



OGMCOAL DNR &lt;ogmcoal@utah.gov&gt;

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## November 2016 UPDES DMR - Interwest Mining Company

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**Fleck, Ken** <Kenneth.Fleck@pacificorp.com>

Thu, Dec 22, 2016 at 8:18 AM

To: DEQ- Mike Herkimer &lt;mherkimer@utah.gov&gt;, Edith Van Vleet &lt;evanvleet@utah.gov&gt;, Jeffrey Studenka &lt;jstudenka@utah.gov&gt;, "mgam@utah.gov" &lt;mgam@utah.gov&gt;

Cc: DOGM Water Reports &lt;ogmcoal@utah.gov&gt;, Steve Christensen &lt;stevechristensen@utah.gov&gt;, "Oakley, Dennis" &lt;Dennis.Oakley@pacificorp.com&gt;, "Keenan Storrar &lt;kstorrar@utah.gov&gt; (kstorrar@utah.gov)" &lt;kstorrar@utah.gov&gt;

DMR information has been submitted electronically to EPA Net DMR.

*Ken***Kenneth S. Fleck**

Geology and Environmental Affairs Manager



PacifiCorp – Interwest Mining Company

Huntington Office

P.O. Box 310

15 North Main Street

Huntington, Utah 84528

[\(435\) 687-4712](tel:4356874712)

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### 2 attachments

**Scanned DMR Forms Nov 2016.pdf**

744K

**Interwest Deer Creek Mine Salt Credit Calculation Worksheet - January 2015 - November 2016.pdf**

336K



Code	Name	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	of Ex.	Analysis	Type
Season: 0		<b>Req.</b>			>=6.5 DAILY MN		<=9 DAILY MX	12 - SU		01/30 - Monthly	GR - GRAB
NODI: -		<b>NODI</b>									
00530	Solids, total suspended	<b>Smpl.</b>				<5	<5	19 - mg/L	0	01/30 - Monthly	GR - GRAB
1 - Effluent Gross											
Season: 0		<b>Req.</b>				<=20 30DA AVG	<=30 7 DA AVG	19 - mg/L		01/30 - Monthly	GR - GRAB
NODI: -		<b>NODI</b>									
01045	Iron, total [as Fe]	<b>Smpl.</b>					<0.05	19 - mg/L	0	01/30 - Monthly	GR - GRAB
1 - Effluent Gross											
Season: 0		<b>Req.</b>					<=1 DAILY MX	19 - mg/L		01/30 - Monthly	GR - GRAB
NODI: -		<b>NODI</b>									
03582	Oil and grease	<b>Smpl.</b>					=0	19 - mg/L	0	09/99 - See Permit	GR - GRAB
1 - Effluent Gross											
Season: 0		<b>Req.</b>					<=10 DAILY MX	19 - mg/L		09/99 - See Permit	GR - GRAB
NODI: -		<b>NODI</b>									
45613	Floating solids, waste or visible foam-visual	<b>Smpl.</b>					=0	9X - Y=0;N=1	0	01/30 - Monthly	VI - VISUAL
1 - Effluent Gross											
Season: 0		<b>Req.</b>					<=0 DAILY MX	9X - Y=0;N=1		01/30 - Monthly	VI - VISUAL
NODI: -		<b>NODI</b>									
45614	Sanitary waste discharged-assessmnt	<b>Smpl.</b>					=0	9X - Y=0;N=1	0	01/30 - Monthly	VI - VISUAL
1 - Effluent Gross											
Season: 0		<b>Req.</b>					<=0 DAILY MX	9X - Y=0;N=1		01/30 - Monthly	VI - VISUAL
NODI: -		<b>NODI</b>									
70295	Solids, total dissolved	<b>Smpl.</b>					=722	19 - mg/L	0	01/30 - Monthly	GR - GRAB
1 - Effluent Gross											
Season: 0		<b>Req.</b>					<=1136 DAILY MX	19 - mg/L		01/30 - Monthly	GR - GRAB

Code	Name	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	of Ex.	Analysis	Type
84066	Oil and grease visual										
	O - See Comments	<b>Smpl.</b>	=0	9P - N=0;Y=1					0	01/30 - Monthly	VI - VISUAL
	Season: 0	<b>Req.</b>	<=0 INST MAX	9P - N=0;Y=1						01/30 - Monthly	VI - VISUAL
	NODI: -	<b>NODI</b>									

**Submission Note**

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

**Attachments**

No attachments.

