

**STATE OF
COLORADO****Cazier - DNR, Tim** <tim.cazier@state.co.us>

VLF2 Data (Liner Investigation)

1 message

Justin Bills <Justin.Bills@newmont.com>

Tue, May 22, 2018 at 12:56 PM

To: "Cazier - DNR, Tim" <tim.cazier@state.co.us>, Elliott Russell - DNR <elliott.russell@state.co.us>, Amy Eschberger - DNR <amy.eschberger@state.co.us>

Cc: Tony Waldron <tony.waldron@state.co.us>, Meg Burt <Margaret.Burt@newmont.com>, Gary Horton <Gary.Horton@newmont.com>, Ronald Parratt <Ronald.Parratt@newmont.com>, Linda White <Linda.White@newmont.com>

Tim,

Attached are the daily LDS inspection forms from April 25 to May 21, 2018. I have also included an attachment with progress photos of the VLF2 investigation area.

Below is a table summarizing the CN results for the VLF2 pumpback vault.

Location	Date	WAD CN (mg/L)
SGVLF Pumpback Vault	4/5/2018	<0.01
SGVLF Pumpback Vault	4/17/2018	<0.01
SGVLF Pumpback Vault	4/24/2018	<0.01
SGVLF Pumpback Vault	5/2/2018	<0.01
SGVLF Pumpback Vault	5/8/2018	<0.01

Please let me know if you have any questions.

Thank you,



Justin Bills

Senior Environmental Specialist

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Newmont Mining Corporation

Cripple Creek and Victor Gold Mining Co.

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2 attachments



ProgressPhotos.pdf

1266K



LDS_Inspections_42518to52118.pdf

1826K

05/09/18



05/14/18



5/17/18



5/21/18



Date: 4/26/18
Int. LT

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm 1200660
Pump 1 8.1
Pump 2 7.8

VLF 2

Squaw Gulch Pump Back -

Totalizer/Gpm 1113454
Pump 1 46.4
Pump 2 43.8

VLF 2 Leak Detection System

		Total Gallons	Sampled		Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed		Comments								
#1	Y <u>(N)</u>		Y	N	<u>08:11</u>					
#2	Y <u>(N)</u>		Y	N	<u>07:56</u>					
#3	Y <u>(N)</u>		Y	N	<u>08:04</u>					

Comments:

Date: 4/27/18

Int. Zac Cook

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm 1204858/0

Pump 1 11.3

Pump 2 10.8

VLF 2

Squaw Gulch Pump Back -

Totalizer/Gpm 1113454/0

Pump 1 43.8

Pump 2 46.4

VLF 2 Leak Detection System

		Total Gallons	Sampled		Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed		Comments	Y	N	:					
#1	Y (N)		Y	N	9 : 03					
#2	Y (N)		Y	N	9 : 07					
#3	Y (N)		Y	N	9 : 15					

Comments:

Date: 4-28-18

Int. 2c

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm 1208716 / 18

Pump 1 7.0

Pump 2 7.4

VLF 2

Squaw Gulch Pump Back -

Totalizer/Gpm 111 3454 / 0

Pump 1 46.4

Pump 2 43.8

VLF 2 Leak Detection System

		Total Gallons	Sampled		Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed		Comments	Y	N	:					
#1	Y <u>(N)</u>		Y	N	:					
#2	Y <u>(N)</u>		Y	N	:					
#3	Y <u>(N)</u>		Y	N	:					

Comments:

Date: 4-29-18

Int. 25

Field Inspection Report Form
SG/VLF 2/LDS

1212719/0

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm

~~1113454~~

Pump 1 12.1

Pump 2 11.6

VLF 2

Squaw Gulch Pump Back -

Totalizer/Gpm

1113454/0

Pump 1 46.4

Pump 2 43.8

VLF 2 Leak Detection System

	Water Observed	Comments	Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
				Y N	:					
#1	Y <u>N</u>			Y N	:					
#2	Y <u>N</u>			Y N	:					
#3	Y <u>N</u>			Y N	:					

Comments:

