 30, 2016.

- ✓ Once drained, trained LANL crafts will assess the basin for leaks and repair.
Status: Pending. Estimated completion: October 30, 2016.
- ✓ If repairs cannot be made then procure a contract to reline the basin.
Status: Pending. Estimated completion: October 30, 2016.
- **Southeast Basin.** In December 2015 during the 4th quarter inspection of the Southeast (SE) evaporation basin water was discovered in both leak collection ports. The SE evaporation basin was removed from service on December 8, 2015. On December 9, 2015, both leak collection ports at the SE evaporation basin were pumped dry. The leak collection ports are inspected weekly and pumped, as necessary, to maintain water levels below the top of the 4-in horizontal leak collection pipe. Both leak collection ports were pumped on February 24, 2016. Over the next 21 days—from February 24, 2016, until March 16, 2016—water levels in the east and west leak collection ports only increased to 0.1 ft. and 0.3 ft., respectively. Measurements taken on March 22, 2016, showed effectively no change in water levels from the prior week. DOE/LANS believe that the leak is occurring near the top of the basin. These measurements suggest that the water level in the SE basin may have dropped below the level of the leak.
- **5th Basin.** In May 2015 DOE/LANS submitted to NMED a Corrective Action Plan (CAP) for a leak in the primary liner in the new 5th evaporation basin (ENV-DO-15-0123). The CAP identified the steps necessary to locate and repair the leak by November 30, 2015. The contractor responsible for the liner installation performed an inspection on the pond beginning June 22, 2015, and determined that the source of the leak was a leaking boot joint around the inlet pipe. This leak was repaired, and the pond was returned to service on June 29, 2015. The ports remained dry until August 26, 2015, when water returned to the inspection ports. It appears that the initial repair may not have identified all possible leaks. The 5th basin cannot be drained and prepared for repair until the Northeast evaporation basin is returned to service. NMED was informed of this situation in a telephone call from Mr. Robert Beers (ENV-CP) and Mr. Gerald Knutson (NMED GWQB) on October 8, 2015.

A modified corrective action plan submitted to NMED on January 22, 2016, contained the following elements and their status:

- ✓ The 5th basin will remain in service until the NE evaporation basin is repaired.
Status: Repairs to the NE evaporation basin are pending.
- ✓ Monitor water levels in the leak collection ports and pump weekly, as needed.
Status: Water levels are measure weekly and the ports are pumped to maintain levels below the top of the 4-inch horizontal leak collection pipe.
- ✓ The 5th basin will be repaired once the NE evaporation basin is returned to service.
Because the 5th evaporation basin is still under warranty, repairs will be made by the subcontractor that originally installed the liner system.
Status: Pending. Estimated completion: December 30, 2016.

Ms. Michelle Hunter
EPC-DO-16-101

- 4 -

DOE/LANS will provide the NMED GWQB with updates on the status of these three basins, as appropriate.

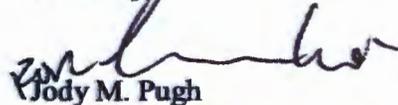
Please contact Robert S. Beers by telephone at (505) 667-7969 or by email at bbeers@lanl.gov if you have questions regarding this quarterly report.

Sincerely,



John P. McCann
Acting Division Leader
Environmental Protection & Compliance Division
Los Alamos National Security LLC

Sincerely,



Jody M. Pugh
Assistant Manager
National Security Missions
NNSA/Los Alamos Field Office

Enclosures:

1. GEL Laboratories LLC Certificate of Analysis Reports
2. Monthly inspection photographs of the SERF evaporation basins

Cy: James Hogan, NMED/SWQB, Santa Fe, NM, (E-File)
John E. Kieling, NMED/HWB, Santa Fe, NM, (E-File)
Stephen M. Yanicak, NMED/DOE/OB, (E-File)
Jody M. Pugh, NA-LA, (E-File)
Jordan Arnswald, NA-LA, (E-File)
Kirsten Laskey, EM-LA, (E-File)
Craig S. Leasure, PADOPS, (E-File)
William R. Mairson, PADOPS, (E-File)
Michael T. Brandt, ADESH, (E-File)
Raeanna Sharp-Geiger, ADESH, (E-File)
John P. McCann, EPC-DO, (E-File)
Andrew W. Erickson, UI-DO, (E-File)
Lawrence V. Chavez, UI-OPS, (E-File)
Pablo F. C De Vaca, UI-OPS, (E-File)
Randy E. Vigil, UI-OPS, (E-File)
Gabriel C. Herrera, ES-UI, (E-File)
Michael T. Saladen, EPC-CP, (E-File)
Robert S. Beers, EPC-CP, (E-File)
Saundra Martinez, OIO-DO, (E-File)
lasomailbox@nnsa.doe.gov, (E-File)
emla.docs@em.doe.gov, (E-File)
locatesteam@lanl.gov, (E-File)
epc-correspondence@lanl.gov, (E-File)

Discharge Permit DP-857 Quarterly Report
1st Quarter, 2016

Table 1.0 Water Quality Data: SWWS Plant Reuse Water, NPDES Outfalls 001 and 03A027, and CDBO-6. 1st Quarter, 2016.