**Report Last Saved By**

**PACIFICORP INTERWEST MINING COMPANY - COTTONWOOD/WILBERG MINE**

User: ken.fleck@pacificcorp.com  
Name: Kenneth Fleck  
E-Mail: ken.fleck@pacificcorp.com  
Date/Time: 2016-12-20 07:27 (Time Zone:-07:00)



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## DMR Copy of Record

### Permit

**Permit ID:** UT0022896  
**Permittee:** PACIFICORP INTERWEST MINING COMPANY - COTTONWOOD/WILBERG MINE  
**Facility:** PACIFICORP INTERWEST MINING COMPANY-COTTONWOOD/WILBERG MINE  
**Permitted Feature:** 003 - External Outfall

**Major:**   
**Permittee Address:** 1407 West North Temple Street  
 Salt Lake City , UT84116  
**Facility Location:** 15 NORTH MAIN STREET  
 HUNTINGTON , UT84528  
**Discharge:** 003-A - DISCHRG SED POND GRIMES WASH

### Report Dates & Status

**Monitoring Period:** From 11/01/16 to 11/30/16  
**Status:** NetDMR Validated

**DMR Due Date:** 12/28/16

### Considerations for Form Completion

If an Oil & Grease is observed, then an O & G sample shall be collected. Settleable Solids may be substituted for TSS during storm events less than 10-yr. 24-hr event, otherwise, enter N/A. See permit.

### Principal Executive Officer

**First Name:** Dana  
**Title:** VP Coal Generation and Mining

**Last Name:** Ralston  
**Telephone:** 801-220-4017

### No Data Indicator (NODI)

**Form NODI:** -

Code	Parameter Name	NODI	Quantity or Loading			Quality or Concentration			Units	# of Ex.	Freq. of Analysis	Smpl. Type
			Value 1	Value 2	Units	Value 1	Value 2	Value 3				
00056	Flow rate											
	1 - Effluent Gross	Smpl.										
Season: 0		Req.	<=.5	30DA AVG	03 - MGD					01/30 - Monthly	MS - MEASRD	
NODI: -		NODI	C - No Discharge									
00400	pH											
	1 - Effluent Gross	Smpl.										
Season: 0		Req.	>=6.5	DAILY MN		<=9	DAILY MX	12 - SU		01/30 - Monthly	GR - GRAB	



Code	Name	Smpl.	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	of Ex.	Analysis	Type
1 - Effluent Gross												
Season: 0		Req.						<=1200 DAILY MX	19 - mg/L		01/30 - Monthly	GR - GRAB
NODI: -		NODI						C - No Discharge				
84066 Oil and grease visual		Smpl.										
1 - Effluent Gross												
Season: 0		Req.		<=0 INST MAX	9P - N=0;Y=1						01/30 - Monthly	VI - VISUAL
NODI: -		NODI		C - No Discharge								

**Submission Note**

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

**Attachments**

No attachments.

**Report Last Saved By**

**PACIFICORP INTERWEST MINING COMPANY - COTTONWOOD/WILBERG MINE**

User: kerl.fleck@pacificorp.com  
 Name: Kenneth Fleck  
 E-Mail: ken.fleck@pacificorp.com  
 Date/Time: 2016-12-20 07:36 (Time Zone:-07:00)



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## DMR Copy of Record

### Permit

**Permit ID:** UT0022896  
**Permittee:** PACIFICORP INTERWEST MINING COMPANY - COTTONWOOD/WILBERG MINE  
**Facility:** PACIFICORP INTERWEST MINING COMPANY-COTTONWOOD/WILBERG MINE

**Major:** [Redacted]  
**Permittee Address:** 1407 West North Temple Street  
 Salt Lake City , UT84116  
**Facility Location:** 15 NORTH MAIN STREET  
 HUNTINGTON , UT84528  
**Discharge:** SUM-A - COMBINATION 001, 003, 004, 005

**Permitted Feature:** SUM - External Outfall

### Report Dates & Status

**Monitoring Period:** From 11/01/16 to 11/30/16  
**Status:** NetDMR Validated

**DMR Due Date:** 12/28/16

### Considerations for Form Completion

TOTAL DISCHARGE OF TDS FROM OUTFALL002, 003, AND 005 SHALL NOT EXCEED 2,000 LBS/DAY DURING DRAWDOWN.