Date: 4/30/18

Int. DE

Field Inspection Report Form

SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -
7:27 AM

Totalizer/Gpm 1216912/0 Gpm

Pump 1 13.0

Pump 2 12.3

VLF 2

Squaw Gulch Pump Back -
7:10 AM

Totalizer/Gpm 1113454/0 Gpm

Pump 1 46.4

Pump 2 43.8

VLF 2 Leak Detection System

Water Observed		Comments	Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
				Y N	:					
#1	Y (N)	Dry	N/A	Y (N)	7:23 AM	N/A	N/A	N/A	N/A	N/A
#2	Y (N)	Dry	N/A	Y (N)	7:24 AM	N/A	N/A	N/A	N/A	N/A
#3	Y (N)	Dry	N/A	Y (N)	7:33 AM	N/A	N/A	N/A	N/A	N/A

Comments:

Date: 5/1/18

Int. DE

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -
7:10 AM

Totalizer/Gpm 1221085/0 Gpm
Pump 1 8.3
Pump 2 8.0

VLF 2

Squaw Gulch Pump Back -

7:25 AM

Totalizer/Gpm 1113454/0 Gpm
Pump 1 46.4
Pump 2 43.8

VLF 2 Leak Detection System

		Total Gallons	Sampled		Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed			Y	N	:					
#1	Y (N)	Dry	N/A	Y (N)	6:35 AM	N/A	N/A	N/A	N/A	N/A
#2	Y (N)	Dry	N/A	Y (N)	6:45 AM	N/A	N/A	N/A	N/A	N/A
#3	Y (N)	Dry	N/A	Y (N)	6:50 AM	N/A	N/A	N/A	N/A	N/A

Comments:

Date: 5/2/18
Int. DE

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -
7:25 AM

Totalizer/Gpm 1225231 / 0 GPM
Pump 1 8.5
Pump 2 8.0

VLF 2

Squaw Gulch Pump Back -
7:47 AM
Totalizer/Gpm 1113454 / 0 GPM
Pump 1 46.4
Pump 2 43.8

VLF 2 Leak Detection System

Water Observed		Comments	Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
#1	Y	<u>(N)</u>		Y <u>(N)</u>	<u>7:35 AM</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
#2	Y	<u>(N)</u>	<u>N/A</u>	Y <u>(N)</u>	<u>7:23 AM</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
#3	Y	<u>(N)</u>	<u>N/A</u>	Y <u>(N)</u>	<u>7:30 AM</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Comments:

Int. DE

Squaw Gulch

Totalizer/Gpm 1229372/06Gpm
Pump 1 7.0
Pump 2 6.9

VLF 2

Squaw Gulch Pump Back - Totalizer/Gpm 113454/06GPM
7:14 AM
Pump 1 46.2
Pump 2 43.8

			Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed	Comments		N/A	Y (N)	N/A	N/A	N/A	N/A	N/A	N/A
#1	Y (N)	Dr	N/A	Y (N)	7:25 AM	N/A	N/A	N/A	N/A	N/A
#2	Y (N)	Dr	N/A	Y (N)	7:28 PM	N/A	N/A	N/A	N/A	N/A
#3	Y (N)	Dr	N/A	Y (N)	7:35 PM	N/A	N/A	N/A	N/A	N/A

Comments:

Date: 5-5-18

Int. CB

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm 1233492
Pump 1 9.8
Pump 2 9.5

VLF 2

Squaw Gulch Pump Back -

Totalizer/Gpm 1113545
Pump 1 6.8
Pump 2 6.4

VLF 2 Leak Detection System

Water Observed			Comments	Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
#1	Y	<u>N</u>			Y <u>N</u>	<u>6 : 45</u>					
#2	Y	<u>N</u>			Y <u>N</u>	<u>7 : 00</u>					
#3	Y	<u>N</u>			Y <u>N</u>	<u>7 : 15</u>					
						<u>7 : 35</u>					

Comments:

Date: 5-6-18

Int. CB

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm 1233492
Pump 1 4.6
Pump 2 9.5

VLF 2

Squaw Gulch Pump Back - Totalizer/Gpm 113454
Pump 1 46.2
Pump 2 43.8

VLF 2 Leak Detection System

Water Observed		Comments	Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
#1	Y <u>N</u>			Y <u>N</u>	<u>6:35</u>					
#2	Y <u>N</u>			Y <u>N</u>	<u>6:45</u>					
#3	Y <u>N</u>			Y <u>N</u>	<u>6:50</u>					
				Y <u>N</u>	<u>7:00</u>					

Comments:

Date: 5-7-18

Int. ZAC

Field Inspection Report Form

SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm 1245722 / 0

Pump 1 13.2

Pump 2 12.7

VLF 2

Squaw Gulch Pump Back -

Totalizer/Gpm 1113454 / 0

Pump 1 46.2

Pump 2 43.8

VLF 2 Leak Detection System

Water Observed		Comments	Total Gallons	Sampled		Time	pH	Temp. C	Cond	D.O.	O & G
				Y	N	:					
#1	Y	(N)		Y	(N)	8 : 15					
#2	Y	(N)		Y	(N)	8 : 20					
#3	Y	(N)		Y	(N)	8 : 32					

Comments:

Date: 5-8-18

Int. ZAC

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm 1249903 / 0
Pump 1 11.0
Pump 2 10.3

VLF 2

Squaw Gulch Pump Back -

Totalizer/Gpm 1113454 / 0
Pump 1 46.2
Pump 2 43.8

VLF 2 Leak Detection System

Water Observed		Comments	Total Gallons	Sampled		Time	pH	Temp. C	Cond	D.O.	O & G
				Y	N	:					
#1	Y	<u>(N)</u>		Y	<u>(N)</u>	<u>7:45</u>					
#2	Y	<u>(N)</u>		Y	<u>(N)</u>	<u>7:50</u>					
#3	Y	<u>(N)</u>		Y	<u>(N)</u>	<u>8:00</u>					

Comments:

Date: 5-10-18
Int. ZAC

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm	1258065 / 18
Pump 1	9.8
Pump 2	9.3

VLF 2

Squaw Gulch Pump Back -	Totalizer/Gpm	1113459/0
	Pump 1	46.2
	Pump 2	34.8

VLF 2 Leak Detection System

		Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed	Comments		Y N	:					
#1 Y N			Y N	7 : 30					
#2 Y N			Y N	7 : 37					
#3 Y N			Y N	7 : 40					

Comments:

Date: 5-11-18 / 08:30

Int. Chad Chess

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm 1262381
Pump 1 13.2
Pump 2 12.7

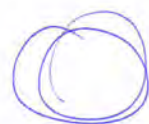
VLF 2

Squaw Gulch Pump Back - Totalizer/Gpm 1113454
Pump 1 43.8
Pump 2 46.2

VLF 2 Leak Detection System

		Total Gallons	Sampled		Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed										
#1	Y (N)		Y	N	8:30					
#2	Y (N)		Y	N	8:30					
#3	Y (N)		Y	N	8:30					

Comments:



Date: 5-12-18
Int. BP

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm 1266760-0gpm
Pump 1 7.4
Pump 2 6.9

VLF 2

Squaw Gulch Pump Back - Totalizer/Gpm 1113454-0gpm
Pump 1 45.9
Pump 2 43.8

VLF 2 Leak Detection System

Water Observed		Comments	Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
				Y N	:					
#1	Y	(N)		Y N	9 : 00					
#2	Y	(N)		Y N	9 : 15					
#3	Y	(N)		Y N	9 : 30					

Comments:

Date: 5/13/18 07:30

Int. Chad Chess

Field Inspection Report Form

SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm 1270349
Pump 1 9.1
Pump 2 8.8

VLF 2

Squaw Gulch Pump Back - Totalizer/Gpm 1113454
Pump 1 45.9
Pump 2 43.8

VLF 2 Leak Detection System

		Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed			Y N	07:30					
#1	Y ☒ N		Y N	07:30					
#2	Y ☒ N		Y N	07:35					
#3	Y ☒ N		Y N	07:40					

Comments:

Date: 5-14-18

Int. Cowley

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -
71.14

Totalizer/Gpm 1274195 ☒
Pump 1 14.0
Pump 2 13.3

VLF 2

Squaw Gulch Pump Back - Totalizer/Gpm 1113454 ☒
Pump 1 45.9
Pump 2 43.8

VLF 2 Leak Detection System

		Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed			Y ☒	:					
#1	Y ☒		Y ☒	6 : 45 AM					
#2	Y ☒		Y ☒	6 : 50 AM					
#3	Y ☒		Y ☒	6 : 55 AM					

Comments:

Date: 5-15-18

Int. Con

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -
70.74

Totalizer/Gpm 1278238

Pump 1 6.8

Pump 2 6.3

VLF 2

Squaw Gulch Pump Back - Totalizer/Gpm 1113454

Pump 1 45.9

Pump 2 43.8

VLF 2 Leak Detection System

		Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed			Y	6 : 45					
#1	Y		Y	6 : 45					
#2	Y		Y	6 : 45					
#3	Y		Y	6 : 45					