Sampling Location	Field Prep	Sample Date	Sample ID No.	TDS (mg/L)	Chloride (mg/L)	NO3+NO2-N (mg/L)	TKN (mg/L)	NH3-N (mg/L)
SWWS Plant								
SWWS Plant Reuse Wet Well ¹	UF ²	1/21/2016	SWWS46-16-110437	521	189	1.9	1.9	1.1
Sandia Canyon								
NPDES Outfall 001	UF	1/21/2016	SWWS46-16-110435	316	77.3	2.6	0.48	0.06
NPDES Outfall 03A027	UF	1/21/2016	SWWS46-16-110436	383	16.8	5.7	4.7	0.89
NPDES Outfall 03A027	UF	2/17/2016	SWWS46-16-110793	no result	no result	1.2	0.96	0.11
Canada del Buey								
CDBO-6		Dry ⁵						
NM WQCC Regulation 3103 Groundwater Standards (mg/L)				1000	250	10 ³	NA	NA

Notes:

¹Water in the reuse wet well is representative of water in the reuse pond.

²UF means a non-filtered sample, F means a filtered sample.

³The NM WQCC Regulation 3103 Groundwater Standard is for NO₃-N.

⁴No Sample means that no sample was collected during the quarter.

⁵Dry means that there was insufficient water in the well for sampling.

⁶H means that the analytical holding time was exceeded.

NA means that there is no NM WQCC Regulation 3103 groundwater standard for this analyte.

Discharge Permit DP-857 Quarterly Report
1st Quarter, 2016

Table 2.0. Water Level in Cañada del Buey Observation Well (CDBO)-6, 1st Quarter 2016

Location	Date	Water Level† (ft)
CDBO-6	2/12/2016	Dry

Notes:

† Measured in feet from the top of the well casing to the surface of the water.

Table 3.0. Discharge Volumes from the TA-46 SWWS Plant, NPDES Outfalls 001 and 03A027, and Reuse Water to the SCC Cooling Towers (in millions of gallons).

Month	SWWS Plant Effluent to TA-3 ¹	Discharges to NPDES Outfall 001 ²	Reuse Water to SCC Cooling Towers ³ (estimated)	Discharges to NPDES Outfall 03A027 ⁴
Jan	8.019	8.329	0.190	1.214
Feb	7.765	8.328	0.057	1.233
Mar	7.109	5.793	1.999	0.957

Notes:

¹In the 1st quarter of 2016, all SWWS Plant effluent was pumped via a force main to TA-3 for reuse or discharge.

²Power plant wastewater and all SWWS Plant reuse water not used by the SCC Cooling Towers are discharged at NPDES Outfall 001.

³The SCC cooling towers can use potable or SWWS Plant reuse water. Table 3.0 contains the estimated volume of SWWS Plant reuse water that the SCC cooling towers used during the 1st quarter of 2016.

⁴The SCC cooling towers discharge to NPDES Outfall 03A027 at Sandia Canyon.

NA means that no flow volumes were available at the time this report was prepared.

Table 4.0. SERF Evaporation Basins, Inspection Results, Depth of Water in Inspection Ports (in.)

SERF Basin	Inspection Date	West Port (#1) Depth of Water (ft)	East Port (#2) Depth of Water (ft)
Northwest	01/20/2016	dry	dry
Northeast	01/20/2016	9.2	9.1
Southwest	01/20/2016	dry	dry
Southeast	01/20/2016	2.4	2.2
5 th (new basin)	01/20/2016	2.3	0.4
Northwest	02/18/2016	dry	dry
Northeast	02/18/2016	7.9	7.8
Southwest	02/18/2016	dry	dry
Southeast	02/18/2016	2.3	2.2
5 th (new basin)	02/18/2016	2.3	0.5
Northwest	03/16/2016	dry	dry
Northeast	03/16/2016	8.9	8.9
Southwest	03/16/2016	dry	dry
Southeast	03/16/2016	0.1	0.3
5 th (new basin)	03/16/2016	0.6	dry



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Environmental Compliance Programs (EPC-CP)
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**National Nuclear Security Administration
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3747 West Jemez Road
Los Alamos, New Mexico, 87544
(505) 606-0397/Fax (505) 284-7522**

COPY

**Date: APR 28 2016
Symbol: EPC-DO-16-101
LA-UR: 16-22641
Locates Action No.: N/A**

**Ms. Michelle Hunter, Chief
Ground Water Quality Bureau
New Mexico Environment Department
Harold Runnels Building, Room N2261
1190 St. Francis Drive
P.O. Box 26110
Santa Fe, NM 87502**

**GROUND WATER
APR 28 2016
BUREAU**

Dear Ms. Hunter:

SUBJECT: Discharge Permit DP-857 Quarterly Report, First Quarter 2016, TA-46 Sanitary Wastewater Systems Plant

This letter and enclosures from the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) are the first quarter 2016 Discharge Permit DP-857 report for the Technical Area (TA)-46 Sanitary Wastewater Systems (SWWS) Plant. Quarterly reports are submitted to the New Mexico Environment Department (NMED), Ground Water Quality Bureau, in accordance with the reporting requirements of the January 7, 1998, renewal letter for Discharge Permit DP-857.

Table 1.0 provides water quality data from sampling conducted at the TA-46 SWWS Plant's reuse wet well and National Pollutant Discharge Elimination System (NPDES) Outfalls 001 and 03A027. No sample was collected from Cañada del Buey Observation Well (CDBO)-6 during the first quarter because there was insufficient water in the well. The water level at CDBO-6 is measured each quarter and a sample is collected whenever sufficient water is present. All sample results presented in Table 1.0 are less than the New Mexico Water Quality Control Commission Regulation 3103 standards for groundwater. Enclosure 1 presents copies of the GEL Laboratories LLC analytical reports.

ENCLOSURE 1

**GEL Laboratories LLC
Certificate of Analysis Reports**

EPC-DO-16-101

LA-UR-16-22641

Date: APR 28 2016

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 1, 2016

Company : Los Alamos National Laboratory
Address : TA-03, SM271, Drop Pt. 02U, Rm111

Los Alamos, New Mexico 87545
Contact: Mr. Keith Greene
Project: LANL - WQH NPDES

Client SDG: 2016-647

Client Sample ID: SWWS46-16-110435
Sample ID: 390016001
Matrix: Waste Water
Collect Date: 21-JAN-16 15:05
Receive Date: 26-JAN-16
Collector: Client

Project: ESHL00814
Client ID: ARSL004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
Chloride "As Received"											
Chloride		77.3	1.34	4.00	mg/L	20	RXB5	01/27/16	1806	1540329	1
Nutrient Analysis											
NH3 "As Received"											
Nitrogen, Ammonia		0.0565	0.017	0.050	mg/L	1	KLP1	02/01/16	1324	1540259	2
NO3/NO2 "As Received"											
Nitrogen, Nitrate/Nitrite		2.62	0.085	0.250	mg/L	5	KLP1	01/29/16	1338	1540263	3
TKN "As Received"											
Nitrogen, Total Kjeldahl		0.475	0.033	0.100	mg/L	1	KLP1	01/29/16	1217	1538935	4
Solids Analysis											
TDS "As Received"											
Total Dissolved Solids		316	3.40	14.3	mg/L		VH1	01/27/16	1428	1540123	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.1 Prep	EPA 350.1 Ammonia Nitrogen Prep	KLP1	02/01/16	1037	1540258
EPA 351.2 Prep	EPA 351.2 Total Kjeldahl Nitrogen Prep	KLP1	01/28/16	1700	1538934

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA:300.0		
2	EPA:350.1		
3	EPA:353.2		
4	EPA:351.2		
5	EPA:160.1		

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 1, 2016

Company : Los Alamos National Laboratory
Address : TA-03, SM271, Drop Pt. 02U, Rm111

Los Alamos, New Mexico 87545

Contact: Mr. Keith Greene
Project: LANL - WQH NPDES

Client SDG: 2016-647

Client Sample ID: SWWS46-16-110436
Sample ID: 390016002
Matrix: Waste Water
Collect Date: 21-JAN-16 14:53
Receive Date: 26-JAN-16
Collector: Client

Project: ESHL00814
Client ID: ARSL004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
Chloride "As Received"											
Chloride		16.8	0.268	0.800	mg/L	4	RXBS	01/27/16	2252	1540329	1
Nutrient Analysis											
NH3 "As Received"											
Nitrogen, Ammonia		0.890	0.017	0.050	mg/L	1	KLP1	02/01/16	1327	1540259	2
NO3/NO2 "As Received"											
Nitrogen, Nitrate/Nitrite		5.70	0.085	0.250	mg/L	5	KLP1	01/29/16	1339	1540263	3
TKN "As Received"											
Nitrogen, Total Kjeldahl		4.71	0.033	0.100	mg/L	1	KLP1	01/29/16	1220	1538935	4
Solids Analysis											
TDS "As Received"											
Total Dissolved Solids		383	3.40	14.3	mg/L		VH1	01/27/16	1428	1540123	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.1 Prep	EPA 350.1 Ammonia Nitrogen Prep	KLP1	02/01/16	1037	1540258
EPA 351.2 Prep	EPA 351.2 Total Kjeldahl Nitrogen Prep	KLP1	01/28/16	1700	1538934

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA:300.0	
2	EPA:350.1	
3	EPA:353.2	
4	EPA:351.2	
5	EPA:160.1	

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 1, 2016

Company : Los Alamos National Laboratory
 Address : TA-03, SM271, Drop Pt. 02U, Rm111

Los Alamos, New Mexico 87545

Contact: Mr. Keith Greene
 Project: LANL - WQH NPDES

Client SDG: 2016-647

Client Sample ID: SWWS46-16-110437

Project: ESHL00814

Sample ID: 390016003

Client ID: ARSL004

Matrix: Waste Water

Collect Date: 21-JAN-16 15:05

Receive Date: 26-JAN-16

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
NH3 "As Received"											
Nitrogen, Ammonia		1.10	0.017	0.050	mg/L	1	KLP1	02/01/16	1327	1540259	1
NO3/NO2 "As Received"											
Nitrogen, Nitrate/Nitrite		1.93	0.085	0.250	mg/L	5	KLP1	01/29/16	1340	1540263	2
TKN "As Received"											
Nitrogen, Total Kjeldahl		1.87	0.033	0.100	mg/L	1	KLP1	01/29/16	1225	1538935	3
Solids Analysis											
TDS "As Received"											
Total Dissolved Solids		521	3.40	14.3	mg/L		VH1	01/27/16	1428	1540123	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.1 Prep	EPA 350.1 Ammonia Nitrogen Prep	KLP1	02/01/16	1037	1540258
EPA 351.2 Prep	EPA 351.2 Total Kjeldahl Nitrogen Prep	KLP1	01/28/16	1700	1538934

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA:350.1	
2	EPA:353.2	
3	EPA:351.2	
4	EPA:160.1	

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 24, 2016

Company : Los Alamos National Laboratory
Address : TA-03, SM271, Drop Pt. 02U, Rm111

Contact: Los Alamos, New Mexico 87545
Mr. Keith Greene
Project: LANL - WQH NPDES

Client SDG: 2016-764

Client Sample ID: SWWS46-16-110793
Sample ID: 391716001
Matrix: W
Collect Date: 17-FEB-16 11:50
Receive Date: 19-FEB-16
Collector: Client

Project: ESHL00814
Client ID: ARSL004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
NH3 "As Received"											
Nitrogen, Ammonia		0.114	0.017	0.050	mg/L	1	KLP1	02/23/16	1327	1546813	1
NO3/NO2 "As Received"											
Nitrogen, Nitrate/Nitrite		1.21	0.017	0.050	mg/L	1	AXH3	02/22/16	1118	1546460	2
TKN "As Received"											
Nitrogen, Total Kjeldahl		0.958	0.033	0.100	mg/L	1	KLP1	02/24/16	1226	1546457	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.1 Prep	EPA 350.1 Ammonia Nitrogen Prep	KLP1	02/23/16	1158	1546811
EPA 351.2 Prep	EPA 351.2 Total Kjeldahl Nitrogen Prep	KLP1	02/23/16	1430	1546456

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA:350.1	
2	EPA:353.2	
3	EPA:351.2	

Notes:

ENCLOSURE 2

**Monthly inspection photographs of the
SERF evaporation basins**

ECP-DO-16-101

LA-UR-16-22641

Date: APR 28 2016

Monthly Inspection Record: January 20, 2016

Northwest Evaporation Basin (Basin 1)

Inspection Sump #1: Dry

Inspection Sump #2: Dry



Northeast Evaporation Basin (Basin 2)

Inspection Sump #1: 9.2 ft of standing water

Inspection Sump #2: 9.1 ft of standing water



Monthly Inspection Record: January 20, 2016

Southwest Evaporation Basin (Basin 3)

Inspection Sump #1: Dry

Inspection Sump #2: Dry



Southeast Evaporation Basin (Basin 4)

Inspection Sump #1: 2.4 ft of standing water

Inspection Sump #2: 2.2 ft of standing water



Monthly Inspection Record: January 20, 2016

5th Evaporation Basin (Basin 5)

Inspection Sump #1: 2.3 ft of standing water

Inspection Sump #2: 0.4 ft of standing water

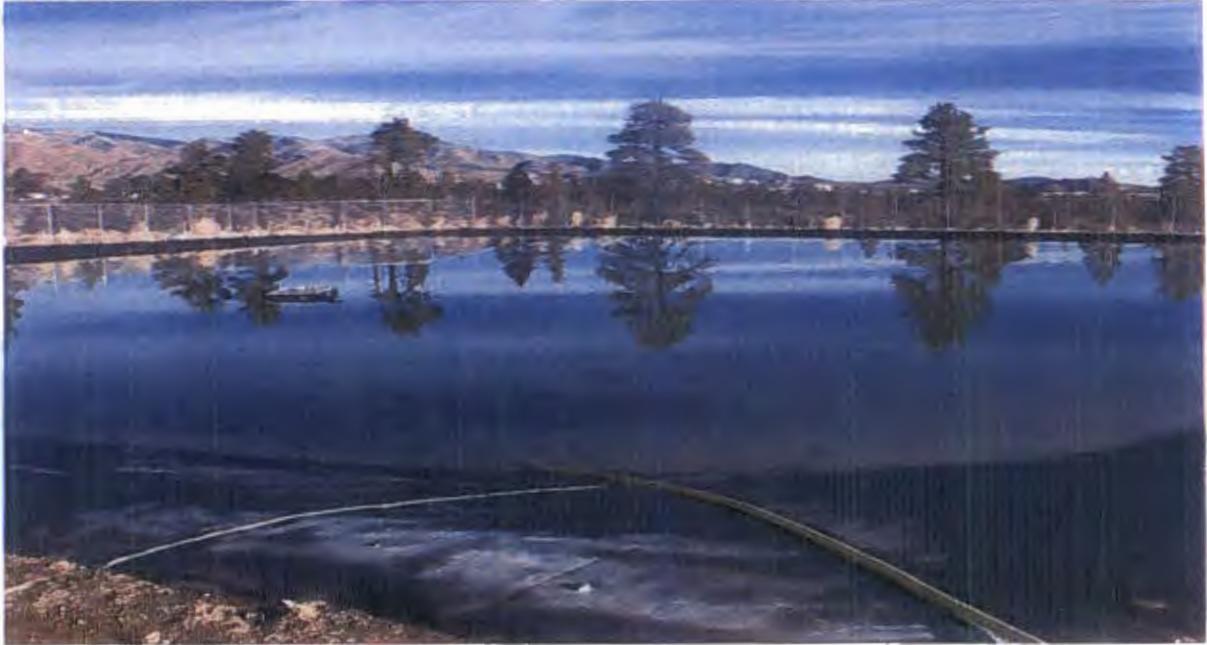


Monthly Inspection Record: February 18, 2016

Northwest Evaporation Basin (Basin 1)

Inspection Sump #1: Dry

Inspection Sump #2: Dry



Northeast Evaporation Basin (Basin 2)

Inspection Sump #1: 7.9 ft of standing water

Inspection Sump #2: 7.8 ft of standing water



Monthly Inspection Record: February 18, 2016

Southwest Evaporation Basin (Basin 3)

Inspection Sump #1: Dry

Inspection Sump #2: Dry



Southeast Evaporation Basin (Basin 4)

Inspection Sump #1: 2.3 ft of standing water

Inspection Sump #2: 2.2 ft of standing water



Monthly Inspection Record: February 18, 2016

5th Evaporation Basin (Basin 5)

Inspection Sump #1: 2.3 ft of standing water

Inspection Sump #2: 0.5 ft of standing water



SERF Evaporation Basins

Monthly Inspection Record: March 16, 2016

Northwest Evaporation Basin (Basin 1)

Inspection Sump #1: Dry

Inspection Sump #2: Dry



Northeast Evaporation Basin (Basin 2)

Inspection Sump #1: 8.9 ft of standing water

Inspection Sump #2: 8.9 ft of standing water



SERF Evaporation Basins

Monthly Inspection Record: March 16, 2016

Southwest Evaporation Basin (Basin 3)

Inspection Sump #1: Dry

Inspection Sump #2: Dry



Southeast Evaporation Basin

Inspection Sump #1: 0.1 ft of standing water

Inspection Sump #2: 0.3 ft of standing water



SERF Evaporation Basins
Monthly Inspection Record: March 16, 2016

5th Evaporation Basin

Inspection Sump #1: 0.6 ft of standing water

Inspection Sump #2: Dry