### Principal Executive Officer

**First Name:** Dana  
**Title:** VP Coal Generation and Mining

**Last Name:** Ralston  
**Telephone:** 801-220-4017

### No Data Indicator (NODI)

**Form NODI:** -

Code	Parameter Name	NODI	Quantity or Loading			Quality or Concentration			Units	# of Ex.	Freq. of Analysis	Smpl. Type
			Value 1	Value 2	Units	Value 1	Value 2	Value 3				
70295	Solids, total dissolved	Smpl.										
	1 - Effluent Gross											
Season: 0		Req.		<=2000 DAILY MX	26 - lb/d					01/30 - Monthly	GR - GRAB	
NODI: -		NODI		C - No Discharge								

### Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

[Edit Check Errors](#)

**Comments**

**Attachments**

*No attachments.*

**Report Last Saved By**

**PACIFICORP INTERWEST MINING COMPANY - COTTONWOOD/WILBERG MINE**

User: ken.fleck@pacificorp.com  
Name: Kenneth Fleck  
E-Mail: ken.fleck@pacificorp.com  
Date/Time: 2016-12-20 07:38 (Time Zone:-07:00)

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## DMR Copy of Record

### Permit

**Permit ID:** UT0023604  
**Permittee:** PACIFICORP INTERWEST MINING COMPANY - DEER CREEK MINE  
**Facility:** PACIFICORP INTERWEST MINING COMPANY -DEER CREEK MINE  
**Permitted Feature:** 001 - External Outfall

**Major:**   
**Permittee Address:** 1407 West North Temple Street  
 Salt Lake City , UT84116  
**Facility Location:** 15 NORTH MAIN  
 HUNTINGTON , UT84528  
**Discharge:** 001-A - SEDIMENT POND OUTFALL

### Report Dates & Status

**Monitoring Period:** From 11/01/16 to 11/30/16  
**Status:** NetDMR Validated

**DMR Due Date:** 12/28/16

### Considerations for Form Completion

Settleable Solids limits will apply during runoff event less than or equal to the 10yr/24hr storm event. Otherwise enter N/A for Settleable Solids. See permit

### Principal Executive Officer

**First Name:** Dana  
**Title:** VP Coal Generation and Mining

**Last Name:** Ralston  
**Telephone:** 801-220-4017

### No Data Indicator (NODI)

**Form NODI:** -

Code	Parameter Name	NODI	Quantity or Loading			Quality or Concentration			# of Ex.	Freq. of Analysis	Smpl. Type
			Value 1	Value 2	Units	Value 1	Value 2	Value 3			
00056	Flow rate										
	1 - Effluent Gross	Smpl.									
Season: 0		Req.	<=.19 30DA AVG		03 - MGD					01/30 - Monthly	MS - MEASRD
NODI: -		NODI	C - No Discharge								
00400	pH										
	1 - Effluent Gross	Smpl.									
Season: 0		Req.		>=6.5 DAILY MN			<=9 DAILY MX	12 - SU		01/30 - Monthly	GR - GRAB
NODI: -		NODI		C - No Discharge			C - No Discharge				



Code	Name	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	of Ex.	Analysis	Type
Season: 0							Req Mon DAILY MX	19 - mg/L		09/99 - See Permit	GR - GRAB
NODI: -							C - No Discharge				
84066	Oil and grease visual										
1 - Effluent Gross											
Season: 0			<=0 INST MAX	9P - N=0;Y=1						01/30 - Monthly	VI - VISUAL
NODI: -			C - No Discharge								

**Submission Note**

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

**Attachments**

No attachments.

**Report Last Saved By**

**PACIFICORP INTERWEST MINING COMPANY - DEER CREEK MINE**

User: ken.fleck@pacificorp.com  
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Date/Time: 2016-12-20 07:48 (Time Zone:-07:00)



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## DMR Copy of Record

### Permit

**Permit ID:** UT0023604  
**Permittee:** PACIFICORP INTERWEST MINING COMPANY - DEER CREEK MINE  
**Facility:** PACIFICORP INTERWEST MINING COMPANY -DEER CREEK MINE  
**Permitted Feature:** 002 - External Outfall

**Major:**   
**Permittee Address:** 1407 West North Temple Street  
 Salt Lake City , UT84116  
**Facility Location:** 15 NORTH MAIN  
 HUNTINGTON , UT84528  
**Discharge:** 002-A - DEER CREEK MINE

### Report Dates & Status

**Monitoring Period:** From 11/01/16 to 11/30/16  
**Status:** NetDMR Validated

**DMR Due Date:** 12/28/16

### Considerations for Form Completion

Monitoring for Oil and Grease and also do a visual. Sample TDS as per permit, the same value should be entered for 001 and 002.

### Principal Executive Officer

**First Name:** Dana  
**Title:** VP Coal Generation and Mining

**Last Name:** Ralston  
**Telephone:** 801-220-4017

### No Data Indicator (NODI)

**Form NODI:** -

Parameter Code	Name	NODI	Quantity or Loading			Quality or Concentration			# of Ex.	Freq. of Analysis	Smpl. Type
			Value 1	Value 2	Units	Value 1	Value 2	Value 3			
00056	Flow rate										
	1 - Effluent Gross	Smpl.									
	Season: 0	Req.	<=5 30DA AVG		03 - MGD					99/99 - Continuous	RT - RCOTOT
	NODI: -	NODI	C - No Discharge								
00400	pH										
	1 - Effluent Gross	Smpl.									
	Season: 0	Req.			>=6.5 DAILY MN		<=9 DAILY MX	12 - SU		01/30 - Monthly	GR - GRAB
	NODI: -	NODI			C - No Discharge		C - No Discharge				



Code	Name	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	of Ex.	Analysis	Type
Season: 0											
	<b>Req.</b>		<=0 INST MAX	9P - N=0;Y=1						01/30 - Monthly	VI - VISUAL
NODI: -	<b>NODI</b>		C - No Discharge								

**Submission Note**

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

**Attachments**

No attachments.

**Report Last Saved By**

**PACIFICORP INTERWEST MINING COMPANY - DEER CREEK MINE**

User: ken.fleck@pacificorp.com  
Name: Kenneth Fleck  
E-Mail: ken.fleck@pacificorp.com  
Date/Time: 2016-12-20 07:50 (Time Zone:-07:00)



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## DMR Copy of Record

### Permit

**Permit ID:** UT0023604  
**Permittee:** PACIFICORP INTERWEST MINING COMPANY - DEER CREEK MINE  
**Facility:** PACIFICORP INTERWEST MINING COMPANY -DEER CREEK MINE

**Major:**   
**Permittee Address:** 1407 West North Temple Street  
 Salt Lake City , UT84116  
**Facility Location:** 15 NORTH MAIN  
 HUNTINGTON , UT84528  
**Discharge:** SUM-A - Sum of both discharges

**Permitted Feature:** SUM - External Outfall  
**Report Dates & Status**

**Monitoring Period:** From 11/01/16 to 11/30/16  
**Status:** NetDMR Validated

**DMR Due Date:** 12/28/16

### Considerations for Form Completion

Deer Creek is participating in a "Salinity Offset Program"

### Principal Executive Officer

**First Name:** Dana  
**Title:** VP Coal Generation and Mining

**Last Name:** Ralston  
**Telephone:** 801-220-4017

### No Data Indicator (NODI)

**Form NODI:** -

Code	Parameter Name	NODI	Quantity or Loading			Quality or Concentration			# of Ex.	Freq. of Analysis	Smpl. Type
			Value 1	Value 2	Units	Value 1	Value 2	Value 3			
70295	Solids, total dissolved										
	1 - Effluent Gross	Smpl.									
Season: 0		Req.		<=2000 DAILY MX	26 - lb/d				01/30 - Monthly	CA - CALCTD	
NODI: -		NODI		C - No Discharge							

### Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

### Edit Check Errors

**Comments**

**Attachments**

No attachments.

**Report Last Saved By**

**PACIFICORP INTERWEST MINING COMPANY - DEER CREEK MINE**

User: ken.fleck@pacificorp.com  
Name: Kenneth Fleck  
E-Mail: ken.fleck@pacificorp.com  
Date/Time: 2016-12-20 07:52 (Time Zone:-07:00)

Interwest Mining Company  
Deer Creek Mine  
UPDES Permit UT0023604

Salinity (TDS) Offset Cost Calculation Sheet

See Sheet 2 for Constants, Variables, Assumptions  
See Sheet 3 for TDS Loading Calculation

Calendar Year 2015

2015  
Mine Discharge Rate 1,100 g/d  
Average TDS Concentration 550 mg/l  
Calculated daily TDS load 3.64 tons  
Minus 1 ton per day allowed -1 ton  
Needed Credit per day 2.64 tons  
Needed Credit per year 962.00 tons

Total Credits for 1-Year Plan: Credits:  
2015 962.00

One Year Total Credits Required: 962.00

Total Cost For Credits \$47,724.82  
(Assume \$49.61 per ton)

Energy West Mining Company Deer Creek Mine TDS Credits Month - Year:	Average Daily TDS Load (Tons)	TDS Credits Used (Curr. Month)	TDS Credits Used (Cumulative)	Available TDS Credits:	Percentage of Fund Remaining	
				962.0	100.0%	
January-15	5.275	163.5	163.5	798.5	83.0%	
February-15	0.023	0.6	164.2	797.8	82.9%	
March-15	1.029	31.9	196.1	765.9	79.6%	
April-15	0.059	1.8	197.9	764.1	79.4%	
May-15	-0.788	0.0	197.9	764.1	79.4%	
June-15	-0.577	0.0	197.9	764.1	79.4%	
July-15	-0.442	0.0	197.9	764.1	79.4%	
August-15	-0.804	0.0	197.9	764.1	79.4%	
September-15	-1.000	0.0	197.9	764.1	79.4%	No Discharge
October-15	-1.000	0.0	197.9	764.1	79.4%	No Discharge
November-15	-1.000	0.0	197.9	764.1	79.4%	No Discharge
December-15	-1.000	0.0	197.9	764.1	79.4%	No Discharge
January-16	-1.000	0.0	197.9	764.1	79.4%	No Discharge
February-16	-1.000	0.0	197.9	764.1	79.4%	No Discharge
March-16	-1.000	0.0	197.9	764.1	79.4%	No Discharge
April-16	-1.000	0.0	197.9	764.1	79.4%	No Discharge
May-16	-1.000	0.0	197.9	764.1	79.4%	No Discharge
June-16	-1.000	0.0	197.9	764.1	79.4%	No Discharge
July-16	-1.000	0.0	197.9	764.1	79.4%	No Discharge
August-16	-1.000	0.0	197.9	764.1	79.4%	No Discharge
September-16	-1.000	0.0	197.9	764.1	79.4%	No Discharge
October-16	-1.000	0.0	197.9	764.1	79.4%	No Discharge
November-16	-1.000	0.0	197.9	764.1	79.4%	No Discharge

Salinity (TDS) is measured at the new compliance point (SUM-A) below the confluence of DCD-001 and DCD-002.  
(BASIS FOR EFFLUENT LIMITATIONS, 5. a. i. & ii, UPDES Permit UT0023604, Energy West Deer Creek Mine)

## "Salt" Loading Calculations

### Constants:

1 day = 1440 minutes  
1 gallon = 3.78541 liters  
1 pound = 453592 milligrams

### Assumptions:

Discharge TDS	550 mg/l	Total Dissolved Solids
Discharge Vol	1100 gpm	from now until shutdown
Discharge Vol	350 gpm	after shutdown
Cost per Credit	49.61	Cost Calculated by DWQ

At 1100 gpm, salt load per day will be:

Discharge per day = 1,584,000 gallons per day  
5,996,089.4 liters per day  
3,297,849,192 milligrams of salt per day  
7,270.5 pounds of salt per day  
3.64 tons of salt per day

At 350 gpm, salt load per day will be:

Discharge per day = 504,000 gallons per day  
1,907,846.6 liters per day  
1,049,315,652 milligrams of salt per day  
2,313.3 pounds of salt per day  
1.16 tons of salt per day

















# DEER CREEK MINE SEDIMENT POND DISCHARGE - DC Combined Discharge (SUM-A)

MONTH: September  
 YEAR: 2015

## POUNDS OF SALT DISCHARGE

No Discharge for September

	INPUT TDS LEVEL	LBS./ GALLON	INPUT DISCHARGE RATE (GPM)	TONS OF SALT/DAY	POUNDS PER/DAY	INPUT # OF DAYS	TOTAL TONS OF SALT DISCHARGE/MONTH
--	-----------------------	-----------------	-------------------------------------	---------------------	-------------------	-----------------------	---------------------------------------

MONTHLY AVERAGE	0	0.000	0.0	0.00	0.00	30	0.00
SAMPLE AVERAGE	0	0.000	0.0	0.00	0.00	31	0.00
SAMPLE MAXIMUM	0	0.000	0.0	0.00	0.00		
SAMPLE MINIMUM	0	0.000	0.0	0.00	0.00		
TOTAL GALLONS DISCHARGE FOR			September		0		

DMR REPORTING:      MAX. = Sampled TDS(1 sample) with sampled flow rate.  
 AVG. = Sampled TDS(1 sample) with sampled flow rate.

DAYS OF DISCHARGE:	31 DAYS		
SAMPLE AVERAGE TDS =1 SAMPLE		Mean =	0 mg/l
SAMPLE AVERAGE FLOW =	0 GPM		
DURATION OF DISCHARGE =	30 Days		
AVERAGE FLOW	0.0 GPM	0 GPD	
MAXIMUM FLOW	0 GPM	0 GPD	



## DEER CREEK MINE SEDIMENT POND DISCHARGE - DC Combined Discharge (SUM-A)

MONTH: November  
 YEAR: 2015

### POUNDS OF SALT DISCHARGE

No Discharge for November

	INPUT TDS LEVEL	LBS./ GALLON	INPUT DISCHARGE RATE (GPM)	TONS OF SALT/DAY	POUNDS PER/DAY	INPUT # OF DAYS	TOTAL TONS OF SALT DISCHARGE/MONTH
--	-----------------------	-----------------	-------------------------------------	---------------------	-------------------	-----------------------	---------------------------------------

MONTHLY AVERAGE	0	0.000	0.0	0.00	0.00	30	0.00
SAMPLE AVERAGE	0	0.000	0.0	0.00	0.00	30	0.00
SAMPLE MAXIMUM	0	0.000	0.0	0.00	0.00		
SAMPLE MINIMUM	0	0.000	0.0	0.00	0.00		
TOTAL GALLONS DISCHARGE FOR			November		0		

DMR REPORTING:      MAX. = Sampled TDS(1 sample) with sampled flow rate.  
 AVG. = Sampled TDS(1 sample) with sampled flow rate.

DAYS OF DISCHARGE:	30 DAYS	
SAMPLE AVERAGE TDS =1 SAMPLE		Mean =      0 mg/l
SAMPLE AVERAGE FLOW =	0 GPM	
DURATION OF DISCHARGE =	30 Days	
AVERAGE FLOW	0.0 GPM	0 GPD
MAXIMUM FLOW	0 GPM	0 GPD

## DEER CREEK MINE SEDIMENT POND DISCHARGE - DC Combined Discharge (SUM-A)

MONTH: December  
 YEAR: 2015

### POUNDS OF SALT DISCHARGE

No Discharge for December

	INPUT TDS LEVEL	LBS./ GALLON	INPUT DISCHARGE RATE (GPM)	TONS OF SALT/DAY	POUNDS PER/DAY	INPUT # OF DAYS	TOTAL TONS OF SALT DISCHARGE/MONTH
--	-----------------------	-----------------	-------------------------------------	---------------------	-------------------	-----------------------	---------------------------------------

MONTHLY AVERAGE	0	0.000	0.0	0.00	0.00	31	0.00
SAMPLE AVERAGE	0	0.000	0.0	0.00	0.00	31	0.00
SAMPLE MAXIMUM	0	0.000	0.0	0.00	0.00		
SAMPLE MINIMUM	0	0.000	0.0	0.00	0.00		
TOTAL GALLONS DISCHARGE FOR			December		0		

DMR REPORTING:      MAX. = Sampled TDS(1 sample) with sampled flow rate.  
 AVG. = Sampled TDS(1 sample) with sampled flow rate.

DAYS OF DISCHARGE:	31 DAYS	
SAMPLE AVERAGE TDS =1 SAMPLE		Mean = 0 mg/l
SAMPLE AVERAGE FLOW =	0 GPM	
DURATION OF DISCHARGE =	31 Days	
AVERAGE FLOW	0.0 GPM	0 GPD
MAXIMUM FLOW	0 GPM	0 GPD





# DEER CREEK MINE SEDIMENT POND DISCHARGE - DC Combined Discharge (SUM-A)

MONTH: March  
 YEAR: 2016

## POUNDS OF SALT DISCHARGE

No Discharge for March

	INPUT TDS LEVEL	LBS./ GALLON	INPUT DISCHARGE RATE (GPM)	TONS OF SALT/DAY	POUNDS PER/DAY	INPUT # OF DAYS	TOTAL TONS OF SALT DISCHARGE/MONTH
MONTHLY AVERAGE	0	0.000	0.0	0.00	0.00	31	0.00
SAMPLE AVERAGE	0	0.000	0.0	0.00	0.00	31	0.00
SAMPLE MAXIMUM	0	0.000	0.0	0.00	0.00		
SAMPLE MINIMUM	0	0.000	0.0	0.00	0.00		
TOTAL GALLONS DISCHARGE FOR			March		0		

DMR REPORTING: MAX. = Sampled TDS(1 sample) with sampled flow rate.  
 AVG. = Sampled TDS(1 sample) with sampled flow rate.

DAYS OF DISCHARGE: 31 DAYS  
 SAMPLE AVERAGE TDS =1 SAMPLE Mean = 0 mg/l  
 SAMPLE AVERAGE FLOW = 0 GPM  
 DURATION OF DISCHARGE = 31 Days  
 AVERAGE FLOW 0.0 GPM 0 GPD  
 MAXIMUM FLOW 0 GPM 0 GPD

## DEER CREEK MINE SEDIMENT POND DISCHARGE - DC Combined Discharge (SUM-A)

MONTH: April  
 YEAR: 2016

### POUNDS OF SALT DISCHARGE

No Discharge for April

	INPUT TDS LEVEL	LBS./ GALLON	INPUT DISCHARGE RATE (GPM)	TONS OF SALT/DAY	POUNDS PER/DAY	INPUT # OF DAYS	TOTAL TONS OF SALT DISCHARGE/MONTH
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MONTHLY AVERAGE	0	0.000	0.0	0.00	0.00	30	0.00
SAMPLE AVERAGE	0	0.000	0.0	0.00	0.00	30	0.00
SAMPLE MAXIMUM	0	0.000	0.0	0.00	0.00		
SAMPLE MINIMUM	0	0.000	0.0	0.00	0.00		
TOTAL GALLONS DISCHARGE FOR			April		0		

DMR REPORTING:           MAX. = Sampled TDS(1 sample) with sampled flow rate.  
                                   AVG. = Sampled TDS(1 sample) with sampled flow rate.

DAYS OF DISCHARGE:	30 DAYS		
SAMPLE AVERAGE TDS =1 SAMPLE		Mean =	0 mg/l
SAMPLE AVERAGE FLOW =	0 GPM		
DURATION OF DISCHARGE =	30 Days		
AVERAGE FLOW	0.0 GPM	0 GPD	
MAXIMUM FLOW	0 GPM	0 GPD	



## DEER CREEK MINE SEDIMENT POND DISCHARGE - DC Combined Discharge (SUM-A)

MONTH: June  
 YEAR: 2016

### POUNDS OF SALT DISCHARGE

No Discharge for June

	INPUT TDS LEVEL	LBS./ GALLON	INPUT DISCHARGE RATE (GPM)	TONS OF SALT/DAY	POUNDS PER/DAY	INPUT # OF DAYS	TOTAL TONS OF SALT DISCHARGE/MONTH
MONTHLY AVERAGE	0	0.000	0.0	0.00	0.00	30	0.00
SAMPLE AVERAGE	0	0.000	0.0	0.00	0.00	30	0.00
SAMPLE MAXIMUM	0	0.000	0.0	0.00	0.00		
SAMPLE MINIMUM	0	0.000	0.0	0.00	0.00		
TOTAL GALLONS DISCHARGE FOR			June		0		

DMR REPORTING:      MAX. = Sampled TDS(1 sample) with sampled flow rate.  
 AVG. = Sampled TDS(1 sample) with sampled flow rate.

DAYS OF DISCHARGE:      30 DAYS

SAMPLE AVERAGE TDS =1 SAMPLE      Mean =      0 mg/l

SAMPLE AVERAGE FLOW =      0 GPM

DURATION OF DISCHARGE =      30 Days

AVERAGE FLOW      0.0 GPM      0 GPD

MAXIMUM FLOW      0 GPM      0 GPD



## DEER CREEK MINE SEDIMENT POND DISCHARGE - DC Combined Discharge (SUM-A)

MONTH: August  
 YEAR: 2016

### POUNDS OF SALT DISCHARGE

No Discharge for August

	INPUT TDS LEVEL	LBS./ GALLON	INPUT DISCHARGE RATE (GPM)	TONS OF SALT/DAY	POUNDS PER/DAY	INPUT # OF DAYS	TOTAL TONS OF SALT DISCHARGE/MONTH
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MONTHLY AVERAGE	0	0.000	0.0	0.00	0.00	31	0.00
SAMPLE AVERAGE	0	0.000	0.0	0.00	0.00	31	0.00
SAMPLE MAXIMUM	0	0.000	0.0	0.00	0.00		
SAMPLE MINIMUM	0	0.000	0.0	0.00	0.00		
TOTAL GALLONS DISCHARGE FOR			August		0		

DMR REPORTING:           MAX. = Sampled TDS(1 sample) with sampled flow rate.  
 AVG. = Sampled TDS(1 sample) with sampled flow rate.

DAYS OF DISCHARGE:	31 DAYS	
SAMPLE AVERAGE TDS =1 SAMPLE		Mean =           0 mg/l
SAMPLE AVERAGE FLOW =	0 GPM	
DURATION OF DISCHARGE =	31 Days	
AVERAGE FLOW	0.0 GPM	0 GPD
MAXIMUM FLOW	0 GPM	0 GPD

# DEER CREEK MINE SEDIMENT POND DISCHARGE - DC Combined Discharge (SUM-A)

MONTH: September  
 YEAR: 2016

## POUNDS OF SALT DISCHARGE

No Discharge for September

	INPUT TDS LEVEL	LBS./ GALLON	INPUT DISCHARGE RATE (GPM)	TONS OF SALT/DAY	POUNDS PER/DAY	INPUT # OF DAYS	TOTAL TONS OF SALT DISCHARGE/MONTH
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MONTHLY AVERAGE	0	0.000	0.0	0.00	0.00	30	0.00
SAMPLE AVERAGE	0	0.000	0.0	0.00	0.00	31	0.00
SAMPLE MAXIMUM	0	0.000	0.0	0.00	0.00		
SAMPLE MINIMUM	0	0.000	0.0	0.00	0.00		
TOTAL GALLONS DISCHARGE FOR			September		0		

DMR REPORTING:           MAX. = Sampled TDS(1 sample) with sampled flow rate.  
 AVG. = Sampled TDS(1 sample) with sampled flow rate.

DAYS OF DISCHARGE:	31 DAYS	
SAMPLE AVERAGE TDS =1 SAMPLE		Mean = 0 mg/l
SAMPLE AVERAGE FLOW =	0 GPM	
DURATION OF DISCHARGE =	30 Days	
AVERAGE FLOW	0.0 GPM	0 GPD
MAXIMUM FLOW	0 GPM	0 GPD

## DEER CREEK MINE SEDIMENT POND DISCHARGE - DC Combined Discharge (SUM-A)

MONTH: October  
 YEAR: 2016

### POUNDS OF SALT DISCHARGE

No Discharge for October

	INPUT TDS LEVEL	LBS./ GALLON	INPUT DISCHARGE RATE (GPM)	TONS OF SALT/DAY	POUNDS PER/DAY	INPUT # OF DAYS	TOTAL TONS OF SALT DISCHARGE/MONTH
MONTHLY AVERAGE	0	0.000	0.0	0.00	0.00	31	0.00
SAMPLE AVERAGE	0	0.000	0.0	0.00	0.00	31	0.00
SAMPLE MAXIMUM	0	0.000	0.0	0.00	0.00		
SAMPLE MINIMUM	0	0.000	0.0	0.00	0.00		
TOTAL GALLONS DISCHARGE FOR			October		0		

DMR REPORTING:      MAX. = Sampled TDS(1 sample) with sampled flow rate.  
 AVG. = Sampled TDS(1 sample) with sampled flow rate.

DAYS OF DISCHARGE:      31 DAYS

SAMPLE AVERAGE TDS =1 SAMPLE      Mean =      0 mg/l

SAMPLE AVERAGE FLOW =      0 GPM

DURATION OF DISCHARGE =      31 Days

AVERAGE FLOW      0.0 GPM      0 GPD

MAXIMUM FLOW      0 GPM      0 GPD

# DEER CREEK MINE SEDIMENT POND DISCHARGE - DC Combined Discharge (SUM-A)

MONTH: November  
 YEAR: 2016

## POUNDS OF SALT DISCHARGE

No Discharge for November

	INPUT TDS LEVEL	LBS./ GALLON	INPUT DISCHARGE RATE (GPM)	TONS OF SALT/DAY	POUNDS PER/DAY	INPUT # OF DAYS	TOTAL TONS OF SALT DISCHARGE/MONTH
MONTHLY AVERAGE	0	0.000	0.0	0.00	0.00	30	0.00
SAMPLE AVERAGE	0	0.000	0.0	0.00	0.00	30	0.00
SAMPLE MAXIMUM	0	0.000	0.0	0.00	0.00		
SAMPLE MINIMUM	0	0.000	0.0	0.00	0.00		
TOTAL GALLONS DISCHARGE FOR			November		0		

DMR REPORTING: MAX. = Sampled TDS(1 sample) with sampled flow rate.  
 AVG. = Sampled TDS(1 sample) with sampled flow rate.

DAYS OF DISCHARGE: 30 DAYS  
 SAMPLE AVERAGE TDS =1 SAMPLE Mean = 0 mg/l  
 SAMPLE AVERAGE FLOW = 0 GPM  
 DURATION OF DISCHARGE = 30 Days  
 AVERAGE FLOW 0.0 GPM 0 GPD  
 MAXIMUM FLOW 0 GPM 0 GPD