Comments:

Date: 5-16-18

Int. Co-4

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -
69.85

Totalizer/Gpm 1282127

Pump 1 10.4

Pump 2 9.7

VLF 2

Squaw Gulch Pump Back - Totalizer/Gpm 1113454 0

Pump 1 45.9

Pump 2 43.8

VLF 2 Leak Detection System

		Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed			Y ☒	<u>6 : 30</u>					
#1	Y ☒		Y ☒	<u>6 : 30</u>					
#2	Y ☒		Y ☒	<u>6 : 30</u>					
#3	Y ☒		Y ☒	<u>6 : 30</u>					

Comments:

Date: 5-17-18

Int. Co. 4

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -
68.96

Totalizer/Gpm 1286177 Q
Pump 1 6.4
Pump 2 5.9

VLF 2

Squaw Gulch Pump Back - Totalizer/Gpm 1113454
Pump 1 45.9
Pump 2 43.8

VLF 2 Leak Detection System

		Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed			Y ☒	<u>07:00</u>					
#1	Y ☒		Y ☒	<u>07:00</u>					
#2	Y ☒		Y ☒	<u>07:00</u>					
#3	Y ☒		Y ☒	<u>07:00</u>					

Comments:

Date: 5/18/18

Int. JS

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -
6:40^A

Totalizer/Gpm 1290035 / 0

Pump 1 9.6

Pump 2 9.1

VLF 2

Squaw Gulch Pump Back - Totalizer/Gpm 1113454 / 0

7:30^A

Pump 1 45.9

Pump 2 43.6

VLF 2 Leak Detection System

		Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
Water Observed			Y ☒ N						
#1	Y ☒ N	<u>Dry</u>	<u>N/A</u>	Y ☒ N	<u>6 : 40 AM</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
#2	Y ☒ N	<u>Dry</u>	<u>N/A</u>	Y ☒ N	<u>6 : 45 AM</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
#3	Y ☒ N	<u>Dry</u>	<u>N/A</u>	Y ☒ N	<u>8 : 15 AM</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Comments:

Date: 5-19-18

Int. JS

Field Inspection Report Form
SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -

6:25

Totalizer/Gpm

1293847-0

Pump 1 6.4

Pump 2 6.2

VLF 2

Squaw Gulch Pump Back -

Totalizer/Gpm

1115454-0

Pump 1 45.9

Pump 2 43.6

6:45

VLF 2 Leak Detection System

Water Observed			Comments	Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
#1	Y	(N)	Dry	N/A	Y (N)	6 : 30	N/A	N/A	N/A	N/A	N/A
#2	Y	(N)	Dry	N/A	Y (N)	6 : 15	N/A	N/A	N/A	N/A	N/A
#3	Y	(N)	Dry	N/A	Y (N)	6 : 22	N/A	N/A	N/A	N/A	N/A

Comments:

Int. DE

Squaw Gulch

VLF 2 LVLC -
7:47

Totalizer/Gpm	1297650 / 0 GPM
Pump 1	13.8
Pump 2	13.1

VLF 2

Squaw Gulch Pump Back - Totalizer/Gpm 113454 / 7 GPM
10:59 Pump 1 45.9
Pump 2 43.6

Water Observed			Comments	Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
#1	Y	N	Dry	0	Y	N	7:44	N/A	N/A	N/A	N/A
#2	Y	N	Dry	0	Y	N	7:45	N/A	N/A	N/A	N/A
#3	Y	N	Dry	0	Y	N	7:52	N/A	N/A	N/A	N/A

Comments:

Date: 5-21-18 / 7:00 am

Int. C. Chess

Field Inspection Report Form

SG/VLF 2/LDS

Squaw Gulch

VLF 2 LVLC -

Totalizer/Gpm 1301446

Pump 1 9.3

Pump 2 8.8

VLF 2

Squaw Gulch Pump Back -

Totalizer/Gpm 1113454

Pump 1 43.0

Pump 2 45.9

VLF 2 Leak Detection System

Water Observed		Comments	Total Gallons	Sampled	Time	pH	Temp. C	Cond	D.O.	O & G
#1	Y	N		Y N	7:15					
#2	Y	N		Y N	7:20					
#3	Y	N		Y N	7:25					

Comments: