

## Gas Bubble Monitoring Program Two Week GBT Monitoring Report

Date 5/20/2019 5:15:23 PM

Page 1 of 4

### LOWER GRANITE DAM

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
05/10/2019	CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0
05/17/2019	CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0

### LITTLE GOOSE DAM

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
05/07/2019	CH1+ST	100	8	7	7.00 %	0.00 %	7	0	0	0
05/14/2019	CH1+ST	100	4	4	4.00 %	0.00 %	4	0	0	0
05/21/2019	CH1+ST	100	2	2	2.00 %	0.00 %	2	0	0	0



Samples highlighted in yellow indicate that the sample size criteria of 100 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT and, therefore, no estimate is provided.

The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)

## Gas Bubble Monitoring Program Two Week GBT Monitoring Report

Date 5/20/2019 5:15:23 PM

Page 2 of 4

### LOWER MONUMENTAL DAM

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
05/08/2019	CH1+ST	100	2	2	2.00 %	0.00 %	2	0	0	0
05/15/2019	CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0

### McNARY DAM

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
05/07/2019	CH1+ST	100	1	1	1.00 %	0.00 %	1	0	0	0
05/11/2019	CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0
05/15/2019	CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0
05/19/2019	CH1+ST	100	1	1	1.00 %	0.00 %	1	0	0	0
05/21/2019	CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0



Samples highlighted in yellow indicate that the sample size criteria of 100 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT and, therefore, no estimate is provided.

The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)

## Gas Bubble Monitoring Program Two Week GBT Monitoring Report

Date 5/20/2019 5:15:23 PM

Page 3 of 4

### BONNEVILLE DAM

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
05/07/2019	CH1+ST	100	1	1	1.00 %	0.00 %	1	0	0	0
05/12/2019	CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0
05/15/2019	CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0
05/19/2019	CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0

### ROCK ISLAND DAM (ALL FISH)

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
05/07/2019	CH1+ST	100	2	2	2.00 %	0.00 %	2	0	0	0
05/09/2019	CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0
05/14/2019	CH1+ST	100	2	2	2.00 %	0.00 %	1	1	0	0
05/16/2019	CH1+ST	100	1	1	1.00 %	0.00 %	1	0	0	0



Samples highlighted in yellow indicate that the sample size criteria of 100 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT and, therefore, no estimate is provided.

The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)

## Gas Bubble Monitoring Program Two Week GBT Monitoring Report

Date 5/20/2019 5:15:23 PM

Page 4 of 4

### ROCK ISLAND DAM ("TRADITIONAL" EXAMS ONLY)

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
05/07/2019	ST	19	0	0			0	0	0	0

### ROCK ISLAND DAM ("FRESH" EXAMS ONLY)

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
05/07/2019	CH1+ST	81	2	2			2	0	0	0
05/09/2019	CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0
05/14/2019	CH1+ST	100	2	2	2.00 %	0.00 %	1	1	0	0
05/16/2019	CH1+ST	100	1	1	1.00 %	0.00 %	1	0	0	0



Samples highlighted in yellow indicate that the sample size criteria of 100 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT and, therefore, no estimate is provided.

The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)