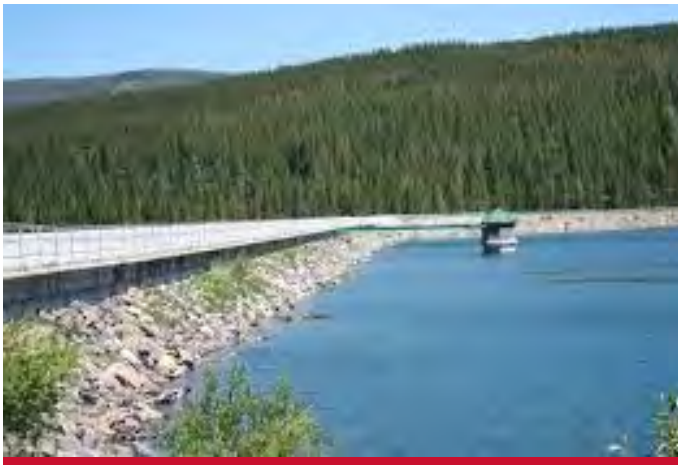


Middle Creek (Hyalite) Dam

MT DNRC Dam Breach

Breach Analyses, Inundation Mapping, and Loss of Life Determination

Middle Creek
June 19, 2017

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1 Introduction

The purpose of this report is to present the methodology and results of the dam breach analysis, inundation mapping, and loss of life determinations performed for the Montana Department of Natural Resources and Conservation's (DNRC) Middle Creek Dam, which is located on Hyalite Creek in Gallatin County, Montana. This report details the development of a Simplified Breach and an Overtopping Breach, the respective inundation maps for the Overtopping Breach, and the loss of life determination for the Simplified Breach.

2 Background Information

According to the Operations and Maintenance (O&M) Manual (Reference 11), the Middle Creek Dam is located on Hyalite Creek in Gallatin County, approximately 16 miles south of Bozeman, Montana. The reservoir has a capacity of 12,790 acre-feet at the dam crest, and floods 490 acres at the normal pool level. According to the O&M Manual, the project is owned and operated by DNRC. The earth fill dam was completed in 1951. The Middle Creek Dam is 125 feet high and 1,900 feet long. The dam's principal spillway has a labyrinth crest with an existing capacity of 3,325 cfs. The auxiliary spillway has a capacity of 30,101 cfs.

Under the direction of the State Water Project Bureau of the DNRC, the present study consists of two breach scenarios: 1) the Simplified Breach and 2) the Overtopping Breach. The characteristics of the Simplified Breach are referenced from Section 4.0 of DNRC's Technical Note 3 (Reference 14). As specified in Technical Note 3, the Simplified Breach is an overtopping breach which occurs with the reservoir's water surface elevation equal to the top of the dam, but with no downstream baseflow or additional discharge related to the spillway or outlet works.

The Overtopping Breach is similar to the industry typical rainy day breach. The Overtopping Breach has an initial reservoir elevation equal to the principal spillway crest. Given that the dam will likely be releasing water at this stage, the Overtopping Breach baseflow accounts for discharge through the outlet works. In addition, the Overtopping Breach analysis also assumes that the receiving streams have a baseflow. In agreement with DNRC, it was decided that the immediate stream would be experiencing a 100-yr event with other receiving streams experiencing similar coincident events. Determination of the baseflow is described in Section 3 of this report. Once a steady state is witnessed in the downstream waters, the reservoir receives the probable maximum flood (PMF). The PMF was provided by DNRC (Reference 12) and is available in Appendix A. As the PMF inflow begins to increase the elevation of the reservoir, the breach occurs at the peak in the PMF, because an initial run indicated the water surface within reservoir did not reach the dam crest during the PMF event.

It was decided by DNRC personnel that both breaches would be analyzed to the extent where the breach wave discharge of the Simplified Breach was less than the 100-yr

discharge. Further detailed description of each scenario's methodology and results are described in the following sections.

3 Hydrologic Analysis

In order to determine the baseflow values realized by the receiving waters during the Overtopping Breach, a hydrologic analysis was performed for the dam's receiving streams in order to calculate peak-flow discharge values. The progressive order of methods for determining accurate and appropriate values is as follows:

1. Review of effective Flood Insurance Studies (FIS) as produced by FEMA,
2. Review of peak-flow frequency data for applicable stream flow gaging stations,
3. Stream gage adjustments based on drainage area ratios or interpolation of drainage areas, and
4. Calculations using appropriate regional regression equations.

Where available, FIS reports for Gallatin and Broadwater counties (References 5 and 6) were reviewed for discharge values. In locations where FEMA data was unavailable, the methods described in the following paragraphs were utilized.

Additional peak-flow data for locations not specified in the FIS reports were obtained from USGS gage stations. Table 1-2 in Chapter F of the USGS Montana StreamStats Scientific Investigations Report 2015-5019 (SIR 2015-5019) (Reference 9) provides peak-flow discharge values for selected gage stations. Ungaged locations on gaged streams were analyzed using stream gage adjustments including both drainage area ratio adjustments and log interpolation between two gaged locations. Equation 6 and Equation 7 from Chapter F of SIR 2015-5019 were used for the drainage area ratio adjustments and interpolations, respectively. Attention was given to ensure the drainage area ratios were less than 0.5 or greater than 1.5 per the guidance in SIR 2015-5019.

For locations on ungaged streams or outside the aforementioned allowable drainage area ratios, discharge values were calculated using regional regression equations described in SIR 2015-5019. Regional regression equations were based on the hydrologic region of the respective stream. The analyzed streams of the present study are located in the Upper-Yellowstone-Central Mountain and Southwest hydrologic regions. The basin characteristics used to calculate each regression equation were obtained from the online version of StreamStats (StreamStats 4.0 (Reference 23)). The characteristics were reviewed to ensure they were within the limits of the equations per Table 3 in Chapter F of SIR 2015-5019.

Due to the size of the floodwave and its effect on Hyalite Creek in addition to the West Gallatin and Gallatin River, the hydrologic analysis required the consideration of coincidental events between immediate streams and receiving streams. The accepted approach for this was to base coincidental events on drainage area sizes per FHWA's guidance presented in HEC-22 (Reference 7) and listed in Table 3-1.

Table 3-1. Events of Coincidental Occurrence Based on Drainage Area

Drainage Area Ratio	100-Year Design	
	Main Stream	Tributary
10,000 to 1	2	100
	100	2
1,000 to 1	10	100
	100	10
100 to 1	25	100
	100	25
10 to 1	50	100
	100	50
1 to 1	100	100
	100	100

Drainage area ratios between immediate streams and receiving streams were calculated and the ratio was then used to determine which event would be used for baseflows in the receiving streams. The resulting ratios and assigned events are listed in Table 3-2.

Table 3-2. Results of Coincidental Occurrence Analysis

Dam	Stream	Drainage Area[1] (mi^2)	Calculated Ratio	Utilized Ratio	Peak Flow Event
Middle Creek	Middle Creek	112	10 to 1	10 to 1	100
	West Gallatin	1,100			50
	Middle Creek	112	108 to 1	100 to 1	50
	Missouri River	12,126			25

As noted in Table 3-2, the results for the Middle Creek hydrologic analysis show that while the Middle Creek witnesses a 100-yr event, the West Gallatin and Missouri River were estimated to have coincident events equal to a 50- and 25-yr, respectively. Results for the hydrologic analysis are listed below in Table 3-3.

Table 3-3. Results of Hydrologic Analysis for Middle Creek Dam

Location	Event	Discharge (cfs)	Source
Middle Creek at Hyalite Ranger Station	100-yr	1,110	StreamStats
Middle Creek by Gooch Hill Rd	100-yr	1,150	StreamStats
West Gallatin River at Confluence with East Gallatin River	50-yr	9,535	FEMA
Missouri River at confluence with Gallatin River	25-yr	57,748	StreamStats

4 Terrain Development

The terrain utilized for the hydraulic analyses consists of a combination of data consisting of the following sources:

- Light Detection and Radar (LiDAR) received from the Floodplain Division of the DNRC. The data utilized in the present study was acquired in 2013 by Photo Science (References 16). The data was supplied in Montana State Plane with units of feet using the NAD83 horizontal datum and the NAVD88 vertical datum.
- USGS 10-m Digital Elevation Models (DEM) were downloaded from the USGS' National Map data download service (Reference 22). The data was supplied in GCS North American Datum 1983 with units of feet using the NAD83 horizontal datum and the NAVD88 vertical datum.
- 5-m grids gathered through interferometric synthetic aperture radar (IFSAR) acquired by Intermap, Inc. The data was purchased by DNRC through Digital Data Services (DDS) in November 2016 (Reference 9). The bare earth grid files received from DDS use the NAD83 horizontal datum, the NAVD88 vertical datum, and were converted from meters to feet.

Preliminary analyses utilized the tiles of the LiDAR and 10-m data mosaicked together using the RAS Mapper utility of U.S. Army Corps of Engineers Hydraulic Engineer Center's River Analysis System Version 5.0.3 (HEC-RAS) (Reference 17). Where the two datasets overlapped, the LiDAR overrode the less accurate 10-m data. This mosaicked dataset was utilized to develop the project extents of the analyzed breach. The determination of the breach extents is described in Section 5.2.1. Once the extents were determined, the purchased 5-m data was utilized to replace the 10-m dataset. The extents of the utilized topographic sources are displayed in Appendix B.

5 Hydraulic Analyses

The hydraulic analyses consisted of analyzing two breach scenarios: 1) the Simplified Breach and 2) the Overtopping Breach. The characteristics of the Simplified Breach are referenced from Section 4.0 of DNRC's Technical Note 3. As specified in Technical Note 3, the Simplified Breach is an overtopping breach which occurs with the reservoir's water surface elevation equal to the top of the dam, but with no downstream baseflow or additional discharge related to the spillway or outlet works.

The Overtopping Breach has an initial reservoir elevation equal to the principal spillway crest. Given that the dam will likely be releasing water at this stage, the Overtopping Breach includes a baseflow accounting for discharge through the outlet works. This baseflow value equals the discharge (i.e. 1,004 cfs) corresponding to the initial elevation of the reservoir as described in the O&M Manual (Reference 11). In addition, the Overtopping Breach analysis also assumes that the receiving streams have a baseflow due to runoff local to the respective streams. In agreement with DNRC, it was decided that the immediate stream would be experiencing a 100-yr event with other receiving streams experiencing similar coincident events. Determination of the baseflow is described in Section 3 of this report. Once a steady state is witnessed in the downstream

waters, the reservoir receives the probable maximum flood (PMF) inflow hydrograph. The PMF hydrograph was provided by DNRC (Reference 12). As the PMF begins to increase the elevation of the reservoir, the breach occurs at the peak in the PMF, because an initial run indicated the water surface within reservoir did not reach the dam crest during the PMF.

5.1 Breach Parameter Development

Dam breach parameters define the development of a dam breach and include: breach height (h_b), breach width (B), breach side slopes (m), and time to full breach formation (t_f). As stated in DNRC's Technical Note 3, the dam breach parameters of average breach width and breach development time were calculated using the equations developed in 2008 by Dr. David Froehlich (Reference 8).

As specified under Section 4.1.4 within Technical Note 3, the Simplified Breach is assumed to occur with the reservoir's water surface elevation located at the top of the dam. Therefore, the total volume of reservoir at the top of dam (V_w) and total height of the dam (H_w) were utilized. It should be noted that, contrary to the recommended vertical side slopes defined in Technical Note 3, Section 4.1.4.1, the breaches of the present study assume a 1:1 side slope, as recommended by Froehlich. Using the Breach Parameter Calculator available in HEC-RAS, the dam characteristics of top of dam elevation, breach bottom elevation, reservoir elevation at failure, and pool volume at failure were utilized to calculate the breach parameters of final bottom width, final bottom elevation, and breach formation time. The breach parameters employed in the present study are identified in Table 5-1 and were referenced from the O&M Manual.

Table 5-1. Breach Parameters for Middle Creek Dam

Parameter	Simplified Breach	Overtopping Breach
Dam Type	Earthen	Earthen
Failure Model	Overtopping	Overtopping
Dam Crest Elev (ft NAVD88)	6734.67	6734.67
Starting Reservoir Elev (ft NAVD88)	6734.67	6725.67
Breach Bottom Elev (ft NAVD88)	6609.67	6610.47
Breach Height (ft)	125	124.2
Breach Volume (ac-ft)	12,790	12,560.6
Breach Side Slopes (H:V)	1:1	1:1
Time to Full Breach Formation (hr)	0.58	0.58

5.2 Hydraulic Modeling

The modeling of the breaches was performed using the two dimensional (2-D) finite volume solution available within HEC-RAS (Reference 17). Due to the large forces and contraction associated with a breach, the models were analyzed using the Full

Momentum Equations. In order to satisfy the Courant Condition requirement of less than one (Reference 20) for a Full Momentum Solution, a timestep of one second was employed which accounts for a maximum velocity of 20 feet per second and a grid size of 100 feet. These values are referenced from the max velocity noted in the model domain along with the respective grid size. The Courant equation is as follows:

$$C = \frac{V\Delta T}{\Delta X}$$

In which C is the dimensionless Courant number, the variable V represents the velocity, T is the timestep, and X is the associated grid spacing. This timestep was smaller than that required to satisfy the Courant Condition, but was used for model stability purposes.

A Storage Area was used to simulate the reservoir, along with a Storage Area/2D Connector used to connect the reservoir to the 2-D flow area and simulate the embankment. The use of a storage area to simulate the reservoir results in a conservative determination of the flood wave because level pool routing is assumed, which does not account for the time it takes for flows to migrate through the narrow reservoir to the breached area of the dam. This analysis method was selected because it was consistent with the scope of the project.

5.2.1 Simplified Breach Analysis

As previously mentioned, the first breach scenario (Simplified Breach) consisted of a reservoir pool elevation equal to the top of the dam, but does not account for the possible discharges associated with the spillway and outflow structure. This breach was also performed void of any additional downstream discharges.

The Simplified Breach was also utilized to determine the streamwise extents of the modeling domain. In agreement with DNRC, it was decided that the modeling domain would be terminated where the peak discharge of the Simplified Breach was less than the calculated 100-year discharge. For the present study, this occurs along the Missouri River, downstream of Three Forks, MT, where the 100-yr discharge equals 80,700 cfs and the floodwave of the Simplified Breach has attenuated to approximately 5,900 cfs.

5.2.2 Overtopping Breach Analysis

In addition to the Simplified Breach Method, an Overtopping Breach analysis was also performed. The Overtopping Breach has an initial reservoir elevation equal to the principal spillway crest. Given that the dam will likely be releasing water at this stage, the Overtopping Breach includes a baseflow accounting for discharge through the outlet works. The definition of discharge through the outlet works was determined using the discharge capacities described in the O&M Manual (Appendix C). As previously mentioned, the Overtopping Breach was simulated to be coincident with an extreme flow event. As described in Section 3, a baseflow rate equal to the 100-year discharge of Middle Creek was included while the West Gallatin and Missouri River experience the 50-yr and 25-yr events. These discharges were incrementally added to the baseflow of the model at locations corresponding to larger tributaries in order to meet the calculated discharges outlined in Section 3. For example, given the baseflow of 1,004 cfs coming from the outflow structure (Reference 11), an additional 106 cfs was added to meet the 100-yr discharge (1,140 cfs) of Middle Creek near the Ranger Station (see Table 3-3).

Once, a steady state is witnessed in the downstream waters, the reservoir receives the PMF inflow hydrograph. The PMF hydrograph was provided by DNRC (Reference 12). As the PMF begins to increase the elevation of the reservoir, the spillway is activated referencing the discharge- elevation rating curve described in the O&M Manual (Appendix D). Given that the Middle Creek Dam has a full PMF spillway, the inflow into the reservoir does not exceed the available storage as well as the spillway discharge. Therefore, the breach was triggered to occur coincident with the peak of the PMF.

5.2.3 Friction Loss Coefficients

In order to account for the varying degrees of roughness within the flowpath and improve the accuracy of the hydraulic model, the 2011 National Land Cover Dataset (NLCD) (Reference 21) was employed. The various land uses identified in the NLCD were visually compared with aerial imagery and refined as necessary with assigned values referenced from the general values listed in Chow, 1959 (Reference 1). The Manning's values associated with the present breach are listed in Table 5-2.

Table 5-2. Landuses and Associated Manning's Values for Middle Creek Dam

Landuse/Area	Manning's Value
Turbulent Zone at Dam Toe	0.40
West Gallatin River Main Channel	0.04
West Gallatin River Slde Channels	0.045
Jefferson River Main Channel	0.03
Madison River Main Channel	0.03
Cultivated Crops	0.04
Deciduous Shrubland	0.085
Depressional Wetland	0.04
Developed, Low Intensity	0.045
Developed, Medium Intensity	0.08
Developed, Open Space	0.03
Forest and Woodland	0.15
Harvested Forest-grass Regeneration	0.035
Harvested Forest-Shrub Regeneration	0.085
Harvested Forest-Tree Regeneration	0.15
Herbaceous Marsh	0.065
Montane Grassland	0.035
Open Water	0.035
Pasture/Hay	0.035
Riparian Woodland and Shrubland	0.12
Sagebrush Steppe	0.04
Sagebrush-Dominated Shrubland	0.04
Sparse and Barren Systems	0.035
Wet Meadow	0.035

Due to the increased turbulence, sediment load, and debris witnessed at the toe of the dam during the breach, the Manning's value was increased to 0.40. This increase in the Manning's value was only performed at the toe of the dam, extending approximately 1,350' downstream. This reasoning follows the recommendations outlined in Using HEC-RAS for Dam Break Studies – TD-39 (Reference 20).

5.2.4 Boundary Conditions

Due to the baseflow requirement, the Overtopping Breach scenario requires an inflow hydrograph for each flow change location as well as an inflow into the reservoir in order to keep the reservoir at full pool while the outflow structure is active. During the development of the baseflow for the Overtopping Breach Scenario, it was imperative to

keep the reservoir at the spillway elevation to ensure that the PMF inflow occurred with the water surface elevation equal to the principal spillway crest. In order to achieve a constant pool, a lateral inflow hydrograph was assigned to the storage area. The base discharge assigned to the lateral inflow prior to the PMF occurrence equaled that of the outlet works at the spillway crest, which were referenced from the O&M Manual.

For each flow change location, a hydrograph was input to increase the baseflow incrementally to achieve the baseflow discharges listed in Table 3-3. The energy grade slope assigned to each input was assumed to approximate the friction slope (i.e. slope of the terrain) at each respective location.

The downstream boundary condition for each model is based on normal depth, with the energy grade slope being approximated by measuring the channel slope from the DEM and confirmed from model results.

5.2.5 Roadways and Hydraulic Structures

Inclusion of hydraulic structures and roadways within the flowpath provides a level of uncertainty when modeling dam breaches as it is unknown if the structure and associated embankment will be washed away during a breach. Adversely, inclusion of embankments within the flowpath allows for a potentially more realistic result in allowing the wave to attenuate behind the embankment. In order to balance the conservatism of the scope with the presence of the embankments in the flowpaths, no bridges or culverts were included in the analysis and only the roadways and embankments visible within the utilized topography were utilized.

5.3 Hydraulic Results

Results of the Simplified Breach and Overtopping Breach analyses for the Middle Creek Dam are listed in Table 5-3. It is noted that the Simplified Breach exhibits a greater discharge at the location of the breach. This is due to the level of the reservoir in the Simplified Breach being greater than that of the Overtopping Breach at the time of failure. However, due to the lack of downstream discharges and greater attenuation of peak flows, the discharge of the Simplified Breach is more rapidly reduced than that of the Overtopping Breach. Additional results are displayed on the inundation maps available in Appendix E. It should be noted that the locations listed in Table 5-3 do not reference the locations listed on the inundation maps.

Table 5-3. Specific Results for the Analyzed Breach Scenarios

	Simplified Breach				Overtopping Breach			
Location	Discharge (cfs)	Max Depth (ft)	Time to Arrival (hr)	Time to Peak (hr)	Discharge (cfs)	Max Depth (ft)	Time to Arrival (hr)	Time to Peak (hr)
Middle Creek Dam	394,599	65.4	0.00	0.50	392,426	65.3	0.00	0.45
Mouth of Hyalite Canyon	188,457	33.1	1.42	1.58	221,252	34.8	1.12	1.45
Huffine Lane	124,933	10.1	2.25	2.42	182,757	11.0	1.87	2.20
Interstate 90	41,208	8.1	3.58	4.17	111,045	11.8	2.87	3.62
West Gallatin at West Dry Creek Road	513	5.1	10.58	12.00	13,112	10.7	6.03	8.62
East Gallatin at West Dry Creek Road	12,431	8.7	6.92	8.00	48,271	10.4	4.70	5.62
North of Manhattan, MT	9,183	8.7	10.17	10.92	52,634	14.0	6.12	7.12
Logan, MT	7,348	6.4	13.00	14.58	47,009	14.6	7.37	10.12
Downstream Limit of Model	5,901	6.4	18.67	22.25	82,343	22.4	9.37	15.62

6 Inundation Mapping

Inundation maps of the Overtopping Breach scenario were developed using ESRI ArcMap 10.4.1 to display the depth grid of the Overtopping Breach produced by RAS Mapper. Within the maps, various cross sections and points of interest were identified highlighting effects on possible routes of transportation, impacted communities, and emergency management services. At these locations, the maximum discharge, maximum depth, maximum water surface elevation, time of arrival, and time to peak are listed. The basemap of the inundation maps is a cached ESRI Basemap service and is cited as 2015 NAIP imagery courtesy of the USDA. The inundation maps for the Overtopping Breach of the Middle Creek Dam are included in Appendix E.

7 Loss of Life Determination

Determination of the Loss of Life (LOL) value for the Middle Creek Dam was performed utilizing the results of the Simplified Breach along with the measures outlined in USBR's Reclamation Consequence Estimating Methodology (RCEM) (Reference 1) and the Graham Method outlined in USBR's DSO-99-06 (Reference 2) and DNRC's Dam Safety Program's Technical Note 2 (Reference 13). Details of each method are further outlined in the sections below. A summary of the inundation area and loss of life reaches are illustrated in Appendix F. Detailed summaries of each identified structure within the inundation boundary and its corresponding maximum depth, maximum velocity, arrival time, and fatality rate according to Graham and RCEM are available in Appendix G.

Figures of the inundated area displaying each identified structure are available in Appendix H.

7.1 Graham Method

DNRC's Dam Safety Program utilizes the LOL calculation prescribed by the Graham Method to assist in assessing risk for a respective dam. As stated in DSO-99-06, Graham's Method is broken into the following steps:

1. Determine dam failure scenarios to evaluate.
2. Determine time categories for which loss of life estimates are needed.
3. Determine when dam failure warnings would be initiated.
4. Determine area flooded for each dam failure.
5. Estimate the number of people at risk for each failure scenario and time category.
6. Apply empirically based equations or method for estimating fatalities.
7. Evaluate uncertainty.

These steps and their implementation within the present analysis are outlined in greater detail in the flowing sections.

1. **Determine the dam failure scenarios to evaluate.** The dam failure scenario utilized was specified as the Simplified Breach, per DNRC personnel and as outlined within DNRC's Technical Note 2. A description of the Simplified Breach scenario is described in Sections 2 and 5 of the present report.

2. **Determine time categories for which loss of life estimates are needed.** The LOL estimate is largely dependent upon the number of people at risk downstream, which is influenced by seasonality, day of week, and time of day. The time of breach also has a direct impact on the initiation of a warning time. In order to provide reasonable bounds for the final LOL estimate, the LOL calculation was performed using both a day and night breach category.

3. **Determine when dam failure warnings would be initiated.** According to DSO-99-06, determining the initiation of a warning is probably the most important part of estimating LOL. DSO-99-06 provides guidance for determining the initiation of the warning time based on data from select dam failures. The guidance depicted in Table 7-2, shows that more timely warnings are likely for day breaches when compared to night time breaches. For use in the present study, Middle Creek Dam has a drainage area of 27 mi^2 and is considered attended as it is a popular recreation location (including during the flood prone seasons), has DNRC and USGS gages located downstream, is used as a water source for a local municipality, is accessed by a paved road with close proximity to a highly populated area (i.e. Bozeman), and has an early warning system. Using Table 7-2, and the likelihood that there will be many observers at the dam during a possible breach, it was assumed that the warning would be initiated 0.25 hr

before the breach and 0.25 hr after the breach of the dam for the day and night breaches, respectively.

4. **Determine area flooded for the dam failure scenario.** In order to estimate the population at risk, inundation maps were developed using the results of the multidimensional hydraulic analysis for the Simplified Breach. The inundation areas were overlaid with the latest aerial imagery made available by ESRI's Basemap service and is cited as 2015 NAIP imagery courtesy of the USDA. These maps illustrate the specific locations utilized within the LOL calculations and are available in Appendix H.

5. **Estimate the number of people at risk for each failure scenario and time category.** DNRC's Technical Note 2 defines the number of people at risk, or population at risk (PAR), as the theoretical number of people potentially exposed to risk of death in the event of a dam failure. In order to simplify the PAR assessment, DNRC's Dam Safety Program states that any structure with the potential for human occupancy within the inundated area is considered to have population at risk of fatality. In order to assign the PAR for each location, Table 5-1 of Technical Note 2 was referenced. This table has been reproduced in Table 7-1. Using the guidance documented in Technical Note 2, the PAR listed in Table 7-1 is applied regardless of the time of day. Therefore, the total PAR of the day breach is equal to the PAR of the night breach. The PAR within the inundated area was calculated to be 21,215.

Table 7-1. Population at Risk Estimates for Structures

Structure	Estimated PAR
Residence	3
Farm shop building	2
Commercial building	10
Hospital	100
School	100
Municipal Park	10
Campground	30
Golf Course	30
Airport	30
Gravel Road	2
Paved Road	2
Railroad	2

While the airport category is listed in Table 7-1, Bozeman Yellowstone International Airport near Belgrade was assumed to have a greater average population than the 30 listed. Hence, the PAR value of 100 was assigned. In addition to the PAR types listed in Table 7-1, the inundation area also includes multiple churches. It was assumed that the approximate population of each church was 30.

Table 7-2. Definition of a Preliminary Warning Time for Middle Creek Dam

Dam Type	Cause of Failure	Special Considerations	Time of Failure	When Would Dam Failure Warning be Initiated?	
				Many Observers at Dam	No Observers at Dam
Earthfill	Overtopping	Drainage area at dam less than 100 mi^2 (260 km^2)	Day	0.25 hrs. before dam failure	0.25 hrs. after fw reaches populated area
		Drainage area at dam less than 100 mi^2 (260 km^2)	Night	0.25 hrs. after dam failure	1.0 hrs. after fw reaches populated area
		Drainage area at dam more than 100 mi^2 (260 km^2)	Day	2 hrs. before dam failure	1 hr. before dam failure
		Drainage area at dam more than 100 mi^2 (260 km^2)	Night	1 to 2 hr. before dam failure	0 to 1 hr. before dam failure
	Piping (full reservoir, normal weather)		Day	1 hr. before dam failure	0.25 hrs. after fw reaches populated area
			Night	0.5 hr. after dam failure	1.0 hr. after fw reaches populated area
	Seismic	Immediate Failure	Day	0.25 hr. after dam failure	0.25 hr. after fw reaches populated area
			Night	0.50 hr. after dam failure	1.0 hrs. after fw reaches populated area
		Delayed Failure	Day	2 hrs. before dam failure	0.5 hrs. before fw reaches populated area
			Night	2 hrs. before dam failure	0.5 hrs. before fw reaches populated area

6. **Apply empirically based equations or method for estimating fatalities.** Graham summarized the recommended fatality rates in a table (Table 7 in DSO-99-06). The table is reproduced below in Figure 7-1. Figure 7-1 shows various combinations of factors that affect changes in fatality rate such as flood severity, warning time, and an understanding of the catastrophe and it's severity. Determination of the flood severity being low or medium was based on two factors: depth and a depth times velocity (DV). Locations classified as low severity were defined as having a depth less than 10' or a DV factor less than 50 ft^2/s. If either of those limits were exceeded, the location was considered to be of medium severity. No locations were deemed as high severity as that classification is only for locations flooded by the near instantaneous failure of a concrete dam or an earthen dam that fails in seconds rather than minutes or hours.

   Warning time is the second factor outlined in Figure 7-1. No warning means that only the possible identification of the approaching flooding serves as a warning because no warning has been issued through the media or other official sources. Some warning defines the period of time where local officials have delivered a warning 15 to 60 minutes prior to the arrival of flood waters. Lastly, adequate warning is associated with the assumption that local officials or media have given the population at risk a warning more than 60 minutes in advance of the flood waters. The timing of the warning time is initiated as described in Step 3.

   The third factor accounted for in Figure 7-1 is the population's general understanding of the risk and flood severity to which they are exposed. In agreement with DNRC personnel, it was assumed that the present calculations would be performed with the assumption that the public has a vague understanding of the flood severity. Meaning that the warning issuers and public don't understand the extent of the severity associated with the event or have not yet seen a dam failure.

   Each location was assigned a minimum, maximum, and suggested fatality rate as defined in Figure 7-1. The classification of the severity, warning, and associated range of fatality rates for each structure is listed in the calculation table provided in Appendix G. Upon assignment of the fatality rates, the LOL for each structure was determined by taking the respective structure's fatality rate multiplied by its assigned PAR value.

$$LOL_{Str} = Fatality\ Rate_{Str} \times PAR_{Str}$$

   This calculation was performed for the minimum, maximum, and suggested values of both the day and night breaches. The final best estimate LOL value was calculated using a weighted average (50% day and 50% night) of the suggested LOL values. The weighted average LOL value for each structure was then summed to estimate the overall LOL estimate. The total LOL for the Middle Creek Dam is estimated to be 17.2. A summary of the LOL values is provided in Table 7-3. The reaches listed in Table 7-3, are illustrated in the figure found in Appendix F.

Table 7-3. Summary of Graham's LOL Calculations for Middle Creek Dam

Reaches	PAR	Loss of Life						
		Day Breach			Night Breach			Weighted LOL
		Min	Max	Sugg	Min	Max	Sugg	
Reach 1	32	0.0	0.2	0.1	1.0	11.2	0.1	0.1
Reaches 1-2	3,706	1.5	20.3	10.2	2.8	37.3	11.6	10.9
Reaches 1-3	8,270	1.7	24.7	12.4	2.9	41.7	13.8	13.1
Reaches 1-4	21,098	1.7	33.0	16.5	3.0	50.0	17.9	17.2
Reaches 1-5 (Total)	**21,215**	**1.7**	**33.1**	**16.5**	**3.0**	**50.1**	**17.9**	**17.2**

Figure 7-1. Graham's Recommended Fatality Rates for LOL Estimation

Flood Severity	Warning Time (minutes)	Flood Severity Understanding	Fatality Rate (Fraction of people at risk expected to die)	
			Suggested	Suggested Range
HIGH	no warning	not applicable	0.75	0.30 to 1.00
	15 to 60	vague	Use the values shown above and apply to the number of people who remain in the dam failure floodplain after warnings are issued. No guidance is provided on how many people will remain in the floodplain.	
		precise		
	more than 60	vague		
		precise		
MEDIUM	no warning	not applicable	0.15	0.03 to 0.35
	15 to 60	vague	0.04	0.01 to 0.08
		precise	0.02	0.005 to 0.04
	more than 60	vague	0.03	0.005 to 0.06
		precise	0.01	0.002 to 0.02
LOW	no warning	not applicable	0.01	0.0 to 0.02
	15 to 60	vague	0.007	0.0 to 0.015
		precise	0.002	0.0 to 0.004
	more than 60	vague	0.0003	0.0 to 0.0006
		precise	0.0002	0.0 to 0.0004

7. **Evaluate Uncertainty.** As witnessed throughout case histories, there is an extreme variance in the fatality rates due to dam breaches. Given that the resulting fatalities of historic breaches are dependent upon the proximity of the affected population to the breach, respective topography, time of day, and warning times, applying a loss of life value based on a single simulated event comes with inherent uncertainties. Some of the uncertainties in the present analysis include:
   - The modeled Simplified Breach scenario may not be conservative enough since it does not account for baseflows that would likely be coupled with the large runoff event.
   - The applied Simplified Breach doesn't consider spillway discharges or baseflows in downstream reaches. Areas likely to be inundated prior to the breach due to these large streamflows would likely provide a recognizable warning to the potential catastrophe and may be evacuated prior to the arrival of the breach wave.
   - The modeled terrain utilizes a mix of topographic data with varying accuracies and effect on the hydraulic characteristics and mapped results. This varying accuracy is shown along the eastern edge of the flowpath of the West Gallatin River where the edge of the flowpath is a straight line.
   - There is a large variation in when the warning can be initiated and received. For example, all residents may be warned or only 50% of residents may receive a warning.
   - Furthermore, of those residents who receive a warning, there is additional uncertainty in the likelihood that all residents will evacuate.
   - The utilized PAR values, per Technical Note 2, seem conservative. For example, a PAR of three (3) is assigned to residences with additional PAR assigned for outbuildings.
   - While attempting to address the variability in timing by performing a day and night LOL estimate, there is inherent uncertainty in the varying population of the impacted area whether the breach occurs during the day, night, weekday, weekend, or various seasons. In the present analysis, it is assumed that the population is constant for all times.
   - Assignment of fatality rates over a range further displays the inherent uncertainty and inability to precisely define the risk. This uncertainty is displayed in Table 7-3 where the minimum and maximum LOL estimates are 1.7 and 50.1, respectively.
   - Given that the flowpath engulfs the canyon road, crosses multiple highways and I-90, and inundates multiple highly populated areas around Bozeman and through Belgrade, there is uncertainty whether some evacuation routes would be impassable for a portion of the evacuating population.

7.2 RCEM Method

RCEM states that the LOL estimation requires consideration of many factors, some of which include:

- Failure mode and breach parameters
- Extent of flooding (i.e. inundation limits)
- Severity of flooding (i.e. depth and velocity)
- Time of day (or season) of breach and flooding
- Travel time of the flood wave
- Possibilities of evacuation
- Warning time
- Population at risk (PAR)

Using the steps outlined by the RCEM as guidance, the LOL Determination process was computed as follows:

1. **Select the dam failure scenario.** The dam failure scenario utilized was specified as the Simplified Breach, per DNRC personnel. This method also agrees with the Graham Method for determining LOL outlined within DNRC's Technical Note 2.

2. **Estimate the PAR within each reach.** Given the rural nature of the inundated area, a simple rooftop count was performed in order to estimate the PAR within each reach. In order to assign the PAR for each location, Table 5-1 of Technical Note 2 was referenced. This table has been reproduced in Table 7-1 of Section 7.1. The calculated PAR of each reach is listed in Table 7-4.

Table 7-4. Summary of PAR Structures Within the Utilized RCEM Reaches

RCEM Reaches	PAR
1	32
2	3,674
3	4,564
4	12,828
5	117
Total	21,215

3. **Estimate the flood severity range for inundated areas.** RCEM relies on assessing the flood severity as estimated by depth multiplied by velocity (DV). The max DV factor for all inundated areas was calculated by RAS Mapper (Mapper). Using ArcMap, each identified structure was assigned a DV value corresponding to its location on the resultant DV grid. Figures displaying the structures and the respective DV grid are displayed in Appendix H.

4. **Select appropriate time categories.** For the present calculations, the loss of life calculations were separately performed for both a day and night breach. The sole difference of the breach timing (day versus night) is applied to the warning times further described below in Step 5.

5. **Estimate when dam failure warnings would be initiated and estimate the warning time category.** The definition of a preliminary warning time was defined by the Graham Method and Table 2 of USBR DSO-99-06 (Figure 5-1 of Technical Note 2) (see Table 7-2 within Section 7.1). For use in the present study, Middle Creek Dam has a drainage area of 27 mi^2 and is considered attended as it is a popular recreation location (including during the flood prone seasons), has a USGS gage located downstream, is used as a water source for the local municipality, is accessed by a paved road with close proximity to a highly populated area (i.e. Bozeman). Using Table 7-2, and the likelihood that there will be many observers at the dam during a possible breach , it was assumed that the warning would be initiated 0.25 hr before the breach and 0.25 hr after the breach of the dam for the day and night breaches, respectively. A comparison of the applied warning process for the day and night breaches of the RCEM and Graham Methods are displayed in Figure 7-2 and Figure 7-3, respectively.

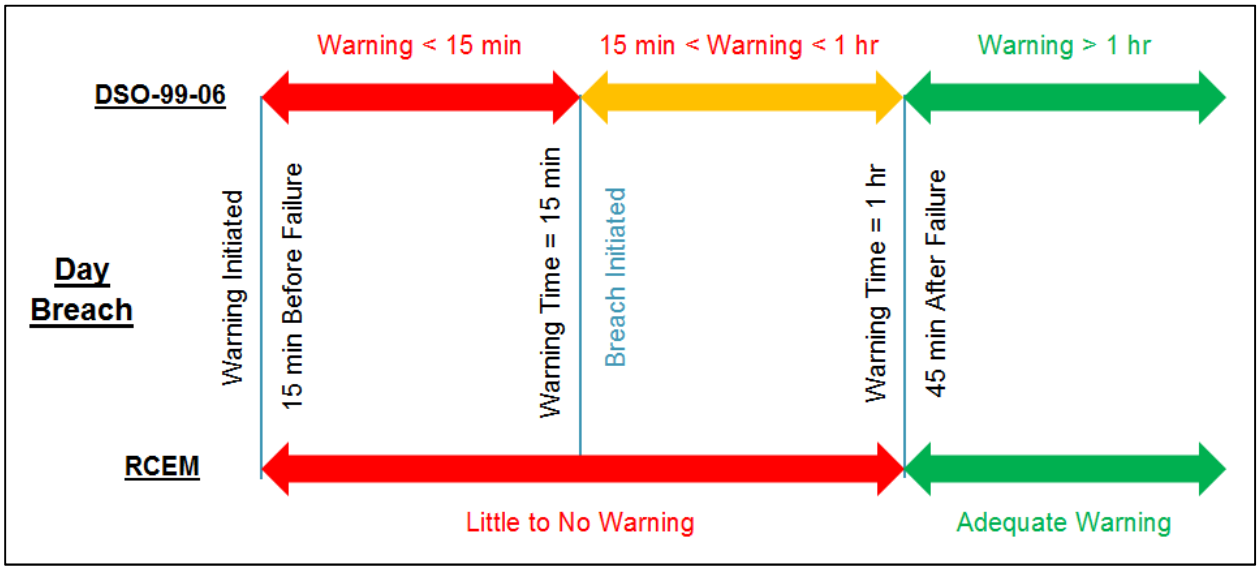


Figure 7-2. Comparison of Applied Warning Criteria for Middle Creek Dam's Day Breach using RCEM and Graham's Methodology

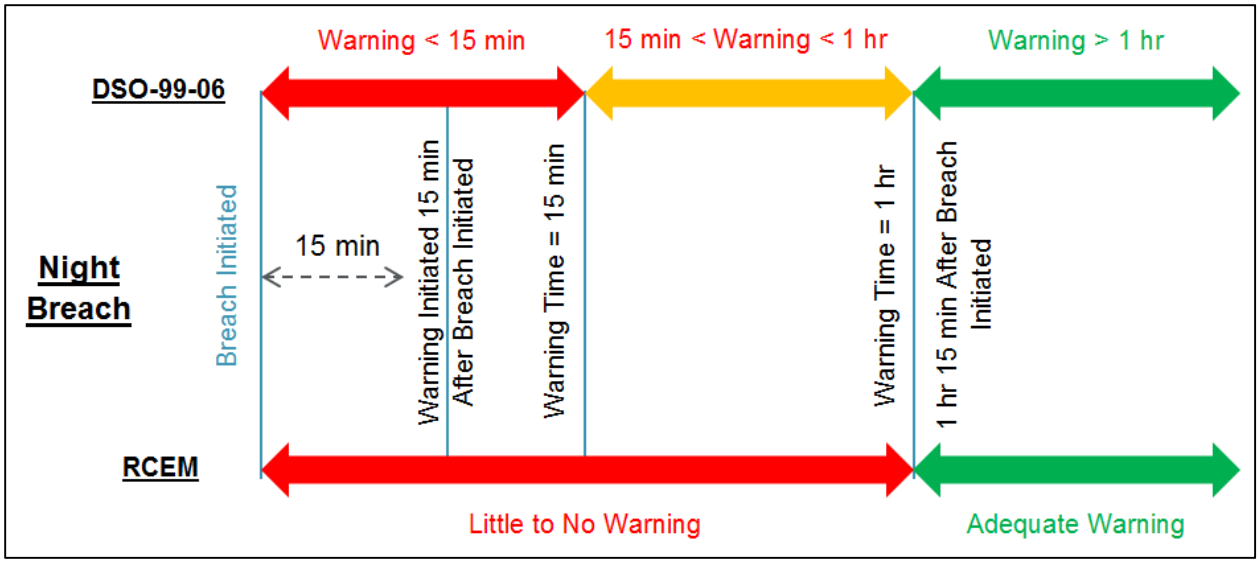


Figure 7-3. Comparison of Applied Warning Criteria for Middle Creek Dam's Night Breach using RCEM and Graham's Methodology

6. **Review and evaluate flood inundation mapping and define appropriate reaches or areas flooded.** The results of the breach modeling and mapping tasks were utilized to evaluate the inundation limits and develop reaches based on a combination of communities and time intervals. For example, the reaches of the Middle Creek Dam's inundation area were broken up into areas of similar velocity values, and further divided by arrival times, warning times, as well as population densities (rural areas and more heavily populated areas were separated). A summary of the utilized reaches is outlined in Table 7-5.

Table 7-5. Summary of Utilized RCEM Reaches

RCEM Reaches	PAR	Time of Arrival (hr)	Max DV (ft^2/s)	Warning	
				Day	Night
1	32	0.00	1329	Little to No	Little to No
2	3,674	1.33	557	Adequate	Adequate
3	4,564	2.25	143	Adequate	Adequate
4	12,828	3.50	31	Adequate	Adequate
5	117	10.50	38	Adequate	Adequate

7. **Estimate a fatality rate.** Based on the flood severity (i.e. DV) and assumptions of warning time, the graphical depictions in Figure 7-4 and Figure 7-5 were used to estimate the minimum and maximum fatality rates for each structure during the day and night time breaches. For the present study, the maximum fatality rate was estimated from the "Upper Suggested Limit" while the minimum fatality rate was estimated from the "Lower Suggested Limit" illustrated in Figure 7-4 and Figure 7-5.

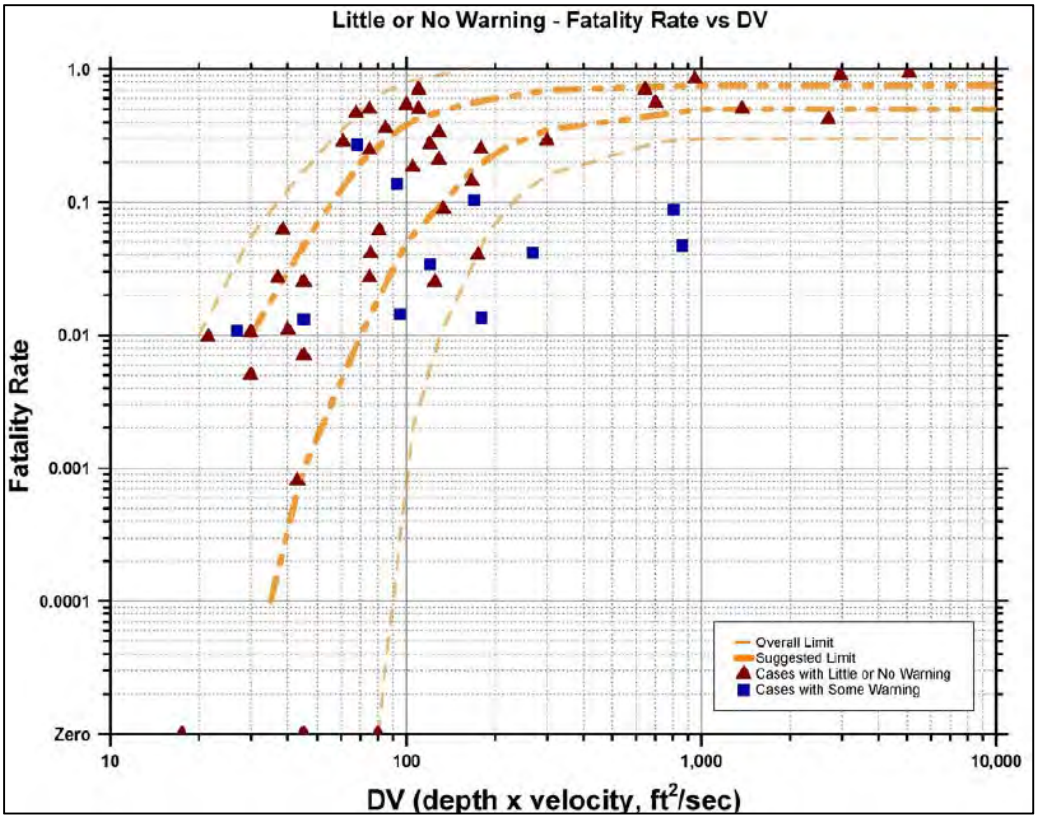


Figure 7-4. Relationship of Fatality Rate Versus DV with Little to No Warning as Defined by USBR's RCEM

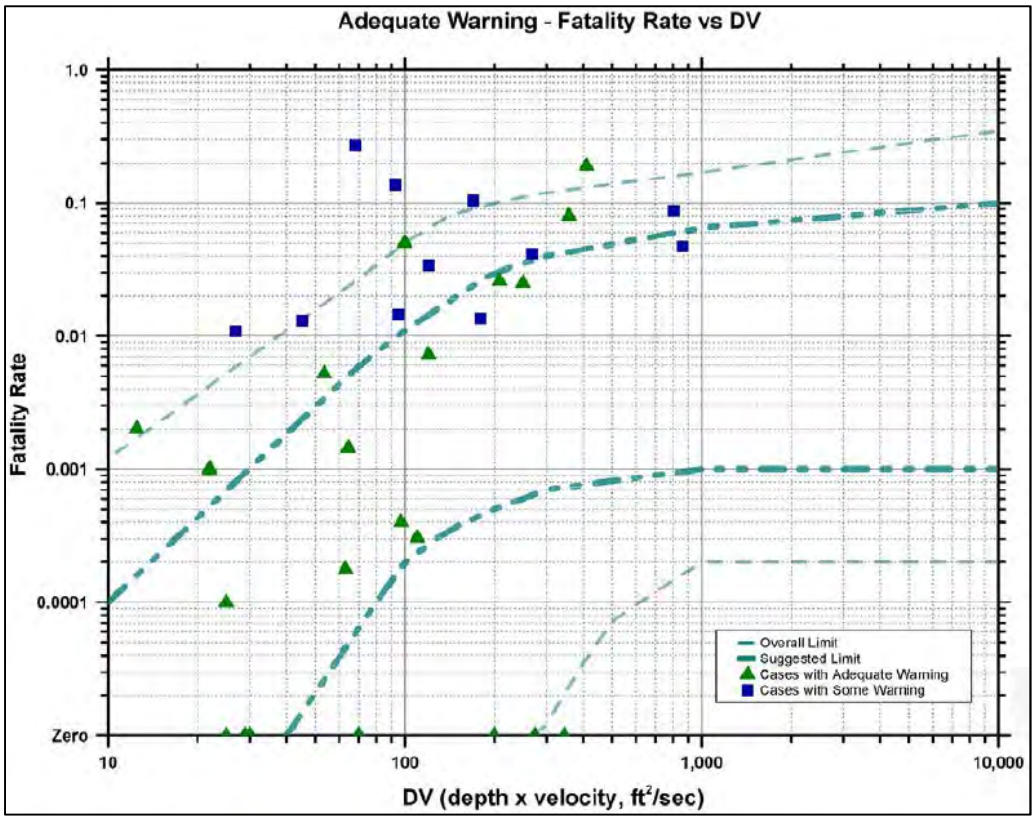


Figure 7-5. Relationship of Fatality Rate Versus DV with Adequate Warning as Defined by USBR's RCEM

8. **Estimate LOL for each PAR.** The estimated LOL for each structure was determined by taking the respective structure's fatality rate multiplied by its assigned PAR value.

$$LOL_{Str} = Fatality\ Rate_{Str} \times PAR_{Str}$$

This calculation was performed for the minimum and maximum limits of both the day and night breaches. The mean for the LOL values were then calculated for each the day and night breaches. Using the 50/50 weighting (50% day and 50% night) recommended by DNRC personnel, a weighted average of the day and night LOL values were calculated to develop a best estimate value. The weighted average LOL value for each structure was then summed to estimate the overall LOL estimate. The total LOL following the RCEM procedures for the Middle Creek Dam is estimated to be 20.5. A summary of the LOL values is provided in Table 7-6.

Table 7-6. Summary of RCEM LOL calculations for Middle Creek

Reaches	PAR	Loss of Life						
		Day Breach			Night Breach			Weighted LOL
		Min	Max	Mean	Min	Max	Mean	
Reach 1	32	11.1	22.5	16.8	11.1	22.5	16.8	16.8
Reaches 1-2	3,706	11.1	25.6	18.3	11.1	25.6	18.3	18.3
Reaches 1-3	8,270	11.1	27.2	19.2	11.1	27.2	19.2	19.2
Reaches 1-4	21,098	11.1	29.8	20.5	11.1	29.8	20.5	20.5
Reaches 1-5 (Total)	**21,215**	**11.1**	**29.8**	**20.5**	**11.1**	**29.8**	**20.5**	**20.5**

9. **Evaluate uncertainties and variability in loss of life estimate.** As witnessed throughout case histories, there is an extreme variance in the fatality rates due to dam breaches. Given that the resulting fatalities of historic breaches are dependent upon the proximity of the affected population to the breach, respective topography, time of day, and warning times, applying a loss of life value based on a single simulated event comes with inherent uncertainties. Some of the uncertainties in the present analysis include:
   - The modeled Simplified Breach scenario may not be conservative enough since it does not account for baseflows that would likely be coupled with the large runoff event.
   - The applied Simplified Breach doesn't consider spillway discharges or baseflows in downstream reaches. Areas likely to be inundated prior to the breach due to these large streamflows would likely provide a recognizable warning to the potential catastrophe and may be evacuated prior to the arrival of the breach wave.
   - The modeled terrain utilizes a mix of topographic data with varying accuracies and effect on the hydraulic characteristics and mapped results.
   - There is a large variation in when the warning can be initiated and received. For example, all residents may be warned or only 50% of residents may receive a warning.
   - Furthermore, of those residents who receive a warning, there is additional uncertainty in the likelihood that all residents will evacuate.

- The utilized PAR values, per Technical Note 2, seem conservative. For example, a PAR of three (3) is assigned to residences with additional PAR assigned for outbuildings.
- While attempting to address the variability in timing by performing a day and night LOL estimate, there is inherent uncertainty in the varying population of the impacted area whether the breach occurs during the day, night, weekday, weekend, or various seasons. In the present analysis, it is assumed that the population is constant for all times.
- Assignment of fatality rates over a range further displays the inherent uncertainty and inability to precisely define the risk. This uncertainty is displayed in Table 7-6 where the minimum and maximum LOL estimates are 11.1 and 29.8, respectively.
- Given that the flowpath engulfs the canyon road, crosses multiple highways and I-90, and inundates multiple highly populated areas around Bozeman and through Belgrade, there is uncertainty whether some evacuation routes would be impassable for a portion of the evacuating population.

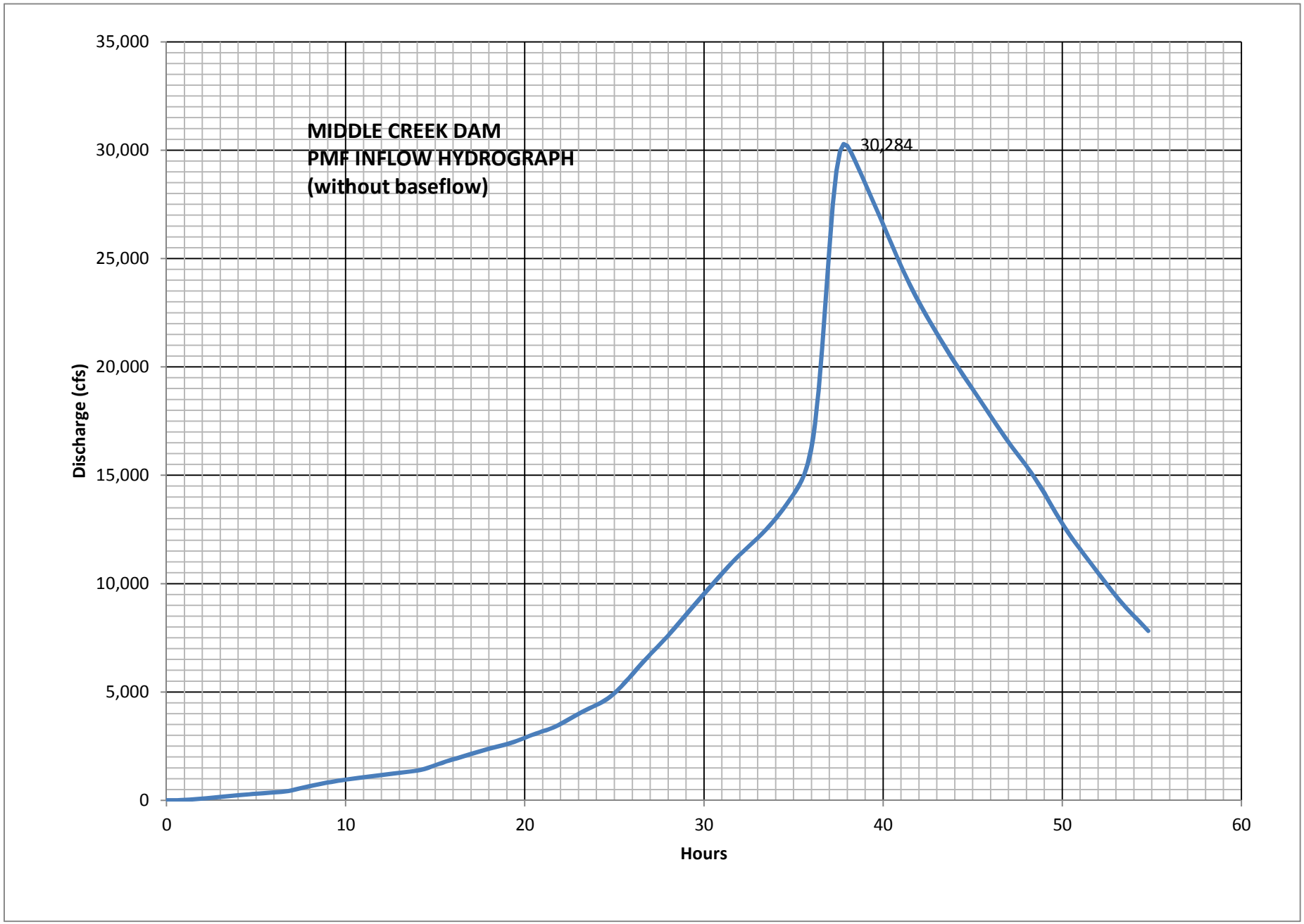
10. **Build a case for the loss of life estimate.** While there are undeniable variances and uncertainty in dam breach analyses and LOL calculations, the present study attempts to provide reasonable bounds in the final best estimate LOL value. The graphical approach of the RCEM is based on the envelope curves utilized to assign the catalogued minimum and maximum fatality rates of historic events. The present approach considers the possibility of a day breach and a night breach and provides weighting of both possibilities. As outlined above in Item 9, the Simplified Breach scenario utilized may not be conservative enough given that there are no large inflows or downstream flows as simulated in the Overtopping Breach. Comparison of the Simplified Breach results with those of the Overtopping Breach (see Table 5-3) shows that the Simplified Breach is more attenuated with the Overtopping Breach displaying greater depths and discharges, all due to the presence of baseflows. While the Overtopping Breach shows greater risk, the increase in depth and decrease in arrival time will only slightly increase the fatality rates and final LOL values given the assumption that the warning is initiated prior to the breach. The Overtopping Breach can be considered statistically conservative as it includes the PMF and extreme baseflows. Hence, the sensitivity of the LOL value based on the use of the Overtopping or Simplified Breach is considered minor. In addition, the breach is routed utilizing a multi dimensional analysis, allowing for far superior results when compared to the traditional single dimensional analysis. Through review of the parameters and employed assumptions, the identification of the warning time is the most sensitive as it has the most effect on the resultant fatality rates. It should be noted that the majority of the LOL is incurred in Reach 1 where there is minimal PAR. However, as stated above in Item 5, given that the dam is frequently populated with recreationalists and monitored by users, it is likely that any issue with the dam would be noted in advance allowing for an advanced warning.

8 References

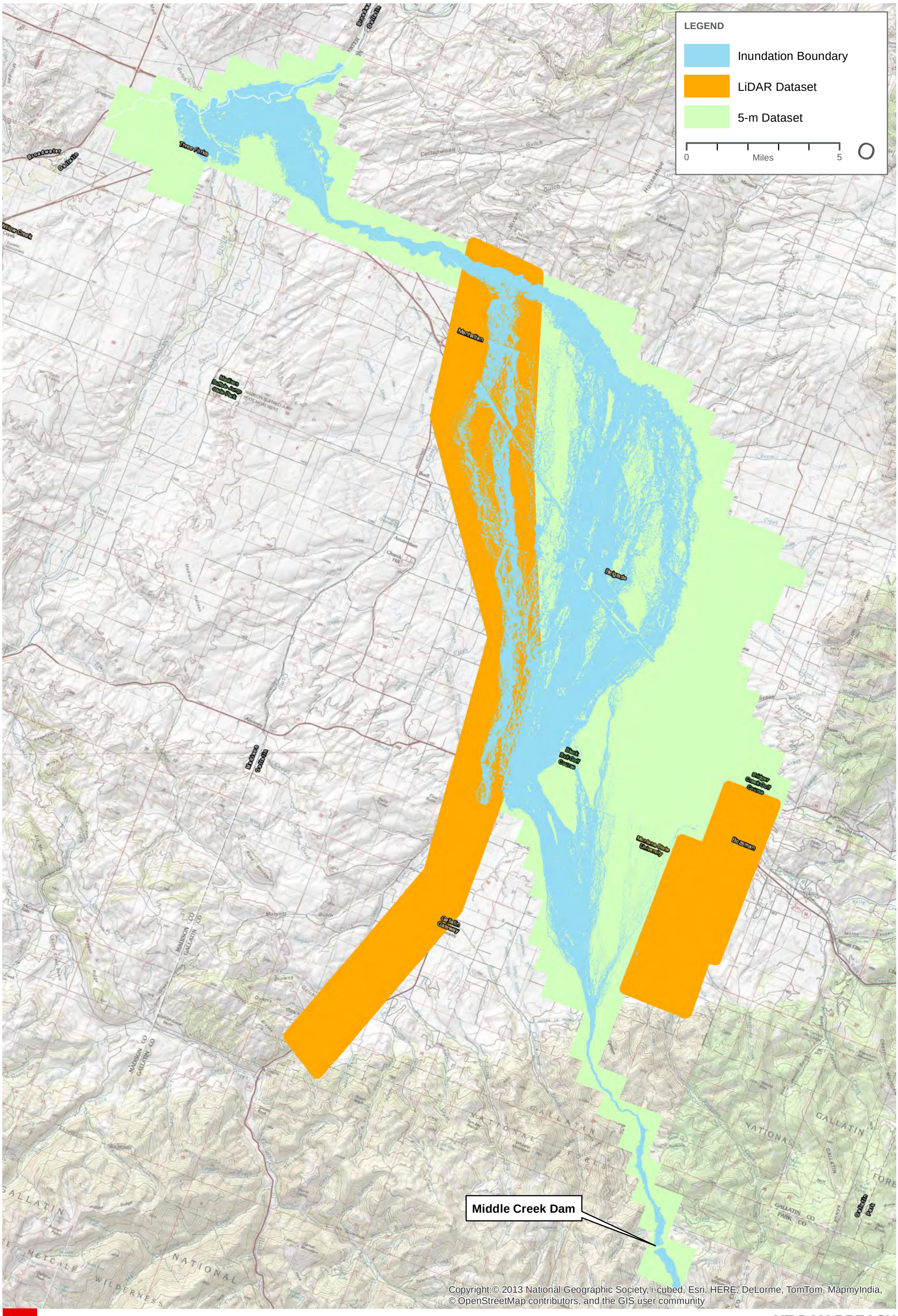
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Appendix A – PMF Inflow


MIDDLE CREEK DAM
PMF INFLOW HYDROGRAPH
(without baseflow)
30,284
Discharge (cfs)
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
0
10
20
30
40
50
60
Hours

Appendix B – Overview of Topographic Sources



MT DAM BREACH

MIDDLE CREEK DAM

EXTENTS OF TOPOGRAPHIC DATASETS

Appendix C – Outflow Structure Discharge Info

TABLE 8. RESERVOIR OUTFLOW RATING TABLE (continued)

IN CUBIC FEET PER SECOND (CFS)

STEM OPENING IN INCHES

ELEV	16	17	18	19	20	21	22	23	24	25	26	27	28	29
6613	40	45	50	54	58	65	70	75	81	85	89	91	93	95
6614	57	64	71	77	83	92	99	107	115	121	126	129	132	135
6615	70	78	87	94	102	113	121	131	141	148	155	159	162	165
6616	81	90	100	109	118	131	140	151	163	171	179	183	187	191
6617	91	101	112	122	132	146	157	169	182	192	200	205	209	213
6618	100	110	123	133	144	160	172	186	199	210	219	225	229	234
6619	108	119	133	144	156	173	186	201	215	227	237	243	248	253
6620	115	127	142	154	167	185	199	214	230	243	253	260	265	270
6621	122	135	151	163	177	196	211	228	244	258	268	276	281	287
6622	129	143	159	172	187	206	222	240	258	272	283	291	296	302
6623	135	150	166	181	196	216	233	252	270	285	297	305	311	317
6624	141	156	174	189	205	226	244	263	282	298	310	318	325	331
6625	147	163	181	197	214	235	254	274	294	310	323	332	338	345
6626	153	169	188	204	222	244	263	284	305	322	335	344	351	358
6627	158	175	194	211	230	252	273	294	316	333	347	356	364	371
6628	164	180	201	218	237	261	282	304	326	344	358	368	376	383
6629	169	186	207	225	245	269	290	313	336	355	369	379	387	395
6630	173	191	213	231	252	276	299	322	346	365	380	390	399	406
6631	178	197	219	238	259	284	307	331	355	375	391	401	410	417
6632	183	202	224	244	266	291	315	340	365	385	401	412	420	428
6633	187	207	230	250	272	298	323	348	374	395	411	422	431	439
6634	192	212	235	256	279	305	331	357	382	404	420	432	441	449
6635	196	216	241	262	285	312	338	365	391	413	430	441	451	459
6636	201	221	246	267	291	319	345	373	399	422	439	451	461	469
6637	205	225	251	273	297	325	352	380	408	431	448	460	470	479
6638	209	230	256	278	303	332	359	388	416	439	457	469	480	488
6639	213	234	261	284	309	338	366	395	424	448	466	478	489	498
6640	217	239	265	289	315	344	373	403	431	456	475	487	498	507
6641	221	243	270	294	320	350	380	410	439	464	483	496	507	516
6642	224	247	275	299	326	356	386	417	447	472	491	504	515	525
6643	228	251	279	304	331	362	393	424	454	480	499	513	524	534
6644	232	255	284	309	337	368	399	431	461	488	507	521	533	542
6645	535	259	288	314	342	374	405	437	468	495	515	529	541	551
6646	239	263	292	318	347	379	411	444	475	503	523	537	549	559
6647	242	267	297	323	352	385	417	450	482	510	531	545	557	567
6648	246	271	301	328	357	390	423	457	489	518	538	553	565	575
6649	249	274	305	332	362	395	429	463	496	525	546	560	573	583
6650	253	278	309	337	367	401	435	469	503	532	553	568	581	591
6651	256	282	313	341	372	406	441	476	509	539	560	575	588	599
6652	259	285	317	345	377	411	446	482	516	546	568	583	596	606
6653	263	289	321	350	382	416	452	488	522	553	575	590	603	614
6654	266	292	325	354	386	421	457	494	528	559	582	597	611	621
6655	269	296	329	358	391	426	463	499	535	566	589	604	618	629
6656	272	299	333	362	396	431	468	505	541	572	595	611	625	636
6657	275	302	336	366	400	436	473	511	547	579	602	618	632	643
6658	278	306	340	370	405	441	479	517	553	585	609	625	639	650
6659	281	309	344	374	409	445	484	522	559	592	615	632	646	657
6660	284	312	347	378	413	450	489	528	565	598	622	638	653	664
6661	287	316	351	382	418	455	494	533	571	604	628	645	660	671
6662	290	319	354	386	422	459	499	539	577	610	635	652	667	678
6663	293	322	358	390	426	464	504	544	582	617	641	658	673	685
6664	296	325	361	394	430	468	509	549	588	623	647	665	680	692

TABLE 8. RESERVOIR OUTFLOW RATING TABLE (continued)

IN CUBIC FEET PER SECOND (CFS)

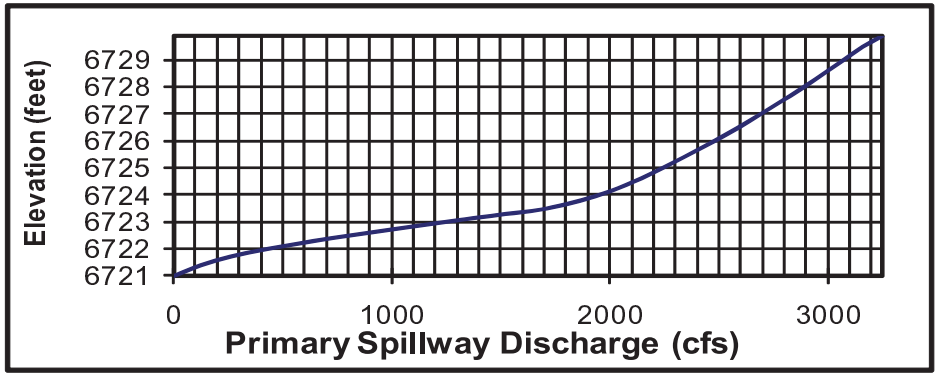
STEM OPENING IN INCHES

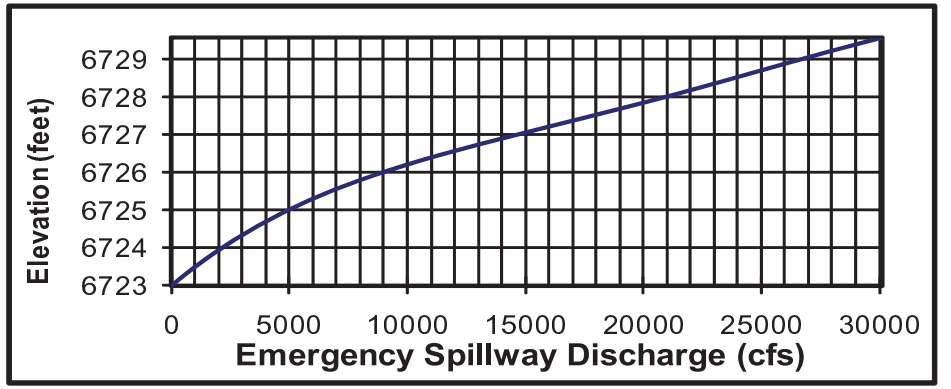
ELEV	16	17	18	19	20	21	22	23	24	25	26	27	28	29
6665	299	328	365	398	435	473	514	555	594	629	654	671	686	698
6666	302	331	368	401	439	477	519	560	599	635	660	677	693	705
6667	304	334	372	405	443	481	524	565	605	640	666	684	699	711
6668	307	337	375	409	447	486	528	570	610	646	672	690	706	718
6669	310	340	378	412	451	490	533	575	616	652	678	696	712	724
6670	313	343	382	416	455	494	538	580	621	658	684	702	718	731
6671	315	346	385	420	459	499	542	585	626	663	690	708	725	737
6672	318	349	388	423	463	503	547	590	632	669	696	714	731	743
6673	321	352	391	427	467	507	551	595	637	675	701	720	737	749
6674	323	355	395	430	470	511	556	600	642	680	707	726	743	756
6675	326	358	398	434	474	515	560	605	647	686	713	732	749	762
6676	328	361	401	437	478	519	565	610	652	691	719	738	755	768
6677	331	363	404	441	482	523	569	615	657	697	724	743	761	774
6678	334	366	407	444	486	527	574	619	663	702	730	749	767	780
6679	336	369	410	447	489	531	578	624	668	707	735	755	772	786
6680	339	372	413	451	493	535	582	629	672	713	741	760	778	791
6681	341	375	416	454	497	539	587	633	677	718	746	766	784	797
6682	344	377	419	457	500	543	591	638	682	723	752	771	790	803
6683	346	380	422	460	504	547	595	642	687	728	757	777	795	809
6684	348	383	425	464	507	550	599	647	692	733	762	782	801	814
6685	351	385	428	467	511	554	603	651	697	738	768	788	806	820
6686	353	388	431	470	514	558	608	656	702	743	773	793	812	826
6687	356	390	434	473	518	562	612	660	706	748	778	799	818	831
6688	358	393	437	476	521	565	616	665	711	753	783	804	823	837
6689	360	396	440	480	525	569	620	669	716	758	788	809	828	842
6690	363	398	442	483	528	573	624	674	720	763	793	815	834	848
6691	365	401	445	486	532	576	628	678	725	768	799	820	839	853
6692	367	403	448	489	535	580	632	682	729	773	804	825	845	859
6693	370	406	451	492	539	584	636	686	734	778	809	830	850	864
6694	372	408	454	495	542	587	640	691	739	783	814	835	855	869
6695	374	411	456	498	545	591	644	695	743	788	819	840	860	875
6696	377	413	459	501	549	594	648	699	747	792	824	845	866	880
6697	379	416	462	504	552	598	651	703	752	797	828	850	871	885
6698	381	418	465	507	555	601	655	707	756	802	833	855	876	890
6699	383	420	467	510	558	605	659	711	761	806	838	860	881	896
6700	385	423	470	513	562	608	663	716	765	811	843	865	886	901
6701	388	425	473	516	565	612	667	720	769	816	848	870	891	906
6702	390	428	475	519	568	615	670	724	774	820	853	875	896	911
6703	392	430	478	521	571	618	674	728	778	825	857	880	901	916
6704	394	432	480	524	574	622	678	732	782	829	862	885	906	921
6705	396	435	483	527	577	625	681	736	787	834	867	890	911	926
6706	398	437	486	530	581	628	685	740	791	838	871	894	916	931
6707	401	439	488	533	584	632	689	744	795	843	876	899	921	936
6708	403	442	491	536	587	635	692	748	799	847	881	904	926	941
6709	405	444	493	538	590	638	696	751	803	852	885	909	930	946
6710	407	446	496	541	593	642	700	755	807	856	890	913	935	951
6711	409	449	498	544	596	645	703	759	812	861	894	918	940	955
6712	411	451	501	547	599	648	707	763	816	865	899	923	945	960
6713	413	453	503	549	602	651	710	767	820	869	903	927	950	965
6714	415	455	506	552	605	654	714	771	824	874	908	932	954	970
6715	417	457	508	555	608	658	717	774	828	878	912	936	959	975
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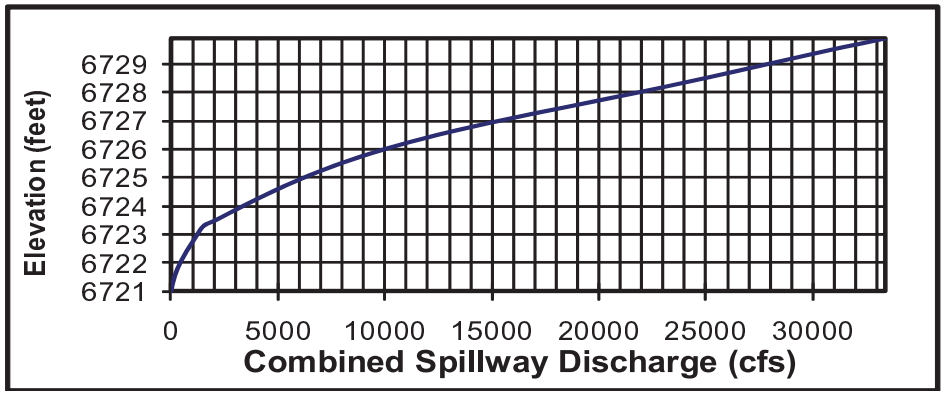
Appendix D – Spillway Rating Curve

TABLE 4. SPILLWAY RATING TABLE

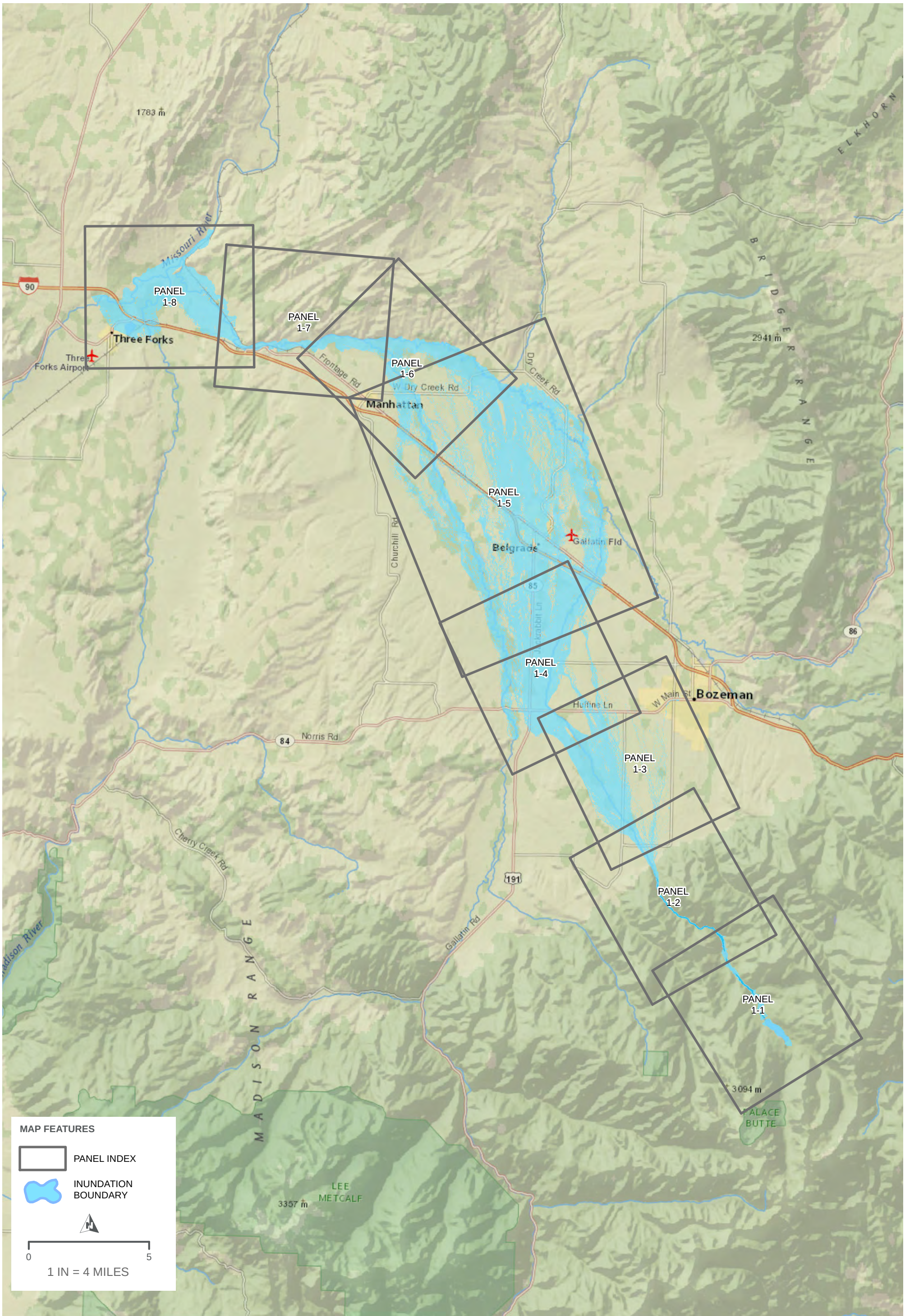
Reservoir Elevation (feet)	Primary Spillway Discharge (cfs)	Emergency Spillway Discharge (cfs)	Combined Spillway Discharge (cfs)
6721.0	0		0
6721.1	28		28
6721.2	59		59
6721.3	90		90
6721.4	125		125
6721.5	160		160
6721.6	200		200
6721.7	250		250
6721.8	305		305
6721.9	365		365
6722.0	430		430
6722.1	495		495
6722.2	570		570
6722.3	640		640
6722.4	720		720
6722.5	800		800
6722.6	890		890
6722.7	975		975
6722.8	1070		1070
6722.9	1150		1150
6723.0	1240		1240
6723.3	1522	0	1522
6723.5	1710	385	2095
6724.0	1950	1428	3378
6724.5	2110	2611	4721
6725.0	2240	3974	6214
6725.5	2360	5577	7937
6726.0	2480	7503	9983
6726.5	2590	9847	12437
6727.0	2690	12653	15343
6727.5	2790	15781	18571
6728.0	2890	18948	21838
6728.5	2980	21958	24938
6729.0	3070	24828	27898
6729.5	3160	27667	30827
6729.9	3250	30101	33351







Appendix E – Inundation Maps

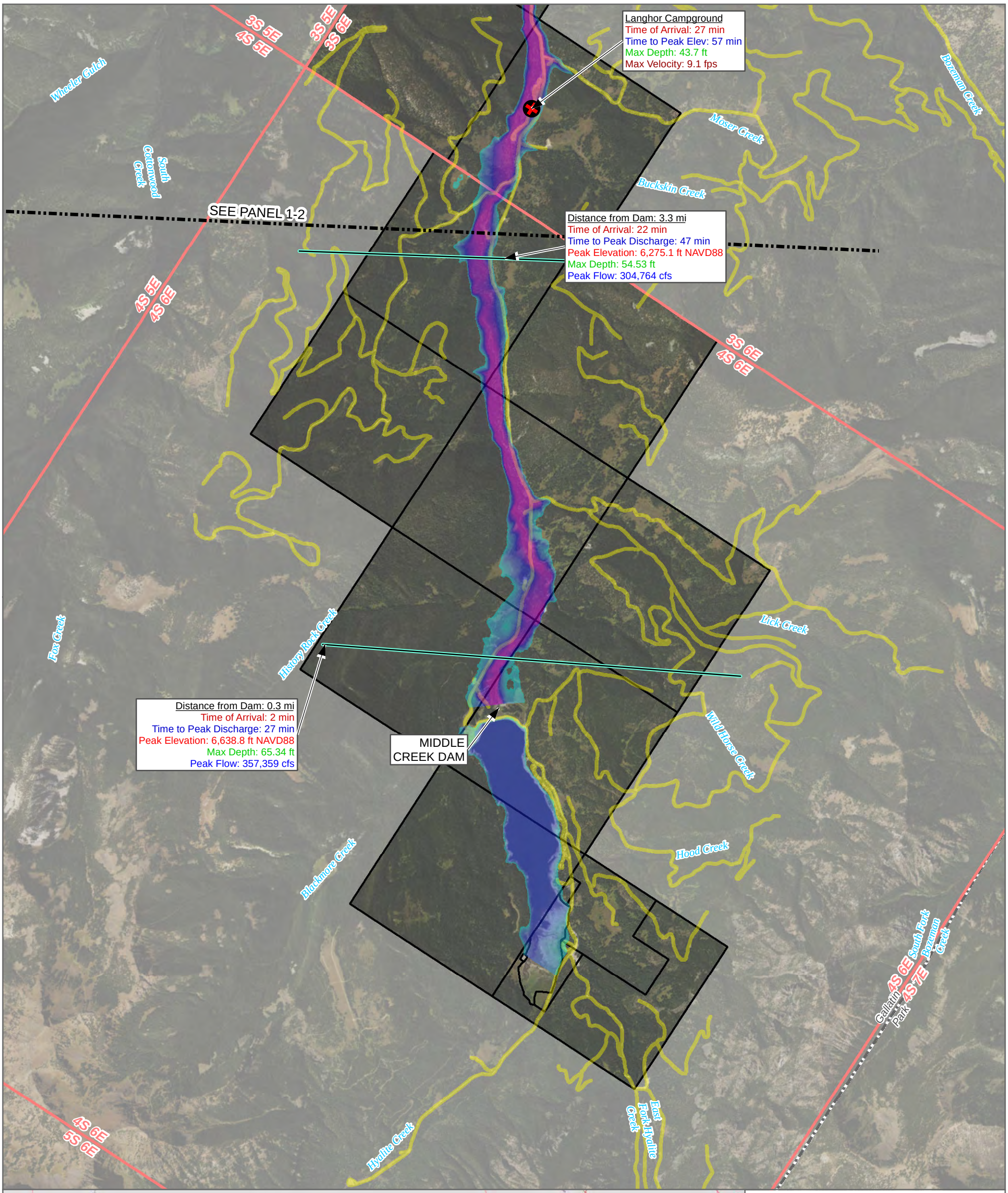


DATA SOURCES: MICROSOFT AND IT'S DATA SUPPLIERS, ESRI, USGS, MT CADASTRAL, MSDI
MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

MIDDLE CREEK DAM
BREACH ANALYSIS
OVERTOPPING INUNDATION BOUNDARY

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\OVERTOPPING\MIDDLE_CREEK_OVERTOPPING_INUNDATION_PANEL1_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017

MAPBOOK INDEX



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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

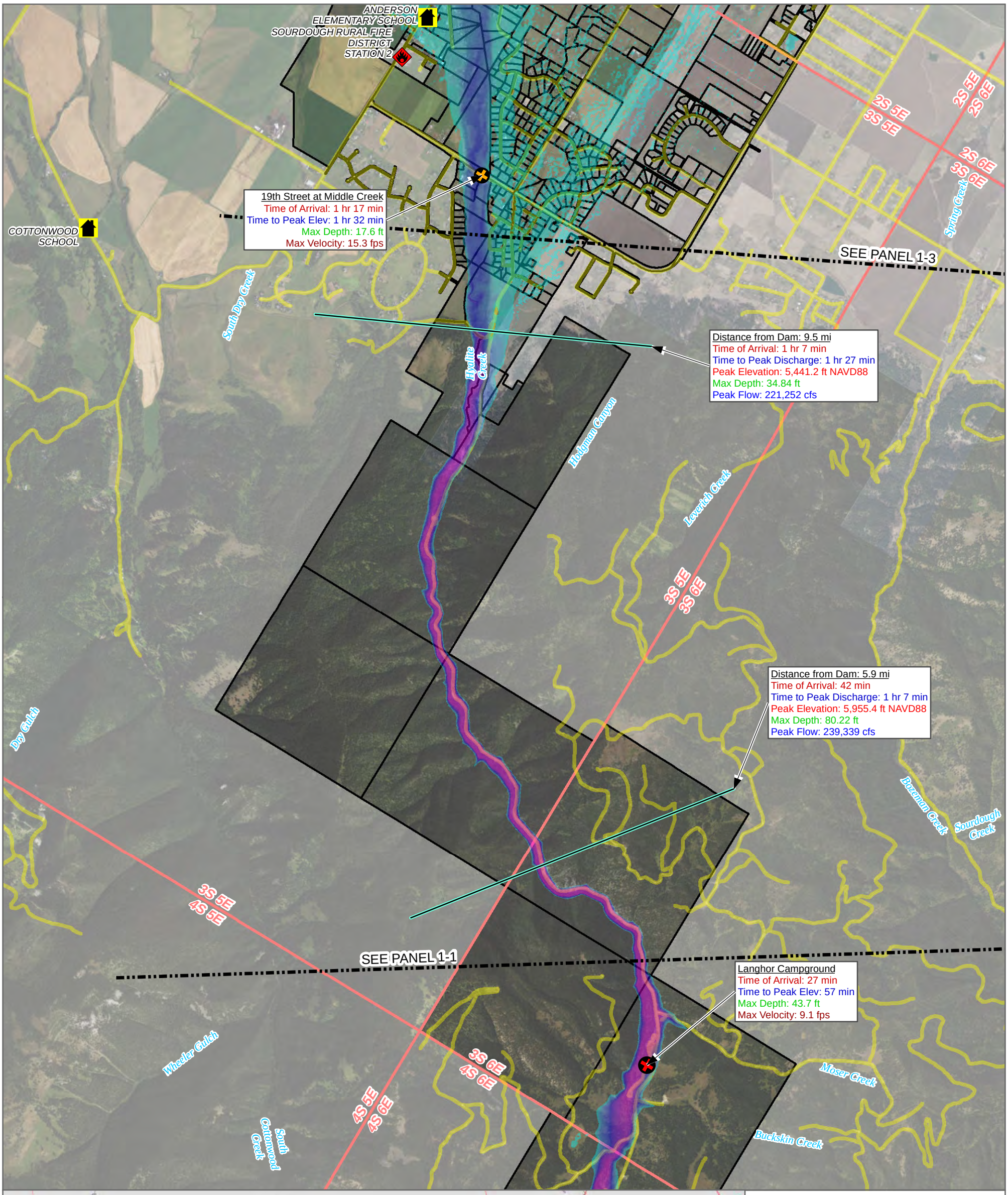
BREACH ANALYSIS

(OVERTOPPING INUNDATION BOUNDARY)

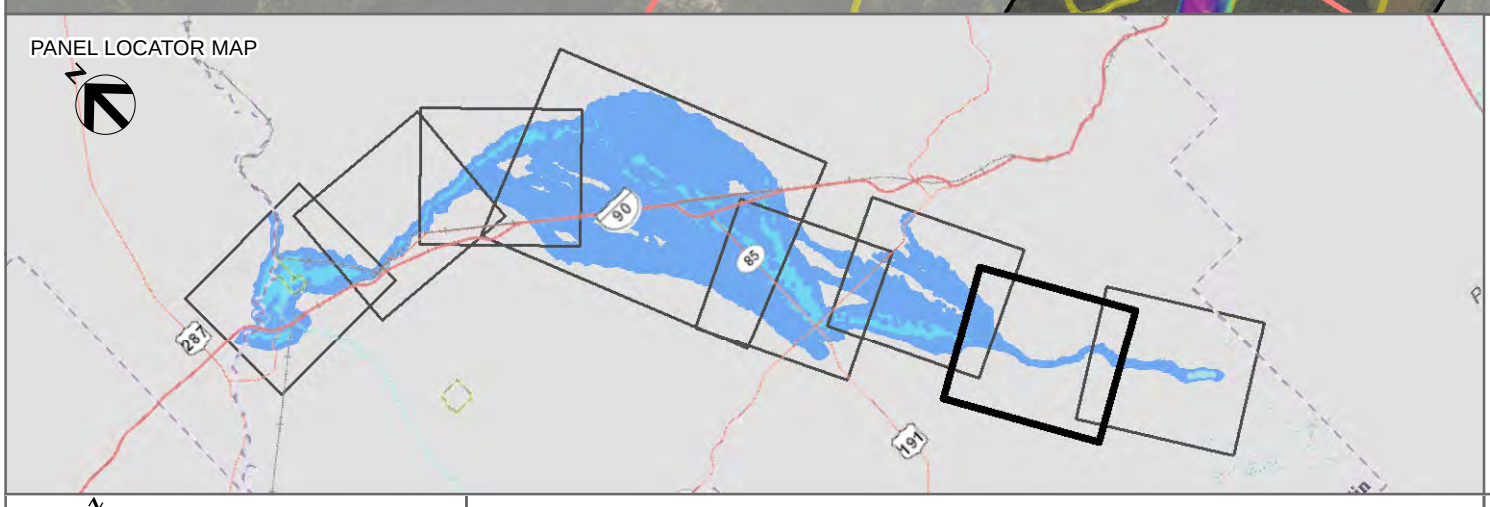
ISSUED: 6/12/2017

PANEL 1-1

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\OVERTOPPING\MIDDLE_CREEK_OVERTOPPING_INUNDATION_PANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- IMPACTED PARCELS
- TOWNSHIP LINES
- RAILROAD
- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT
- CROSS SECTIONS

WATER DEPTH

- < 5
- 5 - 10
- 10 - 20
- > 20

VALUE

HIGH : 110'

LOW : 0'

0 3,000

1 INCH = 3,000 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(OVERTOPPING INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-2

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\OVERTOPPING\MIDDLE_CREEK_OVERTOPPING_INUNDATION_PANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017

Huffine Lane West of Cottonwood Road
Time of Arrival: 2 hr 12 min
Time to Peak Elev: 2 hr 27 min
Max Depth: 3.4 ft
Max Velocity: 5.4 fps

Distance from Dam: 17.1 mi
Time of Arrival: 2 hr 17 min
Time to Peak Discharge: 2 hr 32 min
Peak Elevation: 4,818.7 ft NAVD88
Max Depth: 2.71 ft
Peak Flow: 8,740 cfs

Distance from Dam: 16 mi
Time of Arrival: 13 hr 22 min
Time to Peak Discharge: 14 hr 47 min
Peak Elevation: 4,850.2 ft NAVD88
Max Depth: 0.33 ft
Peak Flow: 6 cfs

Distance from Dam: 15.9 mi
Time of Arrival: 9 hr 47 min
Time to Peak Discharge: 10 hr 17 min
Peak Elevation: 4,857.1 ft NAVD88
Max Depth: 0.71 ft
Peak Flow: 17 cfs

Distance from Dam: 15.8 mi
Time of Arrival: 1 hr 42 min
Time to Peak Discharge: 2 hr 2 min
Peak Elevation: 4,907.6 ft NAVD88
Max Depth: 5.98 ft
Peak Flow: 182,479 cfs

Blackwood Road at Middle Creek
Time of Arrival: 1 hr 47 min
Time to Peak Elev: 1 hr 52 min
Max Depth: 4.3 ft
Max Velocity: 8.5 fps

Distance from Dam: 11.9 mi
Time of Arrival: 1 hr 22 min
Time to Peak Discharge: 1 hr 37 min
Peak Elevation: 5,224.8 ft NAVD88
Max Depth: 14.66 ft
Peak Flow: 214,503 cfs

Distance from Dam: 12.4 mi
Time of Arrival: 2 hr 57 min
Time to Peak Discharge: 3 hr 12 min
Peak Elevation: 5,143.2 ft NAVD88
Max Depth: 0.79 ft
Peak Flow: 181 cfs

19th Street at Middle Creek
Time of Arrival: 1 hr 17 min
Time to Peak Elev: 1 hr 32 min
Max Depth: 17.6 ft
Max Velocity: 15.3 fps

SEE PANEL 1-4
SEE PANEL 1-2

MEADOWLARK ELEMENTARY
BOZEMAN SUMMIT SCHOOL
HYALITE ELEMENTARY SCHOOL
RAE FIRE SERVICE AREA
BOZEMAN POLICE DEPARTMENT
IRVING SCHOOL
MSU STRAND UNION BUILDING - EMERGENCY SHELTER
MORNING STAR SCHOOL
SACAJAWEA MIDDLE SCHOOL
SACAJAWEA MIDDLE SCHOOL
SOURDOUGH RURAL FIRE DISTRICT STATION 1 HEADQUARTERS
ANDERSON ELEMENTARY SCHOOL
SOURDOUGH RURAL FIRE DISTRICT STATION 2

Baxter Creek
Hyalite Creek
Mcdonald Creek
Dry Creek
South Dry Creek
Aajker Creek
Middle Creek Ditch
Spring Creek
Bozeman Creek
Limestone Creek

1S 5E
2S 5E
2S 4E
2S 5E
2S 6E
3S 5E
3S 6E

PANEL LOCATOR MAP

MAP FEATURES
IMPACTED PARCELS
TOWNSHIP LINES
RAILROAD
POLICE DEPT
SHELTER
HEALTHCARE
SCHOOL
FIRE DEPT
CROSS SECTIONS
WATER DEPTH
< 5
5 - 10
10 - 20
> 20
VALUE
HIGH : 110'
LOW : 0'

COUNTY: GALLATIN

0 3,000
1 INCH = 3,000 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(OVERTOPPING INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-3

Distance from Dam: 23.7 mi
Time of Arrival: 2 hr 22 min
Time to Peak Discharge: 2 hr 42 min
Peak Elevation: 4,597.6 ft NAVD88
Max Depth: 5.77 ft
Peak Flow: 157,232 cfs

Middle Creek at E Valley Center Road
Time of Arrival: 2 hr 37 min
Time to Peak Elev: 2 hr 47 min
Max Depth: 2.7 ft
Max Velocity: 4.5 fps

Distance from Dam: 19.7 mi
Time of Arrival: 1 hr 52 min
Time to Peak Discharge: 2 hr 12 min
Peak Elevation: 4,752.7 ft NAVD88
Max Depth: 8.19 ft
Peak Flow: 182,491 cfs

East Baxter Lane at Middle Creek
Time of Arrival: 2 hr 7 min
Time to Peak Elev: 2 hr 27 min
Max Depth: 5.1 ft
Max Velocity: 5 fps

Intersection of Hwy 191 and Hwy 84
Time of Arrival: 1 hr 57 min
Time to Peak Elev: 2 hr 12 min
Max Depth: 2.6 ft
Max Velocity: 5 fps

Distance from Dam: 17.1 mi
Time of Arrival: 2 hr 17 min
Time to Peak Discharge: 2 hr 32 min
Peak Elevation: 4,818.7 ft NAVD88
Max Depth: 2.71 ft
Peak Flow: 8,740 cfs

Huffine Lane West of Cottonwood Road
Time of Arrival: 2 hr 12 min
Time to Peak Elev: 2 hr 27 min
Max Depth: 3.4 ft
Max Velocity: 5.4 fps

Distance from Dam: 16 mi
Time of Arrival: 13 hr 22 min
Time to Peak Discharge: 14 hr 47 min
Peak Elevation: 4,850.2 ft NAVD88
Max Depth: 0.33 ft
Peak Flow: 6 cfs

SEE PANEL 1-5
SEE PANEL 1-3

PANEL LOCATOR MAP

COUNTY: GALLATIN

MAP FEATURES

- IMPACTED PARCELS
- TOWNSHIP LINES
- RAILROAD
- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT
- CROSS SECTIONS

WATER DEPTH

- < 5
- 5 - 10
- 10 - 20
- > 20

VALUE

HIGH : 110'

LOW : 0'

0 3,000
1 INCH = 3,000 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(OVERTOPPING INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-4

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\OVERTOPPING\MIDDLE_CREEK_OVERTOPPING_INUNDATION_PANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017

West Gallatin River at West Dry Creek Road
Time of Arrival: 6 hr 2 min
Time to Peak Elev: 8 hr 27 min
Max Depth: 4.7 ft
Max Velocity: 4.6 fps

East Gallatin River at West Dry Creek Road
Time of Arrival: 4 hr 47 min
Time to Peak Elev: 5 hr 37 min
Max Depth: 10.3 ft
Max Velocity: 5.9 fps

Distance from Dam: 35.1 mi
Time of Arrival: 5 hr 42 min
Time to Peak Discharge: 8 hr 17 min
Peak Elevation: 4,274.7 ft NAVD88
Max Depth: 5.52 ft
Peak Flow: 13,108 cfs

Distance from Dam: 46.4 mi
Time of Arrival: 4 hr 32 min
Time to Peak Discharge: 5 hr 27 min
Peak Elevation: 4,268.4 ft NAVD88
Max Depth: 15.45 ft
Peak Flow: 48,721 cfs

SEE PANEL 1-6

I-90 at West Gallatin River
Time of Arrival: 4 hr 52 min
Time to Peak Elev: 6 hr 37 min
Max Depth: 7.6 ft
Max Velocity: 5.6 fps

Cowan Creek Upstream of Burnt Road
Time of Arrival: 4 hr 2 min
Time to Peak Elev: 4 hr 42 min
Max Depth: 4 ft
Max Velocity: 7 fps

East Gallatin River at Dry Creek Road
Time of Arrival: 4 hr 57 min
Time to Peak Elev: 6 hr 12 min
Max Depth: 6.4 ft
Max Velocity: 4.2 fps

Distance from Dam: 31.4 mi
Time of Arrival: 4 hr 27 min
Time to Peak Discharge: 6 hr 37 min
Peak Elevation: 4,341.8 ft NAVD88
Max Depth: 5.76 ft
Peak Flow: 14,674 cfs

Distance from Dam: 33.2 mi
Time of Arrival: 3 hr 47 min
Time to Peak Discharge: 4 hr 32 min
Peak Elevation: 4,346.4 ft NAVD88
Max Depth: 5.5 ft
Peak Flow: 54,122 cfs

Distance from Dam: 35.2 mi
Time of Arrival: 4 hr 42 min
Time to Peak Discharge: 5 hr 37 min
Peak Elevation: 4,349.4 ft NAVD88
Max Depth: 8.11 ft
Peak Flow: 18,070 cfs

Distance from Dam: 28.1 mi
Time of Arrival: 3 hr 42 min
Time to Peak Discharge: 5 hr 17 min
Peak Elevation: 4,428.8 ft NAVD88
Max Depth: 8.15 ft
Peak Flow: 14,344 cfs

East Gallatin River at Penwell Bridge Road
Time of Arrival: 4 hr 2 min
Time to Peak Elev: 4 hr 52 min
Max Depth: 6.5 ft
Max Velocity: 4.1 fps

West Gallatin River at Amsterdam Road
Time of Arrival: 3 hr 42 min
Time to Peak Elev: 5 hr 2 min
Max Depth: 8.6 ft
Max Velocity: 7 fps

Distance from Dam: 28.2 mi
Time of Arrival: 3 hr 7 min
Time to Peak Discharge: 3 hr 37 min
Peak Elevation: 4,462.6 ft NAVD88
Max Depth: 14.8 ft
Peak Flow: 75,087 cfs

West Gallatin River at Cameron Bridge Road
Time of Arrival: 3 hr 7 min
Time to Peak Elev: 4 hr 17 min
Max Depth: 8.6 ft
Max Velocity: 7.6 fps

Community of Belgrade
Time of Arrival: 3 hr 2 min
Time to Peak Elev: 3 hr 22 min
Max Depth: 2 ft
Max Velocity: 3.7 fps

SEE PANEL 1-4

Distance from Dam: 29 mi
Time of Arrival: 3 hr 17 min
Time to Peak Discharge: 4 hr 2 min
Peak Elevation: 4,454 ft NAVD88
Max Depth: 2.56 ft
Peak Flow: 19,799 cfs

I-90 at Middle Creek
Time of Arrival: 2 hr 52 min
Time to Peak Elev: 3 hr 12 min
Max Depth: 2.8 ft
Max Velocity: 7.3 fps

Distance from Dam: 23.7 mi
Time of Arrival: 2 hr 22 min
Time to Peak Discharge: 2 hr 42 min
Peak Elevation: 4,597.6 ft NAVD88
Max Depth: 5.77 ft
Peak Flow: 157,232 cfs

Middle Creek at E Valley Center Road
Time of Arrival: 2 hr 37 min
Time to Peak Elev: 2 hr 47 min
Max Depth: 2.7 ft
Max Velocity: 4.5 fps

PANEL LOCATOR MAP

COUNTY: GALLATIN

MAP FEATURES

IMPACTED PARCELS
TOWNSHIP LINES
RAILROAD
POLICE DEPT
SHELTER
HEALTHCARE
SCHOOL
FIRE DEPT
CROSS SECTIONS

WATER DEPTH
< 5
5 - 10
10 - 20
> 20

VALUE
HIGH : 110'
LOW : 0'

0 5,500
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RETURN TO INDEX SHEET

MIDDLE CREEK

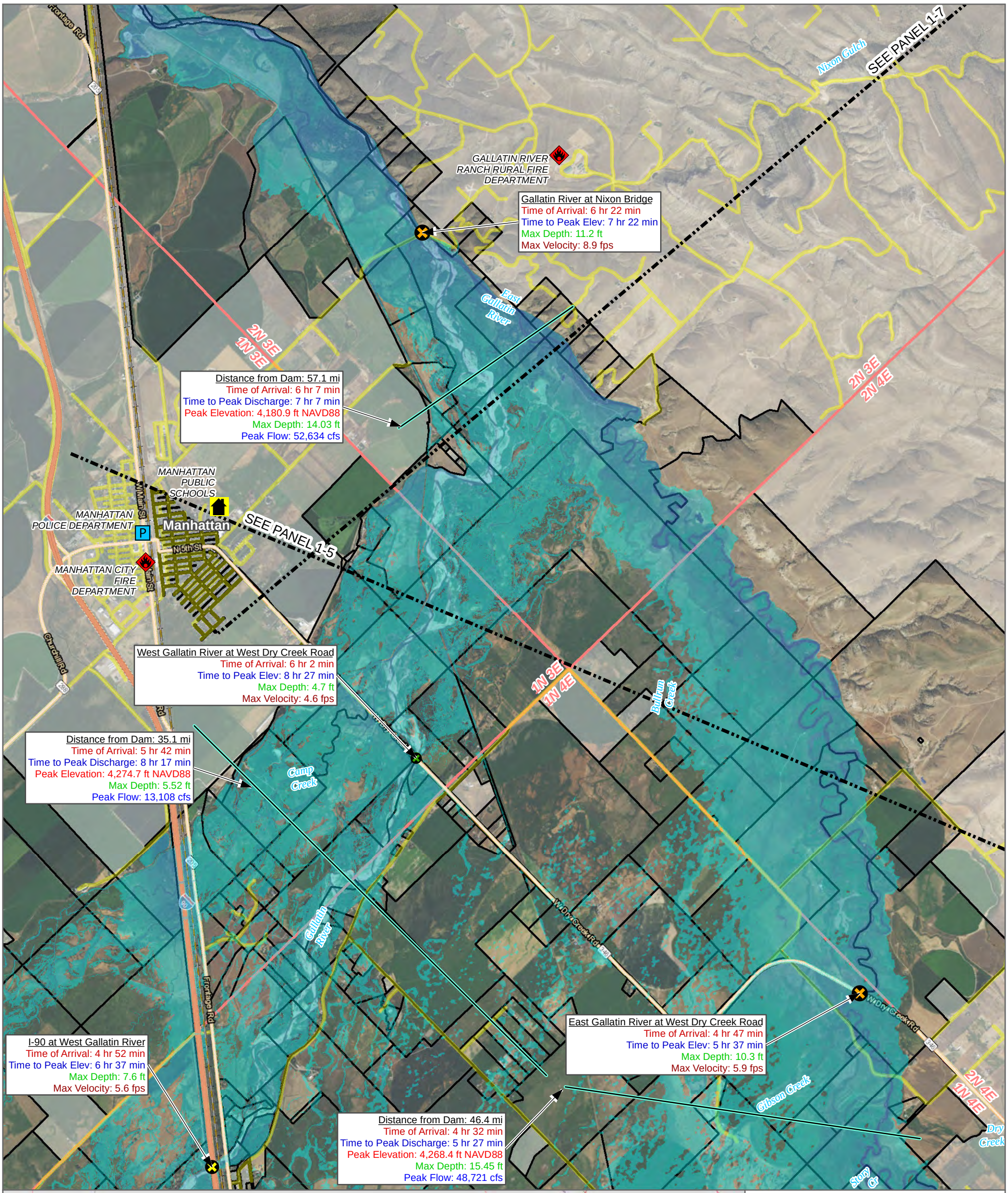
BREACH ANALYSIS

(OVERTOPPING INUNDATION BOUNDARY)

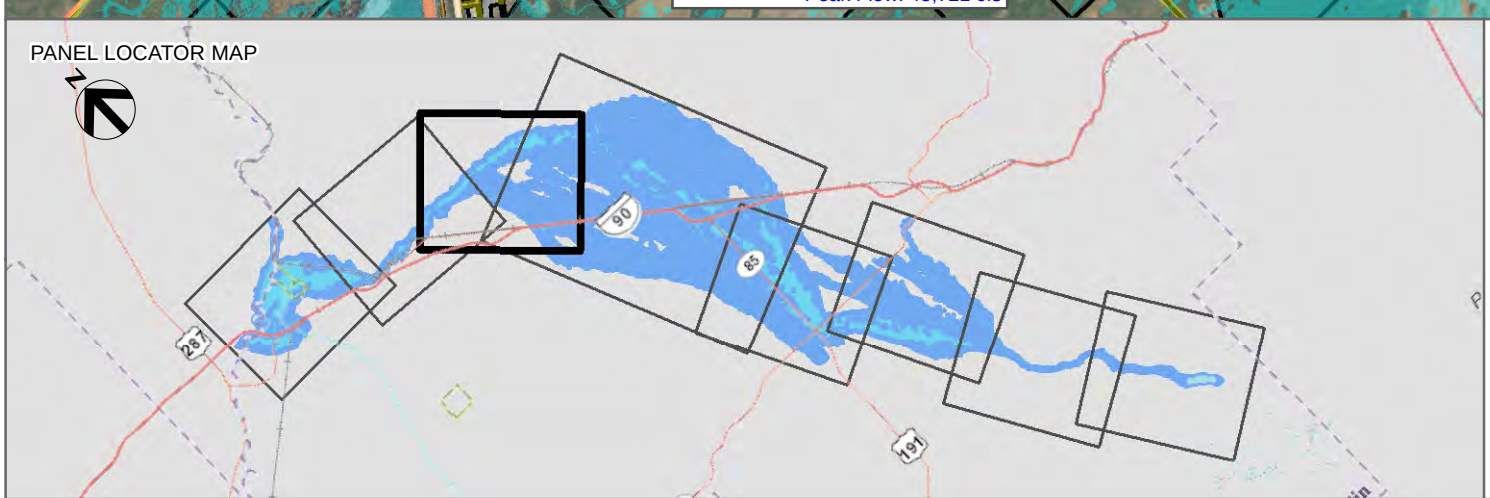
ISSUED: 6/12/2017

PANEL 1-5

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\OVERTOPPING\MIDDLE_CREEK_OVERTOPPING_INUNDATION_PANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- IMPACTED PARCELS
- TOWNSHIP LINES
- RAILROAD
- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT
- CROSS SECTIONS

WATER DEPTH

- < 5
- 5 - 10
- 10 - 20
- > 20

VALUE

HIGH : 110'

LOW : 0'

0 3,000

1 INCH = 3,000 FEET

PLEASE NOTE: THE INFORMATION PROVIDED IN THIS DOCUMENT HAS BEEN ASSEMBLED FROM A VARIETY OF PUBLIC RECORDS, OTHER READILY AVAILABLE PUBLIC SOURCES, AND PERTINENT DESIGN DATA. AFOREMENTIONED INFORMATION AND SUPPORTING DOCUMENTATION IS ALSO

DATA SOURCES: MICROSOFT AND IT'S DATA SUPPLIERS, ESRI, USGS, MT CADASTRAL, MSDI
MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(OVERTOPPING INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-6

Railroad Bridge at Logan
Time of Arrival: 7 hr 37 min
Time to Peak Elev: 10 hr 17 min
Max Depth: 16.6 ft
Max Velocity: 7.4 fps

Distance from Dam: 66 mi
Time of Arrival: 8 hr 2 min
Time to Peak Discharge: 10 hr 52 min
Peak Elevation: 4,075.9 ft NAVD88
Max Depth: 7.62 ft
Peak Flow: 46,867 cfs

Distance from Dam: 62.5 mi
Time of Arrival: 7 hr 22 min
Time to Peak Discharge: 10 hr 7 min
Peak Elevation: 4,117 ft NAVD88
Max Depth: 14.58 ft
Peak Flow: 47,009 cfs

Gallatin River at Nixon Bridge
Time of Arrival: 6 hr 22 min
Time to Peak Elev: 7 hr 22 min
Max Depth: 11.2 ft
Max Velocity: 8.9 fps

Distance from Dam: 57.1 mi
Time of Arrival: 6 hr 7 min
Time to Peak Discharge: 7 hr 7 min
Peak Elevation: 4,180.9 ft NAVD88
Max Depth: 14.03 ft
Peak Flow: 52,634 cfs

SEE PANEL 1-8
SEE PANEL 1-6
Logan
Manhattan
MANHATTAN POLICE DEPARTMENT
MANHATTAN PUBLIC SCHOOLS
GALLATIN RIVER RANCH RURAL FIRE DEPARTMENT
Gallatin River
East Gallatin River
Cottonwood Gulch
Nixon Gulch
Frontage Rd
1N 2E
2N 2E
1N 3E
2N 3E

PANEL LOCATOR MAP

MAP FEATURES

COUNTY: GALLATIN

- IMPACTED PARCELS
- TOWNSHIP LINES
- RAILROAD
- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT
- CROSS SECTIONS

WATER DEPTH
- < 5
- 5 - 10
- 10 - 20
- > 20

VALUE
- HIGH : 110'
- LOW : 0'

0 3,000
1 INCH = 3,000 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(OVERTOPPING INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-7

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\OVERTOPPING\MIDDLE_CREEK_OVERTOPPING_INUNDATION_PANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017

Three Forks Airport
Jefferson River
Mud Spring Gulch
PATHWAYS ASSISTED LIVING INCORPORATED
Three Forks
S Main St
W Main St
THREE FORKS VOLUNTEER FIRE DEPARTMENT AND THREE FORKS AREA A
THREE FORKS HIGH SCHOOL
Frontage Rd
1N 1E
2N 1E
1N 2E
2N 2E
Madison River
Darlington Ditch 1
I-90
I-205
Missouri River
Broadwater
Gallatin
Bridge - Trident Road
Time of Arrival: 9 hr 7 min
Time to Peak Elev: 15 hr 27 min
Max Depth: 25.8 ft
Max Velocity: 3.2 fps
Gallatin River
Spring Creek
Trident
Rey Creek
Distance from Dam: 71.4 mi
Time of Arrival: 9 hr 22 min
Time to Peak Discharge: 15 hr 37 min
Peak Elevation: 4,042.6 ft NAVD88
Max Depth: 22.41 ft
Peak Flow: 82,343 cfs
SEE PANEL 1-7
Cottonwood Gulch
Railroad Bridge at Logan
Time of Arrival: 7 hr 37 min
Time to Peak Elev: 10 hr 17 min
Max Depth: 16.6 ft
Max Velocity: 7.4 fps
Distance from Dam: 66 mi
Time of Arrival: 8 hr 2 min
Time to Peak Discharge: 10 hr 52 min
Peak Elevation: 4,075.9 ft NAVD88
Max Depth: 7.62 ft
Peak Flow: 46,867 cfs

PANEL LOCATOR MAP

COUNTY: GALLATIN/BROADWATER

MAP FEATURES

- IMPACTED PARCELS
- TOWNSHIP LINES
- RAILROAD
- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT
- CROSS SECTIONS

WATER DEPTH

- < 5
- 5 - 10
- 10 - 20
- > 20

VALUE

- HIGH : 110'
- LOW : 0'

0 3,000
1 INCH = 3,000 FEET

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DATA SOURCES: MICROSOFT AND IT'S DATA SUPPLIERS, ESRI, USGS, MT CADASTRAL, MSDI
MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(OVERTOPPING INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-8

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\OVERTOPPING\MIDDLE_CREEK_OVERTOPPING_INUNDATION_PANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017

Appendix F – Loss of Life Figure

LEGEND

PAR Reach Breaks

PAR Structures

Simplified Inundation Boundary

0 Miles 5

INFORMATION IS BASED ON THE DATA PUBLICLY AVAILABLE ON SEPTEMBER OF 2016.

Reach 5

Reach 4

Reach 3

Reach 2

Reach 1

Three Forks

Manhattan

Madison Buffalo Jump State Park

Belgrade

Bridger Creek Golf Course

Bozeman

Montana State University

Gallatin Gateway

Arrival Time = 1.25 hr
Adequate Warning for Night Breach

Arrival Time = 0.75 hr
Adequate Warning for Day Breach

Middle Creek Dam
Warning Initiated 0.25 hr
Before Breach (Day Breach)

Arrival Time = 0.25 hr After
Warning Initiated (Night Breach)

Day Breach
Reach 1: Little to No Warning
Reaches 2 - 5: Adequate Warning
Night Breach
Reach 1: Little to No Warning
Reaches 2 - 5: Adequate Warning

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

HDR

MT DAM BREACH

MIDDLE CREEK DAM

LOSS OF LIFE OVERVIEW

Appendix G – Loss of Life Calculations

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1	Road	2	1	33.5	15.0	502.0	0.25	0.50	-0.50	MEDIUM	Little to No	Little to No	0.01	0.08	0.04	0.02	0.16	0.08	0.03	0.35	0.04	0.06	0.7	0.08	0.08	0.37906	0.71443	0.75813	1.42886	1.09349	0.37906	0.71443	0.75813	1.42886	1.09349	1.0935
2	Campground	30	1	40.6	8.7	354.2	0.75	1.00	0.00	MEDIUM	Little to No	Little to No	0	0.0006	0.0003	0	0.018	0.009	0.03	0.35	0.0003	0.9	10.5	0.009	0.009	0.34316	0.70387	10.29471	21.11609	15.70540	0.34316	0.70387	10.29471	21.11609	15.70540	15.7054
3	Campground	30	2	55.1	8.2	450.7	1.33	1.58	0.58	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.15	1.8	0.9	0.01	0.08	0.03	0.3	2.4	0.9	0.9	0.00078	0.01988	0.02326	0.59637	0.30982	0.00078	0.01988	0.02326	0.59637	0.30982	0.3098
5	Farm/Shop	2	2	3.7	4.4	16.2	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.015	0.0003	0	0.03	0.0006	0.0006	0.00000	0.00045	0.00000	0.00089	0.00045	0.00000	0.00045	0.00000	0.00089	0.00045	0.0004
6	Residential	3	2	4.2	8.0	33.5	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00133	0.00000	0.00400	0.00200	0.00000	0.00133	0.00000	0.00400	0.00200	0.0020
8	Residential	3	2	0.6	2.4	1.5	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
13	Residential	3	2	2.2	8.1	18.1	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00053	0.00000	0.00158	0.00079	0.00000	0.00053	0.00000	0.00158	0.00079	0.0008
16	Residential	3	2	1.7	7.0	11.7	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00027	0.00000	0.00081	0.00040	0.00000	0.00027	0.00000	0.00081	0.00040	0.0004
18	Residential	3	2	2.7	11.4	31.0	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00119	0.00000	0.00357	0.00179	0.00000	0.00119	0.00000	0.00357	0.00179	0.0018
22	Residential	3	2	0.8	38.0	31.9	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00124	0.00000	0.00371	0.00186	0.00000	0.00124	0.00000	0.00371	0.00186	0.0019
30	Residential	3	2	1.9	14.2	27.2	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00099	0.00000	0.00296	0.00148	0.00000	0.00099	0.00000	0.00296	0.00148	0.0015
32	Residential	3	2	0.7	35.1	25.1	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00087	0.00000	0.00262	0.00131	0.00000	0.00087	0.00000	0.00262	0.00131	0.0013
43	Residential	3	2	7.2	12.0	86.3	1.50	1.75	0.75	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.03	0.03	0.24	0.09	0.09	0.00012	0.00521	0.00036	0.01564	0.00800	0.00012	0.00521	0.00036	0.01564	0.00800	0.0080
57	Residential	3	2	3.3	13.9	45.4	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00001	0.00220	0.00003	0.00661	0.00332	0.00001	0.00220	0.00003	0.00661	0.00332	0.0033
60	Residential	3	2	2.9	7.0	19.9	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00060	0.00000	0.00179	0.00089	0.00000	0.00060	0.00000	0.00179	0.00089	0.0009
64	Residential	3	2	3.4	12.4	42.8	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00001	0.00202	0.00002	0.00605	0.00303	0.00001	0.00202	0.00002	0.00605	0.00303	0.0030
67	Residential	3	2	1.9	12.4	23.7	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00080	0.00000	0.00239	0.00120	0.00000	0.00080	0.00000	0.00239	0.00120	0.0012
70	Residential	3	2	0.3	52.1	13.2	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00033	0.00000	0.00099	0.00049	0.00000	0.00033	0.00000	0.00099	0.00049	0.0005
74	Residential	3	2	1.3	6.4	8.5	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
92	Residential	3	2	17.7	12.2	216.5	1.50	1.75	0.75	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.03	0.03	0.24	0.09	0.09	0.00054	0.01295	0.00163	0.03886	0.02025	0.00054	0.01295	0.00163	0.03886	0.02025	0.0202
101	Road	2	2	16.1	14.3	229.6	1.50	1.75	0.75	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.01	0.12	0.06	0.01	0.08	0.03	0.02	0.16	0.06	0.06	0.00057	0.01354	0.00114	0.02707	0.01410	0.00057	0.01354	0.00114	0.02707	0.01410	0.0141
4	Farm/Shop	2	2	3.8	6.1	23.2	1.50	1.75	0.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.015	0.0003	0	0.03	0.0006	0.0006	0.00000	0.00077	0.00000	0.00154	0.00077	0.00000	0.00077	0.00000	0.00154	0.00077	0.0008
40	Residential	3	2	0.3	0.1	0.0	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
80	Residential	3	2	0.4	20.5	7.6	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
84	Residential	3	2	1.0	7.8	7.7	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
87	Residential	3	2	1.8	10.4	19.0	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00056	0.00000	0.00168	0.00084	0.00000	0.00056	0.00000	0.00168	0.00084	0.0008
9	Residential	3	2	0.2	3.0	0.5	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
11	Residential	3	2	0.4	2.8	1.2	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
17	Residential	3	2	0.6	4.9	2.9	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
24	Residential	3	2	1.7	7.9	13.1	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00032	0.00000	0.00097	0.00049	0.00000	0.00032	0.00000	0.00097	0.00049	0.0005
25	Residential	3	2	0.4	3.4	1.2	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
26	Residential	3	2	1.2	23.0	28.5	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00106	0.00000	0.00318	0.00159	0.00000	0.00106	0.00000	0.00318	0.00159	0.0016
29	Residential	3	2	0.5	4.2	2.2	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
34	Residential	3	2	0.9	19.1	17.4	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00050	0.00000	0.00149	0.00075	0.00000	0.00050	0.00000	0.00149	0.00075	0.0007
42	Residential	3	2	2.3	10.0	22.6	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00074	0.00000	0.00222	0.00111	0.00000	0.00074	0.00000	0.00222	0.00111	0.0011
48	Residential	3	2	0.6	3.0	1.7	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
49	Residential	3	2	0.4	37.9	13.9	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00036	0.00000	0.00107	0.00054	0.00000	0.00036	0.00000	0.00107	0.00054	0.0005
54	Residential	3	2	1.3	11.8	15.0	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00040	0.00000	0.00119	0.00060	0.00000	0.00040	0.00000	0.00119	0.00060	0.0006
61	Residential	3	2	1.0	2.1	2.2	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
62	Residential	3	2	0.7	10.5	7.2	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
79	Farm/Shop	2	2	1.0	7.8	7.9	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.015	0.0003	0	0.03	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
82	Residential	3	2	0.0	87.4	0.7	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
86	Residential	3	2	1.1	9.3	10.5	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00022	0.00000	0.00066	0.00033	0.00000	0.00022	0.00000	0.00066	0.00033	0.0003
90	Road	2	2	1.1	12.0	13.2	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.015	0.0003	0	0.03	0.0006	0.0006	0.00000	0.00033	0.00000	0.00065	0.00033	0.00000	0.00033	0.00000	0.00065	0.00033	0.0003
93	Residential	3	2	1.3	4.0	5.1	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
96	Residential	3	2	0.8	12.3	9.7	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
99	Residential	3	2	2.3	5.8	13.2	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00033	0.00000	0.00099	0.00049	0.00000	0.00033	0.00000	0.00099	0.00049	0.0005
110	Residential	3	2	5.8	9.4	54.5	1.58	1.83	0.83	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.03	0.03	0.24	0.09	0.09	0.00003	0.00287	0.00010	0.00860	0.00435	0.00003	0.00287	0.00010	0.00860	0.00435	0.0043
114	Residential	3	2	1.4	18.3	25.0	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00087	0.00000	0.00260	0.00130	0.00000	0.00087	0.00000	0.00260	0.00130	0.0013
128	Residential	3	2	5.1	11.5	58.8	1.58	1.83	0.83	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.03	0.03	0.24	0.09	0.09	0.00004	0.00318	0.00013	0.00954	0.00483	0.00004	0.00318	0.00013	0.00954	0.00483	0.0048
158	Residential	3	2	8.2	10.9	89.4	1.58	1.83	0.83	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.03	0.03	0.24	0.09	0.09	0.00013	0.00544	0.00040	0.01633	0.00836	0.00013	0.00544	0.00040	0.01633	0.00836	0.0084
160	Farm/Shop	2	2	11.5	9.6	110.0	1.58	1.83	0.83	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.01	0.12	0.06	0.01	0.08	0.03	0.02	0.16	0.06	0.06	0.00030	0.00697	0.00060	0.01394	0.00727	0.00030	0.00697	0.00060	0.01394	0.00727	0.0073
163	Residential	3	2	8.9	15.9	141.0	1.58	1.83	0.83	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.03	0.03	0.24	0.09	0.09	0.00040	0.00928	0.00121	0.02784	0.01452	0.00040	0.00928	0.00121	0.02784	0.01452	0.0145
88	Residential	3	2	0.5	8.4	4.0	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
14	Residential	3	2	0.3	9.3	2.6	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
89	Residential	3	2	0.5	3.6	1.7	1.58	1.83	0.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.0003	0	0.045	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
76	Residential	3	2	0.6	3.6	2.3	1.59	1.84	0.84	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
36	Residential	3	2	0.4	2.9	1.2	1.59	1.84	0.84	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
35	Residential	3	2	0.1	11.5	1.1	1.60	1.85	0.85	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
20	Residential	3	2	0.2	4.8	1.0	1.61	1.86	0.86	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
109	Residential	3	2	1.1	4.4	4.8	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
103	Residential	3	2	0.5	5.7	2.6	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
112	Residential	3	2	0.8	4.1	3.5	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
73	Residential	3	2	0.1	6.9	0.8	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
222	Residential	3	2	1.4	6.2	8.4	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
7	Residential	3	2	0.2	1.0	0.2	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
28	Residential	3	2	0.5	2.7	1.3	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
44	Residential	3	2	0.1	4.2	0.5	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
68	Residential	3	2	0.4	4.9	1.9	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted	Day Breach					Night Breach					Weighted
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life			LOL	Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			LOL
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
71	Residential	3	2	0.3	2.5	0.7	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
97	Residential	3	2	0.9	3.6	3.2	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
104	Residential	3	2	0.7	23.8	16.5	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00046	0.00000	0.00138	0.00069	0.00000	0.00046	0.00000	0.00138	0.00069	0.0007
105	Residential	3	2	1.1	4.3	4.8	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
108	Residential	3	2	1.2	10.7	12.4	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00029	0.00000	0.00088	0.00044	0.00000	0.00029	0.00000	0.00088	0.00044	0.0004
111	Residential	3	2	0.3	25.9	7.6	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
113	Residential	3	2	0.2	0.1	0.0	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
117	Residential	3	2	0.4	17.3	7.3	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
120	Residential	3	2	1.0	8.6	8.2	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
125	Residential	3	2	1.1	9.3	10.4	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00022	0.00000	0.00065	0.00033	0.00000	0.00022	0.00000	0.00065	0.00033	0.0003
131	Residential	3	2	1.5	5.3	8.0	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
146	Residential	3	2	2.2	5.0	11.2	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00025	0.00000	0.00074	0.00037	0.00000	0.00025	0.00000	0.00074	0.00037	0.0004
150	Residential	3	2	1.5	7.9	11.9	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00027	0.00000	0.00082	0.00041	0.00000	0.00027	0.00000	0.00082	0.00041	0.0004
153	Residential	3	2	0.3	16.3	5.7	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
165	Residential	3	2	0.9	3.0	2.7	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
166	Residential	3	2	6.9	17.9	124.0	1.67	1.92	0.92	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.04	0.03	0.24	0.12	0.105	0.00035	0.00801	0.00104	0.02404	0.01254	0.00035	0.00801	0.00104	0.02404	0.01254	0.0125
168	Farm/Shop	2	2	1.5	16.6	25.6	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.015	0.007	0	0.03	0.014	0.0073	0.00000	0.00090	0.00000	0.00180	0.00090	0.00000	0.00090	0.00000	0.00180	0.00090	0.0009
169	Residential	3	2	0.2	8.2	1.5	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
172	Residential	3	2	3.6	11.2	40.5	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00185	0.00000	0.00554	0.00277	0.00000	0.00185	0.00000	0.00554	0.00277	0.0028
175	Residential	3	2	6.6	17.4	115.6	1.67	1.92	0.92	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.04	0.03	0.24	0.12	0.105	0.00032	0.00739	0.00096	0.02216	0.01156	0.00032	0.00739	0.00096	0.02216	0.01156	0.0116
192	Residential	3	2	3.1	9.7	30.5	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00116	0.00000	0.00349	0.00174	0.00000	0.00116	0.00000	0.00349	0.00174	0.0017
194	Farm/Shop	2	2	0.7	2.5	1.7	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.015	0.007	0	0.03	0.014	0.0073	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
202	Residential	3	2	5.4	19.4	104.1	1.67	1.92	0.92	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.04	0.03	0.24	0.12	0.105	0.00024	0.00653	0.00072	0.01960	0.01016	0.00024	0.00653	0.00072	0.01960	0.01016	0.0102
203	Residential	3	2	1.7	11.0	18.4	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00053	0.00000	0.00160	0.00080	0.00000	0.00053	0.00000	0.00160	0.00080	0.0008
213	Residential	3	2	0.8	5.3	4.2	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
218	Residential	3	2	4.3	9.2	39.3	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00176	0.00000	0.00529	0.00264	0.00000	0.00176	0.00000	0.00529	0.00264	0.0026
219	Residential	3	2	7.5	16.0	120.5	1.67	1.92	0.92	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.04	0.03	0.24	0.12	0.105	0.00034	0.00775	0.00101	0.02326	0.01213	0.00034	0.00775	0.00101	0.02326	0.01213	0.0121
223	Residential	3	2	2.1	4.8	9.9	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
224	Residential	3	2	6.5	14.9	96.4	1.67	1.92	0.92	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.04	0.03	0.24	0.12	0.105	0.00018	0.00596	0.00053	0.01789	0.00921	0.00018	0.00596	0.00053	0.01789	0.00921	0.0092
225	Residential	3	2	1.8	7.4	13.4	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00034	0.00000	0.00101	0.00050	0.00000	0.00034	0.00000	0.00101	0.00050	0.0005
226	Residential	3	2	1.9	8.8	17.0	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00048	0.00000	0.00144	0.00072	0.00000	0.00048	0.00000	0.00144	0.00072	0.0007
227	Residential	3	2	0.3	4.6	1.5	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
231	Residential	3	2	7.4	12.3	91.8	1.67	1.92	0.92	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.04	0.03	0.24	0.12	0.105	0.00015	0.00562	0.00044	0.01686	0.00865	0.00015	0.00562	0.00044	0.01686	0.00865	0.0087
232	School	100	2	1.5	3.2	4.7	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.06	0.03	0	0.015	0.007	0	1.5	0.7	0.365	0.00000	0.00020	0.00000	0.02000	0.01000	0.00000	0.00020	0.00000	0.02000	0.01000	0.0100
233	Residential	3	2	1.3	8.4	11.3	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00025	0.00000	0.00076	0.00038	0.00000	0.00025	0.00000	0.00076	0.00038	0.0004
234	Residential	3	2	8.1	11.2	91.1	1.67	1.92	0.92	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.04	0.03	0.24	0.12	0.105	0.00014	0.00557	0.00042	0.01671	0.00857	0.00014	0.00557	0.00042	0.01671	0.00857	0.0086
237	Residential	3	2	7.6	10.9	82.2	1.67	1.92	0.92	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.04	0.03	0.24	0.12	0.105	0.00011	0.00491	0.00032	0.01473	0.00753	0.00011	0.00491	0.00032	0.01473	0.00753	0.0075
239	Residential	3	2	1.0	13.9	14.6	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00038	0.00000	0.00115	0.00057	0.00000	0.00038	0.00000	0.00115	0.00057	0.0006
242	Residential	3	2	5.0	12.3	60.8	1.67	1.92	0.92	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.04	0.03	0.24	0.12	0.105	0.00005	0.00333	0.00015	0.00999	0.00507	0.00005	0.00333	0.00015	0.00999	0.00507	0.0051
243	Road	2	2	2.2	7.8	17.4	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.015	0.007	0	0.03	0.014	0.0073	0.00000	0.00050	0.00000	0.00099	0.00050	0.00000	0.00050	0.00000	0.00099	0.00050	0.0005
245	Residential	3	2	2.3	15.6	35.7	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00150	0.00000	0.00449	0.00225	0.00000	0.00150	0.00000	0.00449	0.00225	0.0022
247	Residential	3	2	10.2	12.7	129.0	1.67	1.92	0.92	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.04	0.03	0.24	0.12	0.105	0.00036	0.00838	0.00109	0.02515	0.01312	0.00036	0.00838	0.00109	0.02515	0.01312	0.0131
249	Road	2	2	12.5	13.9	173.8	1.67	1.92	0.92	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.01	0.12	0.06	0.01	0.08	0.04	0.02	0.16	0.08	0.07	0.00046	0.01106	0.00093	0.02211	0.01152	0.00046	0.01106	0.00093	0.02211	0.01152	0.0115
250	Farm/Shop	2	2	2.7	8.6	23.5	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.015	0.007	0	0.03	0.014	0.0073	0.00000	0.00079	0.00000	0.00157	0.00079	0.00000	0.00079	0.00000	0.00157	0.00079	0.0008
252	Residential	3	2	7.8	17.0	132.0	1.67	1.92	0.92	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.01	0.08	0.04	0.03	0.24	0.12	0.105	0.00037	0.00861	0.00112	0.02583	0.01347	0.00037	0.00861	0.00112	0.02583	0.01347	0.0135
107	Road	2	2	0.5	9.5	4.5	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.015	0.007	0	0.03	0.014	0.0073	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
115	Residential	3	2	0.5	18.8	9.0	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
39	Residential	3	2	0.2	2.5	0.6	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
91	Residential	3	2	0.2	2.3	0.4	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
145	Residential	3	2	1.5	9.1	14.1	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00036	0.00000	0.00109	0.00054	0.00000	0.00036	0.00000	0.00109	0.00054	0.0005
141	Residential	3	2	1.7	8.6	14.9	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00039	0.00000	0.00118	0.00059	0.00000	0.00039	0.00000	0.00118	0.00059	0.0006
118	Residential	3	2	0.4	7.5	3.1	1.67	1.92	0.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
156	Residential	3	2	0.5	23.0	12.4	1.69	1.94	0.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00030	0.00000	0.00089	0.00045	0.00000	0.00030	0.00000	0.00089	0.00045	0.0004
148	Residential	3	2	1.0	0.1	0.1	1.70	1.95	0.95	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
162	Residential	3	2	0.8	3.2	2.4	1.71	1.96	0.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
135	Residential	3	2	0.4	11.7	4.6	1.72	1.97	0.97	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
255	Residential	3	2	0.9	4.5	4.1	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.015	0.007	0	0.045	0.021	0.01095	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
256	Road	2	2	1.9	7.7	14.6	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.015	0.007	0	0.03	0.014	0.0073	0.00000	0.00038	0.00000	0.00076	0.00038	0.00000	0.00038	0.00000	0.00076	0.00038	0.0004
38	Residential	3	2	0.3	3.2	0.9	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
83	Residential	3	2	0.3	1.4	0.4	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
116	Residential	3	2	0.8	3.3	2.5	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
124	Residential	3	2	0.9	3.7	3.1	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
149	Residential	3	2	0.8	1.8	1.4	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
152	Residential	3	2	0.4	6.1	2.2	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
220	Residential	3	2	0.8	2.1	1.6	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
221	Residential	3	2	1.1	4.6	4.9	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
228	Residential	3	2	0.6	6.6	3.8	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
229	Residential	3	2	1.0	5.5	5.8	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
236	Residential	3	2	0.7	4.0	2.8	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
246	Residential	3	2	3.8	13.7	51.7	1.75	2.00	1.00	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0	0.0006	0.0003	0	0.0018	0.0009	0.04545	0.00002	0.00266	0.00007	0.00799	0.00403	0.00002	0.00266	0.00007	0.00799	0.00403	0.0040
248	Residential	3	2	0.6	7.7	4.9	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
254	Residential	3	2	8.4	13.9	116.4	1.75	2.00	1.00	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0	0.0006	0.0003	0	0.0018	0.0009	0.04545	0.00032	0.00745	0.00096	0.02235	0.01166	0.00032	0.00745	0.00096	0.02235	0.01166	0.0117
257	Commercial	10	2	1.4	7.4	10.2	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00021	0.00000	0.00206	0.00103	0.00000	0.00021	0.00000	0.00206	0.00103	0.0010
258	Residential	3	2	4.0	13.6	54.2	1.75	2.00	1.00	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0	0.0006	0.0003	0	0.0018	0.0009	0.04545	0.00003	0.00285	0.00009	0.00854	0.00432	0.00003	0.00285	0.00009	0.00854	0.00432	0.0043
259	Residential	3	2	2.2	6.6	14.4	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00038	0.00000	0.00113	0.00056	0.00000	0.00038	0.00000	0.00113	0.00056	0.0006
261	Road	2	2	7.9	14.1	112.0	1.75	2.00	1.00	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.01	0.12	0.06	0	0.0006	0.0003	0	0.0012	0.0006	0.0303	0.00031	0.00712	0.00061	0.01424	0.00742	0.00031	0.00712	0.00061	0.01424	0.00742	0.0074
262	Farm/Shop	2	2	2.1	7.9	16.8	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00047	0.00000	0.00094	0.00047	0.00000	0.00047	0.00000	0.00094	0.00047	0.0005
268	Residential	3	2	0.4	0.1	0.0	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
271	Residential	3	2	6.7	15.3	102.5	1.75	2.00	1.00	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0	0.0006	0.0003	0	0.0018	0.0009	0.04545	0.00022	0.00641	0.00067	0.01924	0.00996	0.00022	0.00641	0.00067	0.01924	0.00996	0.0100
273	Residential	3	2	8.3	12.2	100.5	1.75	2.00	1.00	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0	0.0006	0.0003	0	0.0018	0.0009	0.04545	0.00020	0.00626	0.00061	0.01879	0.00970	0.00020	0.00626	0.00061	0.01879	0.00970	0.0097
278	Road	2	2	3.9	13.4	52.0	1.75	2.00	1.00	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.01	0.12	0.06	0	0.0006	0.0003	0	0.0012	0.0006	0.0303	0.00003	0.00268	0.00005	0.00537	0.00271	0.00003	0.00268	0.00005	0.00537	0.00271	0.0027
279	Residential	3	2	0.7	20.8	14.1	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00109	0.00054	0.00000	0.00036	0.00000	0.00109	0.00054	0.0005
282	Residential	3	2	6.2	14.2	87.6	1.75	2.00	1.00	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0	0.0006	0.0003	0	0.0018	0.0009	0.04545	0.00013	0.00531	0.00038	0.01593	0.00816	0.00013	0.00531	0.00038	0.01593	0.00816	0.0082
283	Residential	3	2	5.5	12.8	70.5	1.75	2.00	1.00	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0	0.0006	0.0003	0	0.0018	0.0009	0.04545	0.00007	0.00404	0.00022	0.01211	0.00617	0.00007	0.00404	0.00022	0.01211	0.00617	0.0062
288	Residential	3	2	0.4	17.7	6.2	1.75	2.00	1.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
129	Residential	3	2	0.7	2.0	1.4	1.76	2.01	1.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
121	Residential	3	2	0.5	4.3	2.1	1.76	2.01	1.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
50	Residential	3	2	0.1	1.8	0.3	1.76	2.01	1.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
139	Residential	3	2	0.6	5.0	2.9	1.77	2.02	1.02	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
276	Residential	3	2	2.2	11.6	25.2	1.77	2.02	1.02	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00088	0.00000	0.00264	0.00132	0.00000	0.00088	0.00000	0.00264	0.00132	0.0013
238	Residential	3	2	0.8	2.0	1.6	1.77	2.02	1.02	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
275	Residential	3	2	1.9	8.8	16.5	1.77	2.02	1.02	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00046	0.00000	0.00138	0.00069	0.00000	0.00046	0.00000	0.00138	0.00069	0.0007
230	Residential	3	2	0.0	0.1	0.0	1.79	2.04	1.04	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
155	Residential	3	2	0.8	2.4	2.1	1.79	2.04	1.04	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
260	Residential	3	2	1.8	6.6	12.1	1.82	2.07	1.07	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00028	0.00000	0.00085	0.00043	0.00000	0.00028	0.00000	0.00085	0.00043	0.0004
277	Residential	3	2	1.2	5.1	6.0	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
274	Residential	3	2	0.9	8.8	7.6	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
23	Residential	3	2	0.2	1.7	0.3	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
37	Residential	3	2	0.1	0.1	0.0	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
47	Residential	3	2	0.4	2.8	1.2	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
55	Residential	3	2	0.3	0.7	0.2	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
56	Residential	3	2	0.1	2.7	0.4	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
85	Residential	3	2	0.1	1.5	0.1	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
94	Residential	3	2	0.2	1.9	0.4	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
185	Residential	3	2	0.7	1.1	0.8	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
235	Residential	3	2	0.3	2.0	0.7	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
240	Residential	3	2	1.1	4.0	4.6	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
241	Residential	3	2	0.4	6.8	2.4	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
244	Residential	3	2	0.7	3.9	2.6	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
264	Residential	3	2	1.2	3.6	4.6	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
269	Residential	3	2	1.4	10.3	14.0	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00108	0.00054	0.00000	0.00036	0.00000	0.00108	0.00054	0.0005
281	Residential	3	2	2.3	7.4	16.8	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00047	0.00000	0.00141	0.00071	0.00000	0.00047	0.00000	0.00141	0.00071	0.0007
284	Residential	3	2	1.7	8.2	13.9	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00035	0.00000	0.00106	0.00053	0.00000	0.00035	0.00000	0.00106	0.00053	0.0005
285	Farm/Shop	2	2	0.9	9.9	9.1	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
289	Residential	3	2	4.6	13.4	62.2	1.83	2.08	1.08	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00005	0.00343	0.00016	0.01029	0.00523	0.00005	0.00343	0.00016	0.01029	0.00523	0.0052
297	Residential	3	2	1.1	8.4	9.5	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
301	Residential	3	2	3.8	8.1	31.1	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00120	0.00000	0.00359	0.00179	0.00000	0.00120	0.00000	0.00359	0.00179	0.0018
303	Residential	3	2	5.0	14.4	72.2	1.83	2.08	1.08	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00008	0.00416	0.00024	0.01249	0.00637	0.00008	0.00416	0.00024	0.01249	0.00637	0.0064
310	Road	2	2	3.8	6.7	25.1	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00087	0.00000	0.00175	0.00087	0.00000	0.00087	0.00000	0.00175	0.00087	0.0009
311	Road	2	2	6.0	16.2	97.6	1.83	2.08	1.08	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.01	0.12	0.06	0.005	0.06	0.03	0.01	0.12	0.06	0.06	0.00018	0.00605	0.00037	0.01211	0.00624	0.00018	0.00605	0.00037	0.01211	0.00624	0.0062
316	Residential	3	2	2.0	12.1	24.3	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00083	0.00000	0.00249	0.00124	0.00000	0.00083	0.00000	0.00249	0.00124	0.0012
318	Farm/Shop	2	2	3.0	9.4	28.4	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00105	0.00000	0.00210	0.00105	0.00000	0.00105	0.00000	0.00210	0.00105	0.0011
322	Residential	3	2	4.4	15.3	66.9	1.83	2.08	1.08	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00007	0.00377	0.00020	0.01132	0.00576	0.00007	0.00377	0.00020	0.01132	0.00576	0.0058
325	Road	2	2	4.3	6.5	27.7	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00101	0.00000	0.00202	0.00101	0.00000	0.00101	0.00000	0.00202	0.00101	0.0010
326	Residential	3	2	3.8	13.4	50.8	1.83	2.08	1.08	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00002	0.00260	0.00007	0.00781	0.00394	0.00002	0.00260	0.00007	0.00781	0.00394	0.0039
329	Farm/Shop	2	2	3.9	12.2	47.7	1.83	2.08	1.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00002	0.00237	0.00003	0.00475	0.00239	0.00002	0.00237	0.00003	0.00475	0.00239	0.0024
337	Residential	3	2	3.7	15.0	55.9	1.83	2.08	1.08	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00004	0.00297	0.00011	0.00891	0.00451	0.00004	0.00297	0.00011	0.00891	0.00451	0.0045
302	Commercial	10	2	0.8	10.5	8.9	1.84	2.09	1.09	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
31	Residential	3	2	0.1	11.3	0.7	1.87	2.12	1.12	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
313	Residential	3	2	2.7	7.2	19.3	1.90	2.15	1.15	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00057	0.00000	0.00171	0.00086	0.00000	0.00057	0.00000	0.00171	0.00086	0.0009
27	Residential	3	2	0.1	4.5	0.6	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
52	Residential	3	2	0.4	2.4	0.9	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
58	Residential	3	2	0.1	0.1	0.0	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
65	Residential	3	2	0.3	1.7	0.5	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
95	Residential	3	2	0.2	0.8	0.2	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
266	Residential	3	2	1.6	4.4	7.0	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
280	Residential	3	2	1.0	4.5	4.5	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
295	Residential	3	2	1.0	5.7	5.5	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)										
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach				Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
296	Residential	3	2	1.6	6.7	10.5	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00022	0.00000	0.00066	0.00033	0.00000	0.00022	0.00000	0.00066	0.00033	0.0003
298	Residential	3	2	1.7	6.3	10.6	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00023	0.00000	0.00068	0.00034	0.00000	0.00023	0.00000	0.00068	0.00034	0.0003
315	Residential	3	2	1.4	10.2	14.6	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00038	0.00000	0.00115	0.00057	0.00000	0.00038	0.00000	0.00115	0.00057	0.0006
333	Residential	3	2	1.8	10.8	19.8	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00059	0.00000	0.00178	0.00089	0.00000	0.00059	0.00000	0.00178	0.00089	0.0009
335	Residential	3	2	1.9	9.6	18.2	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00053	0.00000	0.00158	0.00079	0.00000	0.00053	0.00000	0.00158	0.00079	0.0008
340	Residential	3	2	1.0	9.8	10.0	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
344	Residential	3	2	1.0	20.0	19.5	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00058	0.00000	0.00174	0.00087	0.00000	0.00058	0.00000	0.00174	0.00087	0.0009
349	Residential	3	2	2.0	8.4	16.5	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00046	0.00000	0.00138	0.00069	0.00000	0.00046	0.00000	0.00138	0.00069	0.0007
358	Residential	3	2	2.1	9.7	20.3	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00062	0.00000	0.00185	0.00093	0.00000	0.00062	0.00000	0.00185	0.00093	0.0009
361	Residential	3	2	4.1	5.1	20.9	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00065	0.00000	0.00195	0.00097	0.00000	0.00065	0.00000	0.00195	0.00097	0.0010
365	Residential	3	2	3.4	6.1	20.7	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00064	0.00000	0.00192	0.00096	0.00000	0.00064	0.00000	0.00192	0.00096	0.0010
369	Residential	3	2	1.3	14.3	18.3	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00053	0.00000	0.00160	0.00080	0.00000	0.00053	0.00000	0.00160	0.00080	0.0008
379	Road	2	2	3.2	9.7	31.1	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00120	0.00000	0.00240	0.00120	0.00000	0.00120	0.00000	0.00240	0.00120	0.0012
399	Residential	3	2	4.1	7.2	29.5	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00111	0.00000	0.00333	0.00166	0.00000	0.00111	0.00000	0.00333	0.00166	0.0017
415	Residential	3	2	4.6	11.2	52.0	1.92	2.17	1.17	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00003	0.00269	0.00008	0.00806	0.00407	0.00003	0.00269	0.00008	0.00806	0.00407	0.0041
425	Residential	3	2	4.2	9.0	37.9	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00166	0.00000	0.00497	0.00248	0.00000	0.00166	0.00000	0.00497	0.00248	0.0025
442	Residential	3	2	1.5	6.7	10.3	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00021	0.00000	0.00064	0.00032	0.00000	0.00021	0.00000	0.00064	0.00032	0.0003
503	Residential	3	2	3.4	12.2	41.5	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00192	0.00001	0.00577	0.00289	0.00000	0.00192	0.00001	0.00577	0.00289	0.0029
515	Residential	3	2	3.4	11.6	39.2	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00175	0.00000	0.00526	0.00263	0.00000	0.00175	0.00000	0.00526	0.00263	0.0026
532	Residential	3	2	4.4	13.2	58.3	1.92	2.17	1.17	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00004	0.00315	0.00013	0.00945	0.00479	0.00004	0.00315	0.00013	0.00945	0.00479	0.0048
560	Farm/Shop	2	2	2.3	6.6	15.3	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00041	0.00000	0.00082	0.00041	0.00000	0.00041	0.00000	0.00082	0.00041	0.0004
619	Residential	3	2	4.4	16.3	72.1	1.92	2.17	1.17	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00008	0.00416	0.00024	0.01247	0.00635	0.00008	0.00416	0.00024	0.01247	0.00635	0.0064
625	Residential	3	2	4.2	15.8	66.8	1.92	2.17	1.17	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00006	0.00377	0.00019	0.01130	0.00575	0.00006	0.00377	0.00019	0.01130	0.00575	0.0057
665	Farm/Shop	2	2	1.1	19.4	20.9	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00065	0.00000	0.00130	0.00065	0.00000	0.00065	0.00000	0.00130	0.00065	0.0007
722	Farm/Shop	2	2	5.3	9.9	52.6	1.92	2.17	1.17	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.01	0.12	0.06	0.005	0.06	0.03	0.01	0.12	0.06	0.06	0.00003	0.00273	0.00005	0.00546	0.00276	0.00003	0.00273	0.00005	0.00546	0.00276	0.0028
467	Residential	3	2	1.5	17.1	26.0	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00092	0.00000	0.00277	0.00139	0.00000	0.00092	0.00000	0.00277	0.00139	0.0014
286	Residential	3	2	1.3	5.5	7.0	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
41	Residential	3	2	0.2	3.2	0.5	1.92	2.17	1.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
641	Residential	3	2	1.5	15.3	23.7	1.94	2.19	1.19	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00080	0.00000	0.00239	0.00120	0.00000	0.00080	0.00000	0.00239	0.00120	0.0012
370	Residential	3	2	1.7	9.6	16.0	1.96	2.21	1.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00044	0.00000	0.00132	0.00066	0.00000	0.00044	0.00000	0.00132	0.00066	0.0007
51	Residential	3	2	0.2	5.4	1.2	1.98	2.23	1.23	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
66	Residential	3	2	0.2	1.9	0.3	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
10	Residential	3	2	0.2	0.6	0.1	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
15	Residential	3	2	0.0	0.1	0.0	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
46	Residential	3	2	0.1	20.6	1.3	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
53	Residential	3	2	0.5	2.2	1.0	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
72	Residential	3	2	0.2	2.2	0.4	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
77	Residential	3	2	0.1	2.4	0.3	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
102	Residential	3	2	0.1	3.5	0.3	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
251	Residential	3	2	0.4	3.3	1.3	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
292	Residential	3	2	0.0	89.4	4.3	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
339	Residential	3	2	0.7	14.1	9.5	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
364	Farm/Shop	2	2	0.8	9.4	8.0	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
375	Residential	3	2	2.4	7.2	17.2	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00049	0.00000	0.00146	0.00073	0.00000	0.00049	0.00000	0.00146	0.00073	0.0007
376	Residential	3	2	1.6	7.3	11.9	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00028	0.00000	0.00083	0.00041	0.00000	0.00028	0.00000	0.00083	0.00041	0.0004
380	Residential	3	2	0.7	30.2	22.3	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00072	0.00000	0.00217	0.00108	0.00000	0.00072	0.00000	0.00217	0.00108	0.0011
417	Residential	3	2	2.7	10.0	26.9	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00097	0.00000	0.00292	0.00146	0.00000	0.00097	0.00000	0.00292	0.00146	0.0015
438	Road	2	2	4.0	7.8	30.9	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00119	0.00000	0.00238	0.00119	0.00000	0.00119	0.00000	0.00238	0.00119	0.0012
497	Residential	3	2	3.6	7.2	26.1	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00093	0.00000	0.00279	0.00140	0.00000	0.00093	0.00000	0.00279	0.00140	0.0014
548	Residential	3	2	0.7	14.1	10.3	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00021	0.00000	0.00064	0.00032	0.00000	0.00021	0.00000	0.00064	0.00032	0.0003
572	Residential	3	2	1.4	7.2	10.0	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
607	Residential	3	2	2.2	6.7	14.8	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00039	0.00000	0.00117	0.00059	0.00000	0.00039	0.00000	0.00117	0.00059	0.0006
661	Residential	3	2	3.3	6.1	20.2	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00061	0.00000	0.00183	0.00091	0.00000	0.00061	0.00000	0.00183	0.00091	0.0009
697	Residential	3	2	3.0	6.4	19.0	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00056	0.00000	0.00168	0.00084	0.00000	0.00056	0.00000	0.00168	0.00084	0.0008
717	Road	2	2	2.4	12.6	29.7	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00112	0.00000	0.00225	0.00112	0.00000	0.00112	0.00000	0.00225	0.00112	0.0011
724	Residential	3	2	3.6	11.5	41.7	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00193	0.00001	0.00580	0.00290	0.00000	0.00193	0.00001	0.00580	0.00290	0.0029
727	Residential	3	2	2.8	10.0	28.2	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00104	0.00000	0.00312	0.00156	0.00000	0.00104	0.00000	0.00312	0.00156	0.0016
731	Residential	3	2	3.9	11.9	46.6	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00001	0.00229	0.00004	0.00688	0.00346	0.00001	0.00229	0.00004	0.00688	0.00346	0.0035
732	Residential	3	2	6.9	13.9	96.3	2.00	2.25	1.25	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00018	0.00595	0.00053	0.01786	0.00919	0.00018	0.00595	0.00053	0.01786	0.00919	0.0092
747	Residential	3	2	6.5	8.9	58.3	2.00	2.25	1.25	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00004	0.00314	0.00013	0.00943	0.00478	0.00004	0.00314	0.00013	0.00943	0.00478	0.0048
749	Residential	3	2	6.3	10.5	66.8	2.00	2.25	1.25	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00006	0.00377	0.00019	0.01130	0.00575	0.00006	0.00377	0.00019	0.01130	0.00575	0.0057
305	Residential	3	2	0.2	7.7	1.3	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
63	Residential	3	2	0.2	3.7	0.6	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
33	Residential	3	2	0.3	2.3	0.6	2.00	2.25	1.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
253	Residential	3	2	0.2	6.3	1.2	2.03	2.28	1.28	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
397	Residential	3	2	2.2	10.8	23.7	2.03	2.28	1.28	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00080	0.00000	0.00239	0.00120	0.00000	0.00080	0.00000	0.00239	0.00120	0.0012
362	Commercial	10	2	0.7	6.5	4.4	2.04	2.29	1.29	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
12	Residential	3	2	0.1	0.1	0.0	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
534	Residential	3	2	1.4	0.1	0.1	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
45	Residential	3	2	0.1	4.0	0.4	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
69	Residential	3	2	0.4	1.1	0.4	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
267	Residential	3	2	0.0	9.9	0.2	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
272	Residential	3	2	0.4	2.6	1.1	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
306	Farm/Shop	2	2	1.4	3.0	4.1	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
307	Residential	3	2	1.0	3.0	3.0	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
359	Residential	3	2	0.9	7.0	6.5	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
363	Farm/Shop	2	2	0.8	3.6	3.0	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
612	Residential	3	2	1.4	2.7	3.9	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
636	Residential	3	2	0.5	4.0	2.2	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
650	Residential	3	2	0.5	0.1	0.0	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
659	Residential	3	2	0.6	8.4	4.7	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
754	Residential	3	2	5.0	10.0	49.9	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00002	0.00254	0.00006	0.00761	0.00383	0.00002	0.00254	0.00006	0.00761	0.00383	0.0038
757	Residential	3	2	5.9	12.5	73.6	2.08	2.33	1.33	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00008	0.00427	0.00025	0.01281	0.00653	0.00008	0.00427	0.00025	0.01281	0.00653	0.0065
759	Residential	3	2	5.9	12.5	73.3	2.08	2.33	1.33	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00008	0.00424	0.00025	0.01273	0.00649	0.00008	0.00424	0.00025	0.01273	0.00649	0.0065
761	Residential	3	2	5.0	15.6	78.3	2.08	2.33	1.33	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00010	0.00462	0.00029	0.01385	0.00707	0.00010	0.00462	0.00029	0.01385	0.00707	0.0071
768	Residential	3	2	8.0	7.5	59.7	2.08	2.33	1.33	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00005	0.00325	0.00014	0.00975	0.00495	0.00005	0.00325	0.00014	0.00975	0.00495	0.0049
771	Farm/Shop	2	2	7.1	10.3	72.8	2.08	2.33	1.33	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.01	0.12	0.06	0.005	0.06	0.03	0.01	0.12	0.06	0.06	0.00008	0.00421	0.00016	0.00842	0.00429	0.00008	0.00421	0.00016	0.00842	0.00429	0.0043
774	Residential	3	2	5.5	5.9	32.1	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00125	0.00000	0.00375	0.00187	0.00000	0.00125	0.00000	0.00375	0.00187	0.0019
775	Residential	3	2	2.2	10.2	22.7	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00075	0.00000	0.00224	0.00112	0.00000	0.00075	0.00000	0.00224	0.00112	0.0011
777	Residential	3	2	4.5	8.7	38.9	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00173	0.00000	0.00519	0.00259	0.00000	0.00173	0.00000	0.00519	0.00259	0.0026
778	Residential	3	2	2.8	13.0	36.3	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00154	0.00000	0.00462	0.00231	0.00000	0.00154	0.00000	0.00462	0.00231	0.0023
780	Residential	3	2	2.3	11.0	25.2	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00088	0.00000	0.00263	0.00132	0.00000	0.00088	0.00000	0.00263	0.00132	0.0013
785	Residential	3	2	1.2	19.3	22.6	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00074	0.00000	0.00222	0.00111	0.00000	0.00074	0.00000	0.00222	0.00111	0.0011
806	Residential	3	2	6.9	7.0	48.0	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00002	0.00239	0.00005	0.00717	0.00361	0.00002	0.00239	0.00005	0.00717	0.00361	0.0036
59	Residential	3	2	0.0	22.6	1.0	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
769	Residential	3	2	3.1	7.3	22.8	2.08	2.33	1.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00075	0.00000	0.00226	0.00113	0.00000	0.00075	0.00000	0.00226	0.00113	0.0011
19	Residential	3	2	0.1	1.7	0.1	2.10	2.35	1.35	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
782	Residential	3	2	0.8	20.3	15.4	2.10	2.35	1.35	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00125	0.00063	0.00000	0.00042	0.00000	0.00125	0.00063	0.0006
348	Residential	3	2	0.7	2.8	2.0	2.10	2.35	1.35	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
78	Residential	3	2	0.0	0.1	0.0	2.11	2.36	1.36	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
21	Residential	3	2	0.1	0.1	0.0	2.13	2.38	1.38	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
75	Residential	3	2	0.0	9.8	0.2	2.15	2.40	1.40	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
762	Residential	3	2	0.8	5.5	4.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
858	Residential	3	2	1.9	7.7	14.5	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00038	0.00000	0.00114	0.00057	0.00000	0.00038	0.00000	0.00114	0.00057	0.0006
309	Residential	3	2	1.2	4.2	5.1	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
312	Residential	3	2	1.3	4.3	5.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
320	Farm/Shop	2	2	0.9	4.1	3.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
323	Residential	3	2	1.0	2.8	2.9	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
324	Residential	3	2	0.2	4.5	0.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
352	Farm/Shop	2	2	0.3	4.5	1.5	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
353	Residential	3	2	0.7	4.0	3.0	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
356	Residential	3	2	0.1	7.8	0.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
604	Residential	3	2	0.7	2.2	1.5	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
630	Residential	3	2	1.1	3.3	3.7	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
637	Residential	3	2	0.5	2.7	1.4	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
647	Residential	3	2	1.7	2.9	4.9	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
656	Residential	3	2	0.8	4.5	3.7	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
692	Residential	3	2	1.0	6.5	6.3	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
720	Residential	3	2	0.4	18.5	6.9	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
750	Residential	3	2	2.7	8.2	22.2	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00072	0.00000	0.00215	0.00108	0.00000	0.00072	0.00000	0.00215	0.00108	0.0011
755	Residential	3	2	2.5	5.9	14.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00039	0.00000	0.00117	0.00059	0.00000	0.00039	0.00000	0.00117	0.00059	0.0006
764	Residential	3	2	1.6	7.9	12.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00031	0.00000	0.00094	0.00047	0.00000	0.00031	0.00000	0.00094	0.00047	0.0005
766	Residential	3	2	7.4	4.5	33.1	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00131	0.00000	0.00392	0.00196	0.00000	0.00131	0.00000	0.00392	0.00196	0.0020
770	Residential	3	2	4.2	7.3	30.4	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00116	0.00000	0.00349	0.00174	0.00000	0.00116	0.00000	0.00349	0.00174	0.0017
772	Residential	3	2	4.6	11.5	52.8	2.17	2.42	1.42	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00003	0.00274	0.00008	0.00823	0.00415	0.00003	0.00274	0.00008	0.00823	0.00415	0.0042
773	Farm/Shop	2	2	3.9	6.8	26.4	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00094	0.00000	0.00189	0.00094	0.00000	0.00094	0.00000	0.00189	0.00094	0.0009
776	Residential	3	2	4.9	7.4	35.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00151	0.00000	0.00452	0.00226	0.00000	0.00151	0.00000	0.00452	0.00226	0.0023
779	Residential	3	2	6.9	8.1	56.4	2.17	2.42	1.42	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00004	0.00301	0.00011	0.00903	0.00457	0.00004	0.00301	0.00011	0.00903	0.00457	0.0046
784	Residential	3	2	5.4	4.6	25.1	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00087	0.00000	0.00262	0.00131	0.00000	0.00087	0.00000	0.00262	0.00131	0.0013
786	Residential	3	2	5.1	4.1	20.9	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00065	0.00000	0.00195	0.00097	0.00000	0.00065	0.00000	0.00195	0.00097	0.0010
787	Residential	3	2	2.3	5.9	13.5	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00034	0.00000	0.00102	0.00051	0.00000	0.00034	0.00000	0.00102	0.00051	0.0005
789	Residential	3	2	2.1	11.8	24.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00086	0.00000	0.00257	0.00129	0.00000	0.00086	0.00000	0.00257	0.00129	0.0013
790	Residential	3	2	2.9	6.9	20.0	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00060	0.00000	0.00180	0.00090	0.00000	0.00060	0.00000	0.00180	0.00090	0.0009
791	Residential	3	2	2.5	6.7	16.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00047	0.00000	0.00142	0.00071	0.00000	0.00047	0.00000	0.00142	0.00071	0.0007
792	Residential	3	2	2.9	19.2	54.9	2.17	2.42	1.42	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00003	0.00290	0.00010	0.00869	0.00439	0.00003	0.00290	0.00010	0.00869	0.00439	0.0044
793	Residential	3	2	2.6	9.7	25.1	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00087	0.00000	0.00262	0.00131	0.00000	0.00087	0.00000	0.00262	0.00131	0.0013
795	Residential	3	2	3.4	3.8	13.0	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00032	0.00000	0.00096	0.00048	0.00000	0.00032	0.00000	0.00096	0.00048	0.0005
796	Residential	3	2	2.2	8.5	18.7	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
797	Residential	3	2	3.5	5.2	18.3	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00053	0.00000	0.00159	0.00080	0.00000	0.00053	0.00000	0.00159	0.00080	0.0008
799	Residential	3	2	2.8	9.2	26.1	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00093	0.00000	0.00278	0.00139	0.00000	0.00093	0.00000	0.00278	0.00139	0.0014
800	Residential	3	2	0.8	13.3	10.2	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00021	0.00000	0.00063	0.00031	0.00000	0.00021	0.00000	0.00063	0.00031	0.0003
803	Residential	3	2	2.5	6.8	16.9	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00048	0.00000	0.00143	0.00071	0.00000	0.00048	0.00000	0.00143	0.00071	0.0007
805	Residential	3	2	2.4	8.3	19.7	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00059	0.00000	0.00177	0.00088	0.00000	0.00059	0.00000	0.00177	0.00088	0.0009
808	Residential	3	2	2.6	5.3	13.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00035	0.00000	0.00105	0.00053	0.00000	0.00035	0.00000	0.00105	0.00053	0.0005
809	Residential	3	2	3.0	5.2	15.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00127	0.00063	0.00000	0.00042	0.00000	0.00127	0.00063	0.0006
811	Residential	3	2	4.1	4.5	18.4	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00054	0.00000	0.00161	0.00080	0.00000	0.00054	0.00000	0.00161	0.00080	0.0008
812	Residential	3	2	3.2	11.5	36.9	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00159	0.00000	0.00476	0.00238	0.00000	0.00159	0.00000	0.00476	0.00238	0.0024
814	Residential	3	2	2.6	6.2	16.3	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00045	0.00000	0.00135	0.00068	0.00000	0.00045	0.00000	0.00135	0.00068	0.0007
815	Residential	3	2	3.1	7.8	24.7	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00085	0.00000	0.00256	0.00128	0.00000	0.00085	0.00000	0.00256	0.00128	0.0013
816	Residential	3	2	4.2	13.9	57.9	2.17	2.42	1.42	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00004	0.00312	0.00012	0.00936	0.00474	0.00004	0.00312	0.00012	0.00936	0.00474	0.0047
817	School	100	2	5.8	13.7	79.2	2.17	2.42	1.42	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.5	6	3	0.005	0.06	0.03	0.5	6	3	3	0.00010	0.00468	0.00978	0.46807	0.23892	0.00010	0.00468	0.00978	0.46807	0.23892	0.2389
818	Residential	3	2	2.7	7.1	18.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00055	0.00000	0.00165	0.00083	0.00000	0.00055	0.00000	0.00165	0.00083	0.0008
820	Residential	3	2	2.9	8.1	23.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00080	0.00000	0.00241	0.00121	0.00000	0.00080	0.00000	0.00241	0.00121	0.0012
821	Residential	3	2	2.9	4.7	13.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00035	0.00000	0.00105	0.00053	0.00000	0.00035	0.00000	0.00105	0.00053	0.0005
826	Residential	3	2	4.2	4.6	19.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00059	0.00000	0.00176	0.00088	0.00000	0.00059	0.00000	0.00176	0.00088	0.0009
827	Residential	3	2	2.5	6.3	15.7	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00128	0.00064	0.00000	0.00043	0.00000	0.00128	0.00064	0.0006
828	Residential	3	2	3.8	8.6	32.7	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00129	0.00000	0.00386	0.00193	0.00000	0.00129	0.00000	0.00386	0.00193	0.0019
829	Residential	3	2	4.3	5.3	22.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00075	0.00000	0.00226	0.00113	0.00000	0.00075	0.00000	0.00226	0.00113	0.0011
830	Road	2	2	1.1	16.8	19.2	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00057	0.00000	0.00114	0.00057	0.00000	0.00057	0.00000	0.00114	0.00057	0.0006
833	Residential	3	2	4.4	5.8	25.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00090	0.00000	0.00270	0.00135	0.00000	0.00090	0.00000	0.00270	0.00135	0.0014
834	Residential	3	2	4.4	4.9	21.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00069	0.00000	0.00207	0.00103	0.00000	0.00069	0.00000	0.00207	0.00103	0.0010
835	Residential	3	2	0.6	28.7	17.2	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00049	0.00000	0.00146	0.00073	0.00000	0.00049	0.00000	0.00146	0.00073	0.0007
836	Residential	3	2	5.2	7.5	39.0	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00174	0.00000	0.00521	0.00261	0.00000	0.00174	0.00000	0.00521	0.00261	0.0026
839	Residential	3	2	4.5	8.1	36.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00158	0.00000	0.00473	0.00236	0.00000	0.00158	0.00000	0.00473	0.00236	0.0024
841	Residential	3	2	0.8	20.2	15.7	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00128	0.00064	0.00000	0.00043	0.00000	0.00128	0.00064	0.0006
843	Residential	3	2	1.7	3.6	6.2	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
845	Residential	3	2	3.9	5.8	22.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00074	0.00000	0.00222	0.00111	0.00000	0.00074	0.00000	0.00222	0.00111	0.0011
847	Residential	3	2	3.4	12.0	41.2	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00190	0.00001	0.00570	0.00285	0.00000	0.00190	0.00001	0.00570	0.00285	0.0029
848	Residential	3	2	4.7	10.3	48.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00002	0.00245	0.00005	0.00735	0.00370	0.00002	0.00245	0.00005	0.00735	0.00370	0.0037
851	Residential	3	2	2.3	6.0	13.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00034	0.00000	0.00103	0.00052	0.00000	0.00034	0.00000	0.00103	0.00052	0.0005
864	Residential	3	2	2.8	7.8	21.4	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00068	0.00000	0.00203	0.00102	0.00000	0.00068	0.00000	0.00203	0.00102	0.0010
879	Residential	3	2	2.9	8.1	23.2	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00077	0.00000	0.00232	0.00116	0.00000	0.00077	0.00000	0.00232	0.00116	0.0012
886	Residential	3	2	2.4	8.2	19.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00058	0.00000	0.00175	0.00088	0.00000	0.00058	0.00000	0.00175	0.00088	0.0009
890	Residential	3	2	2.7	8.8	23.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00079	0.00000	0.00238	0.00119	0.00000	0.00079	0.00000	0.00238	0.00119	0.0012
897	Road	2	2	2.7	7.4	20.0	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00060	0.00000	0.00120	0.00060	0.00000	0.00060	0.00000	0.00120	0.00060	0.0006
901	Residential	3	2	2.0	7.9	15.4	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00125	0.00062	0.00000	0.00042	0.00000	0.00125	0.00062	0.0006
907	Residential	3	2	2.7	7.2	19.5	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00058	0.00000	0.00175	0.00087	0.00000	0.00058	0.00000	0.00175	0.00087	0.0009
917	Residential	3	2	1.8	7.8	14.2	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00037	0.00000	0.00110	0.00055	0.00000	0.00037	0.00000	0.00110	0.00055	0.0006
920	Residential	3	2	2.8	6.4	18.1	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00052	0.00000	0.00157	0.00078	0.00000	0.00052	0.00000	0.00157	0.00078	0.0008
927	Residential	3	2	2.4	9.0	21.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00070	0.00000	0.00209	0.00105	0.00000	0.00070	0.00000	0.00209	0.00105	0.0010
929	Residential	3	2	2.0	7.6	14.9	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00039	0.00000	0.00118	0.00059	0.00000	0.00039	0.00000	0.00118	0.00059	0.0006
938	Residential	3	2	2.4	6.7	16.0	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00044	0.00000	0.00133	0.00066	0.00000	0.00044	0.00000	0.00133	0.00066	0.0007
946	Residential	3	2	2.7	7.7	20.8	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00064	0.00000	0.00193	0.00097	0.00000	0.00064	0.00000	0.00193	0.00097	0.0010
947	Residential	3	2	2.2	7.4	16.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00046	0.00000	0.00139	0.00070	0.00000	0.00046	0.00000	0.00139	0.00070	0.0007
951	Residential	3	2	1.2	12.0	14.9	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00040	0.00000	0.00119	0.00060	0.00000	0.00040	0.00000	0.00119	0.00060	0.0006
953	Residential	3	2	2.5	5.8	14.4	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00037	0.00000	0.00112	0.00056	0.00000	0.00037	0.00000	0.00112	0.00056	0.0006
955	Residential	3	2	1.8	9.1	16.0	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00044	0.00000	0.00132	0.00066	0.00000	0.00044	0.00000	0.00132	0.00066	0.0007
956	Farm/Shop	2	2	3.6	7.4	26.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00095	0.00000	0.00191	0.00095	0.00000	0.00095	0.00000	0.00191	0.00095	0.0010
960	Residential	3	2	2.6	8.4	21.7	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00069	0.00000	0.00207	0.00103	0.00000	0.00069	0.00000	0.00207	0.00103	0.0010
970	Farm/Shop	2	2	2.2	8.3	18.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00055	0.00000	0.00109	0.00055	0.00000	0.00055	0.00000	0.00109	0.00055	0.0005
973	Farm/Shop	2	2	2.0	10.3	20.5	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00063	0.00000	0.00126	0.00063	0.00000	0.00063	0.00000	0.00126	0.00063	0.0006
974	Residential	3	2	1.8	9.6	17.0	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00048	0.00000	0.00144	0.00072	0.00000	0.00048	0.00000	0.00144	0.00072	0.0007
980	Farm/Shop	2	2	1.9	6.2	12.0	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00028	0.00000	0.00056	0.00028	0.00000	0.00028	0.00000	0.00056	0.00028	0.0003
987	Residential	3	2	2.6	4.8	12.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00030	0.00000	0.00091	0.00046	0.00000	0.00030	0.00000	0.00091	0.00046	0.0005
1006	Residential	3	2	1.6	5.5	8.7	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
794	Residential	3	2	2.4	7.7	18.9	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00056	0.00000	0.00167	0.00084	0.00000	0.00056	0.00000	0.00167	0.00084	0.0008
856	Residential	3	2	1.5	7.1	10.6	2.17	2.42	1.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00022	0.00000	0.00067	0.00034	0.00000	0.00022	0.00000	0.00067	0.00034	0.0003
705	Residential	3	2	0.3	3.9	1.4	2.18	2.43	1.43	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
822	Residential	3	2	0.7	19.2	13.7	2.23	2.48	1.48	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00035	0.00000	0.00104	0.00052	0.00000	0.00035	0.00000	0.00104	0.00052	0.0005
914	Residential	3	2	1.1	9.5	10.1	2.23	2.48	1.48	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00061	0.00031	0.00000	0.00020	0.00000	0.00061	0.00031	0.0003
767	Residential	3	2	1.1	9.0	10.3	2.24	2.49	1.49	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00021	0.00000	0.00064	0.00032	0.00000	0.00021	0.00000	0.00064	0.00032	0.0003
963	Residential	3	2	2.6	9.6	24.6	2.24	2.49	1.49	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00085	0.00000	0.00254	0.00127	0.00000	0.00085	0.00000	0.00254	0.00127	0.0013
802	Residential	3	2	2.4	7.4	18.1	2.24	2.49	1.49	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00052	0.00000	0.00157	0.00078	0.00000	0.00052	0.00000	0.00157	0.00078	0.0008
304	Residential	3	2	0.4	2.7	1.1	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
319	Residential	3	2	0.6	3.9	2.3	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
327	Farm/Shop	2	2	0.1	5.5	0.5	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
328	Residential	3	2	1.1	3.3	3.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
332	Residential	3	2	0.2	3.7	0.9	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
345	Residential	3	2	0.2	2.1	0.5	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
360	Residential	3	2	0.8	1.1	0.8	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
480	Residential	3	2	0.2	11.3	1.8	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
694	Residential	3	2	0.3	4.6	1.5	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
702	Residential	3	2	0.5	6.9	3.3	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
708	Residential	3	2	0.4	1.5	0.6	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
756	Farm/Shop	2	2	4.9	6.0	29.5	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00111	0.00000	0.00222	0.00111	0.00000	0.00111	0.00000	0.00222	0.00111	0.0011
758	Residential	3	2	4.8	7.1	33.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00135	0.00000	0.00404	0.00202	0.00000	0.00135	0.00000	0.00404	0.00202	0.0020
760	Residential	3	2	3.7	6.7	25.0	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00087	0.00000	0.00261	0.00131	0.00000	0.00087	0.00000	0.00261	0.00131	0.0013
763	Residential	3	2	4.6	7.0	32.4	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00127	0.00000	0.00380	0.00190	0.00000	0.00127	0.00000	0.00380	0.00190	0.0019
840	Residential	3	2	4.5	7.4	33.0	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00130	0.00000	0.00389	0.00195	0.00000	0.00130	0.00000	0.00389	0.00195	0.0019
857	Residential	3	2	9.9	8.1	79.7	2.25	2.50	1.50	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00010	0.00472	0.00030	0.01416	0.00723	0.00010	0.00472	0.00030	0.01416	0.00723	0.0072
865	Residential	3	2	2.2	5.7	12.6	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00030	0.00000	0.00091	0.00046	0.00000	0.00030	0.00000	0.00091	0.00046	0.0005
867	Residential	3	2	9.3	9.2	85.2	2.25	2.50	1.50	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00012	0.00513	0.00035	0.01538	0.00787	0.00012	0.00513	0.00035	0.01538	0.00787	0.0079
868	Residential	3	2	6.4	8.6	54.5	2.25	2.50	1.50	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00003	0.00287	0.00010	0.00862	0.00436	0.00003	0.00287	0.00010	0.00862	0.00436	0.0044
883	Residential	3	2	7.0	10.2	71.7	2.25	2.50	1.50	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00008	0.00413	0.00023	0.01238	0.00631	0.00008	0.00413	0.00023	0.01238	0.00631	0.0063
887	Residential	3	2	1.9	7.9	15.1	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00041	0.00000	0.00122	0.00061	0.00000	0.00041	0.00000	0.00122	0.00061	0.0006
888	Road	2	2	3.3	16.7	54.7	2.25	2.50	1.50	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.01	0.12	0.06	0.005	0.06	0.03	0.01	0.12	0.06	0.06	0.00003	0.00288	0.00006	0.00576	0.00291	0.00003	0.00288	0.00006	0.00576	0.00291	0.0029
908	Commercial	10	2	6.7	10.8	72.8	2.25	2.50	1.50	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.05	0.6	0.3	0.005	0.06	0.03	0.05	0.6	0.3	0.3	0.00008	0.00421	0.00081	0.04208	0.02144	0.00008	0.00421	0.00081	0.04208	0.02144	0.0214
919	Residential	3	2	1.9	12.0	22.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00074	0.00000	0.00223	0.00112	0.00000	0.00074	0.00000	0.00223	0.00112	0.0011
921	Residential	3	2	1.3	4.6	6.1	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
926	Residential	3	2	1.3	10.3	13.4	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00033	0.00000	0.00100	0.00050	0.00000	0.00033	0.00000	0.00100	0.00050	0.0005
934	Residential	3	2	2.0	10.4	20.4	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00062	0.00000	0.00187	0.00094	0.00000	0.00062	0.00000	0.00187	0.00094	0.0009
943	Residential	3	2	0.7	11.9	8.2	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
944	Residential	3	2	1.8	11.1	19.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00059	0.00000	0.00176	0.00088	0.00000	0.00059	0.00000	0.00176	0.00088	0.0009
945	Residential	3	2	2.5	5.8	14.6	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00038	0.00000	0.00115	0.00058	0.00000	0.00038	0.00000	0.00115	0.00058	0.0006
948	Residential	3	2	2.7	3.6	9.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
949	Residential	3	2	4.9	7.2	35.3	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00147	0.00000	0.00440	0.00220	0.00000	0.00147	0.00000	0.00440	0.00220	0.0022
952	Residential	3	2	3.1	7.0	21.5	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00068	0.00000	0.00205	0.00102	0.00000	0.00068	0.00000	0.00205	0.00102	0.0010
954	Residential	3	2	1.9	7.2	13.4	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00034	0.00000	0.00101	0.00050	0.00000	0.00034	0.00000	0.00101	0.00050	0.0005
957	Residential	3	2	4.1	6.2	25.5	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00090	0.00000	0.00269	0.00134	0.00000	0.00090	0.00000	0.00269	0.00134	0.0013
961	Residential	3	2	2.1	9.2	19.4	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00057	0.00000	0.00172	0.00086	0.00000	0.00057	0.00000	0.00172	0.00086	0.0009
964	Residential	3	2	2.5	6.3	15.6	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00128	0.00064	0.00000	0.00043	0.00000	0.00128	0.00064	0.0006
966	Commercial	10	2	2.9	6.2	17.8	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00051	0.00000	0.00510	0.00255	0.00000	0.00051	0.00000	0.00510	0.00255	0.0026
968	Residential	3	2	1.2	12.3	15.0	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00040	0.00000	0.00120	0.00060	0.00000	0.00040	0.00000	0.00120	0.00060	0.0006
972	Residential	3	2	2.3	7.0	15.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00129	0.00064	0.00000	0.00043	0.00000	0.00129	0.00064	0.0006
978	Residential	3	2	1.9	8.5	16.1	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00044	0.00000	0.00133	0.00066	0.00000	0.00044	0.00000	0.00133	0.00066	0.0007
979	Residential	3	2	1.5	10.9	16.2	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00045	0.00000	0.00134	0.00067	0.00000	0.00045	0.00000	0.00134	0.00067	0.0007
981	Residential	3	2	2.9	6.2	17.8	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00051	0.00000	0.00153	0.00077	0.00000	0.00051	0.00000	0.00153	0.00077	0.0008
983	Residential	3	2	3.4	5.7	19.2	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00057	0.00000	0.00171	0.00085	0.00000	0.00057	0.00000	0.00171	0.00085	0.0009
984	Residential	3	2	3.1	6.7	20.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00064	0.00000	0.00192	0.00096	0.00000	0.00064	0.00000	0.00192	0.00096	0.0010
986	Residential	3	2	3.0	8.1	23.9	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00081	0.00000	0.00243	0.00122	0.00000	0.00081	0.00000	0.00243	0.00122	0.0012
988	Residential	3	2	4.6	4.1	18.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00055	0.00000	0.00165	0.00082	0.00000	0.00055	0.00000	0.00165	0.00082	0.0008
998	Residential	3	2	2.7	5.6	15.1	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00040	0.00000	0.00121	0.00060	0.00000	0.00040	0.00000	0.00121	0.00060	0.0006
1002	Residential	3	2	2.9	7.9	23.2	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00077	0.00000	0.00232	0.00116	0.00000	0.00077	0.00000	0.00232	0.00116	0.0012
1014	Residential	3	2	4.3	4.3	18.3	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00053	0.00000	0.00159	0.00080	0.00000	0.00053	0.00000	0.00159	0.00080	0.0008
1031	Commercial	10	2	1.8	3.9	7.1	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1033	Residential	3	2	3.9	4.4	17.2	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00049	0.00000	0.00147	0.00073	0.00000	0.00049	0.00000	0.00147	0.00073	0.0007
1036	Residential	3	2	1.8	4.5	8.4	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1045	Residential	3	2	1.5	7.2	11.2	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00025	0.00000	0.00074	0.00037	0.00000	0.00025	0.00000	0.00074	0.00037	0.0004
1048	Residential	3	2	1.5	7.3	11.2	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00025	0.00000	0.00074	0.00037	0.00000	0.00025	0.00000	0.00074	0.00037	0.0004
1052	Residential	3	2	1.6	7.1	11.2	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00025	0.00000	0.00074	0.00037	0.00000	0.00025	0.00000	0.00074	0.00037	0.0004
1058	Residential	3	2	1.9	5.4	10.5	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00022	0.00000	0.00066	0.00033	0.00000	0.00022	0.00000	0.00066	0.00033	0.0003
1062	Residential	3	2	1.6	7.8	12.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00031	0.00000	0.00093	0.00046	0.00000	0.00031	0.00000	0.00093	0.00046	0.0005
1070	Residential	3	2	2.5	4.9	12.5	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00030	0.00000	0.00090	0.00045	0.00000	0.00030	0.00000	0.00090	0.00045	0.0004
1071	Residential	3	2	1.8	6.7	12.3	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00029	0.00000	0.00087	0.00044	0.00000	0.00029	0.00000	0.00087	0.00044	0.0004
1078	Residential	3	2	1.9	7.8	14.9	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00039	0.00000	0.00118	0.00059	0.00000	0.00039	0.00000	0.00118	0.00059	0.0006
1083	Residential	3	2	2.2	5.7	12.4	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00030	0.00000	0.00089	0.00044	0.00000	0.00030	0.00000	0.00089	0.00044	0.0004
1085	Residential	3	2	2.5	5.7	13.9	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00107	0.00054	0.00000	0.00036	0.00000	0.00107	0.00054	0.0005
1086	Residential	3	2	2.6	5.7	14.9	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00039	0.00000	0.00118	0.00059	0.00000	0.00039	0.00000	0.00118	0.00059	0.0006
1090	Residential	3	2	2.5	6.0	14.8	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00039	0.00000	0.00117	0.00059	0.00000	0.00039	0.00000	0.00117	0.00059	0.0006
1092	Residential	3	2	3.3	5.4	17.8	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00051	0.00000	0.00153	0.00077	0.00000	0.00051	0.00000	0.00153	0.00077	0.0008
1095	Residential	3	2	2.8	5.6	15.8	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00130	0.00065	0.00000	0.00043	0.00000	0.00130	0.00065	0.0006
1098	Residential	3	2	2.1	6.9	14.5	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00038	0.00000	0.00114	0.00057	0.00000	0.00038	0.00000	0.00114	0.00057	0.0006
1102	Residential	3	2	2.8	6.0	16.8	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00047	0.00000	0.00141	0.00071	0.00000	0.00047	0.00000	0.00141	0.00071	0.0007
1110	Residential	3	2	2.3	6.8	15.6	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00127	0.00063	0.00000	0.00042	0.00000	0.00127	0.00063	0.0006
1115	Residential	3	2	2.5	6.5	16.1	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00045	0.00000	0.00134	0.00067	0.00000	0.00045	0.00000	0.00134	0.00067	0.0007
1116	Residential	3	2	2.2	7.3	16.3	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)										
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach				Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1118	Residential	3	2	2.1	7.1	15.2	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00041	0.00000	0.00122	0.00061	0.00000	0.00041	0.00000	0.00122	0.00061	0.0006
1121	Residential	3	2	2.6	5.8	15.0	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00040	0.00000	0.00120	0.00060	0.00000	0.00040	0.00000	0.00120	0.00060	0.0006
1125	Residential	3	2	2.1	7.1	14.8	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00039	0.00000	0.00118	0.00059	0.00000	0.00039	0.00000	0.00118	0.00059	0.0006
1130	Residential	3	2	2.1	6.8	14.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00039	0.00000	0.00116	0.00058	0.00000	0.00039	0.00000	0.00116	0.00058	0.0006
1133	Road	2	2	1.6	8.7	14.0	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00036	0.00000	0.00072	0.00036	0.00000	0.00036	0.00000	0.00072	0.00036	0.0004
1136	Residential	3	2	2.6	6.4	16.8	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00047	0.00000	0.00142	0.00071	0.00000	0.00047	0.00000	0.00142	0.00071	0.0007
1141	Residential	3	2	1.8	8.0	14.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00039	0.00000	0.00117	0.00058	0.00000	0.00039	0.00000	0.00117	0.00058	0.0006
1145	Residential	3	2	2.6	7.0	18.4	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00053	0.00000	0.00160	0.00080	0.00000	0.00053	0.00000	0.00160	0.00080	0.0008
1161	Residential	3	2	2.7	7.3	19.9	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00060	0.00000	0.00179	0.00090	0.00000	0.00060	0.00000	0.00179	0.00090	0.0009
1162	Residential	3	2	1.8	8.6	15.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00128	0.00064	0.00000	0.00043	0.00000	0.00128	0.00064	0.0006
1175	Residential	3	2	3.4	5.9	19.9	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00059	0.00000	0.00178	0.00089	0.00000	0.00059	0.00000	0.00178	0.00089	0.0009
1178	Residential	3	2	2.6	8.1	20.9	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00065	0.00000	0.00194	0.00097	0.00000	0.00065	0.00000	0.00194	0.00097	0.0010
1186	Residential	3	2	2.4	7.3	17.8	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00051	0.00000	0.00154	0.00077	0.00000	0.00051	0.00000	0.00154	0.00077	0.0008
1187	Farm/Shop	2	2	3.0	2.9	8.6	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1189	Residential	3	2	2.6	8.5	22.1	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00072	0.00000	0.00215	0.00107	0.00000	0.00072	0.00000	0.00215	0.00107	0.0011
1191	Residential	3	2	3.3	7.6	25.3	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00088	0.00000	0.00265	0.00133	0.00000	0.00088	0.00000	0.00265	0.00133	0.0013
1198	Residential	3	2	4.2	6.2	25.9	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00092	0.00000	0.00275	0.00138	0.00000	0.00092	0.00000	0.00275	0.00138	0.0014
1199	Residential	3	2	1.9	3.8	7.0	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1202	Residential	3	2	4.9	5.7	27.6	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00101	0.00000	0.00302	0.00151	0.00000	0.00101	0.00000	0.00302	0.00151	0.0015
1203	Residential	3	2	2.7	8.9	24.0	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00082	0.00000	0.00245	0.00122	0.00000	0.00082	0.00000	0.00245	0.00122	0.0012
1204	Residential	3	2	4.0	6.5	25.6	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00090	0.00000	0.00270	0.00135	0.00000	0.00090	0.00000	0.00270	0.00135	0.0013
1205	Residential	3	2	5.7	5.5	31.4	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00121	0.00000	0.00364	0.00182	0.00000	0.00121	0.00000	0.00364	0.00182	0.0018
1209	Residential	3	2	3.5	6.7	23.6	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00079	0.00000	0.00238	0.00119	0.00000	0.00079	0.00000	0.00238	0.00119	0.0012
1217	Residential	3	2	3.1	7.9	24.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00085	0.00000	0.00256	0.00128	0.00000	0.00085	0.00000	0.00256	0.00128	0.0013
1219	Residential	3	2	2.4	7.8	18.9	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00056	0.00000	0.00167	0.00083	0.00000	0.00056	0.00000	0.00167	0.00083	0.0008
1223	Residential	3	2	3.3	7.5	24.3	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00083	0.00000	0.00249	0.00124	0.00000	0.00083	0.00000	0.00249	0.00124	0.0012
1225	Residential	3	2	2.9	7.5	22.0	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00071	0.00000	0.00212	0.00106	0.00000	0.00071	0.00000	0.00212	0.00106	0.0011
1229	Residential	3	2	4.4	5.6	24.9	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00086	0.00000	0.00259	0.00130	0.00000	0.00086	0.00000	0.00259	0.00130	0.0013
1232	Residential	3	2	3.3	7.6	25.2	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00088	0.00000	0.00264	0.00132	0.00000	0.00088	0.00000	0.00264	0.00132	0.0013
1233	Residential	3	2	2.4	6.4	15.6	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00127	0.00063	0.00000	0.00042	0.00000	0.00127	0.00063	0.0006
1236	Residential	3	2	2.9	6.8	19.7	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00059	0.00000	0.00177	0.00088	0.00000	0.00059	0.00000	0.00177	0.00088	0.0009
1243	Residential	3	2	3.0	6.1	18.3	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00053	0.00000	0.00159	0.00080	0.00000	0.00053	0.00000	0.00159	0.00080	0.0008
1268	Residential	3	2	2.5	5.6	14.3	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00037	0.00000	0.00111	0.00056	0.00000	0.00037	0.00000	0.00111	0.00056	0.0006
1038	Residential	3	2	1.5	7.0	10.2	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00021	0.00000	0.00063	0.00031	0.00000	0.00021	0.00000	0.00063	0.00031	0.0003
1032	Residential	3	2	0.5	16.3	7.9	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1129	Residential	3	2	1.4	11.0	15.3	2.26	2.51	1.51	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00041	0.00000	0.00123	0.00062	0.00000	0.00041	0.00000	0.00123	0.00062	0.0006
906	Farm/Shop	2	2	0.3	30.5	10.2	2.26	2.51	1.51	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00021	0.00000	0.00042	0.00021	0.00000	0.00021	0.00000	0.00042	0.00021	0.0002
98	Residential	3	2	0.5	0.3	0.2	2.26	2.51	1.51	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
338	Residential	3	2	0.0	18.2	0.8	2.27	2.52	1.52	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
342	Residential	3	2	0.5	6.8	3.2	2.29	2.54	1.54	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
660	Residential	3	2	0.2	5.3	1.1	2.30	2.55	1.55	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
567	Residential	3	2	0.3	3.2	0.9	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1061	Residential	3	2	1.7	6.5	10.9	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00024	0.00000	0.00071	0.00035	0.00000	0.00024	0.00000	0.00071	0.00035	0.0004
106	Residential	3	2	0.0	0.1	0.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
977	Commercial	10	2	2.2	5.6	12.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00029	0.00000	0.00289	0.00144	0.00000	0.00029	0.00000	0.00289	0.00144	0.0014
439	Residential	3	2	0.1	6.5	0.9	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
341	Residential	3	2	0.5	8.8	4.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
347	Residential	3	2	0.2	13.9	2.3	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
351	Residential	3	2	0.6	2.5	1.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
354	Residential	3	2	0.3	2.5	0.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
411	Residential	3	2	0.0	21.7	0.4	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
506	Residential	3	2	0.1	9.4	1.3	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
556	Residential	3	2	0.4	8.0	2.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
678	Residential	3	2	0.1	2.4	0.3	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1057	Residential	3	2	2.4	7.0	16.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00046	0.00000	0.00138	0.00069	0.00000	0.00046	0.00000	0.00138	0.00069	0.0007
1073	Residential	3	2	1.5	10.2	15.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00126	0.00063	0.00000	0.00042	0.00000	0.00126	0.00063	0.0006
1126	Residential	3	2	2.7	5.1	14.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00108	0.00054	0.00000	0.00036	0.00000	0.00108	0.00054	0.0005
1128	Residential	3	2	2.3	7.3	16.9	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00048	0.00000	0.00143	0.00071	0.00000	0.00048	0.00000	0.00143	0.00071	0.0007
1131	Residential	3	2	0.5	7.8	4.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1146	Residential	3	2	2.2	6.8	14.9	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00040	0.00000	0.00119	0.00059	0.00000	0.00040	0.00000	0.00119	0.00059	0.0006
1152	Residential	3	2	1.7	3.7	6.3	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1155	Residential	3	2	2.4	4.9	11.7	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00027	0.00000	0.00080	0.00040	0.00000	0.00027	0.00000	0.00080	0.00040	0.0004
1166	Farm/Shop	2	2	1.4	3.5	5.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1172	Residential	3	2	3.8	5.3	20.4	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00062	0.00000	0.00187	0.00094	0.00000	0.00062	0.00000	0.00187	0.00094	0.0009
1180	Farm/Shop	2	2	2.6	3.4	8.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1185	Residential	3	2	3.0	6.6	19.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00059	0.00000	0.00177	0.00089	0.00000	0.00059	0.00000	0.00177	0.00089	0.0009
1195	Farm/Shop	2	2	3.7	2.9	10.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00023	0.00000	0.00045	0.00023	0.00000	0.00023	0.00000	0.00045	0.00023	0.0002
1211	Residential	3	2	6.2	5.5	34.4	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00140	0.00000	0.00420	0.00210	0.00000	0.00140	0.00000	0.00420	0.00210	0.0021
1234	Residential	3	2	2.8	10.0	27.7	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)										
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach				Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1238	Residential	3	2	2.3	5.9	13.7	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00035	0.00000	0.00104	0.00052	0.00000	0.00035	0.00000	0.00104	0.00052	0.0005
1241	Residential	3	2	3.0	6.3	19.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00056	0.00000	0.00167	0.00084	0.00000	0.00056	0.00000	0.00167	0.00084	0.0008
1242	Road	2	2	1.7	1.9	3.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1245	Residential	3	2	2.8	6.6	18.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00054	0.00000	0.00162	0.00081	0.00000	0.00054	0.00000	0.00162	0.00081	0.0008
1248	Residential	3	2	2.6	6.8	17.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00051	0.00000	0.00154	0.00077	0.00000	0.00051	0.00000	0.00154	0.00077	0.0008
1252	Residential	3	2	2.6	6.5	16.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00047	0.00000	0.00142	0.00071	0.00000	0.00047	0.00000	0.00142	0.00071	0.0007
1258	Residential	3	2	2.8	6.2	17.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00048	0.00000	0.00145	0.00072	0.00000	0.00048	0.00000	0.00145	0.00072	0.0007
1259	Residential	3	2	2.2	5.6	12.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00028	0.00000	0.00085	0.00043	0.00000	0.00028	0.00000	0.00085	0.00043	0.0004
1263	Church	30	2	4.7	4.4	20.7	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.018	0.009	0	0.0006	0.0003	0	0.018	0.009	0.009	0.00000	0.00064	0.00000	0.01918	0.00959	0.00000	0.00064	0.00000	0.01918	0.00959	0.0096
1266	Residential	3	2	2.3	5.5	12.7	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00031	0.00000	0.00093	0.00046	0.00000	0.00031	0.00000	0.00093	0.00046	0.0005
1270	Residential	3	2	2.8	5.5	15.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00126	0.00063	0.00000	0.00042	0.00000	0.00126	0.00063	0.0006
1276	Residential	3	2	3.1	5.1	15.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00130	0.00065	0.00000	0.00043	0.00000	0.00130	0.00065	0.0006
1279	Residential	3	2	3.0	4.9	14.7	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00039	0.00000	0.00116	0.00058	0.00000	0.00039	0.00000	0.00116	0.00058	0.0006
1285	Residential	3	2	2.9	4.8	13.9	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00107	0.00054	0.00000	0.00036	0.00000	0.00107	0.00054	0.0005
1286	Residential	3	2	2.1	3.5	7.4	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1290	Commercial	10	2	1.6	5.1	8.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1291	Residential	3	2	3.2	4.1	13.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00032	0.00000	0.00097	0.00049	0.00000	0.00032	0.00000	0.00097	0.00049	0.0005
1292	Commercial	10	2	2.3	3.9	8.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1295	Residential	3	2	1.7	4.4	7.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1297	Commercial	10	2	1.6	5.1	8.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1299	Residential	3	2	2.0	3.5	7.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1300	Residential	3	2	1.6	2.4	3.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1302	Residential	3	2	2.1	3.6	7.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1303	Residential	3	2	0.4	4.9	1.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1306	Commercial	10	2	3.0	3.3	10.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00205	0.00102	0.00000	0.00020	0.00000	0.00205	0.00102	0.0010
1310	Commercial	10	2	2.3	4.0	9.3	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1311	Commercial	10	2	3.0	3.9	11.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00027	0.00000	0.00272	0.00136	0.00000	0.00027	0.00000	0.00272	0.00136	0.0014
1314	Commercial	10	2	3.0	3.7	11.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00024	0.00000	0.00242	0.00121	0.00000	0.00024	0.00000	0.00242	0.00121	0.0012
1320	Commercial	10	2	3.0	3.7	11.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00025	0.00000	0.00249	0.00125	0.00000	0.00025	0.00000	0.00249	0.00125	0.0012
1323	Residential	3	2	1.7	3.9	6.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1335	Commercial	10	2	3.1	3.2	9.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1385	Commercial	10	2	1.8	2.1	3.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1097	Residential	3	2	0.4	12.2	4.4	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
456	Residential	3	2	0.2	4.7	1.1	2.35	2.60	1.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
330	Residential	3	2	0.3	2.1	0.6	2.35	2.60	1.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
457	Farm/Shop	2	2	1.1	15.3	17.3	2.37	2.62	1.62	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00049	0.00000	0.00098	0.00049	0.00000	0.00049	0.00000	0.00098	0.00049	0.0005
1348	Residential	3	2	0.3	7.0	2.0	2.38	2.63	1.63	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
684	Residential	3	2	0.5	4.9	2.7	2.38	2.63	1.63	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1296	Residential	3	2	0.6	2.9	1.9	2.38	2.63	1.63	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
270	Residential	3	2	0.1	2.8	0.3	2.39	2.64	1.64	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
573	Residential	3	2	0.1	5.1	0.7	2.41	2.66	1.66	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
368	Residential	3	2	0.4	4.4	1.6	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
290	Residential	3	2	0.0	19.5	0.6	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
350	Residential	3	2	0.2	2.7	0.5	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
355	Residential	3	2	0.5	6.4	3.4	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
489	Residential	3	2	0.8	1.4	1.1	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
605	Residential	3	2	0.5	0.8	0.4	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1271	Residential	3	2	0.8	2.1	1.7	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1277	Commercial	10	2	0.9	2.8	2.6	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1281	Commercial	10	2	0.8	3.0	2.4	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1287	Residential	3	2	2.0	5.0	10.2	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00021	0.00000	0.00062	0.00031	0.00000	0.00021	0.00000	0.00062	0.00031	0.0003
1293	Residential	3	2	0.3	4.1	1.4	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1315	Residential	3	2	0.7	2.3	1.6	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1333	Residential	3	2	0.6	5.3	3.3	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1337	Residential	3	2	0.6	2.6	1.6	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1344	Residential	3	2	0.2	14.6	3.1	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1367	Residential	3	2	0.5	5.6	2.6	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1370	Commercial	10	2	2.2	2.6	5.7	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1384	Commercial	10	2	2.0	1.7	3.4	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1388	Commercial	10	2	1.7	2.5	4.2	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1397	Residential	3	2	2.9	1.6	4.6	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1399	Commercial	10	2	2.2	1.0	2.1	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1413	Commercial	10	2	3.5	1.7	5.7	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1431	Commercial	10	2	5.3	1.3	6.7	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1455	Commercial	10	2	4.5	1.4	6.3	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1373	Residential	3	2	0.7	4.3	3.2	2.43	2.68	1.68	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1319	Residential	3	2	0.5	2.8	1.5	2.45	2.70	1.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1356	Residential	3	2	0.7	4.1	2.9	2.45	2.70	1.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
367	Residential	3	2	0.3	0.8	0.2	2.45	2.70	1.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
423	Residential	3	2	0.3	1.2	0.4	2.45	2.70	1.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1360	Residential	3	2	0.7	4.0	2.8	2.46	2.71	1.71	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1381	Residential	3	2	0.7	4.8	3.2	2.47	2.72	1.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1364	Residential	3	2	0.5	3.0	1.6	2.49	2.74	1.74	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
366	Residential	3	2	0.4	3.9	1.7	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
371	Residential	3	2	0.0	11.9	0.4	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
374	Residential	3	2	0.4	2.4	1.1	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
383	Residential	3	2	0.9	2.1	1.9	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
392	Residential	3	2	0.3	2.6	0.7	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
418	Residential	3	2	0.4	4.4	1.8	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
419	Residential	3	2	1.0	1.4	1.4	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
690	Residential	3	2	0.1	1.7	0.2	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1391	Residential	3	2	1.5	3.3	5.0	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1395	Residential	3	2	1.3	2.1	2.8	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1423	Commercial	10	2	2.7	2.0	5.4	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1449	Residential	3	2	2.8	1.0	2.7	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
391	Residential	3	2	0.1	12.0	1.4	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
507	Residential	3	2	0.2	0.1	0.0	2.54	2.79	1.79	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
479	Residential	3	2	0.0	0.1	0.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
291	Residential	3	2	0.7	0.6	0.4	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
331	Residential	3	2	0.2	1.1	0.2	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
357	Residential	3	2	0.1	1.9	0.1	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
402	Residential	3	2	0.0	0.1	0.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
413	Residential	3	2	0.6	4.7	2.7	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
431	Residential	3	2	0.2	4.2	0.8	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
432	Residential	3	2	0.3	2.5	0.7	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
435	Residential	3	2	0.5	3.5	1.6	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
453	Residential	3	2	0.6	3.2	2.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
487	Residential	3	2	0.2	4.4	0.8	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
546	Residential	3	2	0.6	1.8	1.1	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
408	Residential	3	2	0.6	4.1	2.4	2.62	2.87	1.87	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
421	Residential	3	2	0.5	2.6	1.2	2.62	2.87	1.87	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
400	Residential	3	2	0.2	4.0	0.7	2.65	2.90	1.90	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
446	Residential	3	2	0.1	7.0	1.0	2.65	2.90	1.90	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
499	Residential	3	2	0.1	0.1	0.0	2.66	2.91	1.91	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
476	Residential	3	2	0.1	0.1	0.0	2.66	2.91	1.91	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
440	Residential	3	2	0.3	5.0	1.4	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
511	Residential	3	2	0.6	3.3	2.1	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
464	Residential	3	2	0.8	3.1	2.6	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
263	Residential	3	2	0.1	7.0	0.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
336	Residential	3	2	0.2	2.6	0.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
378	Residential	3	2	0.2	4.1	0.7	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
405	Residential	3	2	0.1	8.2	0.8	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
409	Residential	3	2	0.0	95.8	0.7	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
412	Residential	3	2	0.2	5.1	1.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
416	Residential	3	2	0.3	4.6	1.3	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
422	Residential	3	2	0.2	6.2	1.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
424	Residential	3	2	0.3	5.9	1.7	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
426	Residential	3	2	0.3	3.8	1.1	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
427	Residential	3	2	0.1	8.4	1.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
433	Residential	3	2	0.3	3.7	1.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
437	Residential	3	2	0.4	3.5	1.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
443	Residential	3	2	0.2	5.7	1.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
449	Residential	3	2	0.9	2.9	2.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
451	Residential	3	2	0.5	2.6	1.4	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
454	Residential	3	2	0.4	4.0	1.4	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
459	Residential	3	2	0.9	3.0	2.7	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
466	Residential	3	2	0.2	5.0	1.1	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
469	Residential	3	2	0.5	4.4	2.4	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
470	Residential	3	2	0.3	2.7	0.8	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
472	Residential	3	2	0.8	2.5	1.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
474	Residential	3	2	0.7	3.4	2.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
477	Residential	3	2	0.7	3.3	2.1	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
483	Residential	3	2	0.8	2.3	1.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
490	Residential	3	2	0.8	2.0	1.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
491	Residential	3	2	0.7	2.3	1.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
493	Residential	3	2	0.7	1.8	1.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
495	Residential	3	2	0.4	2.3	1.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
498	Residential	3	2	0.7	3.1	2.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted	Day Breach					Night Breach					Weighted
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life			LOL	Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			LOL
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
501	Residential	3	2	0.0	17.2	0.7	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
504	Residential	3	2	0.0	8.5	0.4	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
505	Residential	3	2	0.9	2.5	2.3	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
508	Residential	3	2	0.8	2.9	2.3	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
513	Residential	3	2	0.7	3.0	2.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
516	Residential	3	2	0.9	2.3	2.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
519	Commercial	10	2	0.6	2.9	1.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
523	Commercial	10	2	0.5	3.4	1.6	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
526	Commercial	10	2	0.5	2.9	1.3	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
539	Residential	3	2	0.3	2.9	0.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
552	Residential	3	2	0.6	3.3	1.8	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
621	Residential	3	2	0.3	2.6	0.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
628	Residential	3	2	0.9	2.7	2.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
633	Residential	3	2	0.5	2.7	1.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
666	Residential	3	2	0.2	4.6	0.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
494	Residential	3	2	0.6	3.0	1.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
387	Residential	3	2	0.0	0.1	0.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
373	Residential	3	2	0.2	3.2	0.7	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
462	Residential	3	2	0.5	3.0	1.4	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
458	Residential	3	2	0.4	3.2	1.4	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
429	Residential	3	2	0.1	13.2	1.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
404	Residential	3	2	0.5	3.8	1.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
448	Residential	3	2	0.1	6.7	0.7	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
406	Residential	3	2	0.0	0.1	0.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
381	Residential	3	2	0.1	0.1	0.0	2.69	2.94	1.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
398	Residential	3	2	0.1	3.2	0.4	2.69	2.94	1.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
401	Residential	3	2	0.0	20.2	0.6	2.70	2.95	1.95	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
502	Residential	3	2	0.5	1.7	0.8	2.71	2.96	1.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
299	Residential	3	2	0.0	0.1	0.0	2.71	2.96	1.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
386	Residential	3	2	0.1	5.8	0.6	2.72	2.97	1.97	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
395	Residential	3	2	0.2	3.5	0.6	2.72	2.97	1.97	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
481	Residential	3	2	0.0	0.1	0.0	2.73	2.98	1.98	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
390	Residential	3	2	0.2	2.7	0.6	2.73	2.98	1.98	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
486	Residential	3	2	0.1	0.1	0.0	2.73	2.98	1.98	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
531	Commercial	10	2	0.3	3.1	1.1	2.74	2.99	1.99	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
382	Residential	3	2	0.1	7.4	0.6	2.74	2.99	1.99	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
265	Residential	3	2	0.4	1.4	0.6	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
372	Residential	3	2	0.0	15.5	0.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
654	Commercial	10	2	0.4	4.0	1.6	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
634	Commercial	10	2	0.1	18.6	1.4	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
617	Residential	3	2	0.2	5.4	1.0	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
377	Residential	3	2	0.0	9.9	0.5	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
388	Residential	3	2	0.3	1.9	0.5	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
414	Residential	3	2	0.6	2.0	1.1	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
420	Residential	3	2	0.3	4.0	1.3	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
441	Residential	3	2	0.8	0.9	0.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
447	Residential	3	2	0.6	1.3	0.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
452	Residential	3	2	0.5	1.4	0.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
518	Residential	3	2	0.3	2.1	0.6	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
521	Residential	3	2	0.6	1.3	0.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
527	Residential	3	2	0.4	1.7	0.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
529	Residential	3	2	0.3	1.9	0.6	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
540	Residential	3	2	0.2	1.4	0.3	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
554	Residential	3	2	0.4	3.2	1.4	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
566	Residential	3	2	0.4	2.0	0.9	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
574	Residential	3	2	0.6	1.3	0.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
582	Residential	3	2	0.4	1.8	0.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
585	Residential	3	2	0.3	1.7	0.5	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
597	Residential	3	2	0.4	2.0	0.9	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
611	Residential	3	2	0.5	3.7	1.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
626	Residential	3	2	0.4	4.2	1.5	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
627	Residential	3	2	0.5	3.2	1.4	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
629	Residential	3	2	1.0	2.4	2.3	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
631	Residential	3	2	0.7	2.1	1.4	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
635	Residential	3	2	0.4	2.5	1.0	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
639	Commercial	10	2	0.5	4.6	2.4	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
640	Residential	3	2	0.1	10.1	0.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
643	Residential	3	2	0.4	3.0	1.1	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
645	Commercial	10	2	0.3	3.5	1.1	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

													DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted LOL	Day Breach						Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
								Day	Night		Day	Night																								
649	Residential	3	2	1.1	1.7	1.9	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
653	Residential	3	2	0.9	1.4	1.2	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
658	Residential	3	2	0.7	2.0	1.4	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
663	Residential	3	2	0.2	5.8	1.2	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
667	Residential	3	2	1.0	2.5	2.5	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
671	Residential	3	2	0.2	4.3	0.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
674	Residential	3	2	0.2	6.0	1.5	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
676	Residential	3	2	0.7	2.4	1.6	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
681	Residential	3	2	1.2	2.3	2.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
535	Residential	3	2	0.3	1.7	0.6	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
430	Residential	3	2	0.3	1.5	0.5	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
555	Residential	3	2	0.3	1.3	0.4	2.76	3.01	2.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
509	Residential	3	2	0.0	5.1	0.2	2.76	3.01	2.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
461	Residential	3	2	0.3	2.0	0.7	2.77	3.02	2.02	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
385	Residential	3	2	0.1	0.1	0.0	2.78	3.03	2.03	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
410	Residential	3	2	0.1	0.1	0.0	2.78	3.03	2.03	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
530	Residential	3	2	0.1	1.6	0.2	2.78	3.03	2.03	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
393	Residential	3	2	0.2	1.5	0.3	2.78	3.03	2.03	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
547	Residential	3	2	0.2	1.6	0.4	2.78	3.03	2.03	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
403	Residential	3	2	0.0	0.1	0.0	2.79	3.04	2.04	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
673	Residential	3	2	0.3	3.3	1.0	2.79	3.04	2.04	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
648	Residential	3	2	0.2	5.2	1.2	2.80	3.05	2.05	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
564	Residential	3	2	0.2	1.0	0.2	2.80	3.05	2.05	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
668	Residential	3	2	0.0	21.4	0.7	2.81	3.06	2.06	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
343	Farm/Shop	2	2	0.0	5.0	0.1	2.82	3.07	2.07	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
652	Residential	3	2	0.1	13.4	1.1	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
565	Residential	3	2	0.2	1.3	0.2	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
394	Residential	3	2	0.2	2.8	0.6	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
436	Residential	3	2	0.2	1.8	0.3	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
445	Residential	3	2	0.7	1.0	0.6	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
450	Residential	3	2	0.4	1.6	0.7	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
460	Residential	3	2	0.2	2.9	0.6	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
465	Residential	3	2	0.3	1.8	0.5	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
478	Residential	3	2	0.5	1.5	0.8	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
484	Residential	3	2	0.3	2.1	0.7	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
510	Residential	3	2	0.3	1.0	0.4	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
514	Residential	3	2	0.3	2.0	0.5	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
517	Residential	3	2	0.5	1.4	0.6	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
528	Residential	3	2	0.3	0.7	0.2	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
533	Residential	3	2	0.0	7.6	0.3	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
550	Residential	3	2	0.4	0.9	0.4	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
562	Residential	3	2	0.2	1.7	0.3	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
568	Residential	3	2	0.3	1.0	0.2	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
576	Residential	3	2	0.3	1.0	0.3	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
579	Residential	3	2	0.7	1.4	0.9	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
584	Residential	3	2	0.1	2.9	0.3	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
587	Residential	3	2	0.3	1.4	0.5	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
590	Residential	3	2	0.2	3.2	0.5	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
594	Residential	3	2	0.3	1.9	0.5	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
599	Residential	3	2	0.1	5.7	0.4	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
602	Residential	3	2	0.2	1.3	0.3	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
632	Residential	3	2	0.3	5.1	1.5	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
657	Residential	3	2	0.4	3.2	1.2	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
670	Residential	3	2	0.5	1.0	0.5	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
677	Residential	3	2	0.1	6.9	0.5	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
679	Residential	3	2	0.7	2.0	1.4	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
680	Commercial	10	2	0.4	2.9	1.1	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
685	Residential	3	2	0.7	3.7	2.6	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
686	Commercial	10	2	0.9	3.1	2.6	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
687	Residential	3	2	0.5	3.6	1.8	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
689	Residential	3	2	0.3	6.7	2.3	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
691	Residential	3	2	0.5	1.8	0.9	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
693	Residential	3	2	0.7	2.6	1.7	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
698	Residential	3	2	0.7	1.8	1.2	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
706	Residential	3	2	0.3	5.8	2.0	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
468	Residential	3	2	0.1	5.0	0.7	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
675	Residential	3	2	0.5	2.8	1.3	2.84	3.09	2.09	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
455	Residential	3	2	0.2	4.0	0.6	2.84	3.09	2.09	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
559	Residential	3	2	0.2	3.1	0.7	2.85	3.10	2.10	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
473	Residential	3	2	0.3	2.8	0.8	2.85	3.10	2.10	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
444	Residential	3	2	0.2	1.7	0.3	2.85	3.10	2.10	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
536	Residential	3	2	0.1	2.5	0.3	2.86	3.11	2.11	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
463	Residential	3	2	0.2	2.5	0.5	2.87	3.12	2.12	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
389	Residential	3	2	0.1	1.3	0.2	2.87	3.12	2.12	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
543	Residential	3	2	0.3	1.4	0.4	2.87	3.12	2.12	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
571	Residential	3	2	0.2	1.6	0.3	2.89	3.14	2.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
485	Commercial	10	2	0.3	2.5	0.6	2.89	3.14	2.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
596	Residential	3	2	0.1	3.2	0.5	2.89	3.14	2.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
520	Residential	3	2	0.4	1.8	0.7	2.89	3.14	2.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
551	Residential	3	2	0.3	2.0	0.5	2.90	3.15	2.15	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
471	Residential	3	2	0.2	2.5	0.4	2.91	3.16	2.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
669	Residential	3	2	0.2	3.0	0.5	2.91	3.16	2.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
512	Residential	3	2	0.3	1.4	0.4	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
718	Residential	3	2	0.5	2.9	1.3	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
475	Residential	3	2	0.3	1.4	0.4	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
488	Residential	3	2	0.3	0.9	0.3	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
496	Residential	3	2	0.4	1.4	0.6	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
522	Residential	3	2	0.4	2.1	0.8	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
538	Residential	3	2	0.4	1.9	0.8	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
542	Residential	3	2	0.0	0.1	0.0	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
544	Residential	3	2	0.3	2.5	0.9	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
545	Residential	3	2	0.2	2.3	0.5	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
553	Residential	3	2	0.5	1.9	0.9	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
569	Residential	3	2	0.3	2.3	0.7	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
578	Residential	3	2	0.4	1.7	0.7	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
583	Residential	3	2	0.5	1.4	0.7	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
593	Residential	3	2	0.2	1.7	0.3	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
601	Residential	3	2	0.3	1.1	0.3	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
614	Residential	3	2	0.3	0.8	0.3	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
642	Residential	3	2	0.0	7.8	0.3	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
664	Residential	3	2	0.2	1.8	0.3	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
682	Residential	3	2	0.0	0.1	0.0	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
683	Residential	3	2	0.9	0.9	0.8	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
699	Farm/Shop	2	2	0.1	16.1	2.2	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
700	Farm/Shop	2	2	0.2	7.3	1.8	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
701	Residential	3	2	0.3	2.8	1.0	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
703	Residential	3	2	0.3	2.6	0.8	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
704	Residential	3	2	0.3	1.7	0.5	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
707	Residential	3	2	0.8	2.5	2.0	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
710	Residential	3	2	0.9	0.5	0.5	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
711	Residential	3	2	0.1	8.9	0.6	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
712	Residential	3	2	0.4	6.6	2.4	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
713	Residential	3	2	0.8	0.9	0.7	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
714	Residential	3	2	0.8	2.7	2.2	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
716	Residential	3	2	1.0	1.8	1.8	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
719	Residential	3	2	0.0	20.8	0.9	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
384	Residential	3	2	0.0	0.1	0.0	2.93	3.18	2.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
655	Residential	3	2	0.4	1.1	0.4	2.93	3.18	2.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
500	Residential	3	2	0.3	1.8	0.6	2.93	3.18	2.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
695	Commercial	10	2	0.0	0.1	0.0	2.93	3.18	2.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
696	Commercial	10	2	0.0	0.1	0.0	2.93	3.18	2.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
662	Residential	3	2	0.0	145.8	0.4	2.94	3.19	2.19	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
616	Residential	3	2	0.2	1.1	0.2	2.94	3.19	2.19	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
609	Residential	3	2	0.2	1.1	0.3	2.94	3.19	2.19	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
575	Residential	3	2	0.2	3.2	0.6	2.94	3.19	2.19	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
580	Residential	3	2	0.2	1.7	0.3	2.95	3.20	2.20	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
492	Residential	3	2	0.1	3.0	0.2	2.96	3.21	2.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
651	Residential	3	2	0.0	0.1	0.0	2.96	3.21	2.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
482	Residential	3	2	0.2	2.1	0.3	2.96	3.21	2.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
589	Residential	3	2	0.2	1.2	0.3	2.97	3.22	2.22	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
396	Residential	3	2	0.2	0.9	0.1	2.98	3.23	2.23	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
549	Residential	3	2	0.3	3.3	1.0	2.98	3.23	2.23	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
541	Residential	3	2	0.4	1.9	0.8	2.99	3.24	2.24	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
434	Residential	3	2	0.3	1.3	0.4	2.99	3.24	2.24	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
598	Residential	3	2	0.4	0.9	0.4	2.99	3.24	2.24	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
638	Residential	3	2	0.0	0.1	0.0	2.99	3.24	2.24	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
524	Residential	3	2	0.5	1.8	0.8	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
525	Residential	3	2	0.4	1.7	0.7	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
557	Residential	3	2	0.1	4.2	0.6	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
558	Residential	3	2	0.5	1.8	0.9	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
563	Residential	3	2	0.6	1.2	0.8	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
570	Residential	3	2	0.6	1.4	0.8	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
577	Residential	3	2	0.5	1.4	0.6	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
586	Residential	3	2	0.4	1.9	0.7	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
588	Residential	3	2	0.3	2.3	0.7	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
591	Residential	3	2	0.4	1.5	0.7	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
592	Residential	3	2	0.7	1.3	0.9	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
595	Residential	3	2	0.4	0.9	0.3	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
600	Residential	3	2	0.3	0.9	0.3	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
603	Residential	3	2	0.4	1.6	0.7	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
608	Residential	3	2	0.1	3.3	0.3	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
615	Residential	3	2	0.2	1.0	0.2	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
618	Residential	3	2	0.0	6.5	0.2	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
644	Residential	3	2	0.1	4.6	0.3	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
709	Commercial	10	2	1.7	0.4	0.7	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
723	Commercial	10	2	0.4	1.3	0.6	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
730	Residential	3	2	0.7	3.2	2.3	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
620	Residential	3	2	0.1	2.1	0.2	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
729	Residential	3	2	0.2	3.2	0.7	3.03	3.28	2.28	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
428	Residential	3	2	0.1	0.1	0.0	3.05	3.30	2.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
622	Residential	3	2	0.1	3.1	0.2	3.05	3.30	2.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
728	Residential	3	2	0.2	2.8	0.7	3.05	3.30	2.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
624	Residential	3	2	0.0	9.7	0.2	3.06	3.31	2.31	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
606	Residential	3	2	0.2	1.3	0.3	3.06	3.31	2.31	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
726	Residential	3	2	0.2	2.3	0.5	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
737	Residential	3	2	0.2	5.8	1.4	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
739	Residential	3	2	0.2	6.0	0.9	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
334	Residential	3	2	0.1	0.7	0.0	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
561	Residential	3	2	0.3	1.0	0.3	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
581	Residential	3	2	0.4	1.9	0.7	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
610	Residential	3	2	0.1	1.9	0.3	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
623	mmercial/Fire D	10	2	0.1	2.7	0.4	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
715	Residential	3	2	0.0	4.9	0.2	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
721	Road	2	2	2.3	2.8	6.4	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
733	Residential	3	2	1.3	1.7	2.3	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
734	Residential	3	2	1.1	2.2	2.5	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
736	Residential	3	2	0.2	2.2	0.4	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
738	Residential	3	2	0.2	9.4	1.9	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
744	Residential	3	2	0.2	7.4	1.3	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
613	Residential	3	2	0.1	4.0	0.4	3.10	3.35	2.35	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
742	Residential	3	2	0.2	4.6	1.0	3.10	3.35	2.35	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
746	Residential	3	2	0.5	2.8	1.4	3.12	3.37	2.37	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
741	Residential	3	2	0.0	0.1	0.0	3.14	3.39	2.39	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
646	Residential	3	2	0.2	1.3	0.2	3.14	3.39	2.39	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
748	Commercial	10	2	0.1	0.1	0.0	3.16	3.41	2.41	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
407	Residential	3	2	0.1	1.6	0.2	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
672	Commercial	10	2	0.1	0.1	0.0	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
688	Commercial	10	2	0.0	9.7	0.1	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
735	Commercial	10	2	0.7	0.3	0.2	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
745	Residential	3	2	1.0	2.0	2.1	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
740	Residential	3	2	0.1	0.1	0.0	3.20	3.45	2.45	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
300	Residential	3	2	1.6	0.1	0.2	3.25	3.50	2.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
725	Commercial	10	2	0.4	1.4	0.5	3.27	3.52	2.52	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
294	Residential	3	2	0.3	1.1	0.3	3.40	3.65	2.65	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
743	Residential	3	2	0.1	0.7	0.1	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
314	Residential	3	2	0.1	5.8	0.3	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
81	Residential	3	2	0.2	1.1	0.3	3.88	4.13	3.13	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
287	Residential	3	2	0.4	0.1	0.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
346	Farm/Shop	2	2	0.8	0.4	0.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
293	Residential	3	2	1.1	0.3	0.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
308	Residential	3	2	0.0	1.3	0.1	5.92	6.17	5.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
317	Farm/Shop	2	2	0.2	0.1	0.0	6.71	6.96	5.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
321	Residential	3	2	0.3	0.3	0.1	7.58	7.83	6.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
537	Residential	3	2	0.1	0.7	0.1	8.33	8.58	7.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
119	Residential	3	2	0.0	0.1	0.0	9.74	9.99	8.99	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
133	Residential	3	2	0.1	1.6	0.1	10.08	10.33	9.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
130	Residential	3	2	0.1	0.5	0.1	10.25	10.50	9.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
132	Residential	3	2	0.1	0.1	0.0	10.28	10.53	9.53	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
134	Residential	3	2	0.1	1.0	0.1	10.39	10.64	9.64	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
138	Residential	3	2	0.1	0.3	0.0	10.47	10.72	9.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
140	Residential	3	2	0.6	0.1	0.1	10.50	10.75	9.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
144	Residential	3	2	0.1	0.2	0.0	11.00	11.25	10.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
136	Residential	3	2	0.0	3.2	0.0	11.08	11.33	10.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
122	Residential	3	2	0.1	0.2	0.0	12.48	12.73	11.73	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
159	Residential	3	2	0.3	0.0	0.0	12.87	13.12	12.12	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
123	Residential	3	2	0.1	0.1	0.0	12.92	13.17	12.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
126	Residential	3	2	0.3	0.1	0.0	13.00	13.25	12.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
157	Residential	3	2	0.5	0.0	0.0	13.00	13.25	12.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
127	Residential	3	2	0.0	1.1	0.0	13.42	13.67	12.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
100	Residential	3	2	0.1	0.1	0.0	18.16	18.41	17.41	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
171	Residential	3	2	0.1	0.4	0.1	19.00	19.25	18.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
173	Residential	3	2	0.0	1.7	0.1	19.05	19.30	18.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
174	Residential	3	2	0.1	0.5	0.1	19.08	19.33	18.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
177	Residential	3	2	0.1	0.7	0.1	19.17	19.42	18.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
180	Residential	3	2	0.1	0.6	0.1	19.25	19.50	18.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
179	Residential	3	2	0.0	1.7	0.1	19.30	19.55	18.55	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
181	Residential	3	2	0.0	0.9	0.0	19.34	19.59	18.59	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
183	Residential	3	2	0.1	0.4	0.0	19.42	19.67	18.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
176	Residential	3	2	0.0	1.4	0.1	19.42	19.67	18.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
182	Residential	3	2	0.1	0.3	0.0	19.50	19.75	18.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
184	Residential	3	2	0.1	0.7	0.0	19.50	19.75	18.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
189	Residential	3	2	0.0	7.7	0.1	19.58	19.83	18.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
190	Residential	3	2	0.2	0.4	0.1	19.67	19.92	18.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
188	Residential	3	2	0.0	2.6	0.1	19.71	19.96	18.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
191	Residential	3	2	0.0	4.7	0.1	19.75	20.00	19.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
186	Residential	3	2	0.1	0.8	0.1	19.75	20.00	19.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
187	Residential	3	2	0.1	0.6	0.1	19.75	20.00	19.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
193	Residential	3	2	0.1	0.7	0.1	19.83	20.08	19.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
195	Residential	3	2	0.0	5.6	0.1	19.83	20.08	19.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
198	Residential	3	2	0.0	0.1	0.0	19.84	20.09	19.09	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
196	Residential	3	2	0.0	0.1	0.0	19.89	20.14	19.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
197	Residential	3	2	0.0	1.4	0.1	19.91	20.16	19.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
200	Residential	3	2	0.0	0.1	0.0	19.91	20.16	19.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
205	Residential	3	2	0.0	0.1	0.0	20.00	20.25	19.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
201	Residential	3	2	0.3	0.2	0.1	20.00	20.25	19.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
208	Residential	3	2	0.1	0.7	0.1	20.17	20.42	19.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
206	Residential	3	2	0.1	1.0	0.1	20.20	20.45	19.45	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
210	Residential	3	2	0.1	0.5	0.1	20.25	20.50	19.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
204	Residential	3	2	0.0	0.1	0.0	20.27	20.52	19.52	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
209	Residential	3	2	0.1	1.0	0.1	20.33	20.58	19.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
211	Residential	3	2	0.0	1.8	0.1	20.37	20.62	19.62	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
215	Residential	3	2	0.1	0.9	0.1	20.40	20.65	19.65	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
212	Residential	3	2	0.0	5.6	0.1	20.50	20.75	19.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
214	Residential	3	2	0.1	1.0	0.1	20.50	20.75	19.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
216	Residential	3	2	0.2	0.3	0.0	20.50	20.75	19.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
217	Residential	3	2	0.1	0.4	0.0	20.50	20.75	19.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
199	Residential	3	2	0.2	0.1	0.0	20.62	20.87	19.87	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
207	Residential	3	2	0.2	0.3	0.1	20.83	21.08	20.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
178	Commercial	10	2	0.2	0.1	0.0	21.40	21.65	20.65	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
167	Commercial	10	2	0.5	0.0	0.0	21.58	21.83	20.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
170	Commercial	10	2	0.3	0.0	0.0	21.75	22.00	21.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
164	Commercial	10	2	0.1	0.1	0.0	22.25	22.50	21.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
161	Commercial	10	2	0.3	0.0	0.0	22.75	23.00	22.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
154	Commercial	10	2	0.3	0.0	0.0	22.83	23.08	22.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
151	Residential	3	2	0.0	0.3	0.0	23.67	23.92	22.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
143	Commercial	10	2	1.1	0.0	0.0	23.75	24.00	23.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
147	Commercial	10	2	0.8	0.1	0.0	24.92	25.17	24.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
137	Commercial	10	2	0.5	0.0	0.0	25.17	25.42	24.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
142	Commercial	10	2	0.2	0.0	0.0	26.75	27.00	26.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
873	Residential	3	3	4.6	12.2	55.5	2.25	2.50	1.50	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00003	0.00294	0.00010	0.00882	0.00446	0.00003	0.00294	0.00010	0.00882	0.00446	0.0045
939	Residential	3	3	6.2	11.6	72.1	2.25	2.50	1.50	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00008	0.00415	0.00024	0.01246	0.00635	0.00008	0.00415	0.00024	0.01246	0.00635	0.0063
959	Commercial	10	3	3.0	12.4	36.8	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00158	0.00000	0.01581	0.00790	0.00000	0.00158	0.00000	0.01581	0.00790	0.0079
967	Commercial	10	3	9.8	10.5	102.6	2.25	2.50	1.50	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.05	0.6	0.3	0.005	0.06	0.03	0.05	0.6	0.3	0.3	0.00023	0.00642	0.00226	0.06418	0.03322	0.00023	0.00642	0.00226	0.06418	0.03322	0.0332
971	Residential	3	3	4.9	12.6	62.1	2.25	2.50	1.50	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00005	0.00343	0.00016	0.01028	0.00522	0.00005	0.00343	0.00016	0.01028	0.00522	0.0052
985	Residential	3	3	6.7	10.9	73.2	2.25	2.50	1.50	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00008	0.00424	0.00025	0.01272	0.00648	0.00008	0.00424	0.00025	0.01272	0.00648	0.0065
991	Commercial	10	3	3.0	6.8	20.2	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00061	0.00000	0.00611	0.00306	0.00000	0.00061	0.00000	0.00611	0.00306

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1004	Residential	3	3	7.7	9.5	73.5	2.25	2.50	1.50	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00008	0.00426	0.00025	0.01279	0.00652	0.00008	0.00426	0.00025	0.01279	0.00652	0.0065
1018	Commercial	10	3	4.0	3.3	13.0	2.25	2.50	1.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00032	0.00000	0.00320	0.00160	0.00000	0.00032	0.00000	0.00320	0.00160	0.0016
958	Commercial	10	3	1.2	18.4	22.9	2.32	2.57	1.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00076	0.00000	0.00757	0.00378	0.00000	0.00076	0.00000	0.00757	0.00378	0.0038
990	School	100	3	3.1	8.2	25.9	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.06	0.03	0	0.0006	0.0003	0	0.06	0.03	0.03	0.00000	0.00092	0.00000	0.09203	0.04602	0.00000	0.00092	0.00000	0.09203	0.04602	0.0460
1003	Residential	3	3	4.4	4.2	18.4	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00053	0.00000	0.00160	0.00080	0.00000	0.00053	0.00000	0.00160	0.00080	0.0008
1010	Residential	3	3	7.2	7.6	54.1	2.33	2.58	1.58	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.015	0.18	0.09	0.005	0.06	0.03	0.015	0.18	0.09	0.09	0.00003	0.00284	0.00009	0.00851	0.00430	0.00003	0.00284	0.00009	0.00851	0.00430	0.0043
1015	Residential	3	3	4.6	4.6	21.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00067	0.00000	0.00200	0.00100	0.00000	0.00067	0.00000	0.00200	0.00100	0.0010
1021	Residential	3	3	6.0	6.4	38.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00170	0.00000	0.00511	0.00255	0.00000	0.00170	0.00000	0.00511	0.00255	0.0026
1022	Residential	3	3	4.5	4.1	18.3	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00053	0.00000	0.00160	0.00080	0.00000	0.00053	0.00000	0.00160	0.00080	0.0008
1027	Residential	3	3	3.2	4.8	15.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00126	0.00063	0.00000	0.00042	0.00000	0.00126	0.00063	0.0006
1030	Residential	3	3	4.8	10.1	48.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00002	0.00244	0.00005	0.00731	0.00368	0.00002	0.00244	0.00005	0.00731	0.00368	0.0037
1037	Residential	3	3	5.3	6.9	36.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00153	0.00000	0.00460	0.00230	0.00000	0.00153	0.00000	0.00460	0.00230	0.0023
1055	Commercial	10	3	2.1	5.3	11.3	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00025	0.00000	0.00252	0.00126	0.00000	0.00025	0.00000	0.00252	0.00126	0.0013
1063	Farm/Shop	2	3	3.0	6.3	19.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00056	0.00000	0.00112	0.00056	0.00000	0.00056	0.00000	0.00112	0.00056	0.0006
1066	Residential	3	3	3.3	10.6	35.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00148	0.00000	0.00445	0.00223	0.00000	0.00148	0.00000	0.00445	0.00223	0.0022
1067	Residential	3	3	4.6	8.9	40.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00187	0.00000	0.00561	0.00281	0.00000	0.00187	0.00000	0.00561	0.00281	0.0028
1091	Residential	3	3	2.8	5.5	15.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00040	0.00000	0.00121	0.00060	0.00000	0.00040	0.00000	0.00121	0.00060	0.0006
1096	Residential	3	3	4.8	6.7	32.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00126	0.00000	0.00378	0.00189	0.00000	0.00126	0.00000	0.00378	0.00189	0.0019
1101	Residential	3	3	3.9	3.9	15.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00041	0.00000	0.00122	0.00061	0.00000	0.00041	0.00000	0.00122	0.00061	0.0006
1103	Residential	3	3	1.5	11.6	17.4	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00049	0.00000	0.00148	0.00074	0.00000	0.00049	0.00000	0.00148	0.00074	0.0007
1104	Residential	3	3	1.9	14.8	27.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00102	0.00000	0.00306	0.00153	0.00000	0.00102	0.00000	0.00306	0.00153	0.0015
1106	Residential	3	3	2.7	6.1	16.7	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00047	0.00000	0.00141	0.00070	0.00000	0.00047	0.00000	0.00141	0.00070	0.0007
1111	Residential	3	3	2.7	10.7	29.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00109	0.00000	0.00326	0.00163	0.00000	0.00109	0.00000	0.00326	0.00163	0.0016
1113	Residential	3	3	3.5	9.2	32.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00125	0.00000	0.00376	0.00188	0.00000	0.00125	0.00000	0.00376	0.00188	0.0019
1117	Residential	3	3	3.9	8.6	33.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00131	0.00000	0.00393	0.00196	0.00000	0.00131	0.00000	0.00393	0.00196	0.0020
1144	Residential	3	3	4.1	11.1	45.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00001	0.00221	0.00003	0.00663	0.00333	0.00001	0.00221	0.00003	0.00663	0.00333	0.0033
1150	Residential	3	3	3.9	10.2	40.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00181	0.00000	0.00544	0.00272	0.00000	0.00181	0.00000	0.00544	0.00272	0.0027
1158	Residential	3	3	1.8	3.5	6.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1159	Residential	3	3	2.8	4.8	13.4	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00034	0.00000	0.00101	0.00050	0.00000	0.00034	0.00000	0.00101	0.00050	0.0005
1164	Residential	3	3	2.7	12.6	34.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00138	0.00000	0.00413	0.00207	0.00000	0.00138	0.00000	0.00413	0.00207	0.0021
1167	Residential	3	3	2.4	6.4	15.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00040	0.00000	0.00121	0.00061	0.00000	0.00040	0.00000	0.00121	0.00061	0.0006
1174	Residential	3	3	1.0	13.7	13.9	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00107	0.00053	0.00000	0.00036	0.00000	0.00107	0.00053	0.0005
1182	Residential	3	3	1.8	10.8	19.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00058	0.00000	0.00175	0.00087	0.00000	0.00058	0.00000	0.00175	0.00087	0.0009
1188	Residential	3	3	2.9	5.9	17.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00048	0.00000	0.00145	0.00072	0.00000	0.00048	0.00000	0.00145	0.00072	0.0007
1193	Residential	3	3	4.9	4.9	24.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00081	0.00000	0.00244	0.00122	0.00000	0.00081	0.00000	0.00244	0.00122	0.0012
1200	Residential	3	3	5.2	6.4	33.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00134	0.00000	0.00403	0.00202	0.00000	0.00134	0.00000	0.00403	0.00202	0.0020
1210	Residential	3	3	3.1	5.4	16.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00046	0.00000	0.00138	0.00069	0.00000	0.00046	0.00000	0.00138	0.00069	0.0007
1212	Residential	3	3	3.9	7.1	27.3	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00099	0.00000	0.00298	0.00149	0.00000	0.00099	0.00000	0.00298	0.00149	0.0015
1215	Residential	3	3	3.6	5.0	18.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00052	0.00000	0.00156	0.00078	0.00000	0.00052	0.00000	0.00156	0.00078	0.0008
1220	Residential	3	3	3.7	5.6	20.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00063	0.00000	0.00190	0.00095	0.00000	0.00063	0.00000	0.00190	0.00095	0.0010
1224	Residential	3	3	3.7	5.7	21.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00066	0.00000	0.00199	0.00100	0.00000	0.00066	0.00000	0.00199	0.00100	0.0010
1227	Residential	3	3	3.2	6.8	22.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00072	0.00000	0.00215	0.00107	0.00000	0.00072	0.00000	0.00215	0.00107	0.0011
1228	Residential	3	3	3.3	6.8	22.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00072	0.00000	0.00215	0.00108	0.00000	0.00072	0.00000	0.00215	0.00108	0.0011
1230	Residential	3	3	4.8	5.5	26.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00096	0.00000	0.00287	0.00143	0.00000	0.00096	0.00000	0.00287	0.00143	0.0014
1244	Residential	3	3	3.7	8.3	31.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00119	0.00000	0.00358	0.00179	0.00000	0.00119	0.00000	0.00358	0.00179	0.0018
1249	Residential	3	3	3.6	8.2	29.7	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00112	0.00000	0.00337	0.00168	0.00000	0.00112	0.00000	0.00337	0.00168	0.0017
1253	Residential	3	3	3.4	7.9	26.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00096	0.00000	0.00287	0.00143	0.00000	0.00096	0.00000	0.00287	0.00143	0.0014
1260	Residential	3	3	3.5	7.3	25.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00090	0.00000	0.00271	0.00135	0.00000	0.00090	0.00000	0.00271	0.00135	0.0014
1262	Residential	3	3	3.5	6.9	24.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00082	0.00000	0.00246	0.00123	0.00000	0.00082	0.00000	0.00246	0.00123	0.0012
1264	Residential	3	3	3.0	7.6	23.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00077	0.00000	0.00230	0.00115	0.00000	0.00077	0.00000	0.00230	0.00115	0.0011
1265	Commercial	10	3	4.5	6.0	27.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00099	0.00000	0.00990	0.00495	0.00000	0.00099	0.00000	0.00990	0.00495	0.0050
1269	Residential	3	3	2.9	7.6	22.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00072	0.00000	0.00215	0.00107	0.00000	0.00072	0.00000	0.00215	0.00107	0.0011
1274	Commercial	10	3	3.9	7.2	28.3	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00105	0.00000	0.01045	0.00523	0.00000	0.00105	0.00000	0.01045	0.00523	0.0052
1275	Commercial	10	3	3.7	7.7	28.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00106	0.00000	0.01062	0.00531	0.00000	0.00106	0.00000	0.01062	0.00531	0.0053
1278	Commercial	10	3	3.7	7.5	27.7	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00102	0.00000	0.01015	0.00508	0.00000	0.00102	0.00000	0.01015	0.00508	0.0051
1282	Commercial	10	3	3.5	7.6	27.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00098	0.00000	0.00982	0.00491	0.00000	0.00098	0.00000	0.00982	0.00491	0.0049
1289	Commercial	10	3	3.5	7.3	25.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00090	0.00000	0.00898	0.00449	0.00000	0.00090	0.00000	0.00898	0.00449	0.0045
1294	Commercial	10	3	3.4	7.2	24.2	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00083	0.00000	0.00825	0.00413	0.00000	0.00083	0.00000	0.00825	0.00413	0.0041
1298	Commercial	10	3	3.1	7.3	22.9	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00076	0.00000	0.00758	0.00379	0.00000	0.00076	0.00000	0.00758	0.00379	0.0038
1301	Commercial	10	3	2.9	7.6	21.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00068	0.00000	0.00683	0.00342	0.00000	0.00068	0.00000	0.00683	0.00342	0.0034
1309	Commercial	10	3	3.6	6.2	22.1	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00071	0.00000	0.00715	0.00357	0.00000	0.00071	0.00000	0.00715	0.00357	0.0036
1312	Commercial	10	3	2.5	6.9	17.4	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00050	0.00000	0.00496	0.00248	0.00000	0.00050	0.00000	0.00496	0.00248	0.0025
1316	Commercial	10	3	3.4	6.6	22.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00074	0.00000	0.00737	0.00368	0.00000	0.00074	0.00000	0.00737	0.00368	0.0037
1317	Commercial	10	3	2.8	4.6	12.7	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00031	0.00000	0.00309	0.00155	0.00000	0.00031	0.00000	0.00309	0.00155	0.0015
1321	Residential	3	3	3.1	5.5	17.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00048	0.00000	0.00144	0.00072	0.00000	0.00048	0.00000	0.00144	0.00072	0.0007
1324	Commercial	10	3	3.4	6.6	22.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00071	0.00000	0.00709	0.00355	0.00000	0.00071	0.00000	0.00709	0.00355	0.0035
1325	Commercial	10	3	3.2	6.6	21.3	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00067	0.00000	0.00669	0.00334	0.00000	0.00067	0.00000	0.00669	0.00334	0.0033
1327	Commercial	10	3	3.1	5.1	16.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00044	0.00000	0.00439	0.00219	0.00000	0.00044	0.00000	0.00439	0.00219	0.0022
1331	Commercial	10	3	3.4	6.0	20.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00063	0.00000	0.00627	0.00314	0.00000	0.00063	0.00000	0.00627

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted	Day Breach					Night Breach					Weighted
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life			LOL	Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			LOL
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1336	Commercial	10	3	3.5	5.6	19.6	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00059	0.00000	0.00585	0.00293	0.00000	0.00059	0.00000	0.00585	0.00293	0.0029
1339	mmercial/Fire D	10	3	2.8	5.8	16.4	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00046	0.00000	0.00457	0.00229	0.00000	0.00046	0.00000	0.00457	0.00229	0.0023
1342	Commercial	10	3	3.0	6.0	17.9	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00052	0.00000	0.00515	0.00258	0.00000	0.00052	0.00000	0.00515	0.00258	0.0026
1345	Commercial	10	3	3.2	6.2	19.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00058	0.00000	0.00579	0.00289	0.00000	0.00058	0.00000	0.00579	0.00289	0.0029
1346	Commercial	10	3	3.8	3.8	14.4	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00038	0.00000	0.00377	0.00188	0.00000	0.00038	0.00000	0.00377	0.00188	0.0019
1351	Commercial	10	3	1.5	5.6	8.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1352	Commercial	10	3	3.6	5.7	20.8	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00064	0.00000	0.00642	0.00321	0.00000	0.00064	0.00000	0.00642	0.00321	0.0032
1358	Commercial	10	3	4.7	4.9	23.4	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00078	0.00000	0.00782	0.00391	0.00000	0.00078	0.00000	0.00782	0.00391	0.0039
1369	Commercial	10	3	4.1	4.6	18.5	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00054	0.00000	0.00541	0.00270	0.00000	0.00054	0.00000	0.00541	0.00270	0.0027
1375	Commercial	10	3	4.2	5.2	22.0	2.33	2.58	1.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00071	0.00000	0.00709	0.00354	0.00000	0.00071	0.00000	0.00709	0.00354	0.0035
1347	Commercial	10	3	0.3	20.3	6.5	2.40	2.65	1.65	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1047	Residential	3	3	3.6	4.8	17.7	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00051	0.00000	0.00152	0.00076	0.00000	0.00051	0.00000	0.00152	0.00076	0.0008
1054	Residential	3	3	2.8	6.9	19.5	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00058	0.00000	0.00174	0.00087	0.00000	0.00058	0.00000	0.00174	0.00087	0.0009
1059	Farm/Shop	2	3	3.3	5.9	19.4	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00058	0.00000	0.00115	0.00058	0.00000	0.00058	0.00000	0.00115	0.00058	0.0006
1064	Residential	3	3	3.2	7.2	23.4	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00078	0.00000	0.00235	0.00117	0.00000	0.00078	0.00000	0.00235	0.00117	0.0012
1088	Residential	3	3	4.3	5.4	23.3	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00078	0.00000	0.00234	0.00117	0.00000	0.00078	0.00000	0.00234	0.00117	0.0012
1089	Residential	3	3	3.1	6.6	20.2	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00061	0.00000	0.00183	0.00092	0.00000	0.00061	0.00000	0.00183	0.00092	0.0009
1099	Road	2	3	3.6	6.4	23.1	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00077	0.00000	0.00154	0.00077	0.00000	0.00077	0.00000	0.00154	0.00077	0.0008
1109	Farm/Shop	2	3	3.2	6.5	21.0	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00065	0.00000	0.00131	0.00065	0.00000	0.00065	0.00000	0.00131	0.00065	0.0007
1122	Residential	3	3	3.3	6.9	23.1	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00077	0.00000	0.00230	0.00115	0.00000	0.00077	0.00000	0.00230	0.00115	0.0012
1137	Residential	3	3	3.1	15.0	47.2	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00001	0.00234	0.00004	0.00701	0.00353	0.00001	0.00234	0.00004	0.00701	0.00353	0.0035
1169	Residential	3	3	4.3	5.7	24.9	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00086	0.00000	0.00259	0.00129	0.00000	0.00086	0.00000	0.00259	0.00129	0.0013
1226	Residential	3	3	3.3	6.6	22.1	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00071	0.00000	0.00214	0.00107	0.00000	0.00071	0.00000	0.00214	0.00107	0.0011
1246	Residential	3	3	5.4	5.6	30.3	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00116	0.00000	0.00347	0.00173	0.00000	0.00116	0.00000	0.00347	0.00173	0.0017
1250	Residential	3	3	4.6	6.1	27.9	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00103	0.00000	0.00308	0.00154	0.00000	0.00103	0.00000	0.00308	0.00154	0.0015
1334	Commercial	10	3	5.1	7.7	39.2	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00175	0.00000	0.01755	0.00877	0.00000	0.00175	0.00000	0.01755	0.00877	0.0088
1341	Commercial	10	3	3.0	4.3	13.2	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00033	0.00000	0.00328	0.00164	0.00000	0.00033	0.00000	0.00328	0.00164	0.0016
1349	Commercial	10	3	4.2	7.8	33.2	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00131	0.00000	0.01315	0.00657	0.00000	0.00131	0.00000	0.01315	0.00657	0.0066
1353	Commercial	10	3	2.9	5.1	14.7	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00039	0.00000	0.00388	0.00194	0.00000	0.00039	0.00000	0.00388	0.00194	0.0019
1359	Residential	3	3	2.8	5.2	14.7	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00039	0.00000	0.00116	0.00058	0.00000	0.00039	0.00000	0.00116	0.00058	0.0006
1363	Commercial	10	3	2.4	5.5	13.5	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00034	0.00000	0.00341	0.00170	0.00000	0.00034	0.00000	0.00341	0.00170	0.0017
1365	Commercial	10	3	3.1	4.7	14.5	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00038	0.00000	0.00381	0.00191	0.00000	0.00038	0.00000	0.00381	0.00191	0.0019
1366	Commercial	10	3	3.4	4.6	16.0	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00044	0.00000	0.00441	0.00221	0.00000	0.00044	0.00000	0.00441	0.00221	0.0022
1368	Commercial	10	3	2.4	5.5	12.9	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00032	0.00000	0.00316	0.00158	0.00000	0.00032	0.00000	0.00316	0.00158	0.0016
1374	Commercial	10	3	2.0	5.7	11.6	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00027	0.00000	0.00266	0.00133	0.00000	0.00027	0.00000	0.00266	0.00133	0.0013
1378	Commercial	10	3	6.1	5.3	32.3	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00126	0.00000	0.01264	0.00632	0.00000	0.00126	0.00000	0.01264	0.00632	0.0063
1379	Commercial	10	3	3.4	5.0	17.2	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00049	0.00000	0.00490	0.00245	0.00000	0.00049	0.00000	0.00490	0.00245	0.0024
1380	Commercial	10	3	1.9	5.9	11.1	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00024	0.00000	0.00245	0.00122	0.00000	0.00024	0.00000	0.00245	0.00122	0.0012
1387	Commercial	10	3	2.1	6.2	13.0	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00032	0.00000	0.00319	0.00159	0.00000	0.00032	0.00000	0.00319	0.00159	0.0016
1390	Commercial	10	3	2.8	4.0	11.1	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00025	0.00000	0.00245	0.00123	0.00000	0.00025	0.00000	0.00245	0.00123	0.0012
1392	Commercial	10	3	2.6	5.5	14.2	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00037	0.00000	0.00367	0.00184	0.00000	0.00037	0.00000	0.00367	0.00184	0.0018
1393	Residential	3	3	2.6	5.2	13.7	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00035	0.00000	0.00104	0.00052	0.00000	0.00035	0.00000	0.00104	0.00052	0.0005
1396	Commercial	10	3	3.1	5.0	15.6	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00042	0.00000	0.00424	0.00212	0.00000	0.00042	0.00000	0.00424	0.00212	0.0021
1404	Commercial	10	3	3.2	4.3	13.7	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00035	0.00000	0.00347	0.00174	0.00000	0.00035	0.00000	0.00347	0.00174	0.0017
1411	Road	2	3	6.1	4.6	28.2	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00104	0.00000	0.00209	0.00104	0.00000	0.00104	0.00000	0.00209	0.00104	0.0010
1412	Commercial	10	3	2.6	4.5	11.4	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00026	0.00000	0.00256	0.00128	0.00000	0.00026	0.00000	0.00256	0.00128	0.0013
1430	Residential	3	3	3.0	4.6	14.1	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00037	0.00000	0.00110	0.00055	0.00000	0.00037	0.00000	0.00110	0.00055	0.0005
1462	mmercial/Indus	10	3	2.0	6.2	12.3	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00029	0.00000	0.00291	0.00145	0.00000	0.00029	0.00000	0.00291	0.00145	0.0015
1466	Commercial	10	3	1.8	0.7	1.2	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1472	Residential	3	3	3.1	5.0	15.4	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00041	0.00000	0.00124	0.00062	0.00000	0.00041	0.00000	0.00124	0.00062	0.0006
1474	Residential	3	3	3.1	5.1	15.7	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00128	0.00064	0.00000	0.00043	0.00000	0.00128	0.00064	0.0006
1487	Residential	3	3	2.8	4.9	13.9	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00107	0.00053	0.00000	0.00036	0.00000	0.00107	0.00053	0.0005
1490	Residential	3	3	3.0	4.7	14.0	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00108	0.00054	0.00000	0.00036	0.00000	0.00108	0.00054	0.0005
1525	Commercial	10	3	0.8	2.5	2.0	2.42	2.67	1.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1120	Farm/Shop	2	3	4.7	5.0	23.6	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00079	0.00000	0.00158	0.00079	0.00000	0.00079	0.00000	0.00158	0.00079	0.0008
1138	Residential	3	3	2.1	9.2	19.6	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00058	0.00000	0.00175	0.00087	0.00000	0.00058	0.00000	0.00175	0.00087	0.0009
1179	Residential	3	3	1.9	7.1	13.2	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00033	0.00000	0.00098	0.00049	0.00000	0.00033	0.00000	0.00098	0.00049	0.0005
1267	Residential	3	3	1.6	11.2	18.2	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00053	0.00000	0.00158	0.00079	0.00000	0.00053	0.00000	0.00158	0.00079	0.0008
1361	Commercial	10	3	2.0	5.6	11.3	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00025	0.00000	0.00250	0.00125	0.00000	0.00025	0.00000	0.00250	0.00125	0.0013
1382	Commercial	10	3	4.2	6.5	27.2	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00099	0.00000	0.00987	0.00494	0.00000	0.00099	0.00000	0.00987	0.00494	0.0049
1389	Commercial	10	3	3.1	7.9	24.8	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00086	0.00000	0.00858	0.00429	0.00000	0.00086	0.00000	0.00858	0.00429	0.0043
1398	Residential	3	3	3.2	4.4	13.9	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00107	0.00054	0.00000	0.00036	0.00000	0.00107	0.00054	0.0005
1403	Commercial	10	3	3.2	6.4	20.2	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00061	0.00000	0.00613	0.00306	0.00000	0.00061	0.00000	0.00613	0.00306	0.0031
1405	Commercial	10	3	0.9	6.2	5.8	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1409	Commercial	10	3	1.5	8.4	12.2	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00029	0.00000	0.00287	0.00144	0.00000	0.00029	0.00000	0.00287	0.00144	0.0014
1414	Commercial	10	3	1.3	8.9	11.4	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00026	0.00000	0.00255	0.00128	0.00000	0.00026	0.00000	0.00255	0.00128	0.0013
1416	Residential	3	3	2.9	6.9	19.9	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00060	0.00000	0.00179	0.00089	0.00000	0.00060	0.00000	0.00179	0.00089	0.0009
1420	Commercial	10	3	2.2	5.5	12.2	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00029	0.00000	0.00289	0.00144	0.00000	0.00029	0.00000	0.00289	0.00144	0.0014
1421	Residential	3	3	1.9	6.2	11.7	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00027	0.00000	0.00080	0.00040	0.00000	0.00027	0.00000	0.00080	0.00040	0.0004

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Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)										
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach				Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1425	Commercial	10	3	2.4	4.8	11.5	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00026	0.00000	0.00259	0.00130	0.00000	0.00026	0.00000	0.00259	0.00130	0.0013
1429	Residential	3	3	2.3	5.4	12.2	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00029	0.00000	0.00086	0.00043	0.00000	0.00029	0.00000	0.00086	0.00043	0.0004
1494	Residential	3	3	3.3	5.8	19.3	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00057	0.00000	0.00171	0.00086	0.00000	0.00057	0.00000	0.00171	0.00086	0.0009
1496	Residential	3	3	3.8	5.2	19.8	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00059	0.00000	0.00178	0.00089	0.00000	0.00059	0.00000	0.00178	0.00089	0.0009
1497	Residential	3	3	4.0	5.0	20.2	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00061	0.00000	0.00183	0.00092	0.00000	0.00061	0.00000	0.00183	0.00092	0.0009
1499	Residential	3	3	4.2	5.0	20.9	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00065	0.00000	0.00194	0.00097	0.00000	0.00065	0.00000	0.00194	0.00097	0.0010
1501	Residential	3	3	3.1	5.1	15.4	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00125	0.00063	0.00000	0.00042	0.00000	0.00125	0.00063	0.0006
1506	Commercial	10	3	1.1	2.9	3.1	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1519	Commercial	10	3	0.9	2.6	2.3	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1526	Residential	3	3	4.2	4.6	19.7	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00059	0.00000	0.00176	0.00088	0.00000	0.00059	0.00000	0.00176	0.00088	0.0009
1527	Commercial	10	3	1.6	3.3	5.3	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1534	Commercial	10	3	3.8	4.6	17.4	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00049	0.00000	0.00494	0.00247	0.00000	0.00049	0.00000	0.00494	0.00247	0.0025
1535	Commercial	10	3	2.7	6.6	17.7	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00051	0.00000	0.00507	0.00253	0.00000	0.00051	0.00000	0.00507	0.00253	0.0025
1538	Residential	3	3	2.7	6.0	16.3	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00045	0.00000	0.00135	0.00068	0.00000	0.00045	0.00000	0.00135	0.00068	0.0007
1539	Residential	3	3	1.4	4.0	5.7	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1540	Residential	3	3	3.2	4.9	15.8	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00129	0.00065	0.00000	0.00043	0.00000	0.00129	0.00065	0.0006
1542	Residential	3	3	3.7	4.2	15.7	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00128	0.00064	0.00000	0.00043	0.00000	0.00128	0.00064	0.0006
1547	Residential	3	3	2.8	3.7	10.3	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00021	0.00000	0.00063	0.00032	0.00000	0.00021	0.00000	0.00063	0.00032	0.0003
1549	Residential	3	3	2.3	6.0	13.5	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00034	0.00000	0.00102	0.00051	0.00000	0.00034	0.00000	0.00102	0.00051	0.0005
1553	Residential	3	3	2.0	6.0	11.9	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00028	0.00000	0.00083	0.00042	0.00000	0.00028	0.00000	0.00083	0.00042	0.0004
1560	Residential	3	3	2.9	4.4	13.0	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00032	0.00000	0.00096	0.00048	0.00000	0.00032	0.00000	0.00096	0.00048	0.0005
1563	Residential	3	3	2.0	2.2	4.4	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1564	Residential	3	3	1.8	2.4	4.3	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1566	Residential	3	3	0.6	8.0	5.0	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1569	Residential	3	3	1.6	5.0	7.8	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1573	Residential	3	3	2.8	5.9	16.7	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00047	0.00000	0.00140	0.00070	0.00000	0.00047	0.00000	0.00140	0.00070	0.0007
1576	Residential	3	3	1.1	2.8	3.2	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1580	Residential	3	3	2.3	7.3	17.0	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00048	0.00000	0.00144	0.00072	0.00000	0.00048	0.00000	0.00144	0.00072	0.0007
1582	Residential	3	3	2.7	5.9	16.3	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00045	0.00000	0.00136	0.00068	0.00000	0.00045	0.00000	0.00136	0.00068	0.0007
1583	Residential	3	3	1.2	3.8	4.4	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1585	Residential	3	3	1.9	4.0	7.7	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1586	Residential	3	3	1.2	3.0	3.7	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1588	Residential	3	3	0.9	4.0	3.6	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1589	Residential	3	3	2.8	5.6	15.6	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00127	0.00064	0.00000	0.00042	0.00000	0.00127	0.00064	0.0006
1590	Residential	3	3	2.7	2.1	5.7	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1595	Commercial	10	3	4.2	4.2	17.6	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00050	0.00000	0.00503	0.00252	0.00000	0.00050	0.00000	0.00503	0.00252	0.0025
1599	Residential	3	3	0.8	7.4	6.1	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1600	Residential	3	3	1.5	3.1	4.5	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1601	Residential	3	3	2.8	4.8	13.4	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00034	0.00000	0.00101	0.00051	0.00000	0.00034	0.00000	0.00101	0.00051	0.0005
1602	Residential	3	3	0.8	6.0	5.0	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1606	Residential	3	3	1.1	4.7	5.3	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1607	Residential	3	3	4.0	5.1	20.1	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00061	0.00000	0.00182	0.00091	0.00000	0.00061	0.00000	0.00182	0.00091	0.0009
1610	Residential	3	3	2.7	4.2	11.1	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00025	0.00000	0.00074	0.00037	0.00000	0.00025	0.00000	0.00074	0.00037	0.0004
1611	Residential	3	3	2.2	6.3	13.6	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00035	0.00000	0.00104	0.00052	0.00000	0.00035	0.00000	0.00104	0.00052	0.0005
1618	Residential	3	3	4.8	3.1	14.8	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00039	0.00000	0.00118	0.00059	0.00000	0.00039	0.00000	0.00118	0.00059	0.0006
1620	Residential	3	3	5.3	3.0	15.9	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00130	0.00065	0.00000	0.00043	0.00000	0.00130	0.00065	0.0007
1628	Residential	3	3	3.8	2.5	9.8	2.50	2.75	1.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1498	Commercial	10	3	1.1	5.0	5.5	2.54	2.79	1.79	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1082	Residential	3	3	1.8	5.2	9.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1127	Residential	3	3	2.4	5.1	12.2	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00029	0.00000	0.00086	0.00043	0.00000	0.00029	0.00000	0.00086	0.00043	0.0004
1135	Residential	3	3	3.0	4.4	12.9	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00031	0.00000	0.00094	0.00047	0.00000	0.00031	0.00000	0.00094	0.00047	0.0005
1139	Residential	3	3	3.5	4.0	14.1	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00037	0.00000	0.00110	0.00055	0.00000	0.00037	0.00000	0.00110	0.00055	0.0005
1148	Residential	3	3	2.2	6.1	13.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00033	0.00000	0.00099	0.00050	0.00000	0.00033	0.00000	0.00099	0.00050	0.0005
1170	Residential	3	3	4.1	5.7	23.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00078	0.00000	0.00233	0.00117	0.00000	0.00078	0.00000	0.00233	0.00117	0.0012
1176	Residential	3	3	4.0	5.6	22.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00072	0.00000	0.00217	0.00108	0.00000	0.00072	0.00000	0.00217	0.00108	0.0011
1184	Residential	3	3	3.8	5.6	21.4	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00068	0.00000	0.00203	0.00102	0.00000	0.00068	0.00000	0.00203	0.00102	0.0010
1192	Residential	3	3	3.8	5.9	22.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00073	0.00000	0.00220	0.00110	0.00000	0.00073	0.00000	0.00220	0.00110	0.0011
1208	Residential	3	3	4.7	5.2	24.1	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00082	0.00000	0.00246	0.00123	0.00000	0.00082	0.00000	0.00246	0.00123	0.0012
1216	Residential	3	3	4.4	5.6	24.4	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00084	0.00000	0.00251	0.00125	0.00000	0.00084	0.00000	0.00251	0.00125	0.0013
1235	Residential	3	3	3.6	7.2	26.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00092	0.00000	0.00276	0.00138	0.00000	0.00092	0.00000	0.00276	0.00138	0.0014
1240	Residential	3	3	3.7	8.0	29.7	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00112	0.00000	0.00336	0.00168	0.00000	0.00112	0.00000	0.00336	0.00168	0.0017
1255	Residential	3	3	4.3	7.1	30.6	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00117	0.00000	0.00350	0.00175	0.00000	0.00117	0.00000	0.00350	0.00175	0.0018
1257	Residential	3	3	3.3	7.8	25.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00088	0.00000	0.00265	0.00133	0.00000	0.00088	0.00000	0.00265	0.00133	0.0013
1272	Residential	3	3	3.3	8.5	28.2	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00104	0.00000	0.00313	0.00156	0.00000	0.00104	0.00000	0.00313	0.00156	0.0016
1273	Residential	3	3	4.8	6.2	29.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00111	0.00000	0.00333	0.00166	0.00000	0.00111	0.00000	0.00333	0.00166	0.0017
1280	Residential	3	3	3.1	8.4	26.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00092	0.00000	0.00276	0.00138	0.00000	0.00092	0.00000	0.00276	0.00138	0.0014
1284	Residential	3	3	3.8	7.4	27.9	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00103	0.00000	0.00308	0.00154	0.00000	0.00103	0.00000	0.00308	0.00154	0.0015
1305	Residential	3	3	3.5	7.4	25.9	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00092	0.00000	0.00275	0.00137	0.00000	0.00092	0.00000	0.00275	0.00137	0.0014
1308	Residential	3	3	3.9	6.9	26.6	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00096

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1313	Residential	3	3	3.2	7.6	24.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00083	0.00000	0.00250	0.00125	0.00000	0.00083	0.00000	0.00250	0.00125	0.0013
1318	Residential	3	3	3.7	6.0	22.4	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00073	0.00000	0.00218	0.00109	0.00000	0.00073	0.00000	0.00218	0.00109	0.0011
1332	Residential	3	3	2.9	6.9	19.8	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00059	0.00000	0.00178	0.00089	0.00000	0.00059	0.00000	0.00178	0.00089	0.0009
1340	Residential	3	3	2.7	7.3	19.8	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00059	0.00000	0.00177	0.00089	0.00000	0.00059	0.00000	0.00177	0.00089	0.0009
1343	Residential	3	3	2.0	8.8	17.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00049	0.00000	0.00147	0.00074	0.00000	0.00049	0.00000	0.00147	0.00074	0.0007
1350	Residential	3	3	1.9	8.0	15.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00126	0.00063	0.00000	0.00042	0.00000	0.00126	0.00063	0.0006
1357	Residential	3	3	1.4	10.9	15.7	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00129	0.00064	0.00000	0.00043	0.00000	0.00129	0.00064	0.0006
1376	Residential	3	3	2.9	6.4	18.6	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00054	0.00000	0.00163	0.00082	0.00000	0.00054	0.00000	0.00163	0.00082	0.0008
1383	Residential	3	3	3.3	5.6	18.2	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00053	0.00000	0.00158	0.00079	0.00000	0.00053	0.00000	0.00158	0.00079	0.0008
1400	Farm/Shop	2	3	2.6	6.3	16.4	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00046	0.00000	0.00091	0.00046	0.00000	0.00046	0.00000	0.00091	0.00046	0.0005
1401	Residential	3	3	1.0	18.0	17.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00049	0.00000	0.00147	0.00074	0.00000	0.00049	0.00000	0.00147	0.00074	0.0007
1415	Residential	3	3	2.5	7.9	19.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00058	0.00000	0.00174	0.00087	0.00000	0.00058	0.00000	0.00174	0.00087	0.0009
1427	Residential	3	3	3.0	7.3	21.6	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00069	0.00000	0.00206	0.00103	0.00000	0.00069	0.00000	0.00206	0.00103	0.0010
1437	Commercial	10	3	0.6	3.0	1.7	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1440	Commercial	10	3	1.1	1.7	1.9	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1458	Commercial	10	3	0.4	2.8	1.1	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1469	Commercial	10	3	0.9	3.7	3.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1475	Residential	3	3	1.0	3.2	3.2	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1489	Commercial	10	3	0.1	7.4	1.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1495	Residential	3	3	3.5	6.9	24.2	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00083	0.00000	0.00248	0.00124	0.00000	0.00083	0.00000	0.00248	0.00124	0.0012
1537	Commercial	10	3	3.4	2.2	7.7	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1548	Commercial	10	3	1.6	4.9	8.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1551	Residential	3	3	1.2	9.7	12.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00028	0.00000	0.00084	0.00042	0.00000	0.00028	0.00000	0.00084	0.00042	0.0004
1555	Residential	3	3	1.5	7.1	10.8	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00023	0.00000	0.00070	0.00035	0.00000	0.00023	0.00000	0.00070	0.00035	0.0004
1556	Commercial	10	3	1.2	4.9	6.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1558	Residential	3	3	4.0	3.3	13.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00033	0.00000	0.00100	0.00050	0.00000	0.00033	0.00000	0.00100	0.00050	0.0005
1561	Residential	3	3	1.6	5.2	8.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1574	Commercial	10	3	0.2	5.7	0.9	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1577	Residential	3	3	0.5	7.3	3.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1581	Residential	3	3	0.2	68.3	16.1	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00045	0.00000	0.00134	0.00067	0.00000	0.00045	0.00000	0.00134	0.00067	0.0007
1593	Commercial	10	3	3.4	5.1	17.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00049	0.00000	0.00494	0.00247	0.00000	0.00049	0.00000	0.00494	0.00247	0.0025
1598	Residential	3	3	0.5	7.2	3.7	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1604	Commercial	10	3	3.1	5.8	18.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00052	0.00000	0.00522	0.00261	0.00000	0.00052	0.00000	0.00522	0.00261	0.0026
1608	Residential	3	3	5.7	1.2	7.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1609	Residential	3	3	5.0	1.1	5.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1614	Residential	3	3	3.8	3.8	14.4	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00037	0.00000	0.00112	0.00056	0.00000	0.00037	0.00000	0.00112	0.00056	0.0006
1616	Residential	3	3	4.1	2.1	8.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1617	Residential	3	3	5.0	1.7	8.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1619	Residential	3	3	4.7	1.8	8.6	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1624	Residential	3	3	3.7	4.7	17.4	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00049	0.00000	0.00148	0.00074	0.00000	0.00049	0.00000	0.00148	0.00074	0.0007
1627	Commercial	10	3	0.8	1.0	0.7	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1629	Residential	3	3	0.4	8.0	2.9	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1634	Residential	3	3	1.3	2.6	3.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1636	Residential	3	3	2.4	5.7	13.7	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00035	0.00000	0.00104	0.00052	0.00000	0.00035	0.00000	0.00104	0.00052	0.0005
1637	Residential	3	3	5.6	2.1	11.7	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00027	0.00000	0.00081	0.00040	0.00000	0.00027	0.00000	0.00081	0.00040	0.0004
1641	Residential	3	3	0.5	6.1	3.2	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1643	Residential	3	3	1.1	3.3	3.6	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1644	Residential	3	3	2.4	3.6	8.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1648	Residential	3	3	3.9	2.9	11.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00024	0.00000	0.00072	0.00036	0.00000	0.00024	0.00000	0.00072	0.00036	0.0004
1649	Residential	3	3	2.0	4.4	9.0	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1650	Residential	3	3	1.2	2.3	2.9	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1651	Residential	3	3	1.3	7.9	10.1	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00021	0.00000	0.00062	0.00031	0.00000	0.00021	0.00000	0.00062	0.00031	0.0003
1653	Residential	3	3	1.6	1.8	2.9	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1662	Residential	3	3	0.9	2.7	2.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1663	Residential	3	3	1.6	1.9	3.1	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1666	Residential	3	3	1.8	2.6	4.6	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1667	Residential	3	3	2.0	2.2	4.3	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1670	Residential	3	3	1.3	2.2	2.9	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1672	Residential	3	3	1.3	2.4	3.1	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1673	Residential	3	3	0.5	4.5	2.4	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1685	Residential	3	3	1.3	2.8	3.7	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1686	Residential	3	3	1.2	2.0	2.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1687	Residential	3	3	1.0	2.0	1.9	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1688	Residential	3	3	0.8	4.1	3.2	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1690	Residential	3	3	1.0	3.2	3.4	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1691	Residential	3	3	0.8	1.9	1.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1696	Residential	3	3	0.2	8.5	1.9	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1698	Residential	3	3	1.2	2.4	3.1	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1704	Residential	3	3	0.9	2.3	2.1	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1710	Residential	3	3	1.0	2.5	2.5	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1717	Residential	3	3	1.0	2.8	2.7	2.58	2.83	1.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1107	Residential	3	3	0.5	19.5	10.1	2.59	2.84	1.84	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00061	0.00030	0.00000	0.00020	0.00000	0.00061	0.00030	0.0003
1507	Commercial	10	3	0.9	5.9	5.2	2.60	2.85	1.85	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1622	Commercial	10	3	0.4	1.9	0.8	2.65	2.90	1.90	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1668	Residential	3	3	0.0	0.1	0.0	2.65	2.90	1.90	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1100	Residential	3	3	2.7	4.9	13.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00033	0.00000	0.00098	0.00049	0.00000	0.00033	0.00000	0.00098	0.00049	0.0005
1114	Residential	3	3	3.2	4.4	14.1	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00109	0.00055	0.00000	0.00036	0.00000	0.00109	0.00055	0.0005
1124	Residential	3	3	2.7	5.7	15.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00126	0.00063	0.00000	0.00042	0.00000	0.00126	0.00063	0.0006
1173	Residential	3	3	1.7	8.1	14.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00108	0.00054	0.00000	0.00036	0.00000	0.00108	0.00054	0.0005
1181	Residential	3	3	2.2	7.1	15.8	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00129	0.00065	0.00000	0.00043	0.00000	0.00129	0.00065	0.0006
1183	Residential	3	3	2.8	6.1	17.1	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00048	0.00000	0.00145	0.00072	0.00000	0.00048	0.00000	0.00145	0.00072	0.0007
1214	Residential	3	3	4.9	4.1	20.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00061	0.00000	0.00184	0.00092	0.00000	0.00061	0.00000	0.00184	0.00092	0.0009
1237	Residential	3	3	3.8	6.8	25.7	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00091	0.00000	0.00272	0.00136	0.00000	0.00091	0.00000	0.00272	0.00136	0.0014
1330	Farm/Shop	2	3	2.9	6.8	19.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00060	0.00000	0.00119	0.00060	0.00000	0.00060	0.00000	0.00119	0.00060	0.0006
1355	Road	2	3	2.3	6.9	15.7	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00043	0.00000	0.00086	0.00043	0.00000	0.00043	0.00000	0.00086	0.00043	0.0004
1419	Residential	3	3	2.8	6.7	18.6	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00054	0.00000	0.00163	0.00081	0.00000	0.00054	0.00000	0.00163	0.00081	0.0008
1567	Commercial	10	3	0.4	0.5	0.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1572	Commercial	10	3	1.9	5.2	9.6	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1612	Residential	3	3	3.7	1.1	4.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1615	Residential	3	3	3.4	2.2	7.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1621	Residential	3	3	3.2	2.5	8.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1625	Residential	3	3	3.3	2.9	9.3	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1631	Residential	3	3	0.9	12.1	11.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00025	0.00000	0.00075	0.00037	0.00000	0.00025	0.00000	0.00075	0.00037	0.0004
1638	Residential	3	3	0.3	11.2	3.1	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1646	Residential	3	3	1.0	2.8	2.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1654	Residential	3	3	0.6	3.4	2.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1657	Commercial	10	3	2.6	3.8	9.8	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1661	Residential	3	3	1.7	3.1	5.3	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1664	Residential	3	3	1.9	2.9	5.6	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1677	Residential	3	3	0.3	1.2	0.3	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1678	Residential	3	3	0.9	2.9	2.7	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1684	Residential	3	3	0.9	2.4	2.1	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1689	Residential	3	3	0.6	4.6	2.6	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1693	Residential	3	3	0.3	3.6	1.1	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1694	Residential	3	3	0.0	29.5	0.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1695	Residential	3	3	0.6	4.4	2.7	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1701	Residential	3	3	0.2	9.7	1.8	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1702	Residential	3	3	1.2	2.7	3.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1705	Residential	3	3	0.9	1.9	1.8	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1712	Residential	3	3	1.8	1.4	2.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1716	Residential	3	3	0.9	3.1	2.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1718	Residential	3	3	0.7	2.0	1.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1722	Residential	3	3	1.3	2.2	2.9	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1728	Residential	3	3	1.8	1.8	3.2	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1730	Residential	3	3	1.8	1.6	2.8	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1731	Residential	3	3	1.1	1.4	1.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1737	Residential	3	3	2.1	1.4	3.1	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1742	Residential	3	3	0.2	13.1	2.4	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1751	Residential	3	3	2.3	1.5	3.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1757	Residential	3	3	2.2	1.0	2.3	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1578	mmercial/Fire D	10	3	1.3	5.1	6.7	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1630	Residential	3	3	0.4	9.5	4.0	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1479	Commercial	10	3	0.3	6.0	1.5	2.67	2.92	1.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1676	Residential	3	3	0.3	8.2	2.5	2.68	2.93	1.93	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1692	Residential	3	3	0.6	4.7	3.0	2.69	2.94	1.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1665	Residential	3	3	0.6	3.3	2.1	2.70	2.95	1.95	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1645	Residential	3	3	0.2	5.2	1.0	2.71	2.96	1.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1727	Residential	3	3	0.6	2.7	1.5	2.71	2.96	1.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1681	Residential	3	3	0.4	5.4	2.1	2.71	2.96	1.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1680	Residential	3	3	0.6	3.5	2.2	2.72	2.97	1.97	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1708	Residential	3	3	0.1	0.1	0.0	2.72	2.97	1.97	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1565	Commercial	10	3	0.0	94.0	3.9	2.72	2.97	1.97	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1726	Residential	3	3	0.2	7.1	1.8	2.72	2.97	1.97	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1584	Residential	3	3	1.2	3.5	4.1	2.73	2.98	1.98	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1697	Residential	3	3	0.4	5.9	2.2	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1060	Residential	3	3	0.8	2.2	1.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1072	Residential	3	3	1.2	4.3	5.3	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1510	Commercial	10	3	0.4	2.1	0.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1605	Residential	3	3	1.5	3.6	5.3	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1613	Commercial	10	3	0.1	1.3	0.2	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1626	Farm/Shop	2	3	1.3	5.3	7.0	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1632	Residential	3	3	0.4	0.5	0.2	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1635	Residential	3	3	0.2	6.6	1.6	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1640	Residential	3	3	0.6	7.3	4.6	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1647	Residential	3	3	1.1	3.6	3.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1652	Residential	3	3	0.5	5.8	3.1	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1655	Residential	3	3	1.0	4.4	4.5	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1658	Residential	3	3	0.2	3.6	0.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1671	Residential	3	3	0.1	13.1	1.9	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1674	Residential	3	3	1.0	2.8	2.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1675	Residential	3	3	0.1	0.1	0.0	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1679	Residential	3	3	0.3	9.4	3.0	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1682	Farm/Shop	2	3	2.3	6.4	15.1	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00040	0.00000	0.00080	0.00040	0.00000	0.00040	0.00000	0.00080	0.00040	0.0004
1683	Residential	3	3	0.2	13.8	2.9	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1699	Residential	3	3	2.2	5.8	12.5	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00030	0.00000	0.00090	0.00045	0.00000	0.00030	0.00000	0.00090	0.00045	0.0005
1703	Residential	3	3	0.8	4.6	3.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1707	Commercial	10	3	2.0	6.4	13.0	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00032	0.00000	0.00320	0.00160	0.00000	0.00032	0.00000	0.00320	0.00160	0.0016
1713	Residential	3	3	1.2	2.7	3.1	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1715	Residential	3	3	0.8	1.1	0.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1720	Residential	3	3	0.6	4.8	3.1	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1724	Residential	3	3	1.0	3.6	3.8	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1733	Residential	3	3	0.1	16.7	1.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1736	Residential	3	3	1.3	2.8	3.5	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1741	Residential	3	3	0.2	13.2	2.9	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1744	Residential	3	3	1.1	2.9	3.3	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1746	Residential	3	3	1.1	1.8	2.1	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1748	Residential	3	3	0.7	5.2	3.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1749	Residential	3	3	0.9	3.5	3.3	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1756	Residential	3	3	0.8	4.1	3.4	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1762	Residential	3	3	1.4	5.2	7.2	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1763	Residential	3	3	0.2	24.8	4.4	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1764	Residential	3	3	0.9	3.0	2.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1766	Residential	3	3	0.7	6.4	4.3	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1768	Residential	3	3	0.8	4.8	4.1	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1772	Residential	3	3	0.2	16.8	3.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1775	Residential	3	3	0.3	8.6	2.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1777	Residential	3	3	0.7	4.8	3.5	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1778	Residential	3	3	1.4	1.9	2.7	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1782	Residential	3	3	0.2	9.1	2.2	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1787	Residential	3	3	1.1	2.1	2.4	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1789	Residential	3	3	0.2	19.8	4.9	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1793	Residential	3	3	0.4	6.5	2.4	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1796	Residential	3	3	0.3	10.1	3.2	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1812	Commercial	10	3	1.9	5.1	9.9	2.75	3.00	2.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1802	Residential	3	3	0.6	6.1	3.9	2.76	3.01	2.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1790	Residential	3	3	0.5	5.1	2.4	2.76	3.01	2.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1706	Residential	3	3	0.6	4.1	2.6	2.77	3.02	2.02	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1800	Residential	3	3	0.1	0.1	0.0	2.78	3.03	2.03	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1743	Residential	3	3	0.7	4.9	3.4	2.79	3.04	2.04	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1711	Residential	3	3	0.1	20.3	2.8	2.82	3.07	2.07	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1786	Residential	3	3	0.2	0.1	0.0	2.82	3.07	2.07	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1760	Residential	3	3	0.4	12.5	4.6	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1770	Residential	3	3	0.3	7.3	2.1	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1039	Residential	3	3	0.5	4.7	2.2	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1084	Farm/Shop	2	3	1.3	4.0	5.2	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1402	Commercial	10	3	2.8	7.3	20.7	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00064	0.00000	0.00636	0.00318	0.00000	0.00064	0.00000	0.00636	0.00318	0.0032
1407	Residential	3	3	3.9	7.2	27.9	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00103	0.00000	0.00308	0.00154	0.00000	0.00103	0.00000	0.00308	0.00154	0.0015
1451	Road	2	3	1.7	14.7	24.3	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00083	0.00000	0.00167	0.00083	0.00000	0.00083	0.00000	0.00167	0.00083	0.0008
1633	Residential	3	3	2.4	5.4	13.1	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00032	0.00000	0.00097	0.00049	0.00000	0.00032	0.00000	0.00097	0.00049	0.0005
1660	Residential	3	3	0.0	111.5	1.8	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1700	Residential	3	3	0.5	4.3	2.4	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1725	Residential	3	3	0.1	0.1	0.0	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1729	Residential	3	3	0.6	5.7	3.3	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1732	Residential	3	3	0.3	7.2	2.2	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1739	Residential	3	3	0.7	4.2	2.8	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1750	Residential	3	3	0.4	11.2	4.7	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1753	Residential	3	3	0.6	6.5	3.7	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)										
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach				Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1755	Residential	3	3	0.7	4.9	3.3	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1758	Residential	3	3	0.0	0.1	0.0	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1759	Residential	3	3	0.2	13.8	3.0	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1761	Residential	3	3	0.3	15.8	4.6	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1773	Commercial	10	3	1.5	4.4	6.6	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1774	Residential	3	3	0.4	8.8	3.7	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1776	Residential	3	3	0.2	11.0	2.2	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1779	Residential	3	3	0.7	2.9	2.1	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1785	Residential	3	3	0.2	12.2	2.4	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1795	Residential	3	3	0.5	8.6	4.2	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1798	Commercial	10	3	1.9	3.1	6.0	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1803	Residential	3	3	1.4	2.5	3.6	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1807	Commercial	10	3	1.7	3.4	6.0	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1809	Residential	3	3	2.6	4.3	10.9	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00024	0.00000	0.00071	0.00036	0.00000	0.00024	0.00000	0.00071	0.00036	0.0004
1813	Residential	3	3	3.0	2.8	8.4	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1817	Residential	3	3	0.7	1.1	0.8	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1818	Residential	3	3	1.6	3.6	5.7	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1820	Residential	3	3	1.7	4.1	6.8	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1824	Residential	3	3	3.7	3.4	12.9	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00032	0.00000	0.00095	0.00047	0.00000	0.00032	0.00000	0.00095	0.00047	0.0005
1836	Residential	3	3	3.2	2.6	8.3	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1852	Residential	3	3	2.2	3.7	8.1	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1864	Residential	3	3	2.1	3.9	8.2	2.83	3.08	2.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1738	Residential	3	3	0.5	6.9	3.3	2.84	3.09	2.09	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1719	Residential	3	3	0.1	8.4	1.0	2.84	3.09	2.09	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1734	Residential	3	3	0.6	4.0	2.5	2.85	3.10	2.10	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1754	Residential	3	3	0.1	0.1	0.0	2.85	3.10	2.10	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1752	Residential	3	3	0.1	43.0	3.1	2.88	3.13	2.13	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1792	Residential	3	3	0.6	8.8	5.0	2.88	3.13	2.13	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1784	Commercial	10	3	0.5	16.1	8.1	2.91	3.16	2.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1157	Residential	3	3	0.2	40.1	7.1	2.91	3.16	2.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1806	Residential	3	3	0.7	2.6	1.8	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
902	Residential	3	3	0.2	3.1	0.6	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1329	Residential	3	3	3.1	6.3	19.4	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00058	0.00000	0.00173	0.00087	0.00000	0.00058	0.00000	0.00173	0.00087	0.0009
1372	Residential	3	3	2.4	3.9	9.1	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1543	Commercial	10	3	0.2	3.9	0.7	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1669	Farm/Shop	2	3	1.2	8.5	10.4	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00022	0.00000	0.00043	0.00022	0.00000	0.00022	0.00000	0.00043	0.00022	0.0002
1714	Residential	3	3	2.3	5.4	12.8	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00031	0.00000	0.00093	0.00047	0.00000	0.00031	0.00000	0.00093	0.00047	0.0005
1783	Commercial	10	3	0.7	6.5	4.8	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1799	Residential	3	3	2.3	2.8	6.4	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1804	Commercial	10	3	1.2	3.1	3.7	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1808	Commercial	10	3	0.2	20.6	4.0	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1821	Commercial	10	3	1.9	2.5	4.7	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1822	Residential	3	3	0.3	1.3	0.4	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1830	Residential	3	3	0.1	5.1	0.7	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1834	Residential	3	3	1.2	0.7	0.8	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1837	Commercial	10	3	0.3	11.7	3.7	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1846	Residential	3	3	1.1	1.1	1.2	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1853	Residential	3	3	0.3	2.2	0.8	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1854	Commercial	10	3	1.2	3.6	4.4	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1859	Residential	3	3	0.7	0.9	0.6	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1885	Residential	3	3	1.3	4.9	6.4	2.92	3.17	2.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1087	Residential	3	3	0.4	3.3	1.3	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1371	Residential	3	3	1.7	4.5	7.5	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1596	Residential	3	3	2.8	3.9	10.9	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00024	0.00000	0.00071	0.00035	0.00000	0.00024	0.00000	0.00071	0.00035	0.0004
1811	Commercial	10	3	0.7	7.5	5.1	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1841	Residential	3	3	0.3	2.2	0.7	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1862	Residential	3	3	0.4	2.1	0.9	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1876	Residential	3	3	0.2	3.7	0.7	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1888	Residential	3	3	0.4	1.7	0.6	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1895	Residential	3	3	0.1	5.7	0.5	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1897	Commercial	10	3	2.6	4.7	12.3	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00029	0.00000	0.00292	0.00146	0.00000	0.00029	0.00000	0.00292	0.00146	0.0015
1926	Residential	3	3	2.5	4.7	11.8	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00027	0.00000	0.00082	0.00041	0.00000	0.00027	0.00000	0.00082	0.00041	0.0004
1960	Residential	3	3	0.4	4.0	1.4	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2064	Residential	3	3	0.2	6.0	1.1	3.00	3.25	2.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1156	Road	2	3	2.1	4.6	9.7	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1194	Residential	3	3	2.7	4.8	12.9	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00032	0.00000	0.00095	0.00048	0.00000	0.00032	0.00000	0.00095	0.00048	0.0005
1221	Residential	3	3	3.3	5.2	17.5	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00050	0.00000	0.00150	0.00075	0.00000	0.00050	0.00000	0.00150	0.00075	0.0007
1307	Residential	3	3	3.5	5.1	17.7	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00051	0.00000	0.00153	0.00076	0.00000	0.00051	0.00000	0.00153	0.00076	0.0008
1417	Residential	3	3	1.0	4.1	4.3	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1801	Residential	3	3	2.0	5.0	9.8	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1819	Residential	3	3	1.2	7.5	8.9	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1961	Residential	3	3	1.2	2.4	3.0	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2010	Residential	3	3	1.9	4.8	9.1	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2032	Residential	3	3	1.1	4.1	4.5	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2071	Residential	3	3	1.1	5.9	6.3	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2099	Residential	3	3	0.9	4.7	4.2	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2119	Residential	3	3	0.7	3.7	2.8	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2131	Residential	3	3	0.9	6.0	5.6	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2148	Residential	3	3	0.9	4.6	4.1	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2169	Residential	3	3	2.8	2.4	6.7	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2242	Residential	3	3	1.6	7.4	11.7	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00027	0.00000	0.00080	0.00040	0.00000	0.00027	0.00000	0.00080	0.00040	0.0004
2362	Residential	3	3	2.1	5.9	12.2	3.08	3.33	2.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00029	0.00000	0.00087	0.00043	0.00000	0.00029	0.00000	0.00087	0.00043	0.0004
2223	Residential	3	3	0.1	0.1	0.0	3.09	3.34	2.34	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
962	Residential	3	3	0.5	6.6	3.2	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
994	Farm/Shop	2	3	0.8	6.5	5.4	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
997	Residential	3	3	1.5	3.4	5.2	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1034	Commercial	10	3	0.9	6.6	6.1	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1418	Residential	3	3	0.3	10.7	3.1	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1433	Residential	3	3	0.9	2.8	2.5	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2041	Residential	3	3	3.0	3.8	11.4	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00026	0.00000	0.00077	0.00038	0.00000	0.00026	0.00000	0.00077	0.00038	0.0004
2068	Residential	3	3	3.1	4.4	13.6	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00035	0.00000	0.00104	0.00052	0.00000	0.00035	0.00000	0.00104	0.00052	0.0005
2074	Residential	3	3	0.4	1.4	0.6	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2195	Residential	3	3	1.0	4.4	4.4	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2419	Residential	3	3	3.1	4.9	15.4	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00125	0.00062	0.00000	0.00042	0.00000	0.00125	0.00062	0.0006
2433	Residential	3	3	2.9	5.4	15.5	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00126	0.00063	0.00000	0.00042	0.00000	0.00126	0.00063	0.0006
2498	Residential	3	3	2.3	5.8	13.4	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00034	0.00000	0.00101	0.00051	0.00000	0.00034	0.00000	0.00101	0.00051	0.0005
2532	Residential	3	3	3.0	3.5	10.3	3.17	3.42	2.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00021	0.00000	0.00064	0.00032	0.00000	0.00021	0.00000	0.00064	0.00032	0.0003
878	Residential	3	3	1.6	0.1	0.2	3.25	3.50	2.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
933	Residential	3	3	0.6	2.5	1.4	3.25	3.50	2.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1231	Residential	3	3	2.1	6.0	12.5	3.25	3.50	2.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00030	0.00000	0.00091	0.00045	0.00000	0.00030	0.00000	0.00091	0.00045	0.0005
1239	Residential	3	3	2.0	7.0	13.9	3.25	3.50	2.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00107	0.00054	0.00000	0.00036	0.00000	0.00107	0.00054	0.0005
2015	Road	2	3	2.8	5.7	16.1	3.25	3.50	2.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00045	0.00000	0.00089	0.00045	0.00000	0.00045	0.00000	0.00089	0.00045	0.0004
2070	Residential	3	3	0.3	1.1	0.3	3.25	3.50	2.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2095	Residential	3	3	0.6	0.7	0.4	3.25	3.50	2.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2110	Residential	3	3	0.2	0.3	0.1	3.25	3.50	2.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2177	Residential	3	3	1.2	0.4	0.5	3.25	3.50	2.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2596	Residential	3	3	1.5	5.9	8.8	3.25	3.50	2.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2670	Residential	3	3	0.3	3.7	1.0	3.25	3.50	2.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2058	Residential	3	3	0.6	0.4	0.3	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1288	Residential	3	3	0.7	8.5	5.9	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
930	Residential	3	3	0.3	2.2	0.6	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
915	Residential	3	3	0.3	1.8	0.5	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
898	Residential	3	3	0.7	0.9	0.6	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
905	Residential	3	3	0.1	2.5	0.3	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
912	Residential	3	3	0.6	1.2	0.7	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
922	Residential	3	3	0.2	3.2	0.5	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
925	Residential	3	3	0.6	1.8	1.1	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
928	Residential	3	3	0.6	1.8	1.1	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
932	Residential	3	3	0.4	2.1	0.9	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
936	Residential	3	3	0.4	2.2	0.9	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1544	Residential	3	3	0.4	3.5	1.4	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1814	Commercial	10	3	0.7	0.5	0.3	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1867	Residential	3	3	1.3	2.0	2.6	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1904	Residential	3	3	0.4	11.1	4.3	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1957	Residential	3	3	3.0	3.8	11.4	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00026	0.00000	0.00077	0.00038	0.00000	0.00026	0.00000	0.00077	0.00038	0.0004
1997	Residential	3	3	1.1	7.6	8.1	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2025	Residential	3	3	3.4	5.5	18.8	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00055	0.00000	0.00165	0.00083	0.00000	0.00055	0.00000	0.00165	0.00083	0.0008
2065	Residential	3	3	1.2	11.0	13.5	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00034	0.00000	0.00102	0.00051	0.00000	0.00034	0.00000	0.00102	0.00051	0.0005
2104	Residential	3	3	1.6	5.2	8.6	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2135	Residential	3	3	3.3	4.9	16.1	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00044	0.00000	0.00133	0.00066	0.00000	0.00044	0.00000	0.00133	0.00066	0.0007
2173	Residential	3	3	0.2	1.7	0.4	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2232	Residential	3	3	2.6	2.5	6.4	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2332	Commercial	10	3	2.9	3.8	11.1	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00024	0.00000	0.00244	0.00122	0.00000	0.00024	0.00000	0.00244	0.00122	0.0012
2370	Residential	3	3	2.1	4.5	9.7	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2387	Residential	3	3	0.1	0.1	0.0	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2394	Residential	3	3	1.8	4.1	7.5	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2401	Residential	3	3	1.4	1.3	1.8	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2423	Commercial	10	3	0.7	3.3	2.3	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted	Day Breach					Night Breach					Weighted
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life			LOL	Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			LOL
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
2462	Commercial	10	3	0.9	7.1	6.3	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2554	Commercial	10	3	2.1	1.6	3.4	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3175	Residential	3	3	2.3	3.1	7.1	3.33	3.58	2.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
910	Residential	3	3	0.1	6.3	0.5	3.34	3.59	2.59	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1914	Residential	3	3	0.2	0.1	0.0	3.35	3.60	2.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
931	Residential	3	3	0.4	2.8	1.1	3.36	3.61	2.61	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
900	Residential	3	3	0.1	0.1	0.0	3.36	3.61	2.61	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2440	Commercial	10	3	1.5	3.2	4.9	3.37	3.62	2.62	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1492	Commercial	10	3	0.5	3.8	1.8	3.38	3.63	2.63	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
916	Residential	3	3	0.4	1.6	0.7	3.39	3.64	2.64	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2414	Commercial	10	3	0.7	4.5	3.3	3.40	3.65	2.65	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2409	Commercial	10	3	0.8	5.5	4.2	3.41	3.66	2.66	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
935	Residential	3	3	0.1	8.5	0.9	3.41	3.66	2.66	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
870	Residential	3	3	0.2	2.3	0.4	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
872	Residential	3	3	0.1	4.8	0.6	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
875	Farm/Shop	2	3	1.3	1.7	2.1	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
877	Residential	3	3	0.7	2.6	1.7	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
881	Residential	3	3	0.0	13.9	0.5	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
884	Residential	3	3	0.0	8.2	0.3	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
893	Residential	3	3	0.3	3.6	1.1	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
895	Residential	3	3	0.9	1.6	1.4	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
903	Residential	3	3	0.1	0.1	0.0	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
937	Residential	3	3	0.3	2.7	0.8	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
940	Residential	3	3	2.5	3.6	8.8	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
942	Residential	3	3	1.2	6.9	8.2	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
975	Residential	3	3	1.5	5.1	7.5	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
996	Residential	3	3	1.5	4.3	6.5	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1017	Residential	3	3	1.9	3.0	5.7	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1019	Residential	3	3	1.6	3.1	5.0	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1515	Residential	3	3	0.7	2.5	1.8	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1546	Residential	3	3	0.9	1.6	1.4	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1901	Residential	3	3	1.5	1.4	2.1	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2035	Residential	3	3	2.0	2.9	5.7	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2048	Residential	3	3	1.8	2.9	5.3	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2137	Residential	3	3	0.3	1.6	0.5	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2182	Residential	3	3	1.2	3.7	4.4	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2205	Residential	3	3	0.5	2.4	1.2	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2207	Residential	3	3	0.1	11.4	1.3	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2208	Residential	3	3	1.0	5.4	5.5	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2214	Residential	3	3	0.3	5.6	1.4	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2224	Residential	3	3	0.7	2.1	1.5	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2234	Commercial	10	3	1.4	3.9	5.4	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2255	Residential	3	3	0.8	0.9	0.7	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2272	Residential	3	3	0.1	5.8	0.6	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2273	Residential	3	3	0.2	1.0	0.2	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2292	Commercial	10	3	1.4	4.8	6.7	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2318	Residential	3	3	3.1	5.3	16.5	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00046	0.00000	0.00138	0.00069	0.00000	0.00046	0.00000	0.00138	0.00069	0.0007
2356	Residential	3	3	3.4	5.7	19.2	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00057	0.00000	0.00170	0.00085	0.00000	0.00057	0.00000	0.00170	0.00085	0.0008
2361	Commercial	10	3	1.7	5.9	10.2	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00021	0.00000	0.00207	0.00103	0.00000	0.00021	0.00000	0.00207	0.00103	0.0010
2373	Commercial	10	3	0.6	6.5	3.9	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2425	Commercial	10	3	3.0	5.6	16.6	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00046	0.00000	0.00464	0.00232	0.00000	0.00046	0.00000	0.00464	0.00232	0.0023
2428	Commercial	10	3	0.6	6.5	3.7	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2454	Commercial	10	3	2.2	6.5	14.2	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00037	0.00000	0.00368	0.00184	0.00000	0.00037	0.00000	0.00368	0.00184	0.0018
2459	Commercial	10	3	2.1	7.3	15.2	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00041	0.00000	0.00406	0.00203	0.00000	0.00041	0.00000	0.00406	0.00203	0.0020
2473	Commercial	10	3	2.3	7.0	15.9	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00044	0.00000	0.00438	0.00219	0.00000	0.00044	0.00000	0.00438	0.00219	0.0022
2481	Commercial	10	3	1.2	3.9	4.7	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2492	Commercial	10	3	2.3	6.5	14.9	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00039	0.00000	0.00395	0.00197	0.00000	0.00039	0.00000	0.00395	0.00197	0.0020
2512	Residential	3	3	2.6	6.0	15.4	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00125	0.00063	0.00000	0.00042	0.00000	0.00125	0.00063	0.0006
2517	Commercial	10	3	1.6	3.7	6.0	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2523	Commercial	10	3	1.9	6.6	12.7	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00031	0.00000	0.00308	0.00154	0.00000	0.00031	0.00000	0.00308	0.00154	0.0015
2524	Commercial	10	3	0.7	7.2	5.3	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2525	Commercial	10	3	2.2	6.0	13.0	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00032	0.00000	0.00321	0.00160	0.00000	0.00032	0.00000	0.00321	0.00160	0.0016
2538	Commercial	10	3	1.3	6.3	8.3	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2568	Commercial	10	3	2.1	5.8	12.0	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00028	0.00000	0.00281	0.00140	0.00000	0.00028	0.00000	0.00281	0.00140	0.0014
2572	Commercial	10	3	2.0	5.9	12.1	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00028	0.00000	0.00284	0.00142	0.00000	0.00028	0.00000	0.00284	0.00142	0.0014
2580	Church	30	3	2.2	6.0	13.0	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.018	0.009	0	0.0006	0.0003	0	0.018	0.009	0.009	0.00000	0.00032	0.00000	0.00964	0.00482	0.00000	0.00032	0.00000	0.00964	0.00482	0.0048
2689	Residential	3	3	1.3	2.0	2.6	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2744	Residential	3	3	1.1	1.8	1.9	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3257	Commercial	10	3	3.5	6.3	22.3	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00073	0.00000	0.00725	0.00363	0.00000	0.00073	0.00000	0.00725	0.00363	0.0036

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
2527	Commercial	10	3	0.1	0.1	0.0	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2178	Residential	3	3	0.4	1.3	0.6	3.42	3.67	2.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2185	Residential	3	3	0.2	4.0	0.8	3.43	3.68	2.68	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2244	Residential	3	3	0.1	10.6	1.3	3.43	3.68	2.68	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1842	Residential	3	3	0.1	0.1	0.0	3.44	3.69	2.69	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2096	Residential	3	3	0.8	0.1	0.1	3.45	3.70	2.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
891	Residential	3	3	0.4	2.1	0.8	3.47	3.72	2.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2649	Residential	3	3	0.4	7.3	2.6	3.47	3.72	2.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2215	Residential	3	3	0.1	10.5	0.8	3.48	3.73	2.73	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
909	Residential	3	3	0.0	0.1	0.0	3.49	3.74	2.74	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
899	Residential	3	3	0.4	1.1	0.5	3.49	3.74	2.74	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2587	Residential	3	3	1.2	2.1	2.5	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
924	Residential	3	3	0.0	7.0	0.2	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
751	Residential	3	3	0.5	2.1	1.0	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
866	Residential	3	3	0.8	2.6	2.2	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
885	Residential	3	3	0.8	0.7	0.6	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
889	Residential	3	3	0.6	1.3	0.8	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
894	Residential	3	3	0.4	1.5	0.6	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
941	Residential	3	3	0.6	0.2	0.1	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1140	Commercial	10	3	4.3	2.5	10.6	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00022	0.00000	0.00222	0.00111	0.00000	0.00022	0.00000	0.00222	0.00111	0.0011
2081	Commercial	10	3	1.3	3.4	4.6	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2130	Residential	3	3	0.3	0.8	0.3	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2166	Residential	3	3	0.1	3.3	0.4	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2191	Residential	3	3	0.7	0.9	0.7	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2200	Residential	3	3	0.2	4.1	0.9	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2212	Residential	3	3	0.4	2.4	0.9	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2235	Commercial	10	3	1.2	3.9	4.7	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2243	Commercial	10	3	1.0	3.1	3.1	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2260	Commercial	10	3	1.7	3.0	5.0	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2262	Residential	3	3	0.2	2.7	0.5	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2298	Residential	3	3	0.5	1.9	0.9	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2342	Residential	3	3	2.1	3.3	7.0	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2508	Commercial	10	3	1.1	4.7	5.3	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2536	Commercial	10	3	1.2	4.5	5.6	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2588	Commercial	10	3	1.7	5.5	9.6	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2601	Commercial	10	3	1.4	5.9	7.9	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2644	Commercial	10	3	2.0	3.8	7.5	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2671	Commercial	10	3	0.5	8.2	3.7	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2764	Residential	3	3	1.8	6.9	12.7	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00031	0.00000	0.00092	0.00046	0.00000	0.00031	0.00000	0.00092	0.00046	0.0005
2814	Residential	3	3	0.0	65.2	1.8	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2895	Residential	3	3	3.0	2.9	8.9	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2936	Residential	3	3	2.2	3.9	8.4	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2982	Residential	3	3	1.6	5.3	8.7	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2987	Residential	3	3	1.7	5.6	9.5	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3011	Residential	3	3	2.0	4.5	8.9	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3206	Residential	3	3	3.9	5.4	21.1	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00066	0.00000	0.00198	0.00099	0.00000	0.00066	0.00000	0.00198	0.00099	0.0010
3231	Residential	3	3	3.2	5.2	16.9	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00047	0.00000	0.00142	0.00071	0.00000	0.00047	0.00000	0.00142	0.00071	0.0007
3430	Farm/Shop	2	3	0.3	9.1	2.7	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
2247	Residential	3	3	0.1	13.9	0.7	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
896	Residential	3	3	0.4	1.4	0.6	3.50	3.75	2.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2151	Residential	3	3	0.4	0.6	0.2	3.51	3.76	2.76	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2213	Residential	3	3	0.2	0.1	0.0	3.52	3.77	2.77	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
918	Residential	3	3	0.2	1.5	0.3	3.53	3.78	2.78	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2211	Residential	3	3	0.0	0.1	0.0	3.53	3.78	2.78	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
911	Residential	3	3	0.0	3.5	0.1	3.54	3.79	2.79	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2485	Commercial	10	3	1.2	4.4	5.3	3.54	3.79	2.79	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2442	Commercial	10	3	0.4	6.9	2.5	3.55	3.80	2.80	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
874	Residential	3	3	0.3	1.4	0.5	3.56	3.81	2.81	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2139	Residential	3	3	0.5	0.4	0.2	3.56	3.81	2.81	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3519	Residential	3	3	0.0	0.1	0.0	3.57	3.82	2.82	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1765	Residential	3	3	0.1	3.9	0.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
876	Residential	3	3	0.7	1.1	0.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
913	Residential	3	3	0.0	10.7	0.2	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1656	Residential	3	3	0.1	3.6	0.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1805	Residential	3	3	0.4	0.7	0.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2142	Commercial	10	3	1.3	2.1	2.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2156	Residential	3	3	1.0	0.4	0.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2172	Commercial	10	3	0.4	5.6	2.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2179	Residential	3	3	0.2	3.6	0.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
2209	Residential	3	3	0.7	3.2	2.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2216	Residential	3	3	0.8	1.1	0.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2252	Residential	3	3	0.5	1.7	0.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2396	Commercial	10	3	1.1	4.2	4.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2724	Commercial	10	3	1.1	3.6	4.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2760	Commercial	10	3	1.3	3.5	4.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2789	Residential	3	3	2.0	2.9	5.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2793	Commercial	10	3	1.4	3.1	4.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2848	Commercial	10	3	2.1	2.9	6.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2871	Commercial	10	3	1.4	3.5	4.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2891	Commercial	10	3	1.6	2.8	4.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2909	Residential	3	3	3.0	3.0	9.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2910	Residential	3	3	2.0	4.2	8.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2919	Residential	3	3	2.8	3.1	8.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2922	Residential	3	3	2.9	3.1	9.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2928	Residential	3	3	2.9	3.1	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2929	Residential	3	3	1.9	4.3	8.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2932	Residential	3	3	2.1	4.1	8.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2934	Residential	3	3	2.6	3.3	8.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2940	Residential	3	3	2.6	3.3	8.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2943	Residential	3	3	2.8	3.2	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2945	Residential	3	3	2.9	3.0	8.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2947	Residential	3	3	2.1	4.0	8.2	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2949	Residential	3	3	1.8	4.6	8.2	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2958	Residential	3	3	1.7	5.0	8.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2960	Residential	3	3	1.9	3.9	7.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2961	Residential	3	3	2.7	3.1	8.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2962	Residential	3	3	2.4	3.3	7.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2966	Residential	3	3	2.1	3.5	7.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2967	Residential	3	3	2.7	3.2	8.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2970	Residential	3	3	2.3	3.6	8.2	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2976	Residential	3	3	2.7	3.0	8.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2983	Residential	3	3	2.5	3.3	8.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2985	Residential	3	3	2.3	3.3	7.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2991	Residential	3	3	2.2	3.7	8.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2995	Residential	3	3	2.5	3.2	7.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2996	Residential	3	3	2.4	3.3	8.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2998	Residential	3	3	2.0	4.4	8.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2999	Residential	3	3	2.3	3.3	7.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3003	Residential	3	3	2.2	3.2	7.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3007	Residential	3	3	2.3	3.5	7.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3010	Residential	3	3	1.9	5.0	9.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3014	Residential	3	3	2.4	3.3	7.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3016	Residential	3	3	2.0	5.0	9.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3017	Residential	3	3	2.0	4.6	9.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3018	Residential	3	3	2.1	4.0	8.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3023	Residential	3	3	2.2	3.3	7.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3024	Residential	3	3	2.3	3.3	7.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3026	Residential	3	3	1.9	4.2	8.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3031	Residential	3	3	2.1	3.8	8.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3039	Commercial	10	3	2.6	3.2	8.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3042	Residential	3	3	2.1	3.8	7.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3045	Residential	3	3	2.1	4.7	9.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3047	Commercial	10	3	2.3	3.4	8.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3048	Residential	3	3	2.1	3.5	7.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3049	Residential	3	3	2.2	3.6	7.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3050	Residential	3	3	2.1	4.4	9.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3055	Residential	3	3	2.0	4.4	9.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3058	Commercial	10	3	2.4	3.0	7.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3059	Residential	3	3	2.1	4.3	9.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3061	Residential	3	3	2.1	3.6	7.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3064	Residential	3	3	2.0	5.0	9.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3066	Residential	3	3	2.0	4.5	9.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3068	Residential	3	3	2.0	3.9	7.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3071	Residential	3	3	2.0	3.8	7.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3076	Residential	3	3	1.9	4.0	7.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3081	Residential	3	3	2.0	3.9	7.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3087	Residential	3	3	1.4	6.6	9.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3095	Residential	3	3	2.0	4.4	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life		
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3096	Residential	3	3	2.0	4.3	8.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3098	Residential	3	3	2.0	4.2	8.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3101	Residential	3	3	1.7	5.0	8.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3103	Residential	3	3	0.4	21.1	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3105	Residential	3	3	1.7	5.1	8.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3112	Residential	3	3	0.9	12.1	11.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00024	0.00000	0.00073	0.00036	0.00000	0.00024	0.00000	0.00073	0.00036	0.0004
3113	Residential	3	3	1.9	4.5	8.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3116	Residential	3	3	2.0	4.1	8.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3118	Residential	3	3	2.0	4.1	8.2	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3120	Residential	3	3	0.2	47.7	9.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3125	Residential	3	3	1.9	4.2	8.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3129	Residential	3	3	1.9	4.6	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3131	Residential	3	3	1.9	4.1	7.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3133	Residential	3	3	1.7	4.5	7.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3135	Residential	3	3	2.0	4.5	9.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3136	Residential	3	3	1.1	7.6	8.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3137	Residential	3	3	1.9	4.7	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3143	Residential	3	3	2.0	4.5	9.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3145	Residential	3	3	1.3	6.0	7.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3146	Residential	3	3	1.6	4.9	7.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3149	Residential	3	3	2.0	4.5	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3151	Residential	3	3	1.5	5.3	7.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3154	Residential	3	3	2.0	4.5	8.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3159	Residential	3	3	2.9	5.7	16.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00046	0.00000	0.00138	0.00069	0.00000	0.00046	0.00000	0.00138	0.00069	0.0007
3160	Residential	3	3	1.9	4.2	8.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3167	Residential	3	3	2.0	4.3	8.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3168	Residential	3	3	2.4	6.4	15.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00125	0.00063	0.00000	0.00042	0.00000	0.00125	0.00063	0.0006
3172	Residential	3	3	1.9	4.5	8.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3173	Residential	3	3	1.9	4.3	8.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3174	Residential	3	3	2.0	7.2	14.2	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00037	0.00000	0.00111	0.00055	0.00000	0.00037	0.00000	0.00111	0.00055	0.0006
3176	Residential	3	3	1.9	4.4	8.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3177	Residential	3	3	2.0	4.1	8.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3180	Residential	3	3	1.8	7.2	13.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00032	0.00000	0.00096	0.00048	0.00000	0.00032	0.00000	0.00096	0.00048	0.0005
3182	Residential	3	3	1.8	4.8	8.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3183	Residential	3	3	2.1	4.0	8.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3187	Residential	3	3	1.8	4.8	8.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3190	Residential	3	3	2.0	6.1	12.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00030	0.00000	0.00089	0.00045	0.00000	0.00030	0.00000	0.00089	0.00045	0.0004
3191	Residential	3	3	1.8	4.7	8.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3196	Residential	3	3	2.0	5.9	11.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00027	0.00000	0.00082	0.00041	0.00000	0.00027	0.00000	0.00082	0.00041	0.0004
3198	Residential	3	3	1.6	5.2	8.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3200	Residential	3	3	1.9	5.7	11.2	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00025	0.00000	0.00074	0.00037	0.00000	0.00025	0.00000	0.00074	0.00037	0.0004
3203	Residential	3	3	1.9	5.5	10.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00022	0.00000	0.00066	0.00033	0.00000	0.00022	0.00000	0.00066	0.00033	0.0003
3204	Residential	3	3	1.9	5.0	9.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3208	Residential	3	3	1.9	4.7	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3210	Residential	3	3	2.0	4.3	8.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3211	Residential	3	3	3.7	5.4	20.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00062	0.00000	0.00186	0.00093	0.00000	0.00062	0.00000	0.00186	0.00093	0.0009
3213	Residential	3	3	2.0	4.3	8.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3214	Residential	3	3	2.1	4.1	8.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3220	Residential	3	3	2.1	4.5	9.2	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3222	Residential	3	3	3.4	5.4	18.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00054	0.00000	0.00161	0.00080	0.00000	0.00054	0.00000	0.00161	0.00080	0.0008
3225	Residential	3	3	2.1	4.3	8.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3226	Residential	3	3	3.6	5.1	18.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00054	0.00000	0.00163	0.00082	0.00000	0.00054	0.00000	0.00163	0.00082	0.0008
3227	Residential	3	3	2.1	4.3	9.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3228	Residential	3	3	2.0	4.4	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3229	Residential	3	3	2.2	4.0	8.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3235	Residential	3	3	2.0	4.5	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3236	Residential	3	3	3.2	5.0	15.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00130	0.00065	0.00000	0.00043	0.00000	0.00130	0.00065	0.0006
3237	Residential	3	3	2.1	4.3	9.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3238	Residential	3	3	2.1	4.1	8.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3241	Residential	3	3	3.2	4.7	15.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00040	0.00000	0.00121	0.00060	0.00000	0.00040	0.00000	0.00121	0.00060	0.0006
3243	Residential	3	3	2.2	4.1	8.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3245	Residential	3	3	2.0	4.5	9.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3247	Residential	3	3	3.3	4.3	14.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00108	0.00054	0.00000	0.00036	0.00000	0.00108	0.00054	0.0005
3249	Residential	3	3	2.1	4.4	9.2	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3254	Residential	3	3	3.1	4.2	13.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00032	0.00000	0.00096	0.00048	0.00000	0.00032	0.00000	0.00096	0.00048	0.0005
3259	Residential	3	3	2.9	5.3	15.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00042	0.00000	0.00125	0.00062	0.00000	0.00042	0.00000	0.00125	0.00062	0.0006
3260	Residential	3	3	2.9	4.2	12.2	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00029	0.00000	0.00086	0.00043	0.00000	0.00029	0.00000	0.00086	0.00043	0.0004
3261	Residential	3	3	2.2	4.0	8.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3263	Residential	3	3	2.8	4.2	11.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)										
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach				Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3266	Residential	3	3	2.6	4.2	11.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00024	0.00000	0.00072	0.00036	0.00000	0.00024	0.00000	0.00072	0.00036	0.0004
3267	Residential	3	3	2.3	4.2	9.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3270	Residential	3	3	2.1	4.2	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3272	Residential	3	3	2.1	4.2	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3273	Residential	3	3	3.2	4.9	15.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00128	0.00064	0.00000	0.00043	0.00000	0.00128	0.00064	0.0006
3276	Residential	3	3	1.9	4.6	9.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3277	Residential	3	3	2.6	4.1	10.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00023	0.00000	0.00068	0.00034	0.00000	0.00023	0.00000	0.00068	0.00034	0.0003
3279	Residential	3	3	2.1	4.3	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3281	Residential	3	3	4.2	4.1	17.2	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00049	0.00000	0.00147	0.00073	0.00000	0.00049	0.00000	0.00147	0.00073	0.0007
3282	Residential	3	3	2.6	4.1	10.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00022	0.00000	0.00066	0.00033	0.00000	0.00022	0.00000	0.00066	0.00033	0.0003
3286	Residential	3	3	4.6	3.9	17.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00051	0.00000	0.00154	0.00077	0.00000	0.00051	0.00000	0.00154	0.00077	0.0008
3291	Residential	3	3	2.6	4.1	10.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00022	0.00000	0.00067	0.00033	0.00000	0.00022	0.00000	0.00067	0.00033	0.0003
3292	Residential	3	3	2.0	4.6	9.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3296	Residential	3	3	1.9	4.7	9.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3307	Residential	3	3	4.0	4.1	16.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00046	0.00000	0.00137	0.00068	0.00000	0.00046	0.00000	0.00137	0.00068	0.0007
3308	Residential	3	3	2.1	4.5	9.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3309	Residential	3	3	2.3	4.2	9.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3310	Residential	3	3	2.2	4.4	9.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3314	Residential	3	3	2.4	4.0	9.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3315	Residential	3	3	3.5	4.4	15.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00043	0.00000	0.00128	0.00064	0.00000	0.00043	0.00000	0.00128	0.00064	0.0006
3320	Residential	3	3	2.1	4.4	9.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3323	Residential	3	3	2.0	4.5	9.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3327	Residential	3	3	1.9	4.6	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3328	Residential	3	3	3.2	4.7	15.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00040	0.00000	0.00121	0.00061	0.00000	0.00040	0.00000	0.00121	0.00061	0.0006
3331	Residential	3	3	1.9	4.7	8.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3332	Residential	3	3	3.1	4.7	14.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00038	0.00000	0.00114	0.00057	0.00000	0.00038	0.00000	0.00114	0.00057	0.0006
3337	Residential	3	3	1.8	4.7	8.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3338	Residential	3	3	3.0	4.8	14.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00036	0.00000	0.00109	0.00055	0.00000	0.00036	0.00000	0.00109	0.00055	0.0005
3339	Residential	3	3	2.7	4.9	13.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00033	0.00000	0.00100	0.00050	0.00000	0.00033	0.00000	0.00100	0.00050	0.0005
3341	Residential	3	3	1.8	4.8	8.5	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3342	Residential	3	3	2.5	4.8	12.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00028	0.00000	0.00084	0.00042	0.00000	0.00028	0.00000	0.00084	0.00042	0.0004
3346	Residential	3	3	2.4	4.9	11.6	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00026	0.00000	0.00079	0.00039	0.00000	0.00026	0.00000	0.00079	0.00039	0.0004
3352	Residential	3	3	2.2	5.1	11.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00025	0.00000	0.00076	0.00038	0.00000	0.00025	0.00000	0.00076	0.00038	0.0004
3356	Residential	3	3	1.9	5.7	11.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00024	0.00000	0.00072	0.00036	0.00000	0.00024	0.00000	0.00072	0.00036	0.0004
3363	Residential	3	3	1.6	6.8	10.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00023	0.00000	0.00069	0.00034	0.00000	0.00023	0.00000	0.00069	0.00034	0.0003
3367	Residential	3	3	1.4	7.4	10.4	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00022	0.00000	0.00065	0.00033	0.00000	0.00022	0.00000	0.00065	0.00033	0.0003
3368	Residential	3	3	2.8	4.7	13.3	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00033	0.00000	0.00099	0.00050	0.00000	0.00033	0.00000	0.00099	0.00050	0.0005
3369	Residential	3	3	1.3	7.4	10.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3375	Residential	3	3	1.5	6.7	9.7	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3384	Residential	3	3	1.4	6.4	9.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3389	Residential	3	3	1.4	0.6	0.8	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3411	Residential	3	3	2.0	4.6	9.1	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3419	Road	2	3	1.8	4.9	8.9	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
3501	Residential	3	3	0.9	3.5	3.0	3.58	3.83	2.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1623	Commercial	10	3	0.3	3.5	0.9	3.62	3.87	2.87	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
869	Residential	3	3	0.2	2.0	0.5	3.62	3.87	2.87	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1771	Residential	3	3	0.5	1.2	0.7	3.64	3.89	2.89	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1791	Residential	3	3	0.2	0.1	0.0	3.65	3.90	2.90	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
849	Residential	3	3	0.2	1.2	0.2	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
859	Residential	3	3	0.2	2.3	0.5	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
904	Residential	3	3	0.3	1.2	0.3	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
923	Residential	3	3	0.0	4.1	0.2	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1123	Road	2	3	2.6	6.0	15.4	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00041	0.00000	0.00083	0.00041	0.00000	0.00041	0.00000	0.00083	0.00041	0.0004
1642	Residential	3	3	0.8	1.4	1.1	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1659	Residential	3	3	0.8	1.0	0.8	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1735	Residential	3	3	0.2	2.2	0.4	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1767	Residential	3	3	0.3	1.8	0.6	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1794	Residential	3	3	0.2	2.0	0.5	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2231	Commercial	10	3	0.9	3.0	2.8	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2377	Commercial	10	3	1.5	1.5	2.2	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2799	Commercial	10	3	1.2	3.1	3.7	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2933	Commercial	10	3	2.1	2.5	5.2	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2946	Commercial	10	3	2.3	2.4	5.5	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3062	Residential	3	3	2.7	3.1	8.3	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3162	Commercial	10	3	2.1	2.2	4.7	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3165	Commercial	10	3	2.0	3.6	7.1	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3166	Commercial	10	3	2.7	2.8	7.6	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3269	Commercial	10	3	2.0	4.4	8.8	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3303	Residential	3	3	2.0	4.5	9.1	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)										
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach				Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3325	Commercial	10	3	2.7	2.0	5.3	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3349	Residential	3	3	1.8	4.7	8.4	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3353	Residential	3	3	1.7	4.9	8.4	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3357	Commercial	10	3	2.5	4.5	11.4	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00026	0.00000	0.00255	0.00128	0.00000	0.00026	0.00000	0.00255	0.00128	0.0013
3404	Commercial	10	3	2.5	4.0	10.0	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3431	Residential	3	3	0.5	2.2	1.1	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3433	Commercial	10	3	2.2	4.9	10.8	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00023	0.00000	0.00231	0.00116	0.00000	0.00023	0.00000	0.00231	0.00116	0.0012
4001	Residential	3	3	1.8	1.6	2.9	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4277	Residential	3	3	1.1	1.1	1.3	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1639	Road	2	3	0.4	2.8	1.0	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1797	Residential	3	3	0.0	0.1	0.0	3.68	3.93	2.93	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1709	Residential	3	3	0.5	0.8	0.4	3.69	3.94	2.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4175	Residential	3	3	0.0	27.5	0.8	3.69	3.94	2.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
765	Residential	3	3	0.1	4.3	0.3	3.69	3.94	2.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1815	Residential	3	3	0.2	0.1	0.0	3.70	3.95	2.95	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1745	Residential	3	3	0.2	1.6	0.4	3.74	3.99	2.99	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1747	Residential	3	3	0.1	4.2	0.4	3.74	3.99	2.99	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
846	Residential	3	3	0.1	1.8	0.3	3.74	3.99	2.99	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
807	Residential	3	3	0.9	2.9	2.5	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2308	Residential	3	3	1.2	1.5	1.8	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2359	Commercial	10	3	2.8	1.6	4.4	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2412	Commercial	10	3	1.9	1.7	3.2	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2557	Commercial	10	3	2.3	1.8	4.2	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2634	Commercial	10	3	1.6	3.8	6.0	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3442	Commercial	10	3	0.7	4.9	3.4	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1769	Residential	3	3	0.1	3.4	0.3	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1721	Residential	3	3	0.0	0.1	0.0	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1780	Residential	3	3	0.4	0.1	0.0	3.79	4.04	3.04	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1740	Residential	3	3	0.1	5.6	0.4	3.81	4.06	3.06	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
752	Farm/Shop	2	3	0.6	0.9	0.6	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
837	Residential	3	3	0.2	1.3	0.3	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3202	Residential	3	3	1.0	0.5	0.5	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1781	Residential	3	3	0.5	1.5	0.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3779	Residential	3	3	0.4	1.3	0.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3875	Residential	3	3	0.5	2.2	1.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4364	Residential	3	3	0.5	2.5	1.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4367	Residential	3	3	1.5	2.4	3.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1788	Residential	3	3	0.1	0.2	0.0	3.98	4.23	3.23	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3973	Commercial	10	3	0.5	1.0	0.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3250	Farm/Shop	2	3	0.9	4.6	4.1	4.02	4.27	3.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1723	Residential	3	3	0.2	2.5	0.5	4.05	4.30	3.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3275	Residential	3	3	0.6	5.0	3.0	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3387	Residential	3	3	3.1	1.4	4.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3483	Residential	3	3	0.9	4.9	4.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3511	Residential	3	3	5.3	2.0	10.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00021	0.00000	0.00064	0.00032	0.00000	0.00021	0.00000	0.00064	0.00032	0.0003
4007	Residential	3	3	0.1	5.3	0.7	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2978	Residential	3	3	0.3	4.7	1.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3097	Residential	3	3	0.4	2.9	1.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3295	Residential	3	3	0.8	0.8	0.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3508	Residential	3	3	2.1	4.2	8.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3911	Residential	3	3	0.4	1.2	0.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3193	Residential	3	3	0.5	4.3	2.1	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3428	Residential	3	3	1.5	1.3	1.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3491	Residential	3	3	2.2	3.3	7.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3523	Residential	3	3	2.0	3.2	6.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3540	Residential	3	3	2.1	4.2	9.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3760	Residential	3	3	0.4	2.5	0.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3937	Residential	3	3	0.1	3.6	0.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3621	Residential	3	3	0.9	5.5	4.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3711	Residential	3	3	0.4	1.5	0.6	4.28	4.53	3.53	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3733	Residential	3	3	0.1	0.1	0.0	4.32	4.57	3.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3506	Residential	3	3	1.5	6.0	8.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3580	Residential	3	3	3.4	3.8	12.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00032	0.00000	0.00095	0.00047	0.00000	0.00032	0.00000	0.00095	0.00047	0.0005
3739	Residential	3	3	1.3	7.9	10.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3471	Commercial	10	3	1.5	1.6	2.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3602	Residential	3	3	1.8	3.6	6.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3665	Residential	3	3	0.9	0.1	0.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3790	Residential	3	3	0.8	1.3	1.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3766	Residential	3	3	0.4	2.4	0.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)										
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3809	Residential	3	3	0.2	13.5	2.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3558	Residential	3	3	0.3	29.4	9.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3219	Residential	3	3	0.5	2.3	1.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3705	Residential	3	3	1.4	2.6	3.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3953	Residential	3	3	0.5	1.0	0.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4323	Residential	3	3	0.2	1.2	0.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4595	Road	2	3	2.9	2.1	5.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
3816	Residential	3	3	0.3	0.1	0.0	4.54	4.79	3.79	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2896	Residential	3	3	0.2	0.9	0.2	4.55	4.80	3.80	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3304	Residential	3	3	0.4	2.5	0.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3407	Residential	3	3	0.7	0.4	0.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3432	Residential	3	3	0.1	7.0	0.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3925	Residential	3	3	0.6	2.7	1.5	4.60	4.85	3.85	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1970	Residential	3	3	0.3	0.3	0.1	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3476	Residential	3	3	0.3	5.6	1.8	4.73	4.98	3.98	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4602	Residential	3	3	0.8	0.4	0.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4157	Residential	3	3	0.6	0.5	0.3	4.88	5.13	4.13	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4334	Residential	3	3	0.4	0.1	0.0	5.05	5.30	4.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
825	Residential	3	3	0.9	0.0	0.0	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3891	Residential	3	3	0.2	0.1	0.0	5.19	5.44	4.44	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3907	Commercial	10	3	0.1	0.9	0.1	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3908	Residential	3	3	0.1	0.9	0.1	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4702	Commercial	10	3	0.0	0.1	0.0	5.27	5.52	4.52	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4757	Residential	3	3	0.4	1.2	0.4	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4762	Residential	3	3	1.1	0.4	0.4	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4781	Residential	3	3	1.0	0.5	0.5	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4792	Residential	3	3	0.4	0.8	0.3	5.58	5.83	4.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4797	Residential	3	3	1.7	0.1	0.2	5.58	5.83	4.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4783	Commercial	10	3	0.3	0.9	0.3	5.67	5.92	4.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4770	Residential	3	3	0.2	1.9	0.4	5.72	5.97	4.97	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4769	Residential	3	3	0.2	2.3	0.4	5.75	6.00	5.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4795	Residential	3	3	0.1	0.1	0.0	5.88	6.13	5.13	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4828	Commercial	10	3	0.0	20.6	0.6	6.08	6.33	5.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
753	Residential	3	3	0.3	1.1	0.3	6.25	6.50	5.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4804	Commercial	10	3	0.3	0.5	0.2	6.25	6.50	5.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4391	Residential	3	3	0.8	0.0	0.0	6.33	6.58	5.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4825	Commercial	10	3	1.0	0.4	0.4	6.42	6.67	5.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4853	Commercial	10	3	0.4	0.6	0.2	6.42	6.67	5.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4383	Residential	3	3	0.3	0.1	0.0	6.50	6.75	5.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4707	Residential	3	3	0.3	0.1	0.0	6.50	6.75	5.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4379	Commercial	10	3	0.2	0.1	0.0	7.47	7.72	6.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
781	Residential	3	3	0.3	0.6	0.2	8.08	8.33	7.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
783	Residential	3	3	0.5	0.3	0.2	8.08	8.33	7.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
788	Residential	3	3	0.3	0.8	0.3	8.25	8.50	7.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
861	Residential	3	3	0.0	5.1	0.2	9.33	9.58	8.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
852	Residential	3	3	0.1	0.9	0.1	9.42	9.67	8.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
854	Residential	3	3	0.1	0.1	0.0	9.49	9.74	8.74	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
850	Residential	3	3	0.1	1.2	0.1	9.58	9.83	8.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
844	Residential	3	3	0.1	0.1	0.0	9.63	9.88	8.88	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
842	Residential	3	3	0.1	0.4	0.0	9.81	10.06	9.06	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
860	Residential	3	3	0.0	0.1	0.0	10.39	10.64	9.64	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
813	Residential	3	3	0.5	0.0	0.0	10.67	10.92	9.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
855	Residential	3	3	0.3	0.3	0.1	10.83	11.08	10.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
880	Residential	3	3	0.3	0.2	0.1	11.00	11.25	10.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
892	Residential	3	3	0.1	0.4	0.0	11.31	11.56	10.56	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
862	Residential	3	3	0.3	1.1	0.3	11.40	11.65	10.65	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
838	Residential	3	3	0.3	0.3	0.1	11.42	11.67	10.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
810	Residential	3	3	0.1	0.3	0.0	12.00	12.25	11.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
823	Residential	3	3	0.2	0.0	0.0	12.08	12.33	11.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
798	Residential	3	3	0.2	0.0	0.0	13.17	13.42	12.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
801	Residential	3	3	0.1	0.1	0.0	13.75	14.00	13.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
831	Residential	3	3	0.1	0.1	0.0	14.19	14.44	13.44	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
824	Residential	3	3	0.1	0.3	0.0	14.58	14.83	13.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
819	Residential	3	3	0.0	0.1	0.0	14.75	15.00	14.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4549	Residential	3	3	0.2	0.2	0.0	18.17	18.42	17.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
832	Commercial	10	4	1.9	0.6	1.2	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
863	Farm/Shop	2	4	2.1	5.1	10.5	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00022	0.00000	0.00044	0.00022	0.00000	0.00022	0.00000	0.00044	0.00022	0.0002
871	Residential	3	4	1.4	4.5	6.1	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1007	Residential	3	4	0.5	3.4	1.6	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1056	Farm/Shop	2	4	1.5	3.2	4.8	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1108	Commercial	10	4	0.2	50.0	8.1	3.67	3.92	2.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
995	Residential	3	4	1.4	0.8	1.1	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1005	Residential	3	4	0.2	5.7	0.9	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1020	Commercial	10	4	0.3	8.3	2.5	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1025	Residential	3	4	1.0	1.2	1.2	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1042	Residential	3	4	0.6	2.8	1.8	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1051	Residential	3	4	0.3	8.5	2.2	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1053	Residential	3	4	0.5	5.0	2.4	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1069	Residential	3	4	0.7	4.4	2.9	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1076	Residential	3	4	1.2	2.7	3.1	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1077	Residential	3	4	1.2	2.7	3.2	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1094	Residential	3	4	1.4	2.4	3.5	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1105	Residential	3	4	0.8	3.9	3.0	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1119	Farm/Shop	2	4	1.8	1.9	3.5	3.75	4.00	3.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1044	Farm/Shop	2	4	0.0	0.1	0.0	3.76	4.01	3.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
989	Residential	3	4	1.0	0.8	0.8	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
992	Residential	3	4	1.0	1.0	1.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
999	Residential	3	4	1.0	1.3	1.3	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1000	Residential	3	4	0.6	2.4	1.4	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1009	Residential	3	4	0.4	2.5	1.1	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1013	Residential	3	4	0.4	2.6	1.1	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1023	Residential	3	4	0.4	2.3	1.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1024	Residential	3	4	0.4	2.5	1.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1026	Residential	3	4	1.1	1.2	1.3	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1028	Residential	3	4	0.4	3.2	1.1	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1043	Residential	3	4	0.7	1.9	1.4	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1049	Residential	3	4	0.2	12.4	2.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1068	Residential	3	4	0.8	3.4	2.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1074	Residential	3	4	1.2	2.5	3.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1075	Residential	3	4	1.2	2.5	3.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1079	Residential	3	4	0.7	4.0	2.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1080	Residential	3	4	0.1	16.7	1.9	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1081	Residential	3	4	0.4	5.6	2.5	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1142	Residential	3	4	0.3	2.1	0.6	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1825	Residential	3	4	1.2	4.8	5.9	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1826	Residential	3	4	1.5	3.8	5.8	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1827	Residential	3	4	1.3	4.8	6.1	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1828	Residential	3	4	0.8	5.2	4.2	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1829	Residential	3	4	1.3	5.3	6.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1831	Residential	3	4	1.2	5.5	6.6	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1832	Residential	3	4	1.4	4.1	5.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1833	Residential	3	4	0.9	4.7	4.5	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1839	Residential	3	4	0.9	5.2	4.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1843	Residential	3	4	0.9	5.2	4.8	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1847	Residential	3	4	1.0	4.9	5.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1848	Residential	3	4	1.2	4.5	5.3	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1850	Residential	3	4	1.3	3.8	4.8	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1851	Residential	3	4	1.0	5.0	5.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1855	Residential	3	4	1.0	5.0	4.8	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1860	Residential	3	4	1.3	4.1	5.1	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1869	Residential	3	4	1.5	3.3	4.8	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1898	Residential	3	4	1.1	4.4	4.8	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1903	Residential	3	4	1.2	3.8	4.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1906	Residential	3	4	1.1	4.2	4.6	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1910	Residential	3	4	0.8	5.2	4.4	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1916	Residential	3	4	0.9	5.2	4.5	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1919	Residential	3	4	0.9	5.2	4.8	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1928	Residential	3	4	2.5	1.8	4.5	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1929	Residential	3	4	1.2	2.7	3.2	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1933	Residential	3	4	2.2	1.9	4.2	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1937	Residential	3	4	2.0	1.9	3.9	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1942	Residential	3	4	1.5	2.3	3.5	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2286	Residential	3	4	1.3	1.5	2.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2320	Residential	3	4	1.6	1.2	2.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2325	Residential	3	4	1.5	1.2	1.8	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2548	Residential	3	4	0.7	2.5	1.8	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2579	Residential	3	4	0.4	3.2	1.4	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2603	Residential	3	4	0.7	2.2	1.6	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
2641	Residential	3	4	0.9	2.9	2.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2647	Residential	3	4	1.1	2.5	2.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2654	Residential	3	4	1.2	3.0	3.5	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2661	Commercial	10	4	1.6	3.4	5.4	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2667	Residential	3	4	1.4	2.8	3.8	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2683	Residential	3	4	1.4	3.4	4.9	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2696	Residential	3	4	1.5	3.7	5.4	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2697	Residential	3	4	1.4	3.6	5.2	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2699	Commercial	10	4	1.8	3.6	6.6	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2702	Residential	3	4	1.5	3.5	5.3	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2704	Commercial	10	4	1.6	4.2	7.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2711	Residential	3	4	1.8	2.7	4.9	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2721	Commercial	10	4	1.7	4.0	6.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2726	Residential	3	4	1.6	3.8	6.1	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2734	Residential	3	4	1.6	3.7	6.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2746	Residential	3	4	1.7	3.3	5.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2755	Commercial	10	4	2.3	3.4	7.9	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2765	Residential	3	4	2.0	3.9	8.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2767	Residential	3	4	2.0	3.9	7.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2769	Residential	3	4	1.9	4.1	7.5	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2771	Residential	3	4	1.8	4.0	7.3	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2776	Residential	3	4	1.8	3.9	7.1	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2777	Residential	3	4	1.7	4.1	6.9	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2780	Residential	3	4	1.7	4.0	6.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2783	Residential	3	4	1.7	4.0	6.6	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2785	Residential	3	4	1.5	4.1	6.3	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2795	Residential	3	4	1.5	4.0	5.9	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2802	Residential	3	4	1.6	3.6	5.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2808	Residential	3	4	1.6	3.6	5.6	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2844	Residential	3	4	1.5	3.3	4.9	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2850	Church	30	4	1.4	2.7	3.7	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.018	0.009	0	0.0006	0.0003	0	0.018	0.009	0.009	0.00000	0.00020	0.00000	0.00600	0.00300	0.00000	0.00020	0.00000	0.00600	0.00300	0.0030
2860	Residential	3	4	1.2	3.4	4.1	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2868	Residential	3	4	1.4	3.2	4.5	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2879	Residential	3	4	1.3	3.0	4.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2899	Residential	3	4	1.0	3.4	3.4	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2901	Residential	3	4	0.5	4.5	2.0	3.83	4.08	3.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1016	Residential	3	4	0.5	2.3	1.1	3.84	4.09	3.09	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1040	Residential	3	4	0.5	2.6	1.2	3.85	4.10	3.10	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1873	Residential	3	4	0.5	7.5	3.8	3.85	4.10	3.10	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1900	Residential	3	4	0.0	0.1	0.0	3.86	4.11	3.11	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1871	Residential	3	4	0.8	5.2	3.9	3.86	4.11	3.11	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1907	Residential	3	4	0.1	0.1	0.0	3.87	4.12	3.12	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2637	Commercial	10	4	1.0	3.1	2.9	3.87	4.12	3.12	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1065	Residential	3	4	0.3	11.0	3.0	3.87	4.12	3.12	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1882	Residential	3	4	0.7	5.8	3.9	3.88	4.13	3.13	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2578	Residential	3	4	0.3	5.0	1.4	3.89	4.14	3.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1893	Residential	3	4	0.3	0.1	0.0	3.89	4.14	3.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1870	Residential	3	4	0.9	4.4	4.0	3.90	4.15	3.15	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2543	Residential	3	4	0.5	3.1	1.5	3.91	4.16	3.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1912	Residential	3	4	0.2	13.0	3.3	3.91	4.16	3.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2565	Residential	3	4	0.4	3.9	1.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2921	Residential	3	4	0.6	3.1	1.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
853	Residential	3	4	2.6	4.7	12.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00029	0.00000	0.00086	0.00043	0.00000	0.00029	0.00000	0.00086	0.00043	0.0004
1011	Residential	3	4	0.5	2.1	1.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1844	Residential	3	4	0.9	5.6	4.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1856	Residential	3	4	0.4	10.0	4.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1857	Residential	3	4	1.1	4.2	4.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1863	Residential	3	4	1.0	4.6	4.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1865	Residential	3	4	0.2	7.9	1.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1872	Residential	3	4	0.5	4.0	2.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1877	Residential	3	4	0.8	5.6	4.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1878	Residential	3	4	1.5	6.2	9.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1879	Residential	3	4	1.0	3.1	3.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1881	Residential	3	4	1.0	3.5	3.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1883	Residential	3	4	0.7	4.4	3.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1884	Residential	3	4	1.5	6.5	9.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1886	Residential	3	4	0.3	12.0	3.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1889	Residential	3	4	2.6	1.4	3.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1891	Residential	3	4	2.2	1.9	4.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1896	Residential	3	4	1.2	3.0	3.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1899	Residential	3	4	0.9	4.4	3.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1908	Residential	3	4	0.8	3.4	2.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1918	Residential	3	4	1.1	2.7	3.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1920	Residential	3	4	0.7	4.3	3.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1921	Residential	3	4	1.5	1.7	2.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1923	Residential	3	4	1.8	2.8	4.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1924	Residential	3	4	1.2	2.3	2.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1927	Residential	3	4	1.5	2.0	3.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1935	Residential	3	4	1.4	2.0	2.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1936	Residential	3	4	1.2	2.4	2.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1938	Residential	3	4	1.2	1.6	2.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1940	Residential	3	4	1.2	0.8	0.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1943	Residential	3	4	1.3	2.0	2.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1945	Residential	3	4	1.1	2.4	2.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1946	Residential	3	4	0.7	2.7	2.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1948	Residential	3	4	1.1	2.9	3.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1950	Residential	3	4	1.4	1.8	2.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1952	Residential	3	4	1.1	2.3	2.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1955	Residential	3	4	1.0	2.3	2.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1959	Residential	3	4	0.9	1.9	1.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1963	Residential	3	4	0.8	2.3	1.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1964	Residential	3	4	0.7	1.9	1.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1972	Residential	3	4	0.4	2.4	1.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1984	Residential	3	4	0.2	1.4	0.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1989	Residential	3	4	0.0	16.6	0.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1990	Residential	3	4	0.0	16.9	0.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2004	Residential	3	4	0.4	1.4	0.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2013	Residential	3	4	0.4	2.9	1.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2026	Residential	3	4	0.2	2.1	0.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2043	Residential	3	4	0.5	1.4	0.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2251	Residential	3	4	0.5	3.0	1.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2281	Residential	3	4	1.2	1.5	1.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2295	Residential	3	4	1.1	1.8	2.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2302	Residential	3	4	1.0	2.2	2.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2311	Residential	3	4	1.0	2.1	2.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2317	Residential	3	4	1.6	1.3	2.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2330	Residential	3	4	1.3	1.3	1.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2337	Residential	3	4	1.1	1.6	1.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2343	Residential	3	4	1.0	1.9	1.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2384	Residential	3	4	0.5	3.1	1.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2397	Residential	3	4	0.5	3.6	1.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2400	Residential	3	4	0.6	3.0	1.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2411	Residential	3	4	0.3	3.9	1.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2416	Residential	3	4	0.7	2.6	1.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2427	Residential	3	4	1.3	2.2	2.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2436	Commercial	10	4	0.6	2.9	1.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2441	Commercial	10	4	1.1	2.1	2.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2443	Commercial	10	4	0.9	2.4	2.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2450	Residential	3	4	1.0	2.5	2.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2458	Residential	3	4	0.9	2.7	2.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2460	Residential	3	4	0.8	3.0	2.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2461	Residential	3	4	0.9	2.8	2.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2463	Residential	3	4	1.0	2.1	2.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2464	Residential	3	4	0.7	3.3	2.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2466	Residential	3	4	1.1	2.0	2.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2471	Residential	3	4	1.2	2.1	2.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2474	Commercial	10	4	0.8	2.5	2.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2475	Residential	3	4	1.3	2.1	2.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2477	Residential	3	4	1.2	2.3	2.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2482	Residential	3	4	1.2	2.2	2.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2487	Residential	3	4	0.9	2.7	2.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2488	Residential	3	4	0.9	2.8	2.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2490	Residential	3	4	0.9	2.8	2.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2493	Residential	3	4	0.6	3.5	2.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2520	Commercial	10	4	0.4	4.1	1.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2533	Residential	3	4	1.5	1.9	2.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2545	Commercial	10	4	0.5	4.0	1.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2549	Residential	3	4	0.5	3.0	1.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
2553	Residential	3	4	0.5	3.3	1.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2563	Residential	3	4	0.6	2.1	1.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2567	Residential	3	4	0.3	4.8	1.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2571	Residential	3	4	1.3	1.8	2.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2574	Residential	3	4	0.4	3.6	1.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2581	Residential	3	4	0.5	3.2	1.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2590	Residential	3	4	0.6	1.9	1.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2595	Residential	3	4	1.0	1.5	1.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2598	Residential	3	4	0.6	2.3	1.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2602	Residential	3	4	0.7	2.3	1.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2605	Residential	3	4	1.0	2.1	2.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2608	Residential	3	4	0.8	1.7	1.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2612	Residential	3	4	0.7	2.3	1.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2615	Residential	3	4	1.0	1.5	1.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2623	Residential	3	4	0.9	2.1	1.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2626	Residential	3	4	0.8	2.7	2.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2627	Residential	3	4	0.9	1.9	1.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2628	Residential	3	4	0.8	2.5	2.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2635	Residential	3	4	1.0	1.8	1.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2638	Residential	3	4	1.0	2.2	2.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2643	Residential	3	4	1.0	2.6	2.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2645	Residential	3	4	1.1	1.9	2.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2648	Residential	3	4	1.2	2.0	2.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2650	Commercial	10	4	1.3	2.9	3.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2658	Residential	3	4	1.4	2.2	3.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2659	Commercial	10	4	1.1	2.4	2.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2660	Residential	3	4	1.2	3.0	3.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2664	Residential	3	4	1.5	2.1	3.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2665	Residential	3	4	1.1	2.5	2.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2669	Commercial	10	4	1.1	2.4	2.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2673	Residential	3	4	1.6	2.5	3.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2681	Residential	3	4	1.7	2.4	4.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2687	Commercial	10	4	1.5	2.4	3.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2691	Residential	3	4	1.4	2.5	3.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2695	Church	30	4	1.1	3.0	3.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.018	0.009	0	0.0006	0.0003	0	0.018	0.009	0.009	0.00000	0.00020	0.00000	0.00600	0.00300	0.00000	0.00020	0.00000	0.00600	0.00300	0.0030
2698	Residential	3	4	1.2	2.7	3.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2707	Residential	3	4	1.6	3.4	5.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2709	Commercial	10	4	1.2	2.8	3.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2713	Residential	3	4	1.2	2.8	3.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2717	Residential	3	4	1.1	3.0	3.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2720	Residential	3	4	1.2	2.8	3.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2725	Residential	3	4	1.1	3.2	3.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2731	Residential	3	4	1.9	2.8	5.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2735	Residential	3	4	1.8	2.6	4.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2737	Residential	3	4	1.2	3.2	3.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2740	Residential	3	4	1.6	3.5	5.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2743	Residential	3	4	1.7	2.6	4.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2751	Residential	3	4	1.6	2.7	4.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2754	Residential	3	4	1.8	3.0	5.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2763	Residential	3	4	1.4	3.1	4.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2773	Residential	3	4	1.4	3.2	4.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2778	Commercial	10	4	1.6	3.1	5.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2782	Residential	3	4	1.3	3.4	4.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2784	Residential	3	4	1.6	3.1	4.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2787	Residential	3	4	1.3	3.5	4.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2791	Residential	3	4	1.6	3.1	4.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2792	Residential	3	4	1.3	3.5	4.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2801	Residential	3	4	1.4	3.3	4.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2809	Residential	3	4	1.6	3.1	4.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2824	Residential	3	4	1.5	3.4	5.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2826	Commercial	10	4	1.5	3.3	5.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2827	Residential	3	4	1.6	3.0	4.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2840	Residential	3	4	1.5	3.5	5.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2843	Residential	3	4	1.3	3.3	4.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2855	Residential	3	4	1.5	3.5	5.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2863	Commercial	10	4	1.5	3.4	4.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2872	Residential	3	4	1.2	3.3	3.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2876	Residential	3	4	1.6	3.0	5.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2877	Residential	3	4	1.7	3.0	5.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
2880	Commercial	10	4	1.7	3.0	5.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2890	Commercial	10	4	1.6	3.3	5.2	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2894	Commercial	10	4	1.5	3.3	5.1	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2903	Residential	3	4	1.0	3.4	3.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2912	Residential	3	4	1.3	2.9	3.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2914	Residential	3	4	1.5	3.1	4.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2935	Residential	3	4	1.4	3.2	4.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2938	Residential	3	4	0.7	2.2	1.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2965	Residential	3	4	1.3	2.8	3.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2973	Residential	3	4	1.4	2.5	3.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2984	Residential	3	4	1.3	2.8	3.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2989	Residential	3	4	0.7	2.2	1.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3002	Residential	3	4	0.7	2.1	1.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3015	Residential	3	4	1.4	2.4	3.4	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3022	Residential	3	4	0.7	2.0	1.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3033	Residential	3	4	0.7	1.4	0.9	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3063	Residential	3	4	0.4	1.8	0.8	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3100	Residential	3	4	0.2	2.6	0.5	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3754	Commercial	10	4	2.4	1.8	4.3	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3865	Commercial	10	4	1.3	2.4	3.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3890	Commercial	10	4	1.1	2.5	2.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3979	Commercial	10	4	2.0	1.0	2.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4333	Commercial	10	4	2.7	4.7	12.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00031	0.00000	0.00308	0.00154	0.00000	0.00031	0.00000	0.00308	0.00154	0.0015
4356	Commercial	10	4	1.7	4.4	7.7	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4363	Residential	3	4	2.1	3.9	8.0	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1994	Residential	3	4	0.0	26.7	0.6	3.92	4.17	3.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2496	Residential	3	4	0.8	2.9	2.2	3.93	4.18	3.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1875	Residential	3	4	0.7	5.7	3.8	3.93	4.18	3.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3028	Commercial	10	4	0.3	0.1	0.0	3.93	4.18	3.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3057	Commercial	10	4	0.7	2.1	1.5	3.93	4.18	3.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2629	Commercial	10	4	0.9	2.7	2.5	3.93	4.18	3.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3067	Residential	3	4	0.4	2.0	0.8	3.93	4.18	3.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1868	Residential	3	4	0.9	4.7	4.3	3.95	4.20	3.20	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2470	Residential	3	4	0.8	3.2	2.5	3.95	4.20	3.20	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2556	Residential	3	4	0.6	2.7	1.5	3.96	4.21	3.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2421	Residential	3	4	0.7	2.8	2.1	3.96	4.21	3.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1861	Residential	3	4	0.6	5.3	3.2	3.98	4.23	3.23	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2500	Residential	3	4	0.6	3.6	2.2	3.99	4.24	3.24	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2606	Residential	3	4	0.6	2.4	1.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
965	Residential	3	4	0.3	2.2	0.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1050	Residential	3	4	0.7	2.1	1.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1823	Residential	3	4	0.4	9.8	4.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1835	Residential	3	4	0.5	11.0	5.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1840	Residential	3	4	1.5	3.8	5.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1845	Residential	3	4	1.1	5.0	5.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1849	Residential	3	4	1.7	3.7	6.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1858	Residential	3	4	1.9	4.1	7.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1887	Residential	3	4	0.7	10.1	6.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1892	Residential	3	4	0.8	6.3	4.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1894	Residential	3	4	1.3	3.7	5.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1902	Residential	3	4	1.6	2.9	4.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1905	Residential	3	4	0.8	4.4	3.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1911	Residential	3	4	1.1	3.0	3.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1913	Residential	3	4	0.6	5.0	3.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1915	Residential	3	4	2.1	2.7	5.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1917	Residential	3	4	1.5	2.1	3.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1922	Residential	3	4	1.3	2.9	3.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1925	Residential	3	4	2.0	2.7	5.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1932	Residential	3	4	0.7	3.5	2.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1934	Residential	3	4	1.0	3.4	3.6	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1939	Residential	3	4	0.3	1.6	0.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1941	Residential	3	4	0.7	3.4	2.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1944	Residential	3	4	1.7	2.8	4.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1947	Residential	3	4	0.2	4.7	1.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1949	Residential	3	4	0.3	1.8	0.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1953	Residential	3	4	1.0	3.0	2.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1958	Residential	3	4	1.6	3.0	4.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1962	Residential	3	4	0.3	1.7	0.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1965	Residential	3	4	1.0	1.5	1.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted	Day Breach					Night Breach					Weighted
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life			LOL	Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			LOL
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1975	Residential	3	4	0.6	1.2	0.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1976	Residential	3	4	0.4	3.0	1.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1978	Residential	3	4	0.4	1.1	0.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1985	Residential	3	4	0.4	1.4	0.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1991	Residential	3	4	0.1	3.0	0.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1996	Residential	3	4	0.3	1.8	0.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1998	Residential	3	4	1.0	1.8	1.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2012	Residential	3	4	0.1	4.1	0.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2017	Residential	3	4	0.4	1.6	0.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2020	Residential	3	4	0.2	7.2	1.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2021	Residential	3	4	0.5	2.1	1.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2024	Residential	3	4	0.0	0.1	0.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2029	Residential	3	4	0.5	2.9	1.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2030	Residential	3	4	0.6	1.8	1.1	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2033	Residential	3	4	1.0	0.5	0.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2039	Residential	3	4	1.0	0.5	0.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2042	Residential	3	4	0.6	1.9	1.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2045	Residential	3	4	0.6	2.6	1.6	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2049	Residential	3	4	1.0	0.5	0.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2051	Residential	3	4	0.7	0.8	0.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2053	Residential	3	4	0.6	2.1	1.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2066	Residential	3	4	0.5	1.1	0.6	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2080	Residential	3	4	0.5	2.3	1.1	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2083	Residential	3	4	0.2	4.4	0.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2090	Residential	3	4	0.5	2.8	1.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2092	Residential	3	4	0.4	3.0	1.1	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2094	Residential	3	4	0.5	2.7	1.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2103	Residential	3	4	0.4	3.1	1.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2105	Residential	3	4	0.6	2.4	1.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2108	Residential	3	4	0.1	7.3	0.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2111	Residential	3	4	0.5	2.9	1.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2118	Residential	3	4	0.1	12.9	0.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2125	Residential	3	4	0.6	2.3	1.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2138	Residential	3	4	0.5	0.5	0.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2147	Residential	3	4	0.6	0.4	0.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2176	Residential	3	4	0.6	2.3	1.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2193	Residential	3	4	0.2	4.7	0.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2194	Residential	3	4	1.2	1.1	1.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2202	Residential	3	4	1.7	1.0	1.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2290	Residential	3	4	1.5	1.3	2.1	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2313	Residential	3	4	0.8	3.0	2.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2323	Residential	3	4	0.7	1.8	1.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2329	Residential	3	4	1.2	1.9	2.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2354	Residential	3	4	1.6	1.4	2.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2391	Residential	3	4	0.9	2.8	2.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2395	Residential	3	4	0.5	3.1	1.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2399	Residential	3	4	1.4	2.0	2.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2432	Residential	3	4	1.3	2.3	2.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2438	Commercial	10	4	1.3	2.4	3.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2445	Residential	3	4	1.4	2.0	2.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2449	Commercial	10	4	1.6	1.9	3.1	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2451	Residential	3	4	1.0	2.5	2.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2455	Residential	3	4	0.9	2.7	2.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2456	Commercial	10	4	1.5	2.3	3.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2465	Residential	3	4	1.5	2.0	3.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2467	Residential	3	4	1.4	1.9	2.6	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2479	Commercial	10	4	0.9	3.2	2.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2483	Commercial	10	4	1.8	1.9	3.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2484	Residential	3	4	1.2	2.3	2.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2489	Residential	3	4	1.2	2.3	2.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2504	Residential	3	4	1.1	2.3	2.6	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2506	Commercial	10	4	1.7	1.8	3.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2510	Commercial	10	4	1.6	1.7	2.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2516	Commercial	10	4	0.8	2.9	2.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2521	Residential	3	4	1.4	2.2	3.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2534	Commercial	10	4	0.0	45.2	1.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2539	Residential	3	4	1.5	1.9	2.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2540	Residential	3	4	1.5	2.0	3.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2546	Residential	3	4	1.3	1.7	2.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
2550	Residential	3	4	1.4	2.2	3.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2558	Residential	3	4	1.2	2.4	3.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2561	Residential	3	4	0.9	1.8	1.6	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2564	Residential	3	4	1.3	1.8	2.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2569	Residential	3	4	1.3	2.5	3.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2570	Residential	3	4	1.0	1.6	1.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2586	Commercial	10	4	1.1	2.8	3.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2589	Residential	3	4	0.8	1.7	1.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2594	Residential	3	4	1.2	2.2	2.6	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2610	Residential	3	4	1.1	2.6	2.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2613	Residential	3	4	1.1	2.6	2.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2616	Residential	3	4	1.2	2.4	3.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2617	Residential	3	4	1.1	2.1	2.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2625	Residential	3	4	1.2	2.6	3.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2630	Residential	3	4	1.1	2.8	3.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2636	Residential	3	4	1.1	2.4	2.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2642	Residential	3	4	1.2	2.8	3.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2646	Residential	3	4	1.1	2.5	2.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2652	Residential	3	4	1.3	2.9	3.6	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2653	Residential	3	4	1.1	2.4	2.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2663	Residential	3	4	1.2	2.8	3.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2676	Commercial	10	4	1.9	3.1	5.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2679	Residential	3	4	1.3	2.7	3.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2680	Residential	3	4	1.2	2.7	3.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2706	Residential	3	4	1.1	3.1	3.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2723	Commercial	10	4	1.3	2.7	3.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2728	Commercial	10	4	1.2	3.2	3.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2745	Residential	3	4	1.3	2.7	3.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2753	Residential	3	4	1.4	2.7	3.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2772	Residential	3	4	1.5	2.7	4.1	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2775	Commercial	10	4	1.4	2.9	4.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2798	Residential	3	4	1.8	2.6	4.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2810	Residential	3	4	1.8	2.4	4.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2817	Residential	3	4	1.6	2.7	4.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2822	Residential	3	4	1.8	2.4	4.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2833	Residential	3	4	1.7	2.8	4.6	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2835	Commercial	10	4	1.8	2.4	4.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2841	Residential	3	4	1.6	2.9	4.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2847	Commercial	10	4	1.8	2.5	4.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2861	Commercial	10	4	1.6	2.9	4.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2864	Residential	3	4	1.7	2.7	4.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2887	Residential	3	4	1.7	2.8	4.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2889	Commercial	10	4	1.7	2.9	4.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2920	Church	30	4	1.8	2.7	4.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.018	0.009	0	0.0006	0.0003	0	0.018	0.009	0.009	0.00000	0.00020	0.00000	0.00600	0.00300	0.00000	0.00020	0.00000	0.00600	0.00300	0.0030
2950	Residential	3	4	0.6	2.4	1.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2952	Residential	3	4	1.7	2.9	5.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2964	Commercial	10	4	1.6	3.1	4.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2969	Commercial	10	4	1.7	2.7	4.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2972	Commercial	10	4	2.4	3.5	8.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2986	Commercial	10	4	1.5	3.1	4.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2993	Residential	3	4	1.3	2.8	3.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3000	Commercial	10	4	1.5	2.5	3.9	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3034	Residential	3	4	0.7	2.2	1.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3051	Residential	3	4	0.5	1.7	0.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3053	Residential	3	4	1.2	2.8	3.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3056	Commercial	10	4	1.7	2.8	4.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3070	Commercial	10	4	0.7	2.2	1.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3072	Residential	3	4	1.7	2.8	4.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3078	Commercial	10	4	1.1	2.4	2.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3082	Residential	3	4	1.7	2.7	4.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3086	Residential	3	4	0.3	2.6	0.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3110	Commercial	10	4	0.8	2.0	1.6	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3111	Commercial	10	4	0.7	1.8	1.2	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3115	Residential	3	4	1.4	2.5	3.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3119	Residential	3	4	0.0	0.1	0.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3138	Residential	3	4	0.1	0.1	0.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3141	Residential	3	4	0.0	0.1	0.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3142	Commercial	10	4	1.0	2.4	2.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3153	Commercial	10	4	0.6	1.6	1.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted	Day Breach					Night Breach					Weighted
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life			LOL	Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			LOL
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3157	Commercial	10	4	1.3	2.5	3.4	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3171	Commercial	10	4	0.6	2.2	1.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3189	Commercial	10	4	0.4	1.4	0.6	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3435	Commercial	10	4	0.9	1.1	1.0	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3684	Commercial	10	4	0.7	3.8	2.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3815	Commercial	10	4	1.0	3.2	3.3	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3946	Commercial	10	4	1.7	2.1	3.6	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3992	Commercial	10	4	1.6	2.3	3.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4036	Commercial	10	4	0.3	2.8	0.7	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4362	Commercial	10	4	2.4	3.9	9.1	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4369	Commercial	10	4	2.0	4.7	9.5	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3069	Residential	3	4	0.3	2.4	0.8	4.00	4.25	3.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2008	Residential	3	4	0.1	5.3	0.4	4.01	4.26	3.26	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2155	Residential	3	4	0.5	0.9	0.4	4.01	4.26	3.26	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3722	Commercial	10	4	0.5	5.5	2.7	4.01	4.26	3.26	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1838	Residential	3	4	0.4	11.2	4.6	4.01	4.26	3.26	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3451	Commercial	10	4	0.2	3.1	0.6	4.02	4.27	3.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2006	Residential	3	4	0.3	2.1	0.7	4.02	4.27	3.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2584	Residential	3	4	0.6	1.9	1.3	4.02	4.27	3.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2230	Residential	3	4	0.5	2.5	1.3	4.02	4.27	3.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2009	Residential	3	4	0.5	1.2	0.5	4.02	4.27	3.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2165	Residential	3	4	0.3	2.2	0.7	4.02	4.27	3.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2535	Commercial	10	4	0.3	5.7	1.8	4.03	4.28	3.28	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2265	Residential	3	4	0.7	1.9	1.3	4.03	4.28	3.28	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3122	Residential	3	4	0.1	0.1	0.0	4.03	4.28	3.28	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2277	Residential	3	4	0.8	2.3	1.9	4.04	4.29	3.29	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2171	Residential	3	4	0.2	0.1	0.0	4.04	4.29	3.29	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1909	Residential	3	4	0.9	3.8	3.5	4.04	4.29	3.29	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3148	Residential	3	4	0.2	3.5	0.6	4.05	4.30	3.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2522	Commercial	10	4	0.2	7.7	1.8	4.05	4.30	3.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2003	Residential	3	4	0.2	8.3	1.6	4.05	4.30	3.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2402	Residential	3	4	0.7	2.8	2.0	4.05	4.30	3.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3074	Residential	3	4	0.4	2.2	0.8	4.05	4.30	3.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2115	Residential	3	4	0.3	4.2	1.2	4.05	4.30	3.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2082	Residential	3	4	0.4	3.0	1.3	4.06	4.31	3.31	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2502	Residential	3	4	0.5	4.5	2.3	4.06	4.31	3.31	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2167	Residential	3	4	0.1	0.1	0.0	4.06	4.31	3.31	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1983	Residential	3	4	0.1	12.4	0.8	4.07	4.32	3.32	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3128	Residential	3	4	0.2	3.8	0.6	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2159	Residential	3	4	0.2	5.7	1.0	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2198	Residential	3	4	0.1	7.6	0.8	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1545	mercial/Indus	10	4	1.6	0.3	0.5	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1866	Residential	3	4	0.9	5.7	5.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1890	Residential	3	4	0.5	9.9	4.8	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1967	Residential	3	4	1.1	2.3	2.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1979	Residential	3	4	0.8	1.4	1.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1980	Residential	3	4	1.1	2.0	2.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1982	Residential	3	4	1.6	2.6	4.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1987	Residential	3	4	0.6	1.4	0.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1988	Residential	3	4	1.0	1.9	2.0	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1992	Residential	3	4	1.9	2.1	4.0	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1993	Residential	3	4	0.2	1.8	0.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1995	Residential	3	4	0.5	1.2	0.6	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2002	Residential	3	4	2.1	2.0	4.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2016	Residential	3	4	2.3	1.8	4.2	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2031	Residential	3	4	1.8	2.4	4.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2034	Residential	3	4	0.0	5.9	0.2	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2036	Residential	3	4	0.2	7.8	1.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2040	Residential	3	4	0.3	5.0	1.6	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2044	Residential	3	4	1.6	2.6	4.2	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2052	Residential	3	4	0.3	3.8	1.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2067	Residential	3	4	0.3	3.7	1.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2072	Residential	3	4	0.4	1.9	0.7	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2076	Residential	3	4	0.4	1.2	0.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2077	Residential	3	4	0.5	2.8	1.5	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2089	Residential	3	4	0.5	2.9	1.5	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2112	Residential	3	4	0.7	1.4	0.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2120	Residential	3	4	0.6	2.4	1.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2124	Residential	3	4	0.8	1.6	1.2	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
2126	Residential	3	4	0.1	1.5	0.2	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2128	Residential	3	4	0.6	1.4	0.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2140	Residential	3	4	0.6	2.4	1.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2144	Residential	3	4	0.5	2.4	1.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2153	Residential	3	4	0.5	2.7	1.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2154	Residential	3	4	0.5	1.5	0.7	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2158	Residential	3	4	0.6	2.3	1.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2161	Residential	3	4	0.6	2.2	1.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2174	Residential	3	4	0.4	3.1	1.2	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2180	Residential	3	4	0.2	4.2	0.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2183	Residential	3	4	0.2	6.8	1.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2186	Residential	3	4	0.1	6.6	0.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2189	Residential	3	4	0.4	2.6	1.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2206	Residential	3	4	0.5	2.4	1.2	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2210	Residential	3	4	0.1	6.1	0.7	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2217	Residential	3	4	0.6	1.6	0.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2218	Residential	3	4	0.8	2.0	1.5	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2221	Residential	3	4	0.7	1.8	1.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2238	Residential	3	4	0.6	2.6	1.5	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2245	Residential	3	4	0.2	6.5	1.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2246	Residential	3	4	0.1	18.4	1.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2261	Residential	3	4	0.8	1.8	1.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2296	Residential	3	4	0.8	1.7	1.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2303	Residential	3	4	0.8	2.2	1.8	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2314	Residential	3	4	0.9	2.6	2.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2338	Residential	3	4	0.8	2.4	1.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2347	Residential	3	4	0.7	2.9	1.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2350	Residential	3	4	0.3	5.7	2.0	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2366	Residential	3	4	0.7	2.0	1.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2390	Residential	3	4	0.5	3.4	1.6	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2403	Residential	3	4	0.8	2.4	1.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2426	Commercial	10	4	1.1	2.2	2.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2494	Residential	3	4	0.7	2.6	1.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2497	Residential	3	4	1.5	2.2	3.2	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2503	Commercial	10	4	0.4	6.8	2.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2505	Residential	3	4	0.9	1.9	1.7	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2509	Residential	3	4	1.0	2.1	2.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2515	Residential	3	4	1.3	2.2	2.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2518	Residential	3	4	0.9	2.2	1.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2529	Residential	3	4	1.3	2.2	3.0	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2530	Residential	3	4	1.1	2.8	2.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2547	Residential	3	4	1.3	2.3	3.0	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2552	Residential	3	4	1.4	1.7	2.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2560	Residential	3	4	1.4	2.0	2.8	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2562	Residential	3	4	1.2	2.6	3.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2577	Commercial	10	4	1.2	2.7	3.2	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2582	Commercial	10	4	1.3	2.6	3.2	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2593	Residential	3	4	1.1	3.0	3.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2607	Residential	3	4	1.2	2.8	3.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2631	Residential	3	4	1.6	2.8	4.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2657	Residential	3	4	1.2	3.1	3.7	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2674	Commercial	10	4	1.3	3.2	4.0	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2686	Residential	3	4	1.2	3.0	3.5	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2738	Commercial	10	4	2.8	2.8	7.7	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2756	Commercial	10	4	2.2	2.6	5.6	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2851	Commercial	10	4	2.2	3.2	7.2	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2865	Commercial	10	4	2.0	3.0	6.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2874	Commercial	10	4	1.9	2.7	5.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2904	Commercial	10	4	2.2	3.4	7.5	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2948	Commercial	10	4	2.1	2.9	6.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3005	Commercial	10	4	2.1	3.1	6.5	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3089	mercial/Indus	10	4	2.6	2.9	7.4	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3093	Residential	3	4	1.7	2.5	4.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3134	Residential	3	4	0.0	0.1	0.0	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3185	Commercial	10	4	0.6	1.5	0.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3239	Commercial	10	4	0.1	2.5	0.2	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3244	Commercial	10	4	1.8	2.6	4.6	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3288	Commercial	10	4	0.6	1.8	1.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3305	Commercial	10	4	0.6	2.7	1.7	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3343	Commercial	10	4	0.7	4.3	2.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3365	Commercial	10	4	0.4	1.3	0.5	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3502	Commercial	10	4	0.3	4.4	1.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3944	Commercial	10	4	1.7	2.2	3.8	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4373	Residential	3	4	2.2	3.4	7.6	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4375	Commercial	10	4	2.2	5.2	11.3	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00025	0.00000	0.00252	0.00126	0.00000	0.00025	0.00000	0.00252	0.00126	0.0013
4377	Residential	3	4	2.1	4.8	10.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00061	0.00031	0.00000	0.00020	0.00000	0.00061	0.00031	0.0003
4382	Residential	3	4	2.8	4.0	11.1	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00025	0.00000	0.00074	0.00037	0.00000	0.00025	0.00000	0.00074	0.00037	0.0004
4385	Residential	3	4	1.9	4.6	8.6	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4387	Residential	3	4	1.5	4.1	5.9	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4389	Residential	3	4	1.1	3.2	3.5	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4393	Residential	3	4	1.7	4.1	7.0	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4408	Residential	3	4	1.3	3.2	4.0	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4454	Residential	3	4	0.4	1.6	0.6	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2062	Residential	3	4	0.5	3.3	1.5	4.08	4.33	3.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2107	Residential	3	4	0.5	3.0	1.5	4.09	4.34	3.34	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2228	Residential	3	4	0.3	3.4	0.9	4.09	4.34	3.34	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2241	Residential	3	4	0.4	2.8	1.1	4.09	4.34	3.34	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3130	Residential	3	4	0.0	0.1	0.0	4.09	4.34	3.34	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2047	Residential	3	4	0.0	0.1	0.0	4.10	4.35	3.35	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2143	Residential	3	4	0.6	1.9	1.2	4.10	4.35	3.35	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3350	Commercial	10	4	0.2	1.2	0.2	4.11	4.36	3.36	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2127	Residential	3	4	0.3	3.4	1.1	4.11	4.36	3.36	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2060	Residential	3	4	0.3	2.0	0.6	4.12	4.37	3.37	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2056	Residential	3	4	0.3	2.2	0.7	4.12	4.37	3.37	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2046	Residential	3	4	0.1	4.6	0.3	4.12	4.37	3.37	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2000	Residential	3	4	0.0	9.8	0.4	4.13	4.38	3.38	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2196	Residential	3	4	0.6	2.0	1.2	4.13	4.38	3.38	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2386	Residential	3	4	0.5	2.9	1.5	4.13	4.38	3.38	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2219	Residential	3	4	0.1	9.3	0.9	4.14	4.39	3.39	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2037	Residential	3	4	0.5	3.2	1.6	4.14	4.39	3.39	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1986	Residential	3	4	0.0	15.3	0.3	4.14	4.39	3.39	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2054	Residential	3	4	0.2	1.7	0.3	4.14	4.39	3.39	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2005	Residential	3	4	0.0	6.7	0.2	4.15	4.40	3.40	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2163	Residential	3	4	0.5	2.5	1.1	4.15	4.40	3.40	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2001	Residential	3	4	0.2	1.3	0.2	4.16	4.41	3.41	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1981	Residential	3	4	0.1	0.1	0.0	4.16	4.41	3.41	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
950	Residential	3	4	1.7	2.3	3.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
969	Residential	3	4	0.5	17.6	8.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
976	Farm/Shop	2	4	2.4	4.0	9.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
982	Farm/Shop	2	4	2.0	4.2	8.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
993	Residential	3	4	2.7	3.1	8.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1197	Residential	3	4	0.5	2.9	1.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1973	Residential	3	4	1.6	2.8	4.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2011	Residential	3	4	1.0	1.8	1.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2019	Residential	3	4	0.1	1.6	0.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2022	Residential	3	4	0.3	1.5	0.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2023	Residential	3	4	1.0	1.8	1.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2038	Residential	3	4	0.9	1.8	1.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2055	Residential	3	4	0.9	2.0	1.7	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2057	Residential	3	4	1.5	2.7	4.0	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2059	Residential	3	4	0.3	1.3	0.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2069	Residential	3	4	0.9	2.2	1.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2075	Residential	3	4	1.5	2.6	3.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2084	Commercial	10	4	0.9	2.1	1.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2086	Residential	3	4	0.6	1.4	0.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2087	Residential	3	4	1.5	2.6	3.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2091	Residential	3	4	0.2	1.2	0.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2093	Residential	3	4	0.0	6.0	0.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2097	Commercial	10	4	1.0	2.0	1.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2100	Residential	3	4	0.5	1.1	0.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2101	Residential	3	4	1.5	2.5	3.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2114	Residential	3	4	1.0	1.9	1.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2116	Residential	3	4	0.5	1.2	0.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2132	Residential	3	4	1.4	2.6	3.7	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2133	Residential	3	4	0.6	2.2	1.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2134	Residential	3	4	0.6	1.2	0.7	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2136	Residential	3	4	0.4	1.3	0.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2145	Residential	3	4	1.0	1.9	1.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
2149	Residential	3	4	0.6	1.7	0.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2150	Residential	3	4	1.3	2.6	3.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2157	Residential	3	4	0.4	1.2	0.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2160	Residential	3	4	0.1	6.0	0.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2162	Residential	3	4	0.6	1.1	0.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2164	Residential	3	4	1.0	1.8	1.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2168	Residential	3	4	1.5	2.1	3.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2170	Residential	3	4	0.6	1.6	0.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2187	Residential	3	4	0.5	1.1	0.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2188	Residential	3	4	1.0	1.8	1.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2190	Commercial	10	4	1.7	1.9	3.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2192	Residential	3	4	0.6	1.6	0.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2197	Residential	3	4	0.7	1.2	0.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2236	Residential	3	4	0.5	1.6	0.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2237	Commercial	10	4	0.4	1.6	0.7	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2248	Residential	3	4	0.6	1.8	1.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2258	Residential	3	4	0.9	1.6	1.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2267	Residential	3	4	0.7	2.4	1.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2269	Residential	3	4	0.9	1.4	1.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2271	Residential	3	4	0.6	2.0	1.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2283	Residential	3	4	1.8	2.2	3.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2288	Residential	3	4	0.6	1.8	1.1	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2305	Residential	3	4	0.9	2.3	2.0	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2326	Residential	3	4	0.6	1.3	0.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2336	Residential	3	4	0.6	1.6	0.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2375	Residential	3	4	0.7	1.3	0.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2379	Residential	3	4	0.7	1.9	1.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2380	Residential	3	4	0.2	11.3	2.1	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2382	Commercial	10	4	0.7	1.5	1.0	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2388	Commercial	10	4	0.8	1.4	1.1	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2404	Residential	3	4	0.8	2.0	1.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2408	Commercial	10	4	0.5	3.2	1.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2417	Residential	3	4	1.0	2.2	2.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2418	Residential	3	4	0.7	1.7	1.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2429	Residential	3	4	1.1	1.9	2.1	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2430	Commercial	10	4	0.9	1.4	1.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2446	Residential	3	4	1.2	2.0	2.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2447	Residential	3	4	0.9	2.0	1.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2457	Residential	3	4	0.9	1.8	1.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2468	Residential	3	4	1.0	2.0	2.0	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2526	Residential	3	4	1.1	2.4	2.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2528	Commercial	10	4	0.1	16.1	1.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2531	Residential	3	4	1.1	2.4	2.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2541	Residential	3	4	1.0	2.3	2.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2544	Residential	3	4	1.0	2.6	2.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2555	Commercial	10	4	1.1	2.4	2.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2576	Residential	3	4	1.1	2.7	3.0	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2583	Residential	3	4	1.3	2.4	3.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2592	Residential	3	4	1.8	3.0	5.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2611	Residential	3	4	1.6	2.5	4.1	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2614	Residential	3	4	1.3	2.6	3.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2620	Residential	3	4	1.3	2.8	3.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2684	Residential	3	4	1.1	3.3	3.7	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2692	Commercial	10	4	1.0	2.8	2.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2693	Commercial	10	4	1.0	1.7	1.7	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2703	Commercial	10	4	1.0	1.9	1.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2714	Railroad	2	4	2.0	2.8	5.7	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
2719	Commercial	10	4	1.5	2.5	3.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2722	Commercial	10	4	1.2	2.0	2.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2727	Commercial	10	4	1.3	1.8	2.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2786	Commercial	10	4	1.4	2.3	3.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2788	Commercial	10	4	1.3	2.1	2.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2796	Commercial	10	4	1.4	2.3	3.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2805	Commercial	10	4	1.4	2.4	3.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2883	Commercial	10	4	1.1	2.5	2.7	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2906	Commercial	10	4	1.1	3.1	3.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2926	Commercial	10	4	0.9	2.4	2.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3075	Commercial	10	4	0.4	6.4	2.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3311	Commercial	10	4	3.7	2.1	7.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

													DSO-99-06 Methodology (USBR 1999)														RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted	Day Breach						Night Breach						Weighted
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life			LOL	Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			LOL
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
								Day	Night		Day	Night																									
3409	Residential	3	4	0.2	1.7	0.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3443	Commercial	10	4	4.2	2.4	9.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3783	Commercial	10	4	2.0	3.0	5.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3849	Residential	3	4	2.1	2.7	5.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3888	Residential	3	4	1.9	2.8	5.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3950	Commercial	10	4	1.4	2.2	3.1	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4015	mercial/Indus	10	4	1.9	2.2	4.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4107	Commercial	10	4	1.5	2.3	3.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4121	Commercial	10	4	1.1	2.9	3.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4215	Commercial	10	4	0.5	1.6	0.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4291	Commercial	10	4	0.5	1.7	0.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4358	Commercial	10	4	1.7	2.3	3.7	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4359	Commercial	10	4	1.9	2.6	5.0	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4360	Commercial	10	4	1.1	3.2	3.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4366	Commercial	10	4	1.1	1.9	2.0	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4370	Commercial	10	4	1.9	2.8	5.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4378	Residential	3	4	1.5	3.1	4.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4384	Commercial	10	4	3.1	0.7	2.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4400	Residential	3	4	1.9	3.9	7.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4402	Residential	3	4	1.0	6.7	6.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4411	Residential	3	4	0.3	1.2	0.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4417	Residential	3	4	1.7	2.9	4.9	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4427	Residential	3	4	0.4	1.2	0.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4428	Residential	3	4	0.8	2.7	2.2	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4441	Residential	3	4	0.4	1.3	0.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4443	Residential	3	4	0.3	14.6	3.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4447	Residential	3	4	0.5	6.1	2.8	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4452	Residential	3	4	0.4	1.4	0.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4459	Residential	3	4	0.6	2.2	1.4	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4463	Residential	3	4	0.2	2.0	0.5	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4473	Residential	3	4	0.4	1.5	0.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4494	Residential	3	4	0.4	1.6	0.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4512	Residential	3	4	0.5	1.1	0.6	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4539	Residential	3	4	1.7	1.8	3.1	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2146	Residential	3	4	0.6	2.2	1.3	4.17	4.42	3.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2088	Residential	3	4	0.2	1.1	0.2	4.18	4.43	3.43	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2253	Residential	3	4	0.6	1.5	1.0	4.19	4.44	3.44	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2364	Residential	3	4	0.6	1.6	1.0	4.19	4.44	3.44	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2542	Commercial	10	4	0.7	2.5	1.8	4.20	4.45	3.45	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2007	Residential	3	4	0.2	1.3	0.3	4.20	4.45	3.45	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2109	Residential	3	4	0.2	0.1	0.0	4.21	4.46	3.46	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4243	Commercial	10	4	0.2	3.0	0.7	4.21	4.46	3.46	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1954	Residential	3	4	0.3	0.1	0.0	4.22	4.47	3.47	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2383	Residential	3	4	0.7	2.3	1.6	4.23	4.48	3.48	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2050	Residential	3	4	0.0	0.1	0.0	4.24	4.49	3.49	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2275	Residential	3	4	0.5	1.6	0.8	4.24	4.49	3.49	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4522	Residential	3	4	0.1	13.2	1.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2106	Residential	3	4	0.3	1.1	0.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
882	Farm/Shop	2	4	0.4	2.6	1.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1112	Residential	3	4	0.8	2.7	2.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1149	Residential	3	4	0.2	5.2	1.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1153	Residential	3	4	0.2	5.3	0.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1154	Residential	3	4	0.4	2.6	1.1	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1168	Residential	3	4	0.9	1.6	1.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1206	Residential	3	4	0.9	1.5	1.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1207	Residential	3	4	0.9	1.1	1.1	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1931	Residential	3	4	0.2	2.1	0.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1968	Residential	3	4	0.2	1.5	0.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1999	Commercial	10	4	0.3	1.4	0.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2078	Residential	3	4	0.2	1.1	0.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2098	Residential	3	4	0.2	2.1	0.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2113	Residential	3	4	0.3	1.7	0.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2117	Residential	3	4	0.3	1.2	0.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2141	Residential	3	4	0.1	4.6	0.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2175	Residential	3	4	0.6	1.3	0.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2181	Residential	3	4	0.4	1.3	0.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2220	Residential	3	4	0.4	1.7	0.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2222	Residential	3	4	0.3	1.2	0.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2225	Residential	3	4	0.3	1.5	0.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
2226	Residential	3	4	0.6	1.1	0.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2227	Residential	3	4	1.8	2.2	4.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2233	Residential	3	4	1.5	2.0	3.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2239	Residential	3	4	0.4	0.9	0.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2240	Residential	3	4	1.0	1.7	1.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2249	Residential	3	4	1.5	2.2	3.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2250	Residential	3	4	0.3	1.8	0.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2254	Commercial	10	4	0.5	1.4	0.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2256	Residential	3	4	0.5	1.2	0.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2263	Residential	3	4	1.5	2.2	3.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2268	Residential	3	4	0.5	1.1	0.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2287	Residential	3	4	0.8	1.5	1.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2293	Residential	3	4	1.4	2.1	2.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2304	Residential	3	4	0.5	1.0	0.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2310	Residential	3	4	0.5	1.3	0.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2316	Residential	3	4	0.8	1.9	1.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2319	Residential	3	4	0.5	1.5	0.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2331	Commercial	10	4	1.1	2.9	3.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2340	Commercial	10	4	0.6	1.3	0.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2348	Commercial	10	4	0.6	1.4	0.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2349	Residential	3	4	0.7	2.3	1.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2351	Residential	3	4	0.7	1.7	1.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2353	Residential	3	4	0.5	1.2	0.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2355	Residential	3	4	0.7	4.0	3.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2371	Residential	3	4	0.7	3.6	2.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2376	Residential	3	4	0.4	1.6	0.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2385	Residential	3	4	1.0	1.8	1.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2431	Residential	3	4	0.6	1.7	0.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2434	Residential	3	4	1.0	1.7	1.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2435	Commercial	10	4	1.0	1.9	1.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2448	Residential	3	4	1.0	1.4	1.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2480	Residential	3	4	0.8	1.8	1.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2495	Residential	3	4	0.8	1.9	1.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2507	Residential	3	4	1.0	2.2	2.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2514	Commercial	10	4	3.4	1.6	5.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2559	Residential	3	4	1.2	2.4	3.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2573	Residential	3	4	1.6	3.3	5.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2575	Residential	3	4	1.1	1.7	1.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2618	Residential	3	4	2.2	2.6	5.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2668	Commercial	10	4	0.5	1.6	0.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2675	Commercial	10	4	1.0	2.3	2.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2685	Commercial	10	4	0.8	1.7	1.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2690	Commercial	10	4	0.7	1.8	1.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2733	Commercial	10	4	1.0	1.9	1.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2766	Residential	3	4	1.1	2.0	2.1	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2806	Commercial	10	4	1.3	2.3	3.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2823	Residential	3	4	1.0	2.6	2.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2837	Commercial	10	4	1.4	2.4	3.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2866	Commercial	10	4	1.1	2.5	2.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2917	Residential	3	4	0.9	2.6	2.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2942	Commercial	10	4	1.3	1.8	2.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2955	Commercial	10	4	1.3	1.9	2.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2957	Residential	3	4	0.8	2.6	2.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3027	Commercial	10	4	0.7	5.3	3.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3043	Residential	3	4	0.7	2.1	1.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3085	Residential	3	4	0.8	1.6	1.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3212	Commercial	10	4	0.6	1.2	0.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3469	Residential	3	4	0.4	2.9	1.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3472	Residential	3	4	0.4	2.8	1.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3474	Residential	3	4	0.4	3.1	1.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3487	Residential	3	4	0.7	2.4	1.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3537	Commercial	10	4	1.5	2.9	4.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3645	Residential	3	4	1.5	3.1	4.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3652	Residential	3	4	1.3	3.6	4.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3655	Commercial	10	4	2.5	2.7	6.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3657	Residential	3	4	1.6	3.3	5.1	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3679	Residential	3	4	2.3	2.8	6.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3682	Residential	3	4	2.5	2.6	6.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3686	Residential	3	4	2.8	2.4	6.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted	Day Breach					Night Breach					Weighted
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life			LOL	Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			LOL
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3719	Commercial	10	4	1.6	3.2	5.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3723	Commercial	10	4	1.4	3.4	4.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3755	Residential	3	4	1.5	3.1	4.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3792	Residential	3	4	1.1	3.5	3.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3797	Residential	3	4	1.4	3.0	4.1	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3805	Residential	3	4	1.7	2.7	4.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3818	Residential	3	4	2.2	2.7	5.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3830	Residential	3	4	1.3	3.0	4.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3832	Residential	3	4	1.8	2.7	4.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3838	Residential	3	4	1.5	2.7	4.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3845	Residential	3	4	2.1	2.7	5.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3847	Residential	3	4	1.6	2.7	4.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3853	Residential	3	4	1.7	2.6	4.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3861	Residential	3	4	2.3	2.8	6.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3862	Residential	3	4	2.0	2.7	5.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3868	Residential	3	4	2.0	2.9	5.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3876	Residential	3	4	2.0	3.0	6.1	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3880	Residential	3	4	1.4	3.1	4.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3886	Residential	3	4	1.3	3.2	4.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3895	Residential	3	4	1.4	3.2	4.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3924	Residential	3	4	1.6	3.1	4.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3926	Residential	3	4	1.7	2.8	4.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3934	Residential	3	4	1.8	2.5	4.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3942	Residential	3	4	1.7	2.6	4.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3951	Residential	3	4	1.5	2.7	3.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3957	Residential	3	4	1.6	2.7	4.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3961	Residential	3	4	1.3	2.8	3.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3967	Residential	3	4	1.6	2.7	4.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3969	Residential	3	4	1.3	3.5	4.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3977	Residential	3	4	1.4	2.8	3.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3978	Residential	3	4	1.4	3.2	4.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3983	Residential	3	4	1.3	2.8	3.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3984	Residential	3	4	1.4	3.2	4.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3990	Residential	3	4	1.1	3.1	3.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3993	Residential	3	4	1.4	3.0	4.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4006	Commercial	10	4	1.3	2.9	3.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4014	Commercial	10	4	1.3	2.9	3.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4022	Commercial	10	4	1.3	2.7	3.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4023	Residential	3	4	1.4	2.3	3.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4034	Commercial	10	4	1.4	3.2	4.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4048	Commercial	10	4	1.2	3.0	3.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4088	Commercial	10	4	1.3	2.5	3.1	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4090	Commercial	10	4	0.6	3.1	1.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4097	Commercial	10	4	0.5	4.1	1.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4123	Commercial	10	4	0.6	2.6	1.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4214	Residential	3	4	0.3	2.6	0.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4217	Residential	3	4	0.3	3.6	0.9	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4248	Commercial	10	4	0.2	4.3	1.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4269	Commercial	10	4	0.9	2.4	2.1	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4316	Commercial	10	4	0.9	2.1	2.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4338	Commercial	10	4	0.6	3.9	2.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4368	Commercial	10	4	3.0	3.3	9.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4372	Commercial	10	4	0.7	2.5	1.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4374	Commercial	10	4	3.7	2.3	8.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4381	Commercial	10	4	2.1	3.6	7.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4388	Commercial	10	4	1.4	2.3	3.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4433	Residential	3	4	0.4	1.2	0.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4445	Residential	3	4	0.5	1.1	0.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4448	Residential	3	4	0.6	1.2	0.7	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4456	Residential	3	4	1.5	4.7	7.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4457	Residential	3	4	0.5	1.2	0.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4466	Residential	3	4	0.4	1.4	0.6	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4475	Residential	3	4	0.3	1.8	0.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4479	Residential	3	4	1.3	3.8	5.1	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4485	Residential	3	4	0.2	1.7	0.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4499	Residential	3	4	1.8	3.2	5.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4541	Residential	3	4	1.6	1.4	2.3	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4543	Residential	3	4	0.3	1.3	0.4	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4545	Residential	3	4	0.9	3.7	3.5	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
4569	Residential	3	4	1.6	1.1	1.8	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4600	Commercial	10	4	1.0	2.9	3.0	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4609	Residential	3	4	1.1	2.1	2.2	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1143	Residential	3	4	0.5	2.2	1.1	4.25	4.50	3.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2014	Residential	3	4	0.0	0.1	0.0	4.26	4.51	3.51	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4502	Residential	3	4	0.8	2.4	1.9	4.27	4.52	3.52	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2453	Commercial	10	4	0.9	2.2	2.1	4.27	4.52	3.52	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4361	Commercial	10	4	0.6	3.1	1.7	4.27	4.52	3.52	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2199	Residential	3	4	0.3	1.7	0.4	4.28	4.53	3.53	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3466	Residential	3	4	0.4	2.4	0.9	4.28	4.53	3.53	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2184	Commercial	10	4	0.2	1.3	0.3	4.29	4.54	3.54	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2123	Residential	3	4	0.2	0.1	0.0	4.30	4.55	3.55	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2018	Residential	3	4	0.0	0.1	0.0	4.30	4.55	3.55	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4371	Commercial	10	4	0.7	1.8	1.2	4.30	4.55	3.55	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3484	Residential	3	4	0.5	2.8	1.5	4.31	4.56	3.56	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2367	Residential	3	4	0.6	1.4	0.8	4.31	4.56	3.56	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2073	Residential	3	4	0.2	2.3	0.4	4.31	4.56	3.56	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2300	Residential	3	4	0.4	1.5	0.6	4.32	4.57	3.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4207	Residential	3	4	0.4	1.9	0.8	4.32	4.57	3.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1151	Farm/Shop	2	4	0.1	10.8	0.8	4.32	4.57	3.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
4228	Commercial	10	4	0.4	4.9	1.9	4.32	4.57	3.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1213	Residential	3	4	0.6	1.9	1.0	4.32	4.57	3.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4149	Commercial	10	4	0.2	5.9	1.1	4.32	4.57	3.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1147	Residential	3	4	0.1	13.5	1.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2102	Residential	3	4	0.3	1.0	0.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1008	Residential	3	4	0.4	0.2	0.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1093	Residential	3	4	0.8	3.3	2.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1132	Residential	3	4	0.5	3.5	1.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1160	Farm/Shop	2	4	0.9	1.4	1.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1177	Residential	3	4	1.3	1.4	1.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1190	Residential	3	4	0.5	2.8	1.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1196	Residential	3	4	0.4	2.8	1.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1222	Residential	3	4	1.1	0.9	1.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1930	Residential	3	4	0.2	1.7	0.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2027	Residential	3	4	0.0	15.0	0.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2061	Residential	3	4	0.1	1.4	0.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2079	Residential	3	4	0.1	1.9	0.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2085	Residential	3	4	0.3	1.6	0.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2121	Residential	3	4	0.2	1.8	0.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2129	Residential	3	4	0.5	1.2	0.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2201	Residential	3	4	0.3	1.2	0.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2203	Residential	3	4	0.5	1.1	0.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2204	Commercial	10	4	1.0	1.5	1.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2274	Residential	3	4	0.3	1.8	0.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2279	Residential	3	4	0.3	1.5	0.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2282	Residential	3	4	0.4	1.2	0.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2284	Residential	3	4	0.4	1.4	0.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2299	Residential	3	4	0.6	0.7	0.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2306	Residential	3	4	0.8	0.6	0.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2328	Residential	3	4	0.4	1.4	0.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2334	Residential	3	4	0.8	0.8	0.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2345	Residential	3	4	0.9	0.8	0.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2358	Residential	3	4	0.2	1.7	0.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2369	Residential	3	4	0.9	2.0	1.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2374	Residential	3	4	0.5	0.8	0.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2378	Residential	3	4	0.6	0.7	0.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2389	Commercial	10	4	0.9	2.9	2.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2393	Residential	3	4	0.4	1.6	0.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2406	Residential	3	4	0.9	1.9	1.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2413	Residential	3	4	0.6	1.5	0.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2424	Commercial	10	4	0.8	1.6	1.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2439	Commercial	10	4	0.9	2.0	1.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2444	Residential	3	4	1.3	2.1	2.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2472	Residential	3	4	0.7	3.8	2.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2486	Residential	3	4	0.9	2.0	1.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2491	Residential	3	4	1.0	2.4	2.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2501	Residential	3	4	1.0	2.0	1.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2511	Residential	3	4	0.8	3.7	3.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2519	Commercial	10	4	0.9	2.9	2.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
2537	Residential	3	4	1.1	2.8	3.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2551	Residential	3	4	1.4	3.1	4.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2604	Residential	3	4	2.0	2.8	5.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2677	Commercial	10	4	0.7	1.9	1.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2710	Residential	3	4	0.5	2.0	1.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2736	Commercial	10	4	1.1	1.8	2.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2739	Residential	3	4	0.7	1.6	1.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2790	Residential	3	4	0.8	2.3	1.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2818	Commercial	10	4	1.4	2.3	3.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2825	Commercial	10	4	1.4	2.4	3.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2834	Residential	3	4	0.8	2.3	1.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2836	Residential	3	4	1.2	2.2	2.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2867	Residential	3	4	1.0	2.7	2.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2873	Residential	3	4	1.0	2.8	2.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2881	Residential	3	4	1.0	2.8	2.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2913	Residential	3	4	1.0	2.4	2.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2925	Residential	3	4	1.2	2.1	2.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2979	Residential	3	4	1.1	2.4	2.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2980	Commercial	10	4	0.9	2.3	2.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3008	Residential	3	4	0.8	2.6	2.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3030	Residential	3	4	0.9	2.0	1.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3041	Commercial	10	4	0.8	1.9	1.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3065	Residential	3	4	0.9	2.1	1.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3102	Commercial	10	4	0.6	1.9	1.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3106	Commercial	10	4	0.7	1.4	1.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3114	Residential	3	4	0.7	1.7	1.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3132	Commercial	10	4	0.5	1.6	0.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3140	Residential	3	4	0.8	1.9	1.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3179	Residential	3	4	0.7	1.6	1.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3278	Residential	3	4	1.0	0.7	0.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3414	Residential	3	4	0.2	1.5	0.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3425	Residential	3	4	0.2	1.5	0.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3450	Commercial	10	4	0.3	4.1	1.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3454	Commercial	10	4	0.2	3.1	0.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3459	Commercial	10	4	0.2	4.5	0.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3461	Residential	3	4	0.0	10.8	0.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3470	Residential	3	4	0.2	3.1	0.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3497	Commercial	10	4	0.7	2.7	1.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3512	Residential	3	4	0.9	1.6	1.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3516	Commercial	10	4	0.8	1.8	1.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3573	Commercial	10	4	1.2	3.2	3.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3585	Church	30	4	1.3	3.0	4.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.018	0.009	0	0.0006	0.0003	0	0.018	0.009	0.009	0.00000	0.00020	0.00000	0.00600	0.00300	0.00000	0.00020	0.00000	0.00600	0.00300	0.0030
3589	Commercial	10	4	1.2	3.3	3.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3607	Residential	3	4	1.8	2.3	4.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3610	Residential	3	4	1.9	2.4	4.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3611	Commercial	10	4	1.2	3.3	3.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3615	Residential	3	4	1.6	2.5	4.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3616	Residential	3	4	1.8	2.6	4.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3658	Commercial	10	4	1.5	4.0	5.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3663	Residential	3	4	1.7	3.2	5.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3670	Residential	3	4	2.0	3.0	5.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3671	Residential	3	4	1.8	2.9	5.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3680	Residential	3	4	1.9	2.7	5.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3697	Residential	3	4	1.7	3.1	5.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3700	Residential	3	4	1.6	2.9	4.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3702	Residential	3	4	1.9	2.8	5.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3706	Residential	3	4	1.7	3.2	5.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3709	Residential	3	4	2.0	2.8	5.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3712	Residential	3	4	1.6	3.3	5.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3731	Residential	3	4	2.0	2.9	5.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3735	Commercial	10	4	1.3	3.6	4.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3740	Residential	3	4	1.1	4.5	4.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3741	Residential	3	4	2.0	2.8	5.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3752	Residential	3	4	2.0	2.8	5.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3759	Residential	3	4	1.4	3.1	4.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3765	Residential	3	4	2.1	2.7	5.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3774	Residential	3	4	1.6	2.9	4.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3776	Residential	3	4	2.0	2.8	5.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3784	Commercial	10	4	1.3	3.0	4.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3785	Residential	3	4	2.0	2.9	5.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3796	Residential	3	4	1.9	2.9	5.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3798	Residential	3	4	1.6	2.9	4.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3819	Residential	3	4	1.3	3.1	4.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3822	Residential	3	4	1.5	2.9	4.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3823	Commercial	10	4	1.6	3.3	5.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3829	Commercial	10	4	1.7	3.3	5.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3834	Commercial	10	4	1.8	3.2	5.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3843	Residential	3	4	1.7	3.3	5.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3850	Residential	3	4	1.6	3.4	5.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3855	Residential	3	4	1.6	3.3	5.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3857	Commercial	10	4	1.5	3.6	5.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3859	Commercial	10	4	1.4	3.4	4.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3866	Residential	3	4	1.5	3.7	5.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3869	Commercial	10	4	1.6	3.6	5.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3872	Residential	3	4	1.3	3.2	4.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3884	Residential	3	4	1.6	3.5	5.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3892	Residential	3	4	1.5	3.6	5.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3897	Residential	3	4	1.4	3.8	5.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3899	Residential	3	4	1.4	3.8	5.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3900	Residential	3	4	1.5	3.1	4.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3903	Residential	3	4	1.4	3.6	5.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3912	Residential	3	4	1.4	3.6	5.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3913	Residential	3	4	1.5	3.2	4.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3918	Residential	3	4	1.3	3.7	4.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3919	Residential	3	4	1.4	3.4	4.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3920	Residential	3	4	1.3	3.5	4.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3922	Residential	3	4	1.6	3.7	5.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3932	Residential	3	4	1.3	3.6	4.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3940	Residential	3	4	1.4	3.4	4.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3943	Commercial	10	4	1.5	4.0	6.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3948	Residential	3	4	1.4	3.4	4.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3956	Commercial	10	4	1.6	3.8	6.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3959	Residential	3	4	1.4	3.4	4.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3960	Residential	3	4	1.4	3.3	4.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3964	Commercial	10	4	1.5	3.8	5.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3971	Residential	3	4	1.5	3.7	5.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3974	Commercial	10	4	1.6	3.6	5.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3994	Residential	3	4	1.5	3.4	5.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4000	Residential	3	4	1.5	3.5	5.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4002	Residential	3	4	1.6	3.5	5.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4011	Residential	3	4	1.7	3.5	6.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4013	Residential	3	4	2.0	3.1	6.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4019	Residential	3	4	1.8	3.3	5.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4020	Residential	3	4	1.5	3.2	4.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4025	Commercial	10	4	1.5	3.0	4.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4028	Residential	3	4	1.7	3.4	5.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4030	Commercial	10	4	1.2	2.7	3.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4033	Commercial	10	4	1.7	3.3	5.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4040	Commercial	10	4	1.6	3.2	5.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4044	Residential	3	4	1.8	3.1	5.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4046	Commercial	10	4	1.5	3.3	5.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4049	Commercial	10	4	1.3	3.1	4.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4052	Commercial	10	4	1.5	3.1	4.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4056	Residential	3	4	1.4	3.1	4.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4067	Commercial	10	4	1.5	2.7	4.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4071	Residential	3	4	1.5	2.6	3.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4072	Residential	3	4	1.4	2.6	3.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4077	Commercial	10	4	1.4	2.5	3.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4082	Residential	3	4	1.7	2.9	4.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4092	Residential	3	4	1.6	3.0	4.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4094	Residential	3	4	1.3	2.4	3.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4096	Residential	3	4	1.1	2.6	2.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4099	Commercial	10	4	1.5	3.0	4.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4100	Commercial	10	4	0.3	6.6	1.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4102	Residential	3	4	1.6	3.2	5.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4103	Commercial	10	4	1.1	2.4	2.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4106	Residential	3	4	1.5	2.7	4.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4110	Residential	3	4	0.9	2.6	2.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)										
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach				Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
4119	Commercial	10	4	1.3	2.6	3.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4127	Commercial	10	4	0.5	3.0	1.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4130	Residential	3	4	1.2	2.4	2.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4139	Commercial	10	4	0.5	2.4	1.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4145	Residential	3	4	1.0	2.0	2.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4150	Commercial	10	4	1.2	3.0	3.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4152	Residential	3	4	1.0	1.9	1.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4162	Residential	3	4	0.9	1.9	1.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4163	Commercial	10	4	1.2	2.7	3.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4167	Residential	3	4	0.8	1.8	1.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4168	Residential	3	4	1.5	2.9	4.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4178	Residential	3	4	0.6	1.9	1.1	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4188	Residential	3	4	1.0	1.9	1.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4191	Commercial	10	4	0.5	2.0	0.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4194	Commercial	10	4	1.0	1.7	1.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4204	Residential	3	4	0.6	1.6	1.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4224	Commercial	10	4	0.6	1.3	0.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4255	Residential	3	4	0.3	1.6	0.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4259	Residential	3	4	0.6	1.5	0.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4347	Commercial	10	4	0.9	1.4	1.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4355	Commercial	10	4	0.4	6.8	2.7	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4422	Commercial	10	4	0.1	2.9	0.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4424	Residential	3	4	0.4	1.4	0.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4434	Residential	3	4	0.5	1.3	0.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4438	Residential	3	4	1.6	3.5	5.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4451	Residential	3	4	0.2	1.8	0.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4478	Residential	3	4	0.4	1.6	0.6	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4491	Commercial	10	4	0.5	1.0	0.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4495	Residential	3	4	0.2	1.4	0.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4504	Residential	3	4	0.2	1.4	0.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4514	Residential	3	4	0.2	1.6	0.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4529	Residential	3	4	0.1	2.7	0.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4532	Residential	3	4	0.1	3.0	0.2	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4559	Residential	3	4	0.5	3.0	1.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4571	Residential	3	4	0.2	1.4	0.3	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4576	Residential	3	4	0.8	2.4	1.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4586	Residential	3	4	1.0	2.4	2.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4587	Residential	3	4	0.9	3.0	2.8	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4618	Residential	3	4	0.7	3.4	2.4	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4620	Residential	3	4	0.5	5.3	2.5	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4649	Residential	3	4	1.4	2.7	3.9	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4652	Residential	3	4	0.6	1.7	1.0	4.33	4.58	3.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1218	Residential	3	4	0.5	2.0	1.1	4.34	4.59	3.59	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3256	Commercial	10	4	0.3	1.1	0.4	4.34	4.59	3.59	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3481	Commercial	10	4	0.4	2.8	1.0	4.34	4.59	3.59	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1012	Residential	3	4	0.1	1.6	0.2	4.34	4.59	3.59	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2321	Residential	3	4	0.4	0.9	0.4	4.34	4.59	3.59	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3507	Residential	3	4	0.7	2.3	1.7	4.34	4.59	3.59	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2257	Commercial	10	4	0.4	1.0	0.4	4.34	4.59	3.59	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2410	Residential	3	4	0.5	1.7	0.9	4.35	4.60	3.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3446	Commercial	10	4	0.0	27.4	0.4	4.35	4.60	3.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3789	Residential	3	4	1.2	3.3	3.9	4.35	4.60	3.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4229	Residential	3	4	0.6	1.4	0.9	4.36	4.61	3.61	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3158	Commercial	10	4	0.5	1.6	0.8	4.36	4.61	3.61	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3488	Residential	3	4	0.3	2.8	0.8	4.36	4.61	3.61	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2063	Residential	3	4	0.1	1.3	0.1	4.37	4.62	3.62	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1971	Residential	3	4	0.1	3.5	0.3	4.37	4.62	3.62	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4278	Residential	3	4	0.3	1.4	0.4	4.37	4.62	3.62	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3317	Commercial	10	4	0.5	1.5	0.7	4.38	4.63	3.63	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2307	Residential	3	4	0.4	1.1	0.4	4.38	4.63	3.63	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3745	Residential	3	4	0.6	7.7	4.4	4.38	4.63	3.63	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4199	Residential	3	4	0.4	1.9	0.8	4.39	4.64	3.64	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2469	Residential	3	4	1.0	2.1	2.1	4.39	4.64	3.64	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4462	Residential	3	4	0.1	2.1	0.2	4.40	4.65	3.65	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2339	Residential	3	4	0.2	1.4	0.3	4.40	4.65	3.65	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1966	Residential	3	4	0.1	2.2	0.3	4.41	4.66	3.66	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4337	Commercial	10	4	0.4	1.6	0.7	4.41	4.66	3.66	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4294	Residential	3	4	0.1	0.1	0.0	4.41	4.66	3.66	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1001	Residential	3	4	0.2	1.5	0.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1035	Residential	3	4	0.1	0.1	0.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1041	Residential	3	4	2.3	3.3	7.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1163	Residential	3	4	0.4	5.4	2.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1165	Farm/Shop	2	4	1.0	1.9	1.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1171	Residential	3	4	1.1	1.6	1.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1201	Residential	3	4	0.7	2.8	1.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1951	Residential	3	4	0.2	0.1	0.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1969	Residential	3	4	0.1	3.3	0.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1977	Residential	3	4	0.2	1.5	0.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2028	Residential	3	4	0.2	1.8	0.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2152	Commercial	10	4	0.3	1.1	0.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2276	Residential	3	4	0.3	1.4	0.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2285	Residential	3	4	0.4	1.0	0.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2289	Residential	3	4	0.3	1.7	0.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2297	Residential	3	4	0.5	0.8	0.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2322	Residential	3	4	0.5	0.8	0.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2324	Residential	3	4	0.6	0.7	0.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2327	Residential	3	4	0.7	0.7	0.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2335	Residential	3	4	0.4	1.2	0.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2341	Residential	3	4	0.2	2.2	0.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2344	Residential	3	4	0.2	1.7	0.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2363	Residential	3	4	0.2	1.5	0.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2372	Residential	3	4	0.3	1.2	0.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2405	Commercial	10	4	0.1	2.0	0.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2585	Residential	3	4	1.5	2.6	3.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2599	Commercial	10	4	2.3	0.1	0.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2621	Residential	3	4	0.2	1.3	0.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2651	Residential	3	4	0.2	1.4	0.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2666	Commercial	10	4	0.6	1.9	1.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2712	Residential	3	4	0.4	1.4	0.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2715	Commercial	10	4	1.0	1.9	2.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2718	Residential	3	4	0.4	1.7	0.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2747	Residential	3	4	0.7	2.0	1.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2750	Residential	3	4	0.9	1.8	1.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2752	Commercial	10	4	1.2	2.1	2.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2757	Church	30	4	0.9	2.0	1.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.018	0.009	0	0.0006	0.0003	0	0.018	0.009	0.009	0.00000	0.00020	0.00000	0.00600	0.00300	0.00000	0.00020	0.00000	0.00600	0.00300	0.0030
2761	Residential	3	4	0.4	2.4	1.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2800	Residential	3	4	0.9	2.2	1.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2807	Residential	3	4	0.9	2.4	2.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2815	Residential	3	4	1.0	2.4	2.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2839	Residential	3	4	0.8	2.5	2.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2853	Residential	3	4	0.9	2.7	2.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2858	Residential	3	4	1.0	2.7	2.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2886	Residential	3	4	0.9	2.0	1.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2893	Residential	3	4	1.1	2.6	2.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2898	Residential	3	4	1.1	1.9	2.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2939	Residential	3	4	1.2	2.1	2.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2963	Residential	3	4	1.1	2.4	2.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2990	Commercial	10	4	1.2	2.1	2.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2994	Residential	3	4	1.1	2.3	2.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3006	Residential	3	4	1.3	1.9	2.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3032	Residential	3	4	1.2	2.0	2.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3046	Residential	3	4	1.1	2.0	2.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3073	Residential	3	4	0.7	1.8	1.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3088	Residential	3	4	0.8	1.9	1.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3099	Residential	3	4	1.1	1.9	2.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3126	Commercial	10	4	0.6	1.8	1.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3155	Residential	3	4	0.7	2.0	1.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3201	Residential	3	4	0.8	1.5	1.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3232	Residential	3	4	0.7	1.6	1.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3246	Commercial	10	4	0.5	1.4	0.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3274	Residential	3	4	0.4	1.7	0.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3312	Residential	3	4	0.8	1.1	1.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3478	Residential	3	4	0.2	4.1	0.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3480	Residential	3	4	0.5	2.5	1.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3504	Commercial	10	4	0.6	2.9	1.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3510	Residential	3	4	0.8	2.1	1.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3521	Residential	3	4	1.0	1.5	1.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3526	Residential	3	4	1.0	1.6	1.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted	Day Breach					Night Breach					Weighted
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life			LOL	Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			LOL
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3530	Residential	3	4	1.1	1.5	1.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3533	Commercial	10	4	0.9	1.9	1.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3535	Commercial	10	4	0.6	2.6	1.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3623	Residential	3	4	1.5	2.7	3.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3637	Residential	3	4	1.4	2.8	3.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3642	Residential	3	4	1.3	2.8	3.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3643	Residential	3	4	1.0	1.9	1.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3651	Residential	3	4	1.2	2.9	3.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3659	Residential	3	4	1.1	3.1	3.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3668	Residential	3	4	1.2	2.8	3.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3678	Residential	3	4	1.2	2.7	3.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3687	Residential	3	4	1.4	2.3	3.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3692	Residential	3	4	1.3	2.4	3.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3693	Residential	3	4	1.3	2.5	3.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3707	Residential	3	4	1.2	2.3	2.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3710	Residential	3	4	1.4	3.1	4.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3718	Residential	3	4	1.3	3.1	4.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3727	Residential	3	4	1.2	3.1	3.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3737	Residential	3	4	1.2	3.0	3.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3761	Residential	3	4	1.7	3.0	5.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3763	Commercial	10	4	1.1	2.8	3.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3769	Residential	3	4	1.2	2.8	3.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3777	Residential	3	4	1.2	3.1	3.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3782	Residential	3	4	1.2	3.2	4.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3787	Residential	3	4	1.3	3.3	4.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3794	Commercial	10	4	1.3	3.3	4.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3801	Residential	3	4	1.2	3.0	3.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3804	Residential	3	4	1.5	3.2	4.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3810	Residential	3	4	1.1	3.2	3.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3811	Commercial	10	4	1.5	3.3	5.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3824	Commercial	10	4	1.4	3.2	4.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3825	Residential	3	4	1.4	2.9	4.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3836	Commercial	10	4	1.3	3.5	4.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3837	Residential	3	4	0.8	3.6	2.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3852	Commercial	10	4	1.4	3.6	4.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3863	Residential	3	4	1.4	3.3	4.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3871	Residential	3	4	1.3	3.4	4.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3877	Commercial	10	4	1.5	3.7	5.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3887	Commercial	10	4	1.5	3.6	5.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3904	Residential	3	4	1.7	3.3	5.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3905	Residential	3	4	1.6	3.4	5.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3906	Residential	3	4	1.7	3.4	5.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3917	Residential	3	4	1.6	3.5	5.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3931	Residential	3	4	1.6	3.7	6.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3945	Residential	3	4	1.7	3.7	6.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3970	Residential	3	4	1.9	3.3	6.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3985	Commercial	10	4	1.8	3.4	6.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3987	Residential	3	4	1.9	3.5	6.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3999	Residential	3	4	1.8	3.4	6.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4012	Residential	3	4	1.8	3.1	5.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4016	Residential	3	4	1.7	3.9	6.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4038	Residential	3	4	2.0	3.3	6.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4042	Residential	3	4	1.5	4.0	5.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4050	Residential	3	4	1.7	3.2	5.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4054	Residential	3	4	2.1	3.4	7.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4063	Residential	3	4	1.8	3.0	5.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4069	Residential	3	4	1.9	3.2	6.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4070	Residential	3	4	2.2	3.3	7.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4074	Residential	3	4	2.0	3.4	6.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4075	Residential	3	4	1.8	3.0	5.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4080	Residential	3	4	1.7	3.0	5.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4085	Residential	3	4	2.1	3.3	6.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4089	Residential	3	4	2.1	3.3	6.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4101	Residential	3	4	1.2	4.0	4.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4109	Residential	3	4	1.8	3.5	6.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4111	Residential	3	4	1.9	3.1	5.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4112	Residential	3	4	1.4	2.7	3.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4113	Residential	3	4	2.1	3.2	6.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4122	Residential	3	4	1.1	4.4	5.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
4129	Residential	3	4	1.8	2.9	5.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4132	Commercial	10	4	1.5	3.0	4.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4133	Residential	3	4	1.5	3.2	4.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4135	Residential	3	4	1.5	3.2	5.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4138	Residential	3	4	2.1	3.1	6.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4141	Residential	3	4	1.1	2.1	2.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4142	Commercial	10	4	1.4	2.9	4.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4144	Residential	3	4	1.2	4.4	5.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4153	Residential	3	4	1.6	3.1	5.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4155	Residential	3	4	1.4	3.6	5.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4164	Residential	3	4	2.1	3.0	6.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4171	Commercial	10	4	1.1	2.6	2.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4173	Residential	3	4	0.7	1.8	1.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4174	Residential	3	4	1.7	3.1	5.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4182	Residential	3	4	1.4	3.8	5.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4185	Residential	3	4	1.6	3.1	5.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4186	Residential	3	4	1.9	3.1	6.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4187	Residential	3	4	1.7	2.6	4.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4193	Residential	3	4	1.6	3.3	5.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4195	Residential	3	4	1.8	2.8	5.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4202	Commercial	10	4	0.9	1.5	1.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4206	Residential	3	4	1.6	3.0	4.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4209	Residential	3	4	1.9	3.0	5.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4211	Commercial	10	4	0.8	1.4	1.1	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4219	Residential	3	4	1.9	2.5	4.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4221	Residential	3	4	2.0	2.5	5.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4232	Commercial	10	4	0.5	1.5	0.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4241	Residential	3	4	0.6	2.1	1.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4242	Residential	3	4	1.6	3.0	5.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4257	Residential	3	4	0.1	8.6	0.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4261	Residential	3	4	0.5	2.1	1.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4265	Residential	3	4	1.3	3.8	5.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4275	Residential	3	4	0.3	1.7	0.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4282	Commercial	10	4	0.2	2.6	0.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4289	Residential	3	4	0.3	1.7	0.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4305	Residential	3	4	0.2	1.7	0.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4309	Residential	3	4	0.0	0.1	0.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4312	Residential	3	4	0.0	0.1	0.0	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4365	Residential	3	4	0.8	2.3	1.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4376	Commercial	10	4	19.5	0.3	6.7	4.42	4.67	3.67	MEDIUM	Adequate	Adequate	0.005	0.06	0.03	0.05	0.6	0.3	0.005	0.06	0.03	0.05	0.6	0.3	0.3	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4412	Residential	3	4	0.3	2.0	0.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4418	Residential	3	4	0.3	1.7	0.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4430	Residential	3	4	0.5	0.9	0.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4435	Commercial	10	4	1.3	5.7	7.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4440	Residential	3	4	0.3	1.4	0.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4489	Residential	3	4	0.3	1.6	0.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4497	Residential	3	4	0.3	1.5	0.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4503	Residential	3	4	2.0	3.3	6.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4509	Residential	3	4	0.2	1.6	0.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4516	Residential	3	4	0.1	2.0	0.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4524	Residential	3	4	1.5	3.8	5.9	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4526	Residential	3	4	0.1	4.1	0.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4530	Residential	3	4	0.5	1.0	0.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4536	Residential	3	4	2.2	3.4	7.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4542	Residential	3	4	0.3	1.0	0.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4563	Residential	3	4	1.3	2.9	3.8	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4593	Residential	3	4	1.6	2.2	3.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4617	Commercial	10	4	0.6	3.8	2.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4622	Residential	3	4	0.3	10.1	3.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4635	Commercial	10	4	1.4	1.7	2.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4640	Residential	3	4	0.4	3.4	1.4	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4651	Commercial	10	4	0.8	2.7	2.3	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4655	Residential	3	4	1.3	2.5	3.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4674	Commercial	10	4	0.5	5.4	2.5	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4676	Residential	3	4	1.9	1.1	2.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4728	Residential	3	4	2.7	1.8	4.7	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4756	Residential	3	4	0.6	4.6	2.6	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2346	Residential	3	4	0.1	3.1	0.2	4.42	4.67	3.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3440	Commercial	10	4	0.1	4.0	0.2	4.43	4.68	3.68	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3351	Residential	3	4	0.6	1.2	0.7	4.43	4.68	3.68	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4226	Residential	3	4	0.1	0.1	0.0	4.43	4.68	3.68	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3399	Commercial	10	4	0.4	0.1	0.0	4.44	4.69	3.69	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3449	Residential	3	4	0.1	8.1	0.6	4.44	4.69	3.69	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3482	Residential	3	4	0.5	2.5	1.4	4.44	4.69	3.69	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3493	Residential	3	4	0.3	2.8	0.8	4.44	4.69	3.69	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3441	Commercial	10	4	0.0	65.9	3.2	4.45	4.70	3.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4555	Residential	3	4	0.3	1.0	0.3	4.45	4.70	3.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2229	Residential	3	4	0.1	0.1	0.0	4.45	4.70	3.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4515	Residential	3	4	0.9	3.5	3.2	4.45	4.70	3.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2705	Residential	3	4	0.4	2.0	0.8	4.45	4.70	3.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2609	Commercial	10	4	0.1	3.3	0.2	4.47	4.72	3.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1956	Commercial	10	4	0.0	0.1	0.0	4.47	4.72	3.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4210	Residential	3	4	0.1	0.1	0.0	4.47	4.72	3.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4349	Residential	3	4	0.3	7.8	2.0	4.47	4.72	3.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4251	Commercial	10	4	0.3	0.1	0.0	4.47	4.72	3.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3139	Residential	3	4	0.6	1.7	0.9	4.47	4.72	3.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3820	Residential	3	4	0.5	4.2	2.2	4.47	4.72	3.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4313	Residential	3	4	0.0	11.6	0.2	4.47	4.72	3.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2264	Residential	3	4	0.3	2.0	0.5	4.48	4.73	3.73	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3625	Residential	3	4	0.9	1.7	1.5	4.48	4.73	3.73	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4537	Residential	3	4	0.0	0.1	0.0	4.48	4.73	3.73	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2309	Residential	3	4	0.4	1.2	0.4	4.48	4.73	3.73	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4407	Residential	3	4	0.4	1.8	0.7	4.48	4.73	3.73	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4272	Residential	3	4	0.2	5.4	1.1	4.48	4.73	3.73	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2930	Residential	3	4	0.8	2.8	2.3	4.48	4.73	3.73	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1974	Residential	3	4	0.2	1.2	0.3	4.49	4.74	3.74	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3494	Residential	3	4	0.2	0.1	0.0	4.49	4.74	3.74	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2828	Residential	3	4	0.6	2.7	1.7	4.49	4.74	3.74	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2708	Residential	3	4	0.2	2.0	0.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4274	Residential	3	4	0.1	0.1	0.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4290	Residential	3	4	0.1	0.1	0.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2294	Residential	3	4	0.4	1.3	0.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2301	Residential	3	4	0.3	0.8	0.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2312	Residential	3	4	0.2	2.1	0.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2407	mmercial/Indus	10	4	0.1	2.3	0.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2624	Residential	3	4	0.1	4.1	0.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2632	Residential	3	4	0.0	7.6	0.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2639	Commercial	10	4	0.7	0.9	0.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2672	Commercial	10	4	0.2	2.2	0.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2716	Residential	3	4	0.6	2.1	1.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2774	Residential	3	4	0.5	2.4	1.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2779	Residential	3	4	0.5	2.0	0.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2781	Residential	3	4	0.6	2.4	1.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2813	Residential	3	4	0.6	2.5	1.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2819	Residential	3	4	0.7	2.3	1.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2857	Residential	3	4	0.9	1.7	1.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2869	Residential	3	4	0.9	1.4	1.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2870	Residential	3	4	0.9	2.0	1.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2897	Residential	3	4	1.0	1.5	1.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2908	Residential	3	4	1.2	1.9	2.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2916	Residential	3	4	0.4	4.2	1.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2959	Residential	3	4	0.7	2.8	2.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2975	Residential	3	4	1.1	2.1	2.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3091	Residential	3	4	1.3	1.8	2.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3127	Residential	3	4	0.9	1.9	1.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3170	Residential	3	4	0.7	1.7	1.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3207	Residential	3	4	0.7	1.8	1.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3217	Residential	3	4	0.7	1.7	1.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3224	Residential	3	4	0.5	1.9	0.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3242	Residential	3	4	0.5	1.7	0.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3271	Commercial	10	4	0.5	1.5	0.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3294	Residential	3	4	0.6	1.4	0.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3301	Residential	3	4	0.8	1.2	1.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3329	Residential	3	4	0.8	1.2	1.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3340	Residential	3	4	0.7	1.2	0.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3358	Residential	3	4	0.8	1.4	1.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3382	Residential	3	4	0.4	1.0	0.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3395	Residential	3	4	0.4	1.0	0.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted	Day Breach					Night Breach					Weighted
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life			LOL	Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			LOL
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3456	Residential	3	4	0.1	4.0	0.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3518	Park	10	4	0.6	1.5	0.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3545	Commercial	10	4	0.9	1.1	1.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3554	Residential	3	4	0.6	1.5	0.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3566	Commercial	10	4	0.1	6.1	0.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3570	Residential	3	4	0.5	1.7	0.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3581	Commercial	10	4	0.2	2.8	0.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3588	Residential	3	4	0.6	1.5	1.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3597	Residential	3	4	0.5	1.9	1.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3605	Residential	3	4	0.7	1.5	1.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3617	Residential	3	4	0.8	1.8	1.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3626	Commercial	10	4	1.4	1.2	1.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3627	School	100	4	0.9	1.6	1.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.06	0.03	0	0.0006	0.0003	0	0.06	0.03	0.03	0.00000	0.00020	0.00000	0.02000	0.01000	0.00000	0.00020	0.00000	0.02000	0.01000	0.0100
3639	Residential	3	4	1.7	1.3	2.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3647	Commercial	10	4	1.8	1.3	2.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3650	Commercial	10	4	1.1	1.8	2.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3662	Commercial	10	4	1.4	1.6	2.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3667	Commercial	10	4	1.7	1.5	2.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3676	Commercial	10	4	1.8	1.4	2.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3699	Commercial	10	4	1.6	1.4	2.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3717	Residential	3	4	1.1	2.4	2.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3725	Residential	3	4	1.2	2.2	2.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3728	Residential	3	4	1.2	2.1	2.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3746	Residential	3	4	1.1	2.7	3.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3751	Residential	3	4	0.9	2.6	2.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3757	Residential	3	4	0.9	2.6	2.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3764	Residential	3	4	0.7	3.4	2.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3770	Residential	3	4	0.6	3.9	2.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3780	Residential	3	4	0.7	3.4	2.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3786	Residential	3	4	0.5	2.5	1.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3793	Residential	3	4	0.5	3.1	1.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3795	Residential	3	4	0.8	3.4	2.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3802	Commercial	10	4	0.3	2.7	0.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3808	Residential	3	4	0.9	1.5	1.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3826	Residential	3	4	0.1	12.2	1.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3833	Residential	3	4	0.8	1.5	1.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3844	Residential	3	4	0.3	6.1	1.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3856	Residential	3	4	0.6	1.4	0.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3882	Residential	3	4	0.5	1.6	0.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3898	Residential	3	4	0.7	1.7	1.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3915	Residential	3	4	0.5	2.2	1.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3933	Residential	3	4	0.7	2.0	1.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3935	Residential	3	4	1.1	2.4	2.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3938	Residential	3	4	0.6	2.3	1.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3955	Residential	3	4	1.0	2.4	2.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3963	Residential	3	4	1.4	2.5	3.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3966	Residential	3	4	0.5	2.7	1.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3972	Residential	3	4	0.7	2.8	2.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3986	Residential	3	4	1.3	2.6	3.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3989	Residential	3	4	1.7	2.8	4.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3996	Residential	3	4	0.7	2.8	2.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4003	Residential	3	4	1.2	2.8	3.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4024	Residential	3	4	0.9	3.2	2.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4039	Residential	3	4	1.6	3.4	5.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4058	Residential	3	4	1.8	3.5	6.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4066	Residential	3	4	1.4	3.2	4.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4073	Residential	3	4	1.8	2.5	4.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4079	Residential	3	4	1.2	3.9	4.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4083	Residential	3	4	1.7	3.2	5.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4091	Residential	3	4	2.2	2.0	4.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4093	Residential	3	4	2.1	3.2	6.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4095	Residential	3	4	1.8	3.0	5.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4104	Residential	3	4	1.9	2.3	4.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4114	Residential	3	4	2.8	2.1	5.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4115	Residential	3	4	2.0	3.1	6.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4118	Residential	3	4	1.9	3.3	6.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4120	Residential	3	4	1.0	2.6	2.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4124	Residential	3	4	2.6	2.2	5.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4128	Residential	3	4	1.8	3.4	6.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
4136	Residential	3	4	2.9	2.3	6.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4137	Residential	3	4	2.0	3.0	6.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4140	Residential	3	4	2.0	3.3	6.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4147	Residential	3	4	2.9	2.4	6.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4156	Residential	3	4	1.7	3.6	6.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4158	Residential	3	4	2.8	2.5	7.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4159	Residential	3	4	2.0	2.9	5.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4161	Residential	3	4	1.9	3.3	6.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4170	Residential	3	4	2.9	2.6	7.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4172	Residential	3	4	1.6	3.2	5.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4177	Residential	3	4	2.7	2.7	7.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4179	Residential	3	4	1.9	2.9	5.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4180	Residential	3	4	1.8	3.5	6.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4181	Residential	3	4	1.9	3.4	6.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4184	Residential	3	4	1.3	3.1	4.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4190	Residential	3	4	2.9	2.7	7.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4192	Residential	3	4	1.9	3.3	6.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4197	Residential	3	4	2.4	2.9	7.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4198	Residential	3	4	2.0	2.7	5.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4201	Residential	3	4	1.8	3.3	6.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4203	Residential	3	4	1.7	3.5	6.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4208	Residential	3	4	1.6	3.4	5.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4212	Residential	3	4	2.7	3.0	8.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4216	Residential	3	4	2.2	3.3	7.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4218	Residential	3	4	2.2	3.3	7.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4220	Residential	3	4	2.0	2.7	5.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4223	Residential	3	4	1.8	3.2	5.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4227	Residential	3	4	1.7	3.4	5.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4231	Residential	3	4	1.8	3.5	6.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4233	Residential	3	4	1.9	3.0	5.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4234	Residential	3	4	2.6	3.2	8.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4238	Residential	3	4	1.9	3.3	6.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4239	Residential	3	4	2.4	3.4	8.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4240	Residential	3	4	1.7	3.2	5.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4244	Residential	3	4	1.4	3.8	5.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4245	Residential	3	4	1.6	3.3	5.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4247	Residential	3	4	2.5	3.1	7.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4249	Residential	3	4	2.1	3.6	7.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4253	Residential	3	4	1.8	2.9	5.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4254	Residential	3	4	0.6	1.5	1.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4258	Residential	3	4	1.7	3.3	5.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4260	Residential	3	4	1.6	3.0	4.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4262	Residential	3	4	2.6	3.3	8.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4263	Residential	3	4	1.6	3.8	6.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4264	Residential	3	4	2.1	3.3	6.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4268	Residential	3	4	2.3	3.3	7.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4270	Residential	3	4	1.6	3.2	5.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4273	Residential	3	4	1.9	2.4	4.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4279	Residential	3	4	2.5	3.2	8.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4283	Residential	3	4	2.0	3.0	5.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4284	Residential	3	4	1.8	3.8	6.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4286	Residential	3	4	2.3	3.4	7.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4287	Residential	3	4	1.1	4.4	4.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4292	Residential	3	4	2.3	3.3	7.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4293	Residential	3	4	0.2	2.8	0.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4297	Residential	3	4	1.8	3.8	7.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4302	Residential	3	4	0.2	1.5	0.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4303	Residential	3	4	2.1	3.6	7.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4306	Residential	3	4	2.0	3.6	7.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4307	Residential	3	4	1.7	4.2	7.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4319	Residential	3	4	1.3	4.7	6.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4322	Residential	3	4	0.1	1.9	0.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4327	Residential	3	4	0.1	3.3	0.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4399	Residential	3	4	0.1	4.9	0.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4486	Residential	3	4	1.0	4.3	4.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4554	Residential	3	4	0.2	1.2	0.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4607	Residential	3	4	1.5	2.8	4.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4619	Residential	3	4	0.6	4.7	2.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4625	Residential	3	4	2.1	1.5	3.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
4627	Residential	3	4	1.8	2.0	3.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4631	Residential	3	4	1.1	3.1	3.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4645	Residential	3	4	0.7	4.3	3.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4650	Residential	3	4	2.2	2.8	6.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4653	Residential	3	4	0.9	3.5	3.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4654	Residential	3	4	1.6	1.8	3.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4660	Residential	3	4	0.8	2.8	2.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4669	Residential	3	4	1.5	1.4	2.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4675	Residential	3	4	1.1	1.9	2.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4678	Residential	3	4	0.8	2.5	1.9	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4679	Residential	3	4	0.7	3.2	2.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4681	Residential	3	4	1.9	0.6	1.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4689	Residential	3	4	0.3	6.9	2.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4692	Residential	3	4	0.4	4.4	1.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4695	Residential	3	4	1.4	1.2	1.8	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4705	Residential	3	4	0.5	3.9	2.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4706	Residential	3	4	1.7	1.4	2.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4708	Residential	3	4	0.8	2.9	2.4	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4709	Residential	3	4	0.4	1.1	0.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4714	Residential	3	4	1.3	2.1	2.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4720	Residential	3	4	2.0	1.3	2.7	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4734	Residential	3	4	0.9	3.0	2.6	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4735	Commercial	10	4	0.9	2.5	2.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4754	Commercial	10	4	0.7	2.0	1.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4764	Residential	3	4	0.9	2.4	2.1	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4788	Residential	3	4	0.2	9.8	2.3	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4798	Commercial	10	4	0.1	46.1	2.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3812	Residential	3	4	0.4	2.6	1.0	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3601	Residential	3	4	0.7	1.7	1.2	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2122	Commercial	10	4	0.4	1.2	0.5	4.50	4.75	3.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3498	Residential	3	4	0.0	0.1	0.0	4.51	4.76	3.76	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2951	Residential	3	4	0.5	3.0	1.6	4.51	4.76	3.76	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4280	Residential	3	4	0.1	0.1	0.0	4.51	4.76	3.76	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4644	Residential	3	4	1.3	2.9	3.7	4.51	4.76	3.76	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3403	Residential	3	4	0.2	1.6	0.3	4.51	4.76	3.76	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4296	Residential	3	4	0.1	0.1	0.0	4.52	4.77	3.77	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2597	Commercial	10	4	0.3	0.1	0.0	4.52	4.77	3.77	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2278	Residential	3	4	0.3	0.9	0.3	4.52	4.77	3.77	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3156	School	100	4	0.8	2.1	1.6	4.52	4.77	3.77	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.06	0.03	0	0.0006	0.0003	0	0.06	0.03	0.03	0.00000	0.00020	0.00000	0.02000	0.01000	0.00000	0.00020	0.00000	0.02000	0.01000	0.0100
2333	Residential	3	4	0.2	1.3	0.3	4.52	4.77	3.77	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3520	Residential	3	4	0.9	1.7	1.5	4.53	4.78	3.78	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3298	Commercial	10	4	0.5	0.9	0.5	4.53	4.78	3.78	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4213	Residential	3	4	0.9	2.9	2.8	4.53	4.78	3.78	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4413	Residential	3	4	0.3	2.5	0.7	4.54	4.79	3.79	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2849	Residential	3	4	0.9	1.6	1.4	4.54	4.79	3.79	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2768	Residential	3	4	0.4	1.9	0.7	4.54	4.79	3.79	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4236	Residential	3	4	1.0	3.6	3.5	4.54	4.79	3.79	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4419	Residential	3	4	0.4	2.0	0.7	4.55	4.80	3.80	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4317	Residential	3	4	0.0	7.4	0.2	4.55	4.80	3.80	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4712	Commercial	10	4	0.7	3.0	2.2	4.56	4.81	3.81	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3860	Residential	3	4	0.2	3.4	0.6	4.56	4.81	3.81	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3881	Residential	3	4	0.3	3.4	0.9	4.57	4.82	3.82	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3902	Residential	3	4	0.4	2.9	1.1	4.57	4.82	3.82	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4330	Residential	3	4	0.1	1.4	0.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2259	Residential	3	4	0.3	1.7	0.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3452	Residential	3	4	0.1	5.4	0.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4335	Residential	3	4	0.1	1.3	0.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2662	Commercial	10	4	0.2	1.7	0.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4332	Residential	3	4	0.1	1.4	0.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2797	Commercial	10	4	0.6	2.1	1.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2923	Residential	3	4	0.7	2.4	1.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4320	Residential	3	4	1.4	5.0	7.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1046	Residential	3	4	0.2	1.6	0.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1134	Residential	3	4	1.5	2.2	3.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1251	Commercial	10	4	1.5	2.0	2.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1261	Commercial	10	4	1.1	2.8	3.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1283	Commercial	10	4	0.4	2.9	1.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2266	Residential	3	4	0.4	1.2	0.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2270	Residential	3	4	0.3	1.8	0.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
2357	Residential	3	4	0.1	2.8	0.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2422	Residential	3	4	0.2	1.1	0.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2694	Commercial	10	4	0.0	6.6	0.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2700	Residential	3	4	0.4	1.7	0.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2741	Residential	3	4	0.2	2.5	0.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2758	Residential	3	4	0.2	2.5	0.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2759	Residential	3	4	0.1	4.7	0.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2830	Residential	3	4	0.8	1.2	1.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2842	Residential	3	4	0.7	1.3	0.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2885	Residential	3	4	1.2	1.2	1.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2907	Residential	3	4	0.8	2.0	1.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2924	Residential	3	4	0.8	1.7	1.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2937	Residential	3	4	1.0	1.6	1.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2968	Residential	3	4	1.0	1.7	1.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3001	Residential	3	4	1.1	1.8	2.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3035	Residential	3	4	1.0	1.9	1.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3077	Residential	3	4	0.8	2.1	1.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3080	Residential	3	4	1.0	1.9	1.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3104	Residential	3	4	0.8	2.1	1.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3109	Residential	3	4	0.9	2.0	1.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3144	Residential	3	4	0.7	2.2	1.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3152	Residential	3	4	0.8	2.0	1.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3178	Residential	3	4	0.7	2.1	1.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3186	Residential	3	4	0.8	2.0	1.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3205	Residential	3	4	0.7	2.1	1.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3216	Residential	3	4	0.7	2.3	1.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3240	Residential	3	4	0.9	1.8	1.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3251	Residential	3	4	0.7	2.5	1.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3268	Residential	3	4	0.9	1.8	1.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3283	Residential	3	4	0.9	2.0	1.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3290	Residential	3	4	0.8	1.2	1.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3302	Residential	3	4	1.0	1.7	1.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3306	Residential	3	4	0.5	1.5	0.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3321	Residential	3	4	0.8	1.2	1.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3333	Residential	3	4	0.6	1.2	0.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3355	Commercial	10	4	0.4	1.4	0.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3360	Residential	3	4	0.6	1.6	1.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3376	Residential	3	4	0.6	1.1	0.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3380	Commercial	10	4	1.1	1.2	1.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3381	Residential	3	4	0.6	1.0	0.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3388	Commercial	10	4	0.8	1.2	1.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3397	Residential	3	4	0.7	0.8	0.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3405	Commercial	10	4	0.9	1.1	1.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3408	Commercial	10	4	0.8	1.2	1.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3418	Commercial	10	4	0.1	6.7	0.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3438	Residential	3	4	0.4	1.0	0.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3514	Residential	3	4	0.8	1.6	1.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3544	Residential	3	4	1.4	0.9	1.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3556	Residential	3	4	1.3	1.3	1.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3560	Residential	3	4	1.1	1.2	1.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3578	Residential	3	4	0.9	1.4	1.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3579	Residential	3	4	1.3	1.4	1.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3592	Residential	3	4	1.2	1.6	1.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3599	Commercial	10	4	1.0	1.4	1.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3604	Residential	3	4	1.2	1.6	1.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3612	Residential	3	4	1.4	1.4	2.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3620	Residential	3	4	1.5	1.5	2.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3630	Residential	3	4	1.5	1.6	2.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3640	Residential	3	4	1.5	1.6	2.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3644	Residential	3	4	1.3	1.8	2.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3653	Residential	3	4	1.2	1.8	2.1	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3656	Commercial	10	4	1.8	1.4	2.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3672	Residential	3	4	1.1	1.6	1.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3674	Commercial	10	4	1.4	1.7	2.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3681	Commercial	10	4	1.2	1.9	2.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3685	Commercial	10	4	1.6	1.5	2.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3703	Commercial	10	4	1.1	1.7	1.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3716	Commercial	10	4	1.6	1.5	2.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3724	Commercial	10	4	1.4	1.7	2.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted	Day Breach					Night Breach					Weighted
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life			LOL	Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			LOL
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3738	Commercial	10	4	1.1	2.2	2.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3743	Residential	3	4	1.1	1.9	2.1	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3753	Commercial	10	4	0.8	2.3	1.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3781	Residential	3	4	0.8	1.6	1.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3791	Residential	3	4	1.0	1.7	1.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3806	Residential	3	4	1.4	1.5	2.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3814	Residential	3	4	1.1	1.7	2.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3828	Residential	3	4	1.3	1.5	1.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3854	Residential	3	4	1.1	1.5	1.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3874	Residential	3	4	0.8	1.6	1.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3910	Residential	3	4	0.6	2.2	1.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3928	Residential	3	4	0.5	2.5	1.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3982	Residential	3	4	0.6	2.5	1.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4008	Residential	3	4	0.8	1.7	1.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4031	Residential	3	4	1.0	2.1	2.1	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4035	Residential	3	4	0.9	1.6	1.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4037	Residential	3	4	1.1	2.6	2.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4053	Residential	3	4	1.3	2.2	2.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4055	Residential	3	4	0.7	2.1	1.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4062	Residential	3	4	1.3	2.1	2.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4065	Residential	3	4	0.6	2.1	1.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4076	Residential	3	4	0.8	2.2	1.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4084	Residential	3	4	0.6	2.4	1.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4086	Residential	3	4	0.3	2.6	0.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4116	Residential	3	4	0.3	2.8	1.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4134	Residential	3	4	0.8	2.8	2.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4146	Residential	3	4	1.3	3.0	3.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4151	Residential	3	4	0.6	2.9	1.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4160	Residential	3	4	1.0	3.3	3.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4176	Residential	3	4	0.8	3.3	2.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4183	Residential	3	4	0.7	2.1	1.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4196	Residential	3	4	1.0	1.5	1.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4200	Residential	3	4	1.0	3.3	3.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4205	Residential	3	4	0.7	2.8	1.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4225	Residential	3	4	1.2	3.5	4.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4230	Residential	3	4	0.7	3.2	2.1	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4235	Residential	3	4	0.6	3.1	1.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4237	Residential	3	4	0.7	2.6	1.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4246	Residential	3	4	0.8	3.3	2.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4252	Residential	3	4	0.8	2.1	1.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4256	Residential	3	4	1.2	3.8	4.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4267	Residential	3	4	1.0	3.6	3.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4271	Residential	3	4	1.4	3.9	5.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4276	Residential	3	4	1.2	1.9	2.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4281	Residential	3	4	1.2	2.8	3.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4285	Residential	3	4	1.1	4.0	4.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4288	Residential	3	4	1.6	3.9	6.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4295	Residential	3	4	1.6	3.3	5.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4298	Residential	3	4	1.2	3.7	4.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4299	Residential	3	4	1.5	2.7	4.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4300	Residential	3	4	1.5	2.2	3.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4301	Residential	3	4	1.3	4.0	5.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4304	Residential	3	4	1.7	3.9	6.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4308	Residential	3	4	1.3	4.4	5.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4310	Residential	3	4	1.4	5.3	7.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4311	Residential	3	4	1.6	4.2	6.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4314	Residential	3	4	1.9	2.2	4.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4315	Residential	3	4	1.5	3.7	5.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4318	Residential	3	4	1.5	4.7	7.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4321	Residential	3	4	1.9	3.0	5.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4324	Residential	3	4	1.8	2.9	5.1	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4325	Residential	3	4	0.0	0.1	0.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4326	Residential	3	4	1.2	5.5	6.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4328	Residential	3	4	1.4	4.6	6.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4331	Residential	3	4	1.9	3.4	6.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4336	Residential	3	4	0.1	1.9	0.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4340	Residential	3	4	1.8	3.5	6.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4343	Residential	3	4	2.3	0.6	1.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4345	Residential	3	4	2.4	0.5	1.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
4505	Residential	3	4	0.1	1.0	0.1	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4589	Residential	3	4	0.1	2.4	0.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4657	Residential	3	4	0.7	8.1	6.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4663	Residential	3	4	1.3	3.9	5.1	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4668	Residential	3	4	2.1	2.3	4.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4672	Residential	3	4	0.9	5.2	4.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4680	Residential	3	4	0.7	5.6	4.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4684	Residential	3	4	0.7	2.8	1.9	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4685	Residential	3	4	1.9	2.3	4.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4686	Residential	3	4	0.8	2.8	2.1	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4688	Residential	3	4	0.4	4.8	1.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4697	Residential	3	4	0.1	21.6	2.1	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4704	Residential	3	4	0.1	22.0	2.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4715	Residential	3	4	1.1	2.6	2.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4721	Residential	3	4	0.8	2.6	2.1	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4725	Residential	3	4	1.7	1.7	2.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4729	Residential	3	4	1.2	2.3	2.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4736	Residential	3	4	1.1	2.4	2.8	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4738	Residential	3	4	0.6	3.7	2.2	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4739	Residential	3	4	0.8	2.9	2.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4741	Residential	3	4	1.0	2.5	2.4	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4751	Residential	3	4	1.8	1.8	3.1	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4753	Residential	3	4	0.7	2.0	1.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4755	Residential	3	4	1.3	2.8	3.7	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4760	Residential	3	4	0.2	8.6	2.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4763	Residential	3	4	0.9	1.4	1.3	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4775	Residential	3	4	1.1	1.9	2.1	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4782	Residential	3	4	0.7	2.7	2.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4803	Commercial	10	4	0.7	2.2	1.5	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4806	Residential	3	4	0.8	1.2	1.0	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4842	Commercial	10	4	1.3	2.0	2.6	4.58	4.83	3.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4329	Residential	3	4	0.1	1.9	0.2	4.59	4.84	3.84	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4748	Residential	3	4	0.0	110.1	1.6	4.59	4.84	3.84	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4189	Residential	3	4	0.7	3.1	2.2	4.59	4.84	3.84	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4165	Residential	3	4	0.5	2.9	1.4	4.59	4.84	3.84	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3840	Residential	3	4	0.3	2.7	0.7	4.59	4.84	3.84	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4426	Residential	3	4	0.4	1.6	0.7	4.59	4.84	3.84	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3800	Residential	3	4	0.5	2.1	1.0	4.59	4.84	3.84	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3821	Residential	3	4	0.4	2.4	0.9	4.59	4.84	3.84	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4396	Residential	3	4	0.4	2.1	0.8	4.61	4.86	3.86	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2749	Residential	3	4	0.3	2.7	0.7	4.61	4.86	3.86	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3335	Commercial	10	4	0.2	2.4	0.5	4.62	4.87	3.87	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2656	Residential	3	4	0.3	1.5	0.5	4.62	4.87	3.87	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2682	Residential	3	4	0.2	1.6	0.3	4.63	4.88	3.88	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2845	Residential	3	4	1.1	1.2	1.3	4.65	4.90	3.90	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2315	Residential	3	4	0.1	0.1	0.0	4.65	4.90	3.90	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4733	Residential	3	4	0.1	29.2	2.7	4.65	4.90	3.90	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4696	Residential	3	4	0.1	41.0	2.2	4.66	4.91	3.91	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3421	Residential	3	4	0.1	3.6	0.3	4.66	4.91	3.91	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3921	Residential	3	4	0.7	2.0	1.4	4.66	4.91	3.91	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
804	Residential	3	4	0.3	0.2	0.0	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1029	Residential	3	4	0.7	9.5	6.2	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2291	Residential	3	4	0.2	1.1	0.3	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2478	Residential	3	4	0.1	1.0	0.1	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2591	Residential	3	4	0.1	2.9	0.2	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2600	Residential	3	4	0.1	3.1	0.2	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2619	Commercial	10	4	0.3	1.4	0.4	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2729	Residential	3	4	0.6	1.7	1.0	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2856	Residential	3	4	0.1	6.8	0.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2882	Residential	3	4	0.5	1.9	0.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2892	Residential	3	4	0.3	2.8	0.8	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2931	Residential	3	4	0.6	2.1	1.3	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2974	Residential	3	4	0.8	1.9	1.6	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2997	Residential	3	4	0.6	1.7	1.1	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3013	Residential	3	4	0.9	2.1	1.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3020	Residential	3	4	0.7	2.4	1.8	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3021	Residential	3	4	0.7	1.4	1.0	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3025	Residential	3	4	0.7	1.7	1.3	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3029	Residential	3	4	0.8	2.2	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)														RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3054	Residential	3	4	0.8	1.5	1.1	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3060	Residential	3	4	0.8	2.0	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3092	Residential	3	4	0.9	1.9	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3094	Residential	3	4	0.8	1.6	1.3	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3121	Residential	3	4	0.9	1.7	1.6	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3124	Residential	3	4	0.8	2.0	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3161	Residential	3	4	0.7	1.6	1.2	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3164	Residential	3	4	0.9	1.8	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3169	Residential	3	4	0.9	1.7	1.4	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3194	Residential	3	4	0.9	1.7	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3199	Residential	3	4	0.8	1.8	1.4	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3221	Residential	3	4	0.9	1.7	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3230	Residential	3	4	0.7	1.7	1.1	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3234	Residential	3	4	0.8	1.8	1.4	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3255	Residential	3	4	0.8	1.8	1.6	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3262	Residential	3	4	0.7	1.7	1.1	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3265	Residential	3	4	0.8	1.9	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3287	Residential	3	4	0.9	1.9	1.6	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3299	Residential	3	4	0.8	1.8	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3318	Residential	3	4	1.0	1.8	1.8	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3322	Residential	3	4	0.9	1.8	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3336	Residential	3	4	0.7	1.4	1.0	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3361	Residential	3	4	0.6	2.6	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3362	Residential	3	4	0.7	2.2	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3366	Residential	3	4	0.7	2.5	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3374	Commercial	10	4	1.0	1.2	1.3	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3386	Residential	3	4	0.7	1.2	0.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3391	Commercial	10	4	0.9	1.5	1.4	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3400	Commercial	10	4	0.8	1.1	0.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3413	Commercial	10	4	0.9	1.2	1.1	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3426	Commercial	10	4	0.1	0.1	0.0	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3434	Residential	3	4	0.3	1.6	0.4	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3439	Residential	3	4	0.7	1.0	0.6	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3445	Commercial	10	4	0.0	5.7	0.2	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3571	Residential	3	4	1.2	1.4	1.6	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3574	Residential	3	4	1.2	1.4	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3583	Residential	3	4	1.0	1.4	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3587	Residential	3	4	1.3	1.5	1.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3598	Residential	3	4	0.9	1.4	1.2	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3614	Residential	3	4	1.2	1.5	1.8	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3624	Residential	3	4	1.2	1.4	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3636	Residential	3	4	1.1	1.6	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3661	Residential	3	4	1.2	1.7	2.0	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3683	Residential	3	4	1.0	1.9	1.8	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3689	Commercial	10	4	1.0	2.1	2.0	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3714	Commercial	10	4	1.1	1.7	1.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3734	Commercial	10	4	0.6	2.8	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3747	Commercial	10	4	0.6	3.6	2.1	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3750	Commercial	10	4	0.7	2.1	1.4	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3768	Commercial	10	4	1.1	1.7	1.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3778	Commercial	10	4	1.0	1.9	1.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3835	Residential	3	4	1.0	1.9	1.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3841	Residential	3	4	1.1	1.7	1.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3858	Residential	3	4	0.9	2.0	1.8	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3864	Residential	3	4	1.0	1.7	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3867	Residential	3	4	0.9	1.8	1.6	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3870	Residential	3	4	1.0	1.9	1.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3883	Residential	3	4	0.9	1.9	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3889	Residential	3	4	0.8	1.8	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3894	Residential	3	4	0.9	1.8	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3916	Residential	3	4	0.8	2.0	1.6	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3923	Residential	3	4	0.8	1.8	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3947	Residential	3	4	0.6	2.4	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3949	Residential	3	4	0.9	1.7	1.4	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3976	Residential	3	4	0.7	2.3	1.6	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3981	Residential	3	4	0.8	1.7	1.4	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3998	Residential	3	4	0.7	1.8	1.2	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4004	Residential	3	4	0.8	1.6	1.2	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4005	Residential	3	4	0.8	2.1	1.6	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
4018	Residential	3	4	1.0	1.7	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4026	Residential	3	4	0.6	2.0	1.2	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4029	Residential	3	4	0.5	2.2	1.0	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4043	Residential	3	4	1.1	1.8	1.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4047	Residential	3	4	0.6	1.9	1.2	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4051	Residential	3	4	0.4	2.5	0.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4068	Residential	3	4	0.4	2.3	0.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4105	Residential	3	4	0.5	2.2	1.2	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4148	Residential	3	4	0.9	1.5	1.3	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4222	Residential	3	4	0.7	1.8	1.3	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4339	Residential	3	4	0.0	3.1	0.2	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4342	Residential	3	4	1.4	1.0	1.4	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4348	Residential	3	4	1.0	0.7	0.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4386	Residential	3	4	0.0	76.0	0.3	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4421	Residential	3	4	0.5	1.0	0.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4496	Residential	3	4	0.3	1.2	0.3	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4698	Residential	3	4	1.0	3.1	3.3	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4723	Residential	3	4	0.6	4.6	2.8	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4740	Residential	3	4	0.7	3.6	2.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4746	Residential	3	4	0.6	3.1	1.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4749	Residential	3	4	0.4	7.2	2.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4750	Residential	3	4	1.3	2.3	3.0	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4758	Residential	3	4	2.9	1.7	4.8	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4761	Residential	3	4	0.3	6.5	2.1	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4767	Residential	3	4	1.0	2.1	2.1	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4768	Residential	3	4	0.5	4.6	2.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4773	Residential	3	4	1.3	2.6	3.4	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4779	Residential	3	4	0.1	15.5	1.5	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4786	Residential	3	4	0.9	2.3	2.0	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4789	Residential	3	4	1.0	1.6	1.6	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4790	Residential	3	4	0.0	50.2	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4791	Residential	3	4	0.9	2.0	1.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4794	Residential	3	4	0.4	2.5	1.0	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4802	Residential	3	4	0.0	0.1	0.0	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4813	Residential	3	4	1.0	2.0	2.1	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4816	Residential	3	4	1.1	2.1	2.3	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4819	Residential	3	4	0.9	2.2	1.9	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4821	Residential	3	4	0.7	1.8	1.4	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4921	Commercial	10	4	1.4	2.2	3.1	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4944	Commercial	10	4	0.4	2.3	0.8	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3962	Residential	3	4	1.0	1.7	1.7	4.67	4.92	3.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4666	Residential	3	4	0.3	9.4	2.8	4.68	4.93	3.93	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2854	Residential	3	4	0.0	25.7	0.3	4.68	4.93	3.93	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3297	Residential	3	4	0.7	1.6	1.2	4.68	4.93	3.93	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3448	School	100	4	0.6	1.9	1.2	4.68	4.93	3.93	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.06	0.03	0	0.0006	0.0003	0	0.06	0.03	0.03	0.00000	0.00020	0.00000	0.02000	0.01000	0.00000	0.00020	0.00000	0.02000	0.01000	0.0100
2655	Residential	3	4	0.2	1.3	0.3	4.68	4.93	3.93	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4759	Residential	3	4	0.8	3.7	3.0	4.68	4.93	3.93	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4766	Residential	3	4	0.6	3.2	1.9	4.69	4.94	3.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4800	Residential	3	4	0.7	2.3	1.6	4.69	4.94	3.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2811	Residential	3	4	0.4	2.0	0.7	4.69	4.94	3.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4535	Residential	3	4	0.1	2.3	0.2	4.69	4.94	3.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3991	Residential	3	4	0.8	2.0	1.7	4.69	4.94	3.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4472	Residential	3	4	0.1	0.1	0.0	4.70	4.95	3.95	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2633	Residential	3	4	0.1	0.1	0.0	4.70	4.95	3.95	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2732	Residential	3	4	0.1	4.5	0.4	4.71	4.96	3.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4897	Residential	3	4	0.2	7.6	1.5	4.71	4.96	3.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4713	Residential	3	4	0.2	5.2	0.9	4.71	4.96	3.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4009	Residential	3	4	0.8	2.6	2.1	4.71	4.96	3.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3437	Residential	3	4	0.1	2.5	0.2	4.71	4.96	3.96	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4401	Residential	3	4	0.1	0.1	0.0	4.72	4.97	3.97	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2701	Residential	3	4	0.0	9.3	0.3	4.73	4.98	3.98	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2831	Residential	3	4	0.2	3.4	0.6	4.73	4.98	3.98	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4523	Residential	3	4	0.4	1.5	0.6	4.73	4.98	3.98	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3383	Residential	3	4	0.6	2.6	1.6	4.73	4.98	3.98	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3429	Residential	3	4	0.2	2.3	0.4	4.73	4.98	3.98	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4507	Residential	3	4	0.3	1.7	0.5	4.74	4.99	3.99	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2803	Residential	3	4	0.2	0.1	0.0	4.74	4.99	3.99	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4108	Residential	3	4	0.6	1.9	1.1	4.74	4.99	3.99	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3319	Residential	3	4	0.7	2.1	1.6	4.74	4.99	3.99	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1354	Residential	3	4	0.8	3.1	2.6	4.74	4.99	3.99	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4266	Residential	3	4	0.9	3.2	3.0	4.74	4.99	3.99	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2476	Residential	3	4	0.4	0.2	0.1	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1322	Residential	3	4	1.4	0.9	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1326	Residential	3	4	0.3	0.4	0.1	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1328	Commercial	10	4	0.8	2.4	2.1	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
1338	Residential	3	4	1.3	1.6	2.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1362	Residential	3	4	0.9	3.1	2.7	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1377	Residential	3	4	0.5	3.7	2.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1408	Residential	3	4	0.8	1.1	1.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1410	Residential	3	4	0.6	1.5	0.9	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1426	Residential	3	4	0.0	48.3	0.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1432	Residential	3	4	0.7	1.1	0.8	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2360	Residential	3	4	0.1	1.2	0.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2452	Residential	3	4	0.2	0.8	0.1	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2838	Residential	3	4	0.2	0.7	0.1	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2878	Residential	3	4	0.4	2.3	0.9	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2884	Residential	3	4	0.2	1.0	0.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2900	Residential	3	4	0.4	0.8	0.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2905	Residential	3	4	0.2	3.8	0.8	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2915	Residential	3	4	0.3	1.1	0.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2918	Residential	3	4	0.3	2.0	0.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2941	Residential	3	4	0.4	1.0	0.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2954	Residential	3	4	0.4	1.1	0.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2956	Residential	3	4	0.5	1.7	0.8	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2977	Residential	3	4	0.6	1.0	0.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2981	Residential	3	4	0.6	1.3	0.7	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2992	Residential	3	4	0.5	1.4	0.7	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3009	Residential	3	4	0.6	1.2	0.8	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3012	Residential	3	4	0.7	1.4	1.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3036	Residential	3	4	0.8	1.3	1.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3038	Residential	3	4	0.8	2.1	1.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3040	Residential	3	4	0.8	1.5	1.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3052	Residential	3	4	0.6	1.7	1.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3079	Residential	3	4	0.8	1.4	1.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3083	Residential	3	4	0.8	1.6	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3090	Residential	3	4	0.7	1.7	1.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3107	Residential	3	4	0.8	1.9	1.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3108	Residential	3	4	0.9	1.4	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3123	Residential	3	4	0.8	1.6	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3147	Residential	3	4	0.9	1.5	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3150	Residential	3	4	0.9	1.7	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3181	Residential	3	4	0.8	1.5	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3184	Residential	3	4	0.7	1.7	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3188	Residential	3	4	0.8	1.8	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3192	Residential	3	4	0.7	1.7	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3195	Residential	3	4	0.7	1.6	1.1	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3209	Residential	3	4	0.9	1.4	1.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3215	Residential	3	4	0.7	1.9	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3218	Residential	3	4	0.9	1.7	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3223	Residential	3	4	0.7	1.6	1.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3248	Residential	3	4	0.8	1.4	1.1	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3252	Residential	3	4	0.7	1.8	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3253	Residential	3	4	0.8	1.8	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3280	Residential	3	4	0.8	1.4	1.1	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3284	Residential	3	4	0.7	1.8	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3285	Residential	3	4	0.8	1.8	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3293	Residential	3	4	0.8	1.4	1.1	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3313	Residential	3	4	0.8	1.5	1.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3316	Residential	3	4	0.8	1.8	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3330	Residential	3	4	0.7	2.2	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3345	Residential	3	4	0.8	1.6	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3347	Residential	3	4	0.8	1.9	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3348	Residential	3	4	0.6	2.5	1.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3354	Residential	3	4	0.8	1.5	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3370	Residential	3	4	0.8	1.7	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3371	Residential	3	4	0.8	1.9	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3373	Residential	3	4	0.6	2.7	1.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3377	Residential	3	4	0.7	1.9	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3378	Residential	3	4	0.8	2.1	1.7	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3390	Residential	3	4	0.6	2.3	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3392	Residential	3	4	0.8	1.8	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3394	Residential	3	4	0.6	2.4	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3398	Residential	3	4	0.8	1.9	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3401	Residential	3	4	0.8	2.8	2.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3402	Residential	3	4	0.7	2.2	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3406	Residential	3	4	0.5	2.6	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3410	Residential	3	4	1.5	1.5	2.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3415	Residential	3	4	0.6	2.4	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3417	Residential	3	4	0.9	1.7	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3424	Commercial	10	4	0.0	6.6	0.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3447	Residential	3	4	1.2	2.0	2.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3455	Residential	3	4	1.2	1.7	2.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3549	Residential	3	4	1.3	1.3	1.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3563	Residential	3	4	1.3	1.3	1.7	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3576	Residential	3	4	0.7	1.5	1.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3590	Residential	3	4	1.0	1.3	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3594	Residential	3	4	0.7	1.5	1.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3596	Residential	3	4	1.1	1.7	1.9	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3608	Residential	3	4	0.8	1.6	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3631	Residential	3	4	0.7	1.8	1.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3666	Commercial	10	4	0.7	2.0	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3701	Residential	3	4	0.7	1.9	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3704	Commercial	10	4	0.6	1.9	1.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3730	Commercial	10	4	0.7	2.6	1.8	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3748	Residential	3	4	0.6	2.3	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3767	Commercial	10	4	1.0	1.4	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3813	Commercial	10	4	1.2	1.3	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3827	Commercial	10	4	1.1	1.5	1.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3839	Commercial	10	4	1.1	1.5	1.7	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3851	Residential	3	4	1.0	2.0	1.9	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3878	Residential	3	4	1.0	1.4	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3896	Residential	3	4	1.2	1.3	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3901	Residential	3	4	1.0	1.8	1.8	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3909	Residential	3	4	0.9	1.5	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3914	Residential	3	4	1.1	1.5	1.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3927	Residential	3	4	1.0	1.4	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3929	Residential	3	4	1.0	1.8	1.8	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3930	Residential	3	4	0.9	1.8	1.7	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3936	Residential	3	4	0.8	1.6	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3939	Residential	3	4	1.0	1.6	1.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3958	Residential	3	4	0.9	1.5	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3965	Residential	3	4	1.0	1.8	1.9	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3968	Residential	3	4	0.8	1.6	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3975	Residential	3	4	0.9	1.5	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3988	Residential	3	4	0.7	1.6	1.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3995	Residential	3	4	0.9	1.9	1.7	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4017	Residential	3	4	0.7	1.6	1.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4021	Residential	3	4	0.9	1.8	1.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4041	Residential	3	4	0.6	1.8	1.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4045	Residential	3	4	0.8	1.9	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4060	Residential	3	4	0.8	1.9	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4061	Residential	3	4	0.5	1.8	0.9	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4064	Residential	3	4	0.7	1.9	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4078	Residential	3	4	0.5	2.1	1.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4081	Residential	3	4	0.6	2.1	1.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4117	Residential	3	4	0.9	1.5	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4131	Residential	3	4	0.6	1.9	1.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4143	Residential	3	4	0.9	1.5	1.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4404	Residential	3	4	0.3	1.6	0.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4519	Residential	3	4	0.1	3.4	0.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4577	Residential	3	4	0.1	1.7	0.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4584	Residential	3	4	0.1	1.1	0.1	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4777	Residential	3	4	0.8	2.5	2.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4815	Residential	3	4	0.7	2.2	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4824	Residential	3	4	0.7	1.5	1.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4826	Residential	3	4	0.7	2.5	1.7	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4854	Residential	3	4	1.4	1.0	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
4874	Residential	3	4	0.5	1.2	0.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4879	Residential	3	4	0.6	1.9	1.2	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4885	Residential	3	4	1.3	0.6	0.8	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4933	Residential	3	4	2.0	1.5	3.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4937	Residential	3	4	0.9	3.8	3.3	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4946	Residential	3	4	1.4	2.1	2.9	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4951	Residential	3	4	0.7	3.3	2.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4958	Residential	3	4	1.0	1.6	1.6	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4988	Commercial	10	4	0.2	1.6	0.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3359	Residential	3	4	0.9	1.7	1.4	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4425	Commercial	10	4	0.0	0.1	0.0	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3379	Residential	3	4	0.7	2.0	1.5	4.75	5.00	4.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3420	Commercial	10	4	0.0	0.1	0.0	4.76	5.01	4.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3393	Residential	3	4	0.7	2.7	2.0	4.76	5.01	4.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4380	Commercial	10	4	0.3	2.4	0.8	4.76	5.01	4.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3372	Residential	3	4	0.9	1.9	1.7	4.76	5.01	4.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3037	Residential	3	4	0.0	0.1	0.0	4.77	5.02	4.02	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3004	Residential	3	4	0.2	4.1	0.9	4.77	5.02	4.02	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4354	Residential	3	4	0.4	1.0	0.4	4.77	5.02	4.02	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3084	Residential	3	4	0.1	9.6	1.1	4.77	5.02	4.02	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4844	Residential	3	4	0.0	0.1	0.0	4.78	5.03	4.03	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4700	Residential	3	4	0.4	4.6	1.9	4.78	5.03	4.03	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2678	Residential	3	4	0.1	2.7	0.3	4.78	5.03	4.03	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3117	Residential	3	4	0.2	6.5	1.2	4.79	5.04	4.04	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3233	Residential	3	4	0.4	2.6	1.1	4.79	5.04	4.04	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3197	Residential	3	4	0.4	2.8	1.2	4.79	5.04	4.04	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3163	Residential	3	4	0.5	2.7	1.3	4.80	5.05	4.05	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2888	Residential	3	4	0.2	2.1	0.4	4.80	5.05	4.05	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3416	Residential	3	4	1.0	2.0	2.1	4.80	5.05	4.05	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2352	Residential	3	4	0.1	1.4	0.2	4.81	5.06	4.06	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2368	Residential	3	4	0.0	2.7	0.1	4.81	5.06	4.06	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3264	Residential	3	4	0.5	2.0	1.0	4.81	5.06	4.06	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2820	Residential	3	4	0.1	1.0	0.1	4.82	5.07	4.07	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2927	Residential	3	4	0.3	2.0	0.5	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3300	Residential	3	4	0.5	1.9	1.0	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2971	Residential	3	4	0.7	1.1	0.8	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1406	Residential	3	4	0.4	0.9	0.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1434	Residential	3	4	1.4	1.0	1.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1435	Residential	3	4	1.6	0.5	0.7	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1441	Residential	3	4	0.1	3.5	0.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1442	Residential	3	4	0.9	1.6	1.5	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2381	Residential	3	4	0.0	2.0	0.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2415	Residential	3	4	0.0	5.1	0.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2804	Residential	3	4	0.1	0.8	0.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2812	Residential	3	4	0.3	0.5	0.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2821	Residential	3	4	0.1	1.3	0.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2852	Residential	3	4	0.2	0.9	0.2	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2988	Residential	3	4	0.5	1.3	0.7	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3019	Residential	3	4	0.5	1.6	0.8	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3258	Residential	3	4	0.7	1.5	1.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3324	Residential	3	4	0.7	1.5	1.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3326	Residential	3	4	0.8	1.7	1.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3334	Residential	3	4	0.7	1.5	1.0	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3364	Residential	3	4	0.8	1.4	1.2	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3385	Residential	3	4	0.7	1.8	1.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3423	Residential	3	4	0.7	3.4	2.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3427	Residential	3	4	0.9	2.5	2.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3436	Residential	3	4	0.6	2.8	1.8	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3453	Residential	3	4	0.9	2.0	1.7	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3458	Residential	3	4	0.8	1.7	1.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3460	Residential	3	4	0.8	2.0	1.7	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3464	Residential	3	4	0.8	2.1	1.8	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3465	Residential	3	4	0.1	4.5	0.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3473	Residential	3	4	0.7	1.9	1.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3475	Residential	3	4	0.9	1.9	1.7	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3479	Residential	3	4	0.6	1.8	1.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3485	Residential	3	4	0.9	1.7	1.5	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3489	Residential	3	4	0.8	2.0	1.6	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3490	Residential	3	4	0.4	3.0	1.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3492	Residential	3	4	0.7	1.6	1.2	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3496	Residential	3	4	0.7	2.0	1.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3517	Residential	3	4	1.0	1.5	1.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3522	Park	10	4	0.7	1.6	1.0	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3525	Residential	3	4	1.0	1.5	1.5	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3552	Residential	3	4	0.6	1.5	1.0	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3633	Residential	3	4	0.8	1.4	1.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3648	Residential	3	4	0.8	1.9	1.5	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3694	Residential	3	4	0.8	1.7	1.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3744	Residential	3	4	0.6	2.3	1.5	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3799	Commercial	10	4	0.9	1.5	1.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3803	Residential	3	4	0.4	2.1	0.8	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3848	Commercial	10	4	1.0	1.6	1.7	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3952	Residential	3	4	0.9	1.9	1.7	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3954	Residential	3	4	0.6	2.0	1.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4010	Residential	3	4	0.9	1.8	1.7	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4032	Residential	3	4	0.6	2.4	1.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4057	Residential	3	4	0.9	1.8	1.6	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4087	Residential	3	4	0.4	3.8	1.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4098	Residential	3	4	0.7	1.8	1.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4125	Residential	3	4	0.6	1.7	1.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4341	Residential	3	4	0.4	3.8	1.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4346	Commercial	10	4	0.1	2.2	0.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4351	Residential	3	4	0.2	1.7	0.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4352	Residential	3	4	0.4	0.5	0.2	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4353	Residential	3	4	0.4	0.8	0.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4553	Residential	3	4	0.1	0.7	0.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4610	Residential	3	4	0.1	1.5	0.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4615	Residential	3	4	0.0	0.1	0.0	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4624	Residential	3	4	0.2	3.3	0.5	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4647	Residential	3	4	0.6	4.2	2.5	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4673	Residential	3	4	0.9	3.3	2.9	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4780	Commercial	10	4	1.1	0.1	0.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4805	Residential	3	4	0.4	3.1	1.1	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4905	Residential	3	4	0.5	3.4	1.6	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4911	Residential	3	4	0.6	2.0	1.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4932	Residential	3	4	1.0	3.2	3.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4945	Residential	3	4	0.3	1.3	0.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4949	Residential	3	4	1.1	2.8	3.0	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4969	Residential	3	4	0.2	3.0	0.7	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4984	Residential	3	4	0.3	1.5	0.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4991	Residential	3	4	0.1	2.8	0.2	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4999	Residential	3	4	0.2	1.7	0.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5002	Residential	3	4	0.3	1.3	0.4	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5003	Commercial	10	4	0.6	0.5	0.3	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
5050	Residential	3	4	0.5	1.6	0.8	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3463	Residential	3	4	0.4	2.1	0.9	4.83	5.08	4.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4467	Commercial	10	4	0.4	1.6	0.6	4.84	5.09	4.09	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2944	Residential	3	4	0.4	1.5	0.5	4.85	5.10	4.10	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1304	Residential	3	4	0.2	6.5	1.2	4.86	5.11	4.11	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4405	Residential	3	4	0.3	1.5	0.5	4.86	5.11	4.11	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3477	Residential	3	4	0.3	4.7	1.4	4.86	5.11	4.11	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4344	Residential	3	4	0.1	2.1	0.2	4.87	5.12	4.12	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4605	Residential	3	4	0.4	2.5	0.9	4.87	5.12	4.12	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2622	Residential	3	4	0.1	0.1	0.0	4.88	5.13	4.13	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2437	Residential	3	4	0.2	0.7	0.1	4.88	5.13	4.13	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4744	Residential	3	4	0.2	12.5	2.3	4.88	5.13	4.13	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4919	Residential	3	4	0.3	0.1	0.0	4.89	5.14	4.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4469	Residential	3	4	0.3	1.7	0.5	4.89	5.14	4.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2859	Residential	3	4	0.2	1.8	0.3	4.89	5.14	4.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4604	Residential	3	4	0.3	1.8	0.6	4.90	5.15	4.15	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4350	Residential	3	4	0.0	218.5	0.5	4.90	5.15	4.15	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4648	Residential	3	4	0.3	7.9	2.7	4.90	5.15	4.15	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2902	Residential	3	4	0.3	1.2	0.3	4.90	5.15	4.15	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4752	Residential	3	4	0.1	34.7	2.2	4.90	5.15	4.15	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4492	Residential	3	4	0.2	1.7	0.4	4.91	5.16	4.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4599	Commercial	10	4	1.2	4.8	5.8	4.91	5.16	4.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4498	Residential	3	4	0.2	3.4	0.6	4.91	5.16	4.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1256	Farm/Shop	2	4	0.6	1.1	0.6	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
1422	Residential	3	4	0.7	1.6	1.1	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1438	Residential	3	4	2.7	2.8	7.5	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1439	Residential	3	4	2.0	3.3	6.6	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1443	Residential	3	4	0.3	1.6	0.5	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1444	Residential	3	4	2.0	2.8	5.8	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1446	Residential	3	4	3.1	2.5	7.8	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1447	Residential	3	4	1.5	3.4	5.0	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1450	Residential	3	4	2.6	1.7	4.4	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1452	Residential	3	4	2.1	1.7	3.5	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1454	Residential	3	4	2.8	2.6	7.4	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1460	Residential	3	4	2.9	2.1	6.0	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1461	Residential	3	4	2.2	2.7	6.0	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1463	Residential	3	4	2.7	2.1	5.7	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1464	Residential	3	4	1.8	3.5	6.4	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1467	Residential	3	4	2.6	2.0	5.3	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1470	Residential	3	4	2.4	1.4	3.5	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1471	Residential	3	4	3.2	1.7	5.7	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1473	Residential	3	4	1.6	4.1	6.7	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1477	Residential	3	4	2.2	2.6	5.8	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1478	Residential	3	4	1.5	1.7	2.5	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1481	Residential	3	4	2.5	2.1	5.4	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1482	Residential	3	4	2.2	2.1	4.7	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1486	Residential	3	4	2.1	2.8	5.9	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1493	Residential	3	4	1.2	2.9	3.4	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1502	Residential	3	4	3.2	2.5	7.9	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1509	Residential	3	4	3.0	3.0	9.0	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1513	Residential	3	4	3.1	2.4	7.5	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1521	Residential	3	4	2.8	0.8	2.2	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1522	Residential	3	4	2.7	4.1	11.0	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00024	0.00000	0.00072	0.00036	0.00000	0.00024	0.00000	0.00072	0.00036	0.0004
1528	Residential	3	4	2.7	2.0	5.5	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1529	Residential	3	4	2.9	3.8	11.2	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00025	0.00000	0.00075	0.00037	0.00000	0.00025	0.00000	0.00075	0.00037	0.0004
1531	Residential	3	4	2.5	3.0	7.5	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1536	Residential	3	4	3.1	3.8	11.9	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00028	0.00000	0.00083	0.00042	0.00000	0.00028	0.00000	0.00083	0.00042	0.0004
2730	Residential	3	4	0.4	0.1	0.0	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2762	Residential	3	4	0.0	2.9	0.0	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2875	Residential	3	4	0.3	0.8	0.2	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3495	Residential	3	4	0.8	1.4	1.1	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3499	Residential	3	4	0.8	1.3	1.0	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3500	Residential	3	4	0.9	1.6	1.5	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3515	Residential	3	4	1.1	1.0	1.1	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3577	Residential	3	4	1.1	1.4	1.5	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3595	Residential	3	4	0.7	1.4	1.0	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3622	Residential	3	4	0.7	1.8	1.3	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3635	Residential	3	4	0.4	1.6	0.6	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3669	Residential	3	4	0.4	2.1	0.8	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3673	Residential	3	4	0.7	2.3	1.7	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3749	Commercial	10	4	0.8	0.9	0.8	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3762	Commercial	10	4	0.9	1.3	1.3	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3773	Residential	3	4	0.3	1.8	0.6	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3775	Commercial	10	4	1.0	1.1	1.1	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3842	Residential	3	4	0.9	1.6	1.5	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3980	Residential	3	4	0.5	2.1	1.1	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4126	Commercial	10	4	1.2	1.7	2.0	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4490	Residential	3	4	0.1	2.0	0.2	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4601	Residential	3	4	0.1	1.2	0.1	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4687	Road	2	4	1.3	4.3	5.4	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
4774	Residential	3	4	0.3	0.8	0.2	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4980	Residential	3	4	0.7	1.1	0.8	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5032	Residential	3	4	0.3	1.7	0.6	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5059	Residential	3	4	0.9	1.0	0.9	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2742	Residential	3	4	0.2	0.3	0.1	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4962	Residential	3	4	0.5	3.9	1.8	4.92	5.17	4.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4596	Residential	3	4	0.0	8.8	0.1	4.93	5.18	4.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4808	Residential	3	4	0.4	3.3	1.5	4.93	5.18	4.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3638	Residential	3	4	0.6	1.9	1.2	4.94	5.19	4.19	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4439	Commercial	10	4	0.1	2.7	0.3	4.94	5.19	4.19	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4521	Residential	3	4	0.1	2.1	0.2	4.95	5.20	4.20	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4520	Residential	3	4	0.2	1.5	0.3	4.95	5.20	4.20	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5000	Residential	3	4	0.1	3.9	0.3	4.95	5.20	4.20	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)																								RCEM 2014 Methodology (USBR 2014)																							
												Day Breach						Night Breach						Weighted LOL												Day Breach										Night Breach										Weighted LOL	
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life															Fatality Rate			Loss of Life					Fatality Rate			Loss of Life										
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class			Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
								Day	Night		Day	Night																																							
3941	Residential	3	4	0.7	2.1	1.5	4.95	5.20	4.20	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4771	Residential	3	4	0.2	11.5	2.0	4.95	5.20	4.20	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4500	Residential	3	4	0.2	2.1	0.3	4.96	5.21	4.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2420	Residential	3	4	0.0	22.4	0.1	4.96	5.21	4.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2911	Residential	3	4	0.3	1.3	0.4	4.96	5.21	4.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4737	Residential	3	4	0.3	1.1	0.3	4.96	5.21	4.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4546	Residential	3	4	0.0	0.1	0.0	4.96	5.21	4.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4863	Residential	3	4	0.0	17.7	0.8	4.96	5.21	4.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2953	Residential	3	4	0.4	1.3	0.5	4.96	5.21	4.21	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4886	Residential	3	4	0.5	1.7	0.8	4.97	5.22	4.22	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3691	Commercial	10	4	0.7	2.1	1.4	4.98	5.23	4.23	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
5058	Residential	3	4	0.0	2.4	0.1	4.98	5.23	4.23	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3557	Residential	3	4	0.3	0.1	0.0	4.98	5.23	4.23	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2640	Commercial	10	4	0.1	3.2	0.3	4.98	5.23	4.23	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2832	Residential	3	4	0.0	3.1	0.1	4.99	5.24	4.24	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4482	Residential	3	4	0.2	2.0	0.4	4.99	5.24	4.24	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4694	Residential	3	4	0.2	5.4	1.1	4.99	5.24	4.24	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4450	Residential	3	4	0.2	2.9	0.4	4.99	5.24	4.24	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1247	Residential	3	4	0.2	2.3	0.4	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1448	Residential	3	4	0.9	2.3	2.2	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1453	Residential	3	4	0.4	1.1	0.5	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1456	Residential	3	4	0.7	1.3	1.0	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1468	Residential	3	4	0.4	0.8	0.3	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1483	Residential	3	4	1.8	3.6	6.5	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1485	Residential	3	4	0.9	2.0	1.8	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1500	Residential	3	4	0.5	2.2	1.2	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1503	Residential	3	4	0.8	0.9	0.7	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1505	Residential	3	4	1.5	2.2	3.3	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1508	Residential	3	4	1.4	3.4	4.7	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1511	Residential	3	4	2.1	3.0	6.1	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1516	Residential	3	4	0.6	1.1	0.7	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1518	Residential	3	4	1.5	0.9	1.3	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1520	Residential	3	4	1.1	0.8	0.9	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1523	Residential	3	4	1.3	2.4	3.1	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1524	Residential	3	4	1.1	3.7	4.2	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1530	Residential	3	4	0.3	0.8	0.2	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1532	Residential	3	4	0.1	1.0	0.1	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1550	Residential	3	4	1.6	6.1	9.9	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1557	Residential	3	4	1.7	5.4	9.3	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1559	Residential	3	4	2.5	4.4	10.9	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00023	0.00000	0.00070	0.00035	0.00000	0.00023	0.00000	0.00070	0.00035	0.0004
1562	Residential	3	4	0.4	3.8	1.6	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1568	Residential	3	4	0.6	4.4	2.5	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1570	Residential	3	4	2.3	4.5	10.3	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00021	0.00000	0.00063	0.00032	0.00000	0.00021	0.00000	0.00063	0.00032	0.0003
1571	Residential	3	4	2.3	4.2	9.7	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1579	Residential	3	4	0.7	3.8	2.7	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1587	Residential	3	4	1.6	2.5	4.0	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1591	Residential	3	4	2.9	2.8	8.0	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1592	Residential	3	4	1.0	4.3	4.5	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1594	Residential	3	4	0.6	8.5	4.9	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1597	Residential	3	4	2.2	3.7	8.1	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1603	Residential	3	4	1.0	4.9	4.8	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2499	Commercial	10	4	0.1	0.7	0.1	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
2770	Residential	3	4	0.1	0.4	0.0	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2794	Residential	3	4	0.1	0.9	0.1	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2829	Residential	3	4	0.1	1.0	0.1	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2846	Residential	3	4	0.1	1.5	0.1	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3503	Residential	3	4	0.5	2.0	1.0	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3505	Residential	3	4	0.8	1.7	1.3	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3509	Residential	3	4	0.6	1.7	1.0	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3532	Residential	3	4	0.8	1.3	1.1	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3541	Residential	3	4	0.1	7.3	1.0	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3547	Residential	3	4	0.4	1.9	0.8	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3551	Residential	3	4	0.2	4.8	0.8	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3606	Residential	3	4	0.7	1.4	0.9	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3613	Residential	3	4	0.6	1.5	0.8	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3632	Residential	3	4	0.7	1.0	0.7	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3646	Residential	3	4	0.6	1.1	0.6	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3649	Residential	3	4	0.8	1.4	1.2	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3698	Residential	3	4	0.4	4.1	1.7	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3720	Commercial	10	4	0.8	1.5	1.2	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3742	Commercial	10	4	0.6	2.4	1.6	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3758	Commercial	10	4	0.8	1.8	1.4	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3771	Commercial	10	4	1.0	1.4	1.4	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3788	Commercial	10	4	0.9	2.0	1.9	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3807	Commercial	10	4	1.0	1.6	1.6	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3873	Residential	3	4	0.9	1.9	1.6	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4154	Commercial	10	4	0.3	4.2	1.4	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4392	Residential	3	4	0.3	2.3	0.8	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4406	Residential	3	4	0.4	1.0	0.4	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4432	Residential	3	4	0.1	4.9	0.3	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4468	Residential	3	4	0.4	1.4	0.5	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4470	Residential	3	4	0.2	1.6	0.4	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4477	Residential	3	4	0.3	1.3	0.4	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4487	Residential	3	4	0.2	1.5	0.4	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4525	Residential	3	4	0.0	0.1	0.0	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4528	Residential	3	4	1.6	3.9	6.5	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4592	Residential	3	4	0.1	1.3	0.1	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4990	Residential	3	4	0.2	0.5	0.1	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4992	Residential	3	4	0.2	0.3	0.1	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5024	Residential	3	4	0.1	3.7	0.5	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5069	Residential	3	4	0.5	1.4	0.7	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5074	Residential	3	4	0.1	5.9	0.4	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3708	Residential	3	4	0.7	1.8	1.2	5.00	5.25	4.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1428	Residential	3	4	0.1	0.1	0.0	5.01	5.26	4.26	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4471	Residential	3	4	0.2	2.1	0.4	5.02	5.27	4.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4395	Residential	3	4	0.1	7.5	0.6	5.02	5.27	4.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4166	Residential	3	4	0.1	7.5	1.0	5.02	5.27	4.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4785	Residential	3	4	0.1	0.1	0.0	5.02	5.27	4.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4959	Residential	3	4	0.2	0.3	0.1	5.02	5.27	4.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4818	Residential	3	4	0.5	3.6	1.7	5.02	5.27	4.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4510	Residential	3	4	0.2	1.6	0.3	5.02	5.27	4.27	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3527	Residential	3	4	0.7	1.5	1.0	5.03	5.28	4.28	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2862	Residential	3	4	0.1	2.7	0.2	5.03	5.28	4.28	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3677	Residential	3	4	0.3	2.1	0.6	5.03	5.28	4.28	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3559	Residential	3	4	0.0	0.1	0.0	5.03	5.28	4.28	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4745	Residential	3	4	0.3	9.2	2.8	5.03	5.28	4.28	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3715	Residential	3	4	0.8	1.6	1.2	5.04	5.29	4.29	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4397	Residential	3	4	0.2	2.8	0.7	5.04	5.29	4.29	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3524	Residential	3	4	0.4	1.7	0.8	5.04	5.29	4.29	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3726	Commercial	10	4	0.8	1.5	1.2	5.04	5.29	4.29	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4461	Residential	3	4	0.1	3.7	0.4	5.04	5.29	4.29	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4409	Residential	3	4	0.2	2.8	0.5	5.06	5.31	4.31	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3534	Residential	3	4	0.1	0.1	0.0	5.06	5.31	4.31	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4027	Residential	3	4	0.2	5.3	1.1	5.06	5.31	4.31	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1459	Residential	3	4	0.4	1.1	0.5	5.06	5.31	4.31	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3565	Residential	3	4	0.4	1.9	0.9	5.07	5.32	4.32	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4483	Residential	3	4	0.1	0.1	0.0	5.07	5.32	4.32	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4437	Residential	3	4	0.3	1.5	0.4	5.07	5.32	4.32	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2816	Residential	3	4	0.1	1.2	0.1	5.07	5.32	4.32	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4390	Residential	3	4	0.2	3.3	0.7	5.07	5.32	4.32	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4517	Residential	3	4	0.3	2.0	0.6	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3564	Residential	3	4	0.2	3.3	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4726	Residential	3	4	0.3	10.7	2.8	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1517	Residential	3	4	0.1	4.3	0.4	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1445	Residential	3	4	0.3	1.1	0.3	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1480	Residential	3	4	0.1	0.1	0.0	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1533	Residential	3	4	0.3	0.3	0.1	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1541	Residential	3	4	0.2	1.0	0.2	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1552	Residential	3	4	0.3	3.1	0.9	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1554	Residential	3	4	0.2	8.1	1.3	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1575	Residential	3	4	0.4	4.5	2.0	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2398	Residential	3	4	0.0	7.0	0.1	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3528	Residential	3	4	0.0	21.5	0.5	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3531	Residential	3	4	0.2	2.9	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3536	Residential	3	4	0.2	3.2	0.6	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3542	Residential	3	4	0.3	3.2	0.8	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3543	Residential	3	4	0.6	1.6	0.9	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3546	Residential	3	4	0.3	2.7	0.8	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3550	Residential	3	4	0.3	2.8	0.9	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3562	Residential	3	4	0.3	2.8	0.8	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3572	Residential	3	4	0.3	2.7	0.8	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3575	Residential	3	4	0.5	1.5	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3582	Residential	3	4	0.2	3.7	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3584	Residential	3	4	0.4	1.7	0.6	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3586	Residential	3	4	0.5	1.8	0.9	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3591	Residential	3	4	0.4	1.9	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3593	Residential	3	4	0.4	1.7	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3600	Residential	3	4	0.7	1.4	1.0	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3609	Residential	3	4	0.5	1.3	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3618	Residential	3	4	0.5	1.5	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3619	Residential	3	4	0.6	1.1	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3629	Residential	3	4	0.4	1.6	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3641	Residential	3	4	0.8	1.4	1.1	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3654	Residential	3	4	0.7	1.7	1.2	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3695	Residential	3	4	0.3	2.0	0.5	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3713	Residential	3	4	0.4	1.4	0.6	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3729	Residential	3	4	0.5	1.4	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3736	Residential	3	4	0.2	2.9	0.6	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3817	Commercial	10	4	0.5	1.1	0.6	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3831	Residential	3	4	0.9	1.6	1.5	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3846	Commercial	10	4	0.2	3.5	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3885	Commercial	10	4	0.2	3.0	0.6	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4394	Residential	3	4	0.1	0.1	0.0	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4398	Residential	3	4	0.1	5.5	0.6	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4414	Residential	3	4	0.3	1.7	0.5	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4415	Residential	3	4	0.1	0.1	0.0	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4436	Residential	3	4	0.5	1.5	0.7	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4449	Residential	3	4	0.4	1.6	0.6	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4453	Residential	3	4	0.3	1.6	0.5	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4458	Residential	3	4	0.4	1.4	0.6	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4460	Residential	3	4	0.3	1.6	0.5	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4464	Residential	3	4	0.4	1.3	0.5	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4474	Residential	3	4	0.4	1.3	0.5	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4480	Residential	3	4	0.1	1.9	0.3	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4534	Residential	3	4	0.0	633.2	2.2	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4603	Residential	3	4	0.0	3.7	0.1	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4639	Residential	3	4	1.4	2.4	3.5	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4724	Residential	3	4	0.3	0.9	0.3	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5084	Residential	3	4	0.2	1.5	0.3	5.08	5.33	4.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4357	Commercial	10	4	0.1	3.0	0.3	5.09	5.34	4.34	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4583	Commercial	10	4	0.1	1.7	0.2	5.10	5.35	4.35	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4533	Residential	3	4	0.2	2.5	0.5	5.10	5.35	4.35	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4429	Residential	3	4	0.3	1.5	0.4	5.11	5.36	4.36	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4444	Residential	3	4	0.1	3.6	0.2	5.11	5.36	4.36	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1514	Residential	3	4	0.4	0.7	0.3	5.11	5.36	4.36	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4403	Residential	3	4	0.2	0.1	0.0	5.11	5.36	4.36	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5018	Residential	3	4	0.3	0.7	0.2	5.11	5.36	4.36	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1491	Residential	3	4	0.3	0.6	0.2	5.11	5.36	4.36	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3568	Residential	3	4	0.2	3.6	0.6	5.12	5.37	4.37	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4513	Residential	3	4	0.0	4.2	0.1	5.12	5.37	4.37	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3756	mmercial/Indus	10	4	0.0	0.1	0.0	5.13	5.38	4.38	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3567	Residential	3	4	0.5	1.5	0.8	5.13	5.38	4.38	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4722	Residential	3	4	0.3	7.7	2.6	5.14	5.39	4.39	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1504	Residential	3	4	0.3	0.9	0.3	5.14	5.39	4.39	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4059	Residential	3	4	0.5	2.9	1.4	5.14	5.39	4.39	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5013	Residential	3	4	0.1	2.4	0.4	5.14	5.39	4.39	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4488	Residential	3	4	0.3	1.8	0.6	5.15	5.40	4.40	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4716	Residential	3	4	0.2	0.1	0.0	5.15	5.40	4.40	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4747	Residential	3	4	0.2	0.1	0.0	5.15	5.40	4.40	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4455	Residential	3	4	0.1	1.2	0.2	5.16	5.41	4.41	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4743	Residential	3	4	0.5	6.4	3.3	5.16	5.41	4.41	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2392	Residential	3	4	0.1	1.0	0.1	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1254	Farm/Shop	2	4	1.4	1.5	2.2	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
1484	Residential	3	4	0.6	0.6	0.3	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1874	Airport	30	4	0.1	0.3	0.0	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.018	0.009	0	0.0006	0.0003	0	0.018	0.009	0.009	0.00000	0.00020	0.00000	0.00600	0.00300	0.00000	0.00020	0.00000	0.00600	0.00300	0.0030
3538	Residential	3	4	0.5	1.7	0.9	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
3539	Residential	3	4	0.4	1.9	0.7	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3555	Residential	3	4	0.4	2.0	0.9	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3603	Residential	3	4	0.4	1.9	0.7	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3664	Commercial	10	4	0.4	1.4	0.6	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3675	Residential	3	4	0.4	1.7	0.6	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3688	Commercial	10	4	0.4	1.3	0.5	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4250	Commercial	10	4	0.8	1.7	1.3	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4416	Residential	3	4	0.3	1.5	0.5	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4420	Residential	3	4	0.3	1.4	0.4	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4446	Commercial	10	4	0.4	1.3	0.6	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4481	Residential	3	4	0.3	1.7	0.6	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4484	Residential	3	4	0.4	1.2	0.4	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4493	Residential	3	4	0.3	1.1	0.4	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4501	Residential	3	4	0.3	1.1	0.3	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4531	Residential	3	4	0.0	0.1	0.0	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4547	Residential	3	4	0.1	1.9	0.1	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4550	Commercial	10	4	0.1	1.1	0.1	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4564	Residential	3	4	0.1	0.1	0.0	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4579	Residential	3	4	0.0	0.1	0.0	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4638	Residential	3	4	0.6	1.7	0.9	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4642	Residential	3	4	0.3	0.3	0.1	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4793	Residential	3	4	0.8	2.8	2.3	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5014	Road	2	4	0.4	6.1	2.3	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5088	Residential	3	4	0.7	0.2	0.1	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5104	Residential	3	4	0.2	0.4	0.1	5.17	5.42	4.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5113	Residential	3	4	0.5	1.5	0.7	5.18	5.43	4.43	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4423	Residential	3	4	0.2	2.6	0.5	5.19	5.44	4.44	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3553	Residential	3	4	0.1	0.1	0.0	5.20	5.45	4.45	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4717	Residential	3	4	0.5	6.3	3.0	5.20	5.45	4.45	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5095	Residential	3	4	0.2	2.2	0.4	5.21	5.46	4.46	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4518	Residential	3	4	0.0	0.1	0.0	5.21	5.46	4.46	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4465	Residential	3	4	0.2	0.8	0.1	5.21	5.46	4.46	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4552	Residential	3	4	0.1	0.1	0.0	5.22	5.47	4.47	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4889	Residential	3	4	0.2	10.9	2.5	5.22	5.47	4.47	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4540	Residential	3	4	0.0	5.1	0.2	5.23	5.48	4.48	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4410	Residential	3	4	0.1	0.1	0.0	5.24	5.49	4.49	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4916	Residential	3	4	0.0	104.9	0.5	5.24	5.49	4.49	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3628	Residential	3	4	0.3	2.3	0.7	5.24	5.49	4.49	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3690	Commercial	10	4	0.1	5.9	0.7	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3721	Commercial	10	4	0.3	3.0	0.8	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4431	Residential	3	4	0.2	2.2	0.5	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4442	Residential	3	4	0.2	2.2	0.5	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4476	Residential	3	4	0.1	0.1	0.0	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4527	Residential	3	4	0.0	0.1	0.0	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4544	Residential	3	4	0.2	0.9	0.1	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4566	Residential	3	4	0.0	25.5	0.1	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4591	Residential	3	4	0.1	2.0	0.1	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4614	Residential	3	4	0.4	0.8	0.3	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4662	Residential	3	4	0.2	10.2	1.6	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4765	Residential	3	4	0.3	4.7	1.5	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4811	Residential	3	4	0.2	9.4	1.5	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4812	Residential	3	4	0.5	3.4	1.7	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4848	Residential	3	4	0.5	2.3	1.2	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4925	Residential	3	4	0.1	3.2	0.4	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5043	Residential	3	4	0.4	1.8	0.7	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5112	Residential	3	4	0.4	1.9	0.7	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5115	Residential	3	4	1.1	0.7	0.7	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3634	Commercial	10	4	0.5	1.2	0.7	5.25	5.50	4.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4538	Residential	3	4	0.1	0.1	0.0	5.26	5.51	4.51	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2748	Residential	3	4	0.1	0.5	0.0	5.26	5.51	4.51	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4841	Residential	3	4	0.5	3.2	1.5	5.27	5.52	4.52	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4960	Residential	3	4	0.3	3.5	1.2	5.27	5.52	4.52	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4621	Residential	3	4	0.1	1.4	0.1	5.32	5.57	4.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4508	Residential	3	4	0.0	0.1	0.0	5.32	5.57	4.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4658	Residential	3	4	0.1	20.3	2.1	5.32	5.57	4.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5090	Residential	3	4	0.3	0.1	0.0	5.32	5.57	4.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4634	Residential	3	4	0.0	0.1	0.0	5.32	5.57	4.57	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1816	Residential	3	4	2.6	2.2	5.6	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3879	Residential	3	4	0.2	3.0	0.7	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)														RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
4506	Residential	3	4	0.4	1.2	0.5	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4561	Residential	3	4	0.3	2.6	0.8	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4572	Residential	3	4	0.3	0.9	0.2	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4608	Residential	3	4	0.1	1.7	0.1	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4613	Residential	3	4	0.1	1.7	0.1	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4623	Residential	3	4	0.3	0.7	0.2	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4830	Residential	3	4	0.6	6.2	3.9	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4871	Residential	3	4	0.6	1.4	0.9	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5093	Residential	3	4	1.0	1.4	1.3	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5100	Residential	3	4	0.2	0.6	0.1	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5108	Residential	3	4	0.3	1.0	0.3	5.33	5.58	4.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4511	Residential	3	4	0.1	1.6	0.1	5.35	5.60	4.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4598	Residential	3	4	0.0	10.4	0.1	5.35	5.60	4.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5110	Residential	3	4	0.5	0.7	0.4	5.35	5.60	4.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4562	Residential	3	4	0.0	0.1	0.0	5.36	5.61	4.61	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4574	Residential	3	4	0.0	0.1	0.0	5.38	5.63	4.63	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5118	Residential	3	4	0.1	5.9	0.7	5.38	5.63	4.63	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5094	Residential	3	4	0.1	3.8	0.3	5.38	5.63	4.63	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4594	Residential	3	4	0.1	1.2	0.1	5.38	5.63	4.63	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4558	Residential	3	4	0.0	0.1	0.0	5.39	5.64	4.64	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4169	Commercial	10	4	0.1	4.7	0.3	5.39	5.64	4.64	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4611	Residential	3	4	0.2	1.3	0.3	5.40	5.65	4.65	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1394	Residential	3	4	1.2	2.0	2.4	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3457	Commercial	10	4	1.0	0.5	0.5	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3772	Residential	3	4	0.3	1.2	0.4	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4548	Residential	3	4	0.0	0.1	0.0	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4581	Residential	3	4	0.0	3.8	0.1	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4582	Residential	3	4	0.0	3.5	0.1	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4626	Residential	3	4	0.2	0.8	0.2	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4633	Residential	3	4	0.6	0.3	0.2	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4636	Residential	3	4	0.2	0.4	0.1	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4643	Residential	3	4	0.2	0.2	0.0	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4906	Residential	3	4	1.5	2.6	3.9	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5054	Residential	3	4	0.6	0.1	0.0	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5068	Residential	3	4	0.3	0.5	0.1	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5117	Road	2	4	2.5	2.9	7.4	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5128	Residential	3	4	6.0	0.1	0.8	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4588	Residential	3	4	0.1	1.4	0.1	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4966	Residential	3	4	0.3	0.1	0.0	5.42	5.67	4.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4573	Residential	3	4	0.0	3.5	0.2	5.44	5.69	4.69	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1810	Residential	3	4	0.3	2.0	0.5	5.45	5.70	4.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1457	Commercial	10	4	0.2	3.0	0.5	5.45	5.70	4.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4910	Residential	3	4	0.2	2.7	0.5	5.46	5.71	4.71	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4628	Residential	3	4	0.1	1.5	0.1	5.48	5.73	4.73	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4667	Residential	3	4	0.2	2.7	0.6	5.49	5.74	4.74	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4580	Residential	3	4	0.1	0.1	0.0	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1386	Residential	3	4	1.0	9.3	9.0	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1436	Residential	3	4	0.0	15.9	0.2	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1465	Commercial	10	4	0.7	0.4	0.2	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3486	Commercial	10	4	0.5	1.0	0.5	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3997	Commercial	10	4	0.7	1.1	0.8	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4556	Residential	3	4	0.1	1.1	0.1	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4565	Residential	3	4	0.1	0.1	0.0	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4575	Residential	3	4	0.0	0.1	0.0	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4597	Residential	3	4	0.1	1.7	0.1	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4606	Residential	3	4	0.0	5.7	0.1	5.50	5.75	4.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4560	Residential	3	4	0.0	0.1	0.0	5.53	5.78	4.78	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4632	Residential	3	4	0.1	1.4	0.1	5.54	5.79	4.79	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4641	Residential	3	4	0.1	2.2	0.1	5.56	5.81	4.81	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4570	Residential	3	4	0.0	0.1	0.0	5.56	5.81	4.81	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4690	Residential	3	4	0.2	1.1	0.3	5.57	5.82	4.82	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4637	Residential	3	4	0.3	0.1	0.0	5.57	5.82	4.82	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3396	Residential	3	4	0.5	0.4	0.2	5.58	5.83	4.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4590	Residential	3	4	0.1	1.5	0.1	5.58	5.83	4.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4616	Residential	3	4	0.1	3.1	0.2	5.58	5.83	4.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4629	Residential	3	4	0.1	1.5	0.2	5.58	5.83	4.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4646	Residential	3	4	0.1	0.3	0.0	5.58	5.83	4.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4742	Residential	3	4	0.5	1.3	0.6	5.58	5.83	4.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5011	Residential	3	4	0.1	0.4	0.1	5.58	5.83	4.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
								Warning Time (hr)				Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Day	Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
5062	Residential	3	4	0.8	0.2	0.2	5.58	5.83	4.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5067	Residential	3	4	0.5	0.2	0.1	5.58	5.83	4.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3462	Farm/Shop	2	4	0.5	1.5	0.8	5.65	5.90	4.90	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
4630	Residential	3	4	0.3	0.4	0.1	5.66	5.91	4.91	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1476	Residential	3	4	0.2	1.1	0.3	5.66	5.91	4.91	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1424	Residential	3	4	0.1	1.1	0.1	5.67	5.92	4.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1512	Residential	3	4	0.4	0.7	0.3	5.67	5.92	4.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3412	Commercial	10	4	1.0	0.4	0.3	5.67	5.92	4.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
3467	Residential	3	4	0.3	2.1	0.6	5.67	5.92	4.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3513	Residential	3	4	1.0	0.3	0.3	5.67	5.92	4.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3732	Residential	3	4	0.1	1.9	0.2	5.67	5.92	4.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4612	Residential	3	4	0.6	0.5	0.3	5.67	5.92	4.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4810	Residential	3	4	0.1	3.8	0.2	5.67	5.92	4.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4817	Residential	3	4	0.3	0.7	0.2	5.67	5.92	4.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4836	Residential	3	4	0.6	0.5	0.3	5.67	5.92	4.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4814	Residential	3	4	0.0	0.1	0.0	5.69	5.94	4.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4568	Residential	3	4	0.0	0.1	0.0	5.70	5.95	4.95	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4727	Residential	3	4	0.0	0.1	0.0	5.70	5.95	4.95	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4557	Residential	3	4	0.0	0.1	0.0	5.70	5.95	4.95	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2365	Residential	3	4	1.2	1.9	2.3	5.75	6.00	5.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4578	Residential	3	4	0.2	0.6	0.1	5.75	6.00	5.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4585	Residential	3	4	0.2	0.6	0.1	5.75	6.00	5.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4701	Residential	3	4	0.1	1.1	0.2	5.75	6.00	5.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4732	Residential	3	4	0.0	5.6	0.1	5.75	6.00	5.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4878	Residential	3	4	0.4	5.2	1.8	5.75	6.00	5.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4881	Residential	3	4	0.6	0.5	0.3	5.75	6.00	5.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4893	Residential	3	4	0.4	1.1	0.4	5.75	6.00	5.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4665	Residential	3	4	0.0	3.5	0.0	5.76	6.01	5.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4683	Residential	3	4	0.2	0.1	0.0	5.79	6.04	5.04	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5077	Residential	3	4	0.6	0.8	0.5	5.79	6.04	5.04	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4567	Residential	3	4	0.1	0.1	0.0	5.80	6.05	5.05	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4693	Residential	3	4	0.2	0.1	0.0	5.81	6.06	5.06	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4703	Residential	3	4	0.2	0.5	0.1	5.81	6.06	5.06	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4671	Residential	3	4	0.2	0.6	0.1	5.82	6.07	5.07	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4710	Residential	3	4	0.0	0.1	0.0	5.83	6.08	5.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2566	Residential	3	4	1.0	1.6	1.6	5.83	6.08	5.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4730	Residential	3	4	0.0	0.1	0.0	5.83	6.08	5.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4833	Residential	3	4	0.1	0.1	0.0	5.83	6.08	5.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4845	Residential	3	4	0.2	1.0	0.2	5.83	6.08	5.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4864	Residential	3	4	0.3	0.9	0.3	5.83	6.08	5.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4993	Residential	3	4	2.9	2.6	7.4	5.83	6.08	5.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5073	Residential	3	4	0.9	0.1	0.1	5.83	6.08	5.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4659	Residential	3	4	0.1	0.4	0.1	5.84	6.09	5.09	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5072	Residential	3	4	0.4	0.3	0.1	5.86	6.11	5.11	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4677	Residential	3	4	0.1	0.1	0.0	5.87	6.12	5.12	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4718	Residential	3	4	0.1	0.1	0.0	5.90	6.15	5.15	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4656	Residential	3	4	0.0	0.1	0.0	5.90	6.15	5.15	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4682	Residential	3	4	0.2	0.1	0.0	5.90	6.15	5.15	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1488	Residential	3	4	0.3	1.2	0.3	5.91	6.16	5.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3893	Residential	3	4	0.4	0.5	0.2	5.92	6.17	5.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4664	Residential	3	4	0.1	0.2	0.0	5.92	6.17	5.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4840	Residential	3	4	0.0	0.1	0.0	5.92	6.17	5.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4852	Residential	3	4	0.1	1.5	0.2	5.92	6.17	5.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4876	Residential	3	4	0.4	0.7	0.3	5.92	6.17	5.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4880	Residential	3	4	0.3	1.2	0.3	5.92	6.17	5.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4890	Residential	3	4	0.3	1.3	0.4	5.92	6.17	5.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4900	Residential	3	4	0.3	1.3	0.4	5.92	6.17	5.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4917	Residential	3	4	0.4	1.1	0.4	5.92	6.17	5.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5127	Residential	3	4	3.9	0.4	1.6	5.92	6.17	5.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4912	Residential	3	4	0.2	1.5	0.2	5.93	6.18	5.18	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4699	Residential	3	4	0.1	0.1	0.0	5.94	6.19	5.19	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4670	Residential	3	4	0.0	0.1	0.0	5.95	6.20	5.20	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4691	Residential	3	4	0.2	0.1	0.0	5.98	6.23	5.23	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4837	Residential	3	4	0.0	0.1	0.0	5.98	6.23	5.23	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4888	Residential	3	4	0.3	1.2	0.3	6.00	6.25	5.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4931	Residential	3	4	0.3	1.2	0.3	6.00	6.25	5.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4838	Residential	3	4	0.1	0.1	0.0	6.01	6.26	5.26	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4822	Residential	3	4	0.1	1.4	0.2	6.03	6.28	5.28	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5016	Residential	3	4	0.1	0.1	0.0	6.07	6.32	5.32	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted	Day Breach					Night Breach					Weighted
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life			LOL	Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			LOL
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
4855	Residential	3	4	0.1	1.9	0.2	6.07	6.32	5.32	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4661	Residential	3	4	0.1	0.1	0.0	6.08	6.33	5.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3289	Commercial	10	4	0.6	0.6	0.3	6.08	6.33	5.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4772	Residential	3	4	0.1	1.9	0.2	6.08	6.33	5.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4851	Residential	3	4	0.2	1.1	0.2	6.08	6.33	5.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4866	Residential	3	4	0.2	1.1	0.2	6.08	6.33	5.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4898	Residential	3	4	0.3	1.4	0.4	6.08	6.33	5.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4904	Residential	3	4	0.2	1.4	0.3	6.08	6.33	5.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5036	Residential	3	4	0.2	11.6	1.8	6.08	6.33	5.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5131	Residential	3	4	0.2	5.6	1.2	6.08	6.33	5.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4873	Residential	3	4	0.1	1.5	0.2	6.09	6.34	5.34	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4887	Residential	3	4	0.2	1.3	0.3	6.11	6.36	5.36	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4834	Residential	3	4	0.0	0.1	0.0	6.13	6.38	5.38	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4860	Residential	3	4	0.0	2.7	0.1	6.15	6.40	5.40	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3422	Residential	3	4	0.4	0.1	0.1	6.17	6.42	5.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4827	Residential	3	4	0.5	0.5	0.2	6.17	6.42	5.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4862	Residential	3	4	0.0	0.1	0.0	6.17	6.42	5.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4870	Residential	3	4	0.2	1.4	0.2	6.17	6.42	5.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4908	Residential	3	4	0.0	35.7	0.2	6.17	6.42	5.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4915	Residential	3	4	0.3	1.3	0.3	6.17	6.42	5.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4924	Residential	3	4	0.5	0.9	0.5	6.17	6.42	5.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4935	Residential	3	4	0.7	0.6	0.4	6.17	6.42	5.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5066	Road	2	4	1.7	1.4	2.5	6.17	6.42	5.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
4861	Residential	3	4	0.1	0.1	0.0	6.19	6.44	5.44	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2513	Residential	3	4	0.2	0.1	0.0	6.19	6.44	5.44	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3344	Residential	3	4	0.9	0.6	0.5	6.25	6.50	5.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4776	Residential	3	4	0.8	0.3	0.2	6.25	6.50	5.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4895	Residential	3	4	0.0	0.1	0.0	6.25	6.50	5.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4943	Residential	3	4	0.1	6.2	0.5	6.25	6.50	5.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5125	Residential	3	4	0.5	2.2	1.1	6.27	6.52	5.52	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4907	Residential	3	4	0.1	2.5	0.3	6.29	6.54	5.54	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3548	Residential	3	4	0.1	2.9	0.4	6.29	6.54	5.54	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4843	Residential	3	4	0.1	0.1	0.0	6.31	6.56	5.56	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2280	Residential	3	4	0.3	0.3	0.1	6.33	6.58	5.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4731	Residential	3	4	0.1	1.6	0.2	6.33	6.58	5.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4784	Residential	3	4	0.5	0.6	0.3	6.33	6.58	5.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4801	Residential	3	4	0.4	0.8	0.3	6.33	6.58	5.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4857	Residential	3	4	0.0	46.4	0.2	6.33	6.58	5.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4883	Residential	3	4	0.3	1.0	0.3	6.33	6.58	5.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4903	Residential	3	4	0.2	2.0	0.3	6.33	6.58	5.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4922	Residential	3	4	0.5	1.0	0.5	6.33	6.58	5.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4929	Residential	3	4	0.1	6.0	0.5	6.33	6.58	5.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4856	Residential	3	4	0.1	2.0	0.2	6.34	6.59	5.59	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4901	Residential	3	4	0.2	1.8	0.4	6.35	6.60	5.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3044	Road	2	4	0.8	3.6	3.0	6.35	6.60	5.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
4711	Residential	3	4	0.1	0.1	0.0	6.36	6.61	5.61	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5132	Residential	3	4	1.0	2.5	2.4	6.36	6.61	5.61	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3561	Residential	3	4	0.2	0.8	0.2	6.37	6.62	5.62	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4899	Residential	3	4	0.0	7.6	0.2	6.39	6.64	5.64	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4918	Residential	3	4	0.4	1.1	0.4	6.39	6.64	5.64	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4787	Residential	3	4	0.5	0.3	0.2	6.41	6.66	5.66	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
1880	Residential	3	4	0.4	8.1	3.3	6.42	6.67	5.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4809	Residential	3	4	0.1	1.7	0.2	6.42	6.67	5.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4859	Residential	3	4	0.2	1.1	0.2	6.42	6.67	5.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4914	Residential	3	4	0.3	1.1	0.3	6.42	6.67	5.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4930	Residential	3	4	0.1	3.6	0.5	6.42	6.67	5.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4941	Residential	3	4	0.4	1.2	0.5	6.42	6.67	5.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4952	Residential	3	4	0.1	3.4	0.3	6.42	6.67	5.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4955	Residential	3	4	0.1	3.4	0.3	6.42	6.67	5.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5123	Residential	3	4	0.1	5.0	0.4	6.42	6.67	5.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4867	Residential	3	4	0.2	1.2	0.3	6.43	6.68	5.68	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4956	Residential	3	4	0.0	0.1	0.0	6.44	6.69	5.69	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4829	Residential	3	4	0.1	1.2	0.2	6.44	6.69	5.69	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4778	Residential	3	4	0.1	0.9	0.1	6.48	6.73	5.73	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3468	Residential	3	4	0.6	0.4	0.2	6.50	6.75	5.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4877	Residential	3	4	0.2	1.2	0.3	6.50	6.75	5.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4884	Residential	3	4	0.2	1.4	0.3	6.50	6.75	5.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4891	Residential	3	4	0.0	3.8	0.2	6.50	6.75	5.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4896	Residential	3	4	0.3	1.1	0.4	6.50	6.75	5.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)										
													Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach				Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
								Day	Night		Day	Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
4927	Residential	3	4	0.1	4.1	0.2	6.50	6.75	5.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4882	Residential	3	4	0.3	1.3	0.3	6.53	6.78	5.78	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4719	Residential	3	4	0.1	0.1	0.0	6.54	6.79	5.79	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4913	Residential	3	4	0.1	2.1	0.3	6.56	6.81	5.81	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4849	Residential	3	4	0.1	2.0	0.2	6.58	6.83	5.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4902	Residential	3	4	0.2	1.5	0.3	6.58	6.83	5.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4939	Residential	3	4	0.7	0.7	0.5	6.58	6.83	5.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5124	Residential	3	4	2.2	0.4	1.0	6.58	6.83	5.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4975	Commercial	10	4	0.1	5.4	0.3	6.60	6.85	5.85	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4892	Residential	3	4	0.2	1.8	0.3	6.65	6.90	5.90	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4831	Residential	3	4	0.1	1.4	0.2	6.66	6.91	5.91	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4847	Residential	3	4	0.1	1.4	0.2	6.67	6.92	5.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4894	Residential	3	4	0.3	1.2	0.4	6.67	6.92	5.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4920	Residential	3	4	0.5	0.9	0.4	6.67	6.92	5.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4928	Residential	3	4	0.2	2.4	0.5	6.67	6.92	5.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4934	Residential	3	4	0.6	0.6	0.4	6.67	6.92	5.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4947	Residential	3	4	0.4	1.2	0.4	6.67	6.92	5.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4967	Commercial	10	4	0.1	2.4	0.3	6.67	6.92	5.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
5130	Residential	3	4	0.2	11.5	2.3	6.67	6.92	5.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5166	Residential	3	4	0.6	0.9	0.5	6.67	6.92	5.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4796	Residential	3	4	0.7	0.4	0.3	6.67	6.92	5.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4950	Residential	3	4	0.0	0.1	0.0	6.69	6.94	5.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4832	Residential	3	4	0.0	3.6	0.2	6.75	7.00	6.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4858	Residential	3	4	0.1	2.5	0.2	6.75	7.00	6.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4926	Residential	3	4	0.4	1.3	0.5	6.75	7.00	6.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4948	Commercial	10	4	0.2	0.6	0.1	6.75	7.00	6.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4957	Commercial	10	4	0.1	1.4	0.2	6.75	7.00	6.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4961	Commercial	10	4	0.0	7.1	0.3	6.75	7.00	6.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
5107	Road	2	4	8.2	0.7	5.5	6.75	7.00	6.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5126	Residential	3	4	1.9	0.5	1.0	6.75	7.00	6.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5154	Road	2	4	9.0	0.9	7.9	6.75	7.00	6.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5167	Residential	3	4	3.4	3.1	10.4	6.75	7.00	6.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00022	0.00000	0.00065	0.00033	0.00000	0.00022	0.00000	0.00065	0.00033	0.0003
4963	Commercial	10	4	0.1	3.2	0.2	6.76	7.01	6.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4936	Residential	3	4	0.1	0.1	0.0	6.76	7.01	6.01	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4909	Residential	3	4	0.1	3.3	0.2	6.77	7.02	6.02	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3569	Residential	3	4	0.9	1.0	0.9	6.83	7.08	6.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4938	Residential	3	4	0.8	0.7	0.6	6.83	7.08	6.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4942	Residential	3	4	0.4	0.9	0.4	6.83	7.08	6.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4953	Residential	3	4	0.1	2.3	0.3	6.83	7.08	6.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5121	Residential	3	4	1.8	0.4	0.7	6.83	7.08	6.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4940	Commercial	10	4	0.1	0.1	0.0	6.84	7.09	6.09	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4875	Residential	3	4	0.0	0.1	0.0	6.84	7.09	6.09	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4839	Residential	3	4	0.1	0.1	0.0	6.92	7.17	6.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4865	Residential	3	4	0.1	0.6	0.0	6.92	7.17	6.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4954	Residential	3	4	0.1	5.1	0.4	6.92	7.17	6.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4978	Residential	3	4	0.5	0.1	0.1	6.92	7.17	6.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4986	Residential	3	4	0.1	4.8	0.3	6.92	7.17	6.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4987	Commercial	10	4	0.0	0.1	0.0	6.92	7.17	6.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
5169	Road	2	4	8.5	2.6	22.6	6.92	7.17	6.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00074	0.00000	0.00148	0.00074	0.00000	0.00074	0.00000	0.00148	0.00074	0.0007
4979	Residential	3	4	0.6	0.1	0.1	7.00	7.25	6.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4981	Residential	3	4	0.5	0.1	0.0	7.00	7.25	6.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4998	Commercial	10	4	0.1	0.1	0.0	7.00	7.25	6.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4972	Residential	3	4	0.0	21.6	0.3	7.05	7.30	6.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5006	Residential	3	4	0.2	1.6	0.4	7.08	7.33	6.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5165	Residential	3	4	0.4	1.4	0.6	7.08	7.33	6.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5021	Residential	3	4	0.2	2.2	0.4	7.13	7.38	6.38	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3444	Residential	3	4	0.8	2.4	1.8	7.17	7.42	6.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4977	Residential	3	4	0.4	0.2	0.1	7.17	7.42	6.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4985	Residential	3	4	0.1	0.4	0.1	7.17	7.42	6.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4997	Commercial	10	4	0.2	1.7	0.3	7.17	7.42	6.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
5022	Residential	3	4	0.2	2.1	0.4	7.17	7.42	6.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5171	Residential	3	4	2.0	1.7	3.4	7.17	7.42	6.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4970	Residential	3	4	0.2	0.1	0.0	7.20	7.45	6.45	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5019	Commercial	10	4	0.0	0.1	0.0	7.25	7.50	6.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
4971	Residential	3	4	0.4	0.1	0.0	7.25	7.50	6.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5023	Residential	3	4	0.2	2.3	0.3	7.25	7.50	6.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5008	Residential	3	4	0.1	3.6	0.2	7.26	7.51	6.51	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5038	Residential	3	4	0.0	0.1	0.0	7.31	7.56	6.56	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4976	Residential	3	4	0.4	0.2	0.1	7.33	7.58	6.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
5027	Residential	3	4	0.3	1.0	0.3	7.33	7.58	6.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5129	Residential	3	4	1.3	0.8	1.1	7.33	7.58	6.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5168	Residential	3	4	0.2	5.0	1.1	7.33	7.58	6.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5001	Residential	3	4	0.1	2.1	0.2	7.35	7.60	6.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4869	Residential	3	4	0.1	0.1	0.0	7.37	7.62	6.62	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
2688	Road	2	4	0.4	1.2	0.6	7.39	7.64	6.64	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
4965	Residential	3	4	0.7	0.1	0.1	7.42	7.67	6.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4968	Residential	3	4	0.6	0.1	0.1	7.42	7.67	6.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4983	Residential	3	4	0.2	0.3	0.1	7.42	7.67	6.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5029	Residential	3	4	0.2	1.4	0.3	7.42	7.67	6.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5012	Residential	3	4	0.1	2.8	0.2	7.43	7.68	6.68	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5031	Residential	3	4	0.2	1.2	0.2	7.43	7.68	6.68	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4799	Residential	3	4	0.1	0.1	0.0	7.43	7.68	6.68	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4835	Residential	3	4	1.7	0.0	0.0	7.50	7.75	6.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4974	Residential	3	4	0.1	0.5	0.0	7.50	7.75	6.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5005	Residential	3	4	0.1	0.1	0.0	7.50	7.75	6.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5007	Residential	3	4	0.0	4.5	0.1	7.55	7.80	6.80	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5045	Residential	3	4	0.2	1.0	0.2	7.58	7.83	6.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5056	Residential	3	4	0.1	1.1	0.1	7.58	7.83	6.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5149	Residential	3	4	1.0	0.3	0.3	7.58	7.83	6.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5055	Residential	3	4	0.1	1.4	0.1	7.59	7.84	6.84	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4868	Residential	3	4	0.1	0.1	0.0	7.60	7.85	6.85	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5015	Residential	3	4	0.1	2.4	0.1	7.65	7.90	6.90	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5071	Residential	3	4	0.1	1.4	0.1	7.66	7.91	6.91	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4807	Residential	3	4	0.9	0.0	0.0	7.67	7.92	6.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5017	Residential	3	4	0.0	3.5	0.1	7.67	7.92	6.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5025	Residential	3	4	0.1	2.3	0.1	7.67	7.92	6.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5028	Residential	3	4	0.2	0.9	0.2	7.67	7.92	6.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5030	Residential	3	4	0.1	2.1	0.1	7.67	7.92	6.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5033	Residential	3	4	0.1	2.6	0.2	7.67	7.92	6.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5051	Residential	3	4	0.1	1.7	0.2	7.67	7.92	6.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5170	Residential	3	4	0.2	8.1	1.3	7.67	7.92	6.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5172	Residential	3	4	1.7	1.6	2.7	7.67	7.92	6.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5173	Farm/Shop	2	4	1.8	1.9	3.4	7.67	7.92	6.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5177	Road	2	4	9.5	1.0	9.4	7.67	7.92	6.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5081	Residential	3	4	0.0	0.1	0.0	7.72	7.97	6.97	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5042	Residential	3	4	0.1	1.6	0.2	7.75	8.00	7.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5061	Residential	3	4	0.0	2.9	0.1	7.77	8.02	7.02	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4872	Residential	3	4	0.1	0.1	0.0	7.79	8.04	7.04	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5040	Residential	3	4	0.1	2.1	0.1	7.83	8.08	7.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5041	Residential	3	4	0.0	5.3	0.1	7.83	8.08	7.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5047	Residential	3	4	0.0	2.1	0.1	7.83	8.08	7.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5076	Residential	3	4	0.1	1.0	0.1	7.83	8.08	7.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5086	Residential	3	4	0.0	0.1	0.0	7.83	8.08	7.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5087	Residential	3	4	0.0	4.5	0.1	7.83	8.08	7.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5046	Residential	3	4	0.0	2.8	0.1	7.83	8.08	7.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5044	Residential	3	4	0.1	1.6	0.1	7.87	8.12	7.12	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5065	Residential	3	4	0.0	4.0	0.1	7.89	8.14	7.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5035	Residential	3	4	0.0	5.2	0.1	7.89	8.14	7.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5009	Residential	3	4	0.3	0.5	0.1	7.89	8.14	7.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5020	Residential	3	4	0.1	1.2	0.1	7.89	8.14	7.14	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3529	Road	2	4	1.2	2.0	2.3	7.92	8.17	7.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
4964	Residential	3	4	0.2	0.2	0.0	7.92	8.17	7.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5052	Residential	3	4	0.1	1.4	0.1	7.92	8.17	7.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5064	Residential	3	4	0.1	1.4	0.1	7.92	8.17	7.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5083	Residential	3	4	0.1	1.0	0.1	7.92	8.17	7.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5097	Residential	3	4	0.0	4.5	0.1	7.92	8.17	7.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5101	Residential	3	4	0.0	0.1	0.0	7.92	8.17	7.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4982	Residential	3	4	0.1	0.5	0.0	7.92	8.17	7.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5057	Residential	3	4	0.0	4.0	0.1	7.92	8.17	7.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5037	Residential	3	4	0.0	6.0	0.1	7.94	8.19	7.19	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
3696	Road	2	4	3.4	0.8	2.6	8.00	8.25	7.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
4996	Residential	3	4	0.1	0.8	0.1	8.00	8.25	7.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5010	Residential	3	4	0.1	1.0	0.1	8.00	8.25	7.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5150	Residential	3	4	0.3	0.2	0.1	8.00	8.25	7.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5099	Residential	3	4	0.1	1.3	0.1	8.00	8.25	7.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5089	Residential	3	4	0.1	1.6	0.1	8.04	8.29	7.29	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4973	Residential	3	4	0.2	0.3	0.1	8.08	8.33	7.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5153	Residential	3	4	0.3	0.4	0.1	8.08	8.33	7.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

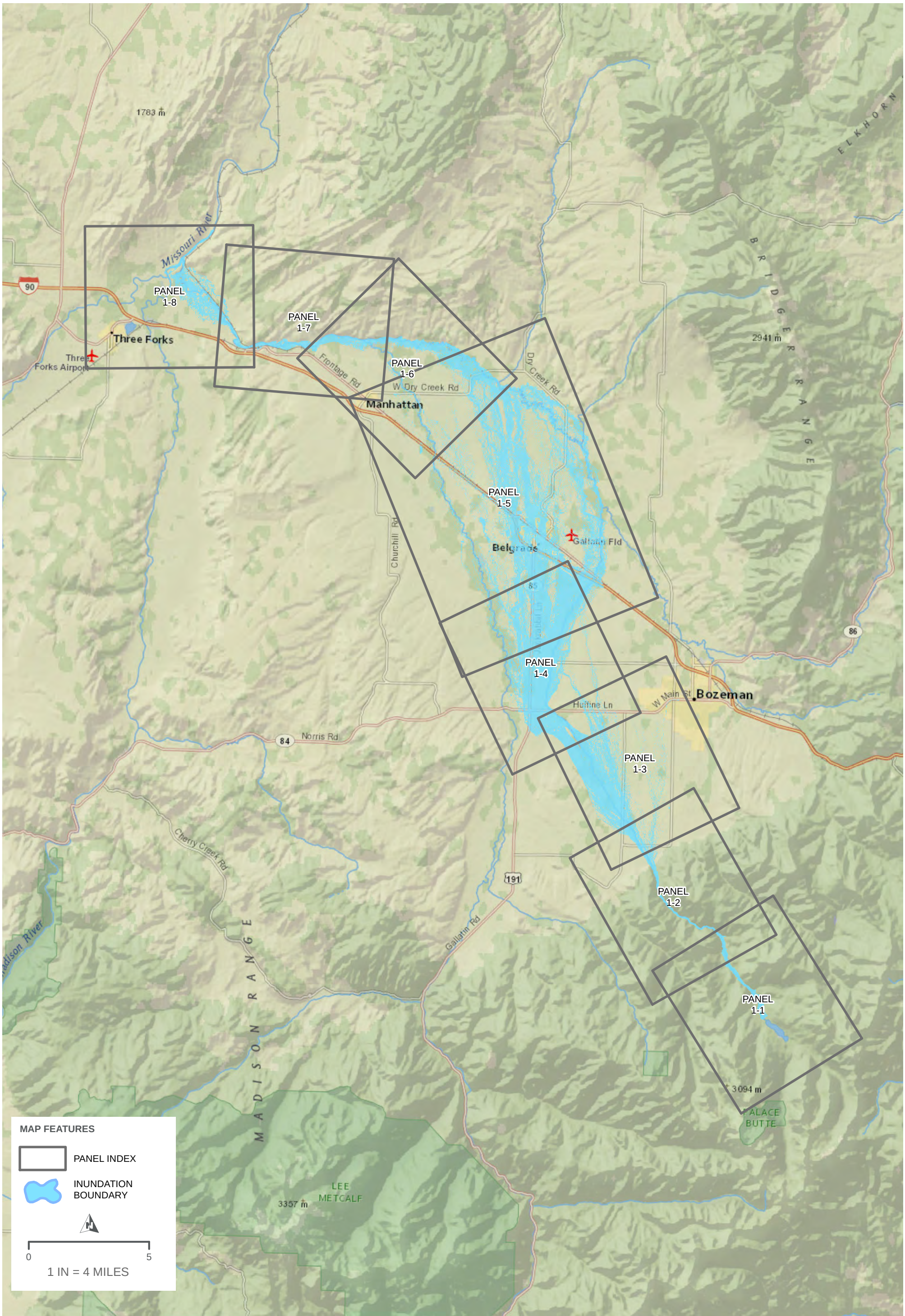
												DSO-99-06 Methodology (USBR 1999)													RCEM 2014 Methodology (USBR 2014)											
												Day Breach						Night Breach						Weighted LOL	Day Breach					Night Breach					Weighted LOL
												Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr) Day	Warning Time (hr) Night	Flood Severity	RCEM Warning Class Day	RCEM Warning Class Night	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
5106	Residential	3	4	0.0	0.1	0.0	8.11	8.36	7.36	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5098	Residential	3	4	0.0	2.1	0.1	8.15	8.40	7.40	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5158	Residential	3	4	0.1	0.6	0.1	8.15	8.40	7.40	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4820	Residential	3	4	0.2	0.2	0.0	8.17	8.42	7.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5152	Residential	3	4	0.0	1.7	0.1	8.17	8.42	7.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5156	Residential	3	4	0.2	0.5	0.1	8.17	8.42	7.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5148	Residential	3	4	0.5	0.2	0.1	8.17	8.42	7.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5178	Residential	3	4	0.0	68.4	2.8	8.17	8.42	7.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4994	Residential	3	4	0.2	0.4	0.1	8.22	8.47	7.47	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4995	Residential	3	4	0.2	0.4	0.1	8.25	8.50	7.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5048	Residential	3	4	0.5	0.4	0.2	8.25	8.50	7.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5034	Residential	3	4	0.3	0.4	0.1	8.26	8.51	7.51	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5151	Residential	3	4	0.1	0.9	0.1	8.35	8.60	7.60	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5091	Residential	3	4	0.2	0.6	0.1	8.42	8.67	7.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5160	Residential	3	4	0.0	1.7	0.1	8.42	8.67	7.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5175	Road	2	4	2.2	1.8	4.0	8.42	8.67	7.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5004	Residential	3	4	0.2	0.1	0.0	8.46	8.71	7.71	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5103	Residential	3	4	0.1	0.8	0.1	8.48	8.73	7.73	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5155	Residential	3	4	0.1	0.1	0.0	8.49	8.74	7.74	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5157	Residential	3	4	0.1	1.0	0.1	8.50	8.75	7.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5164	Residential	3	4	0.1	0.3	0.0	8.50	8.75	7.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5174	Road	2	4	1.5	3.1	4.6	8.50	8.75	7.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5176	Road	2	4	1.5	2.3	3.3	8.50	8.75	7.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5181	Residential	3	4	0.6	6.0	3.4	8.50	8.75	7.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5159	Residential	3	4	0.0	0.1	0.0	8.55	8.80	7.80	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5161	Residential	3	4	0.1	2.7	0.1	8.61	8.86	7.86	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4846	Residential	3	4	0.7	0.0	0.0	8.67	8.92	7.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5026	Residential	3	4	2.8	0.1	0.2	8.67	8.92	7.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5060	Residential	3	4	0.1	0.1	0.0	8.67	8.92	7.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5105	Residential	3	4	0.3	0.6	0.2	8.83	9.08	8.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4823	Residential	3	4	0.2	0.4	0.1	8.85	9.10	8.10	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5039	Residential	3	4	0.5	0.4	0.2	8.91	9.16	8.16	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5162	Residential	3	4	0.1	2.6	0.1	8.97	9.22	8.22	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4850	Residential	3	4	1.2	0.0	0.0	9.00	9.25	8.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5070	Residential	3	4	0.2	0.1	0.0	9.05	9.30	8.30	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5133	Residential	3	4	0.1	0.4	0.1	9.08	9.33	8.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5082	Residential	3	4	0.1	0.1	0.0	9.12	9.37	8.37	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4551	Farm/Shop	2	4	0.6	1.7	0.9	9.25	9.50	8.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5136	Residential	3	4	0.2	0.2	0.0	9.25	9.50	8.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5163	Residential	3	4	0.0	0.1	0.0	9.33	9.58	8.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5049	Residential	3	4	0.3	0.9	0.3	9.33	9.58	8.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5135	Residential	3	4	1.0	0.2	0.2	9.33	9.58	8.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5137	Residential	3	4	0.2	0.2	0.0	9.33	9.58	8.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5142	Residential	3	4	0.2	0.1	0.0	9.33	9.58	8.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5143	Residential	3	4	0.1	0.2	0.0	9.47	9.72	8.72	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5119	Residential	3	4	0.8	0.2	0.1	9.58	9.83	8.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5186	Residential	3	4	2.9	4.6	13.4	9.58	9.83	8.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00034	0.00000	0.00101	0.00050	0.00000	0.00034	0.00000	0.00101	0.00050	0.0005
5075	Residential	3	4	0.1	3.4	0.2	9.75	10.00	9.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5138	Residential	3	4	0.0	0.1	0.0	9.75	10.00	9.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5188	Road	2	4	7.1	0.9	6.2	9.75	10.00	9.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5187	Residential	3	4	0.9	4.6	4.2	9.83	10.08	9.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5092	Residential	3	4	0.2	0.9	0.2	10.00	10.25	9.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5145	Residential	3	4	0.2	0.0	0.0	10.00	10.25	9.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5109	Residential	3	4	0.0	1.4	0.1	10.17	10.42	9.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5080	Residential	3	4	0.1	0.1	0.0	10.33	10.58	9.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5122	Residential	3	4	2.8	2.1	5.9	10.33	10.58	9.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5134	Residential	3	4	1.2	0.0	0.0	10.33	10.58	9.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5141	Residential	3	4	0.1	0.1	0.0	10.33	10.58	9.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5085	Residential	3	4	0.0	0.1	0.0	10.33	10.58	9.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5078	Residential	3	4	0.8	0.0	0.0	10.42	10.67	9.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5140	Residential	3	4	0.0	1.4	0.0	10.42	10.67	9.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5139	Residential	3	4	0.0	0.1	0.0	10.45	10.70	9.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5096	Residential	3	4	0.1	0.1	0.0	10.45	10.70	9.70	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5111	Residential	3	4	0.1	0.4	0.0	10.58	10.83	9.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5146	Residential	3	4	0.3	0.1	0.0	10.58	10.83	9.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5185	Road	2	4	1.2	1.0	1.1	10.67	10.92	9.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5102	Residential	3	4	0.4	0.3	0.1	10.69	10.94	9.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5120	Residential	3	4	0.2	9.6	1.8	10.75	11.00	10.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5144	Residential	3	4	0.1	0.1	0.0	10.75	11.00	10.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.

Loss of Life Calculations
Middle Creek (Hyalite) Dam
June, 2017

Less than 15 min
Between 15 and 60 min
Greater than 60 min

													DSO-99-06 Methodology (USBR 1999)												RCEM 2014 Methodology (USBR 2014)											
													Day Breach						Night Breach						Weighted LOL	Day Breach						Night Breach					Weighted LOL
													Fatality Rate			Loss of Life			Fatality Rate			Loss of Life				Fatality Rate		Loss of Life			Fatality Rate		Loss of Life			
ID	PAR Type	PAR	PAR Reach	Max Depth (ft)	Max Vel (ft/s)	Max DV (ft^2/s)	Arrival Time (hr)	Warning Time (hr)		Flood Severity	RCEM Warning Class		Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Min	Max	Sugg	Total	Min	Max	Min	Max	Mean	Min	Max	Min	Max	Mean	Total
								Day	Night		Day	Night																								
5053	Residential	3	4	0.4	0.0	0.0	10.83	11.08	10.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5079	Residential	3	4	0.2	0.2	0.0	10.83	11.08	10.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5116	Residential	3	4	0.1	1.2	0.1	11.00	11.25	10.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5114	Residential	3	4	0.1	1.2	0.1	11.08	11.33	10.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5063	Residential	3	4	0.1	0.1	0.0	12.69	12.94	11.94	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5147	Residential	3	4	0.6	0.2	0.1	12.92	13.17	12.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5179	Farm/Shop	2	4	0.4	0.1	0.1	14.25	14.50	13.50	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
4989	Residential	3	4	0.3	0.0	0.0	14.75	15.00	14.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5180	Residential	3	4	0.4	0.6	0.3	14.83	15.08	14.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5184	Farm/Shop	2	4	2.4	0.3	0.8	15.83	16.08	15.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5182	Farm/Shop	2	4	1.1	0.3	0.3	16.17	16.42	15.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5183	Residential	3	4	0.5	0.8	0.4	16.50	16.75	15.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
4923	Residential	3	4	1.2	0.0	0.0	18.58	18.83	17.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5189	Road	2	5	7.4	4.5	33.7	10.50	10.75	9.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00135	0.00000	0.00270	0.00135	0.00000	0.00135	0.00000	0.00270	0.00135	0.0013
5190	Residential	3	5	1.1	1.7	1.9	10.92	11.17	10.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5217	Road	2	5	7.0	3.0	21.2	13.67	13.92	12.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00067	0.00000	0.00133	0.00067	0.00000	0.00067	0.00000	0.00133	0.00067	0.0007
5194	Residential	3	5	3.8	1.7	6.7	13.75	14.00	13.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5196	Residential	3	5	3.9	1.9	7.5	13.75	14.00	13.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5204	Residential	3	5	4.1	2.2	9.0	13.75	14.00	13.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5207	Residential	3	5	3.8	2.5	9.4	13.75	14.00	13.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5192	Residential	3	5	3.2	1.8	5.9	13.83	14.08	13.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5198	Residential	3	5	3.5	1.7	6.0	13.83	14.08	13.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5201	Residential	3	5	3.4	1.8	6.2	13.83	14.08	13.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5213	Residential	3	5	4.4	2.2	9.6	13.83	14.08	13.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5215	Residential	3	5	4.4	2.1	9.4	13.83	14.08	13.08	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5203	Residential	3	5	3.0	2.1	6.2	13.92	14.17	13.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5205	Residential	3	5	2.6	2.4	6.3	13.92	14.17	13.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5208	Residential	3	5	2.6	2.5	6.5	13.92	14.17	13.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5211	Residential	3	5	4.2	2.3	9.7	13.92	14.17	13.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5214	Residential	3	5	3.0	2.2	6.6	13.92	14.17	13.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5218	Road	2	5	6.2	2.8	17.4	13.92	14.17	13.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00050	0.00000	0.00099	0.00050	0.00000	0.00050	0.00000	0.00099	0.00050	0.0005
5210	Residential	3	5	2.8	2.5	7.1	14.00	14.25	13.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5212	Residential	3	5	3.0	2.3	6.9	14.00	14.25	13.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5216	Residential	3	5	3.6	4.4	16.0	14.00	14.25	13.25	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00044	0.00000	0.00132	0.00066	0.00000	0.00044	0.00000	0.00132	0.00066	0.0007
5191	Residential	3	5	0.4	0.2	0.1	15.33	15.58	14.58	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5193	Commercial	10	5	0.3	0.3	0.1	15.58	15.83	14.83	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
5200	Residential	3	5	2.8	0.0	0.1	15.75	16.00	15.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5219	Residential	3	5	0.9	1.0	1.0	15.75	16.00	15.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5220	Residential	3	5	0.7	1.8	1.2	16.42	16.67	15.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5221	Residential	3	5	0.8	2.2	1.7	16.42	16.67	15.67	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5199	Residential	3	5	1.9	0.0	0.1	16.75	17.00	16.00	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5202	Residential	3	5	1.2	0.1	0.1	17.67	17.92	16.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5209	Residential	3	5	0.2	0.1	0.0	17.67	17.92	16.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5223	Road	2	5	8.1	1.2	9.5	17.67	17.92	16.92	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5222	Road	2	5	5.3	0.4	1.9	17.92	18.17	17.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0012	0.0006	0	0.0006	0.0003	0	0.0012	0.0006	0.0006	0.00000	0.00020	0.00000	0.00040	0.00020	0.00000	0.00020	0.00000	0.00040	0.00020	0.0002
5224	Park	10	5	3.5	2.2	7.8	17.92	18.17	17.17	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.006	0.003	0	0.0006	0.0003	0	0.006	0.003	0.003	0.00000	0.00020	0.00000	0.00200	0.00100	0.00000	0.00020	0.00000	0.00200	0.00100	0.0010
5195	Residential	3	5	1.2	0.1	0.1	18.17	18.42	17.42	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5206	Residential	3	5	0.3	0.1	0.0	19.50	19.75	18.75	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
5197	Residential	3	5	0.7	0.2	0.1	20.08	20.33	19.33	LOW	Adequate	Adequate	0	0.0006	0.0003	0	0.0018	0.0009	0	0.0006	0.0003	0	0.0018	0.0009	0.0009	0.00000	0.00020	0.00000	0.00060	0.00030	0.00000	0.00020	0.00000	0.00060	0.00030	0.0003
Reach 1		**32**														**0.0**	**0.2**	**0.1**				**1.0**	**11.2**	**0.1**	**0.1**		**11.1**	**22.5**	**16.8**		**11.1**	**22.5**	**16.8**	**16.8**
Reaches 1-2		**3706**														**1.5**	**20.3**	**10.2**				**2.8**	**37.3**	**11.6**	**10.9**		**11.1**	**25.6**	**18.3**		**11.1**	**25.6**	**18.3**	**18.3**
Reaches 1-3		**8270**														**1.7**	**24.7**	**12.4**				**2.9**	**41.7**	**13.8**	**13.1**		**11.1**	**27.2**	**19.2**		**11.1**	**27.2**	**19.2**	**19.2**
Reaches 1-4		**21098**														**1.7**	**33.0**	**16.5**				**3.0**	**50.0**	**17.9**	**17.2**		**11.1**	**29.8**	**20.5**		**11.1**	**29.8**	**20.5**	**20.5**
Total		**21215**														**1.7**	**33.1**	**16.5**				**3.0**	**50.1**	**17.9**	**17.2**		**11.1**	**29.8**	**20.5**		**11.1**	**29.8**	**20.5**	**20.5**

Appendix H – DV Maps

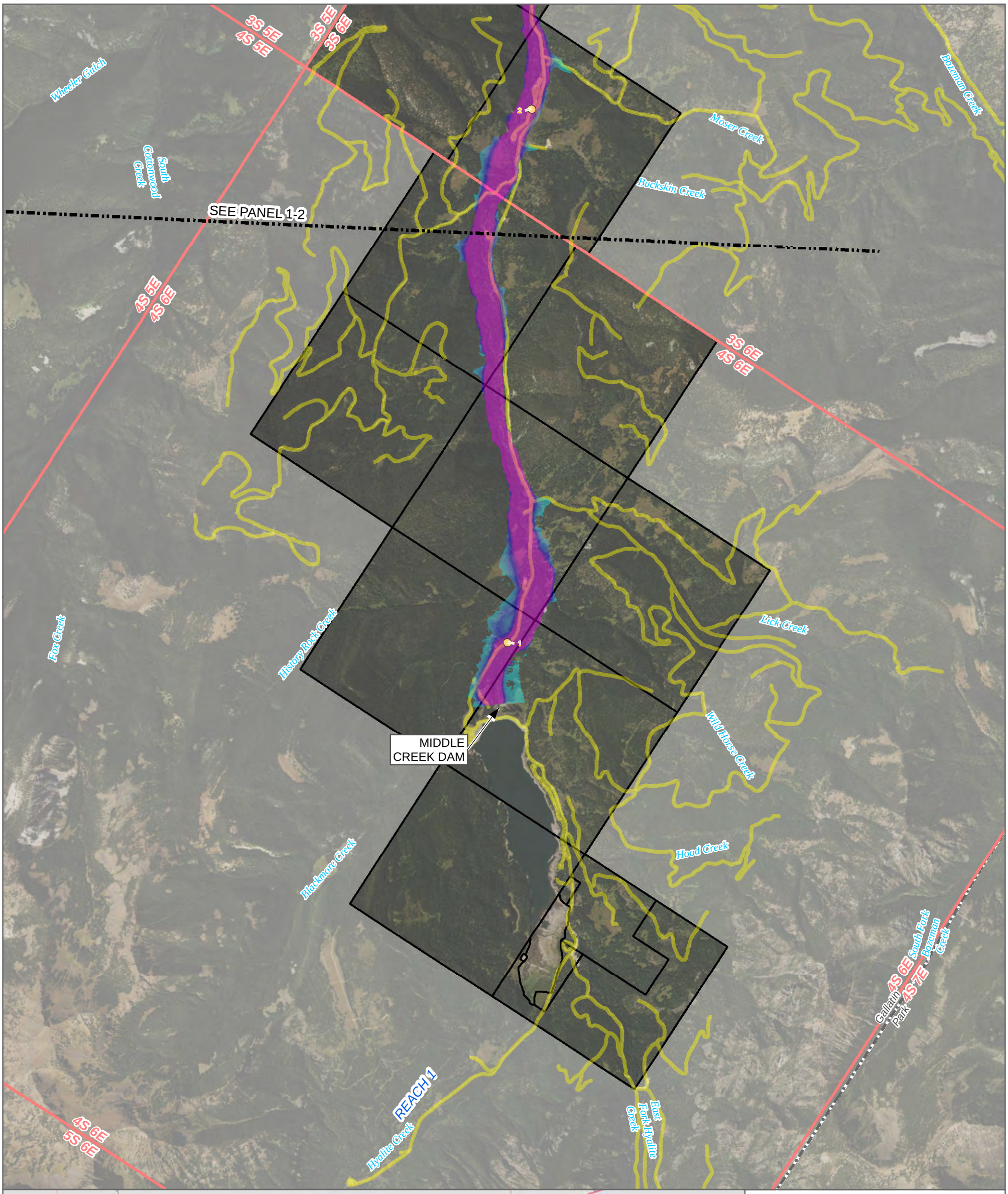


DATA SOURCES: MICROSOFT AND IT'S DATA SUPPLIERS, ESRI, USGS, MT CADASTRAL, MSDI
MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

MIDDLE CREEK DAM
BREACH ANALYSIS
SIMPLIFIED INUNDATION BOUNDARY

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_PANEL1_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017

MAPBOOK INDEX



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 1,500 3,000
1 INCH = 3,000 FEET

PLEASE NOTE: THE INFORMATION PROVIDED IN THIS DOCUMENT HAS BEEN ASSEMBLED FROM A VARIETY OF PUBLIC RECORDS, OTHER READILY AVAILABLE PUBLIC SOURCES, AND PERTINENT DESIGN DATA. AFOREMENTIONED INFORMATION AND SUPPORTING DOCUMENTATION IS ALSO

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-1

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_PANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 1,500 3,000
1 INCH = 3,000 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

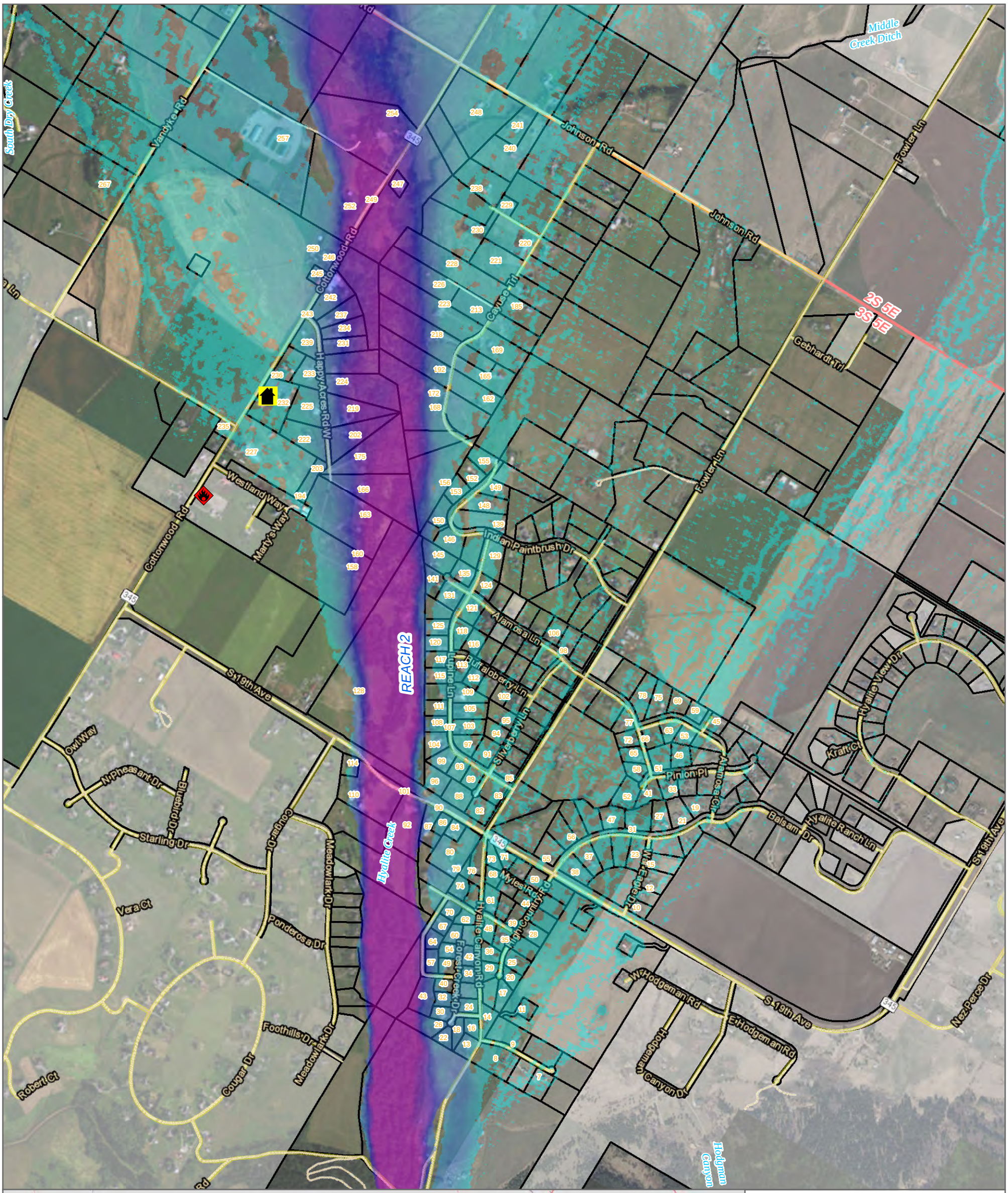
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-2

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_PANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

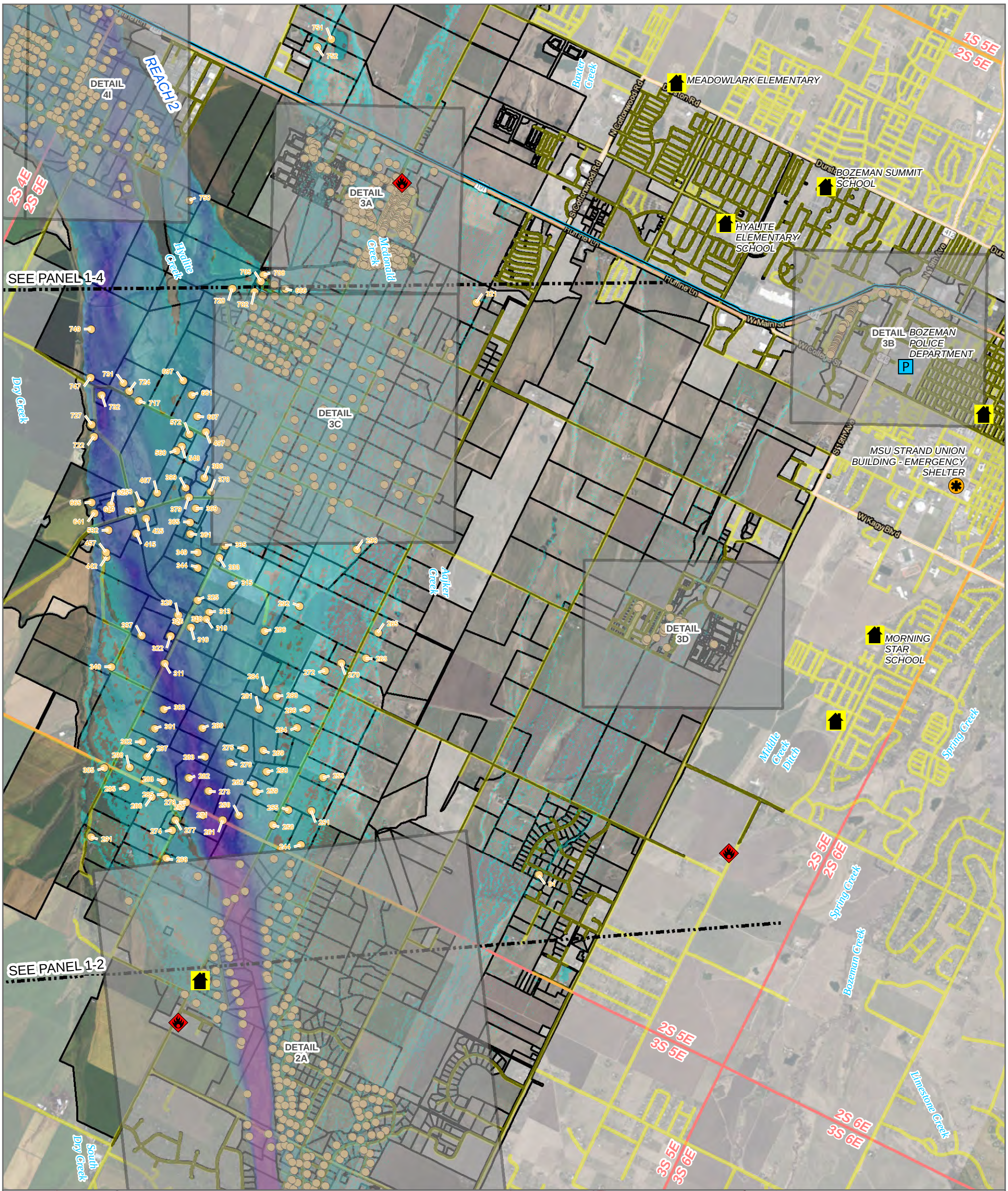
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-2A

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_DETAILEDPANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

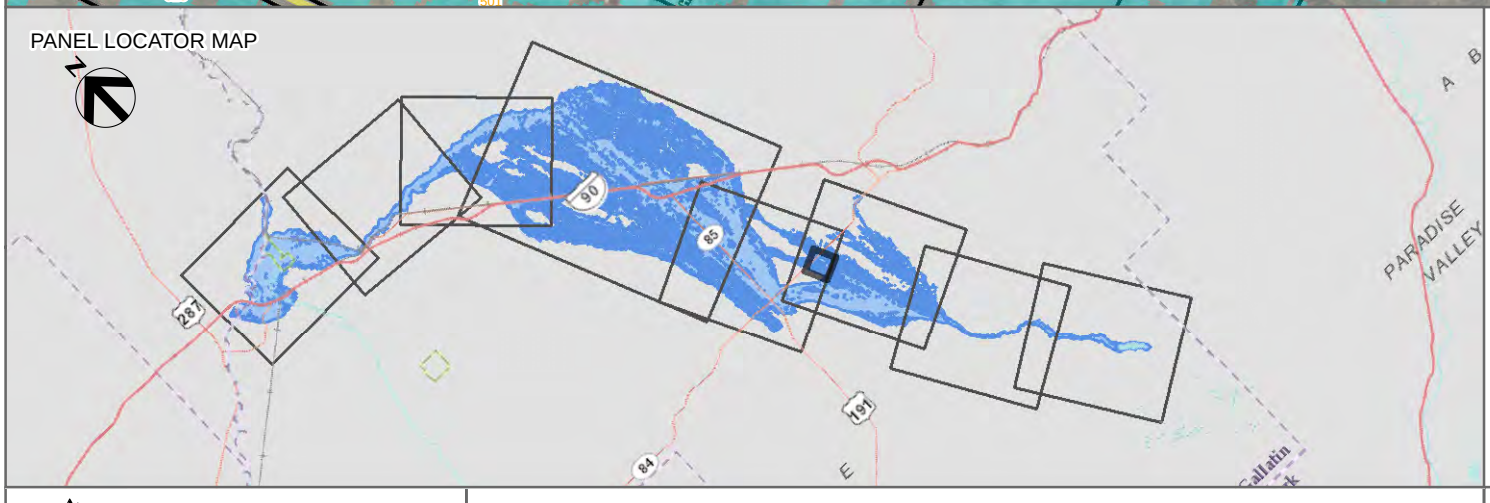
ISSUED: 6/12/2017

PANEL 1-3

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_PANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 460 920
1 INCH = 550 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

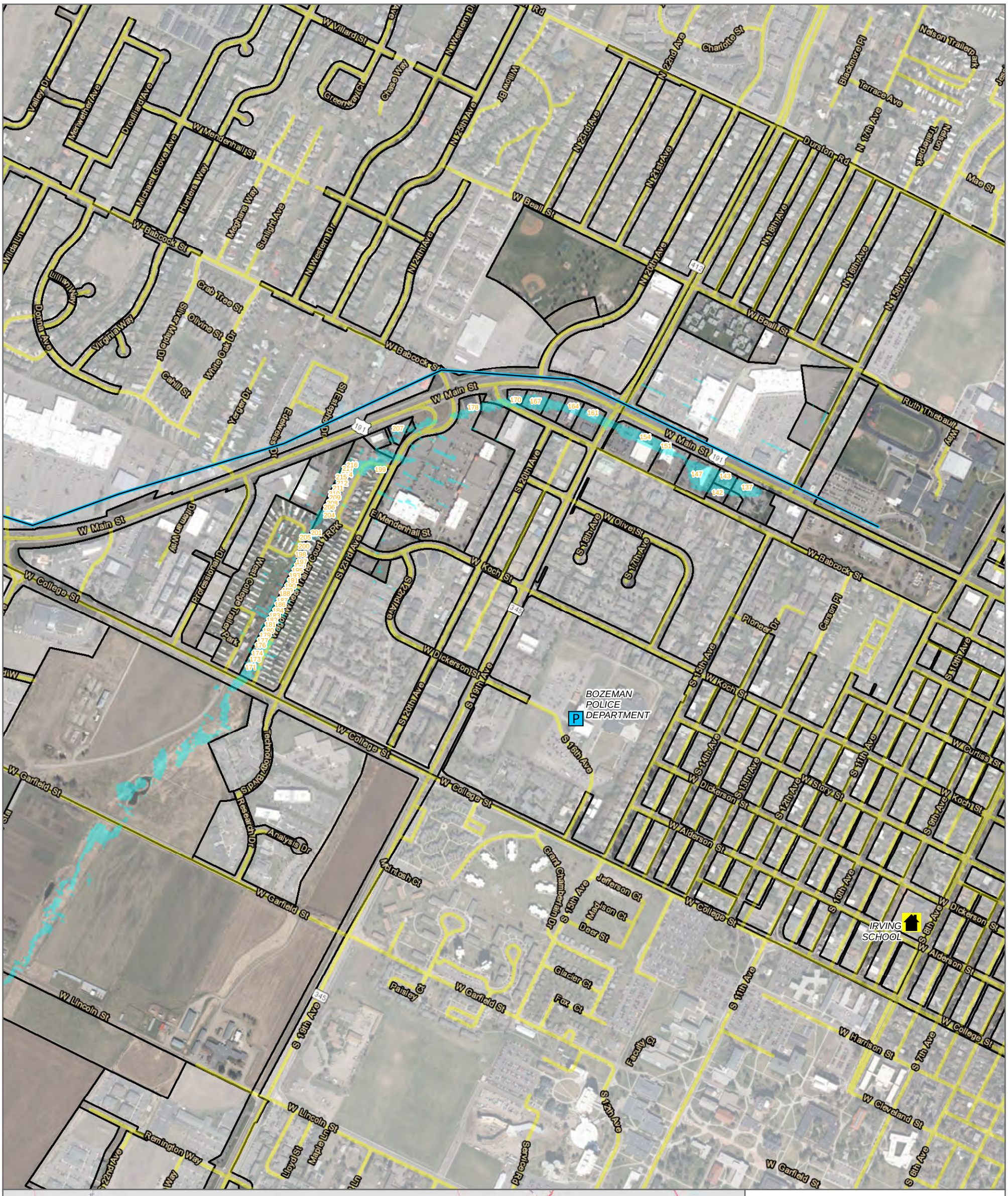
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-3A

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_DETAILEDPANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 570 1,140

1 INCH = 700 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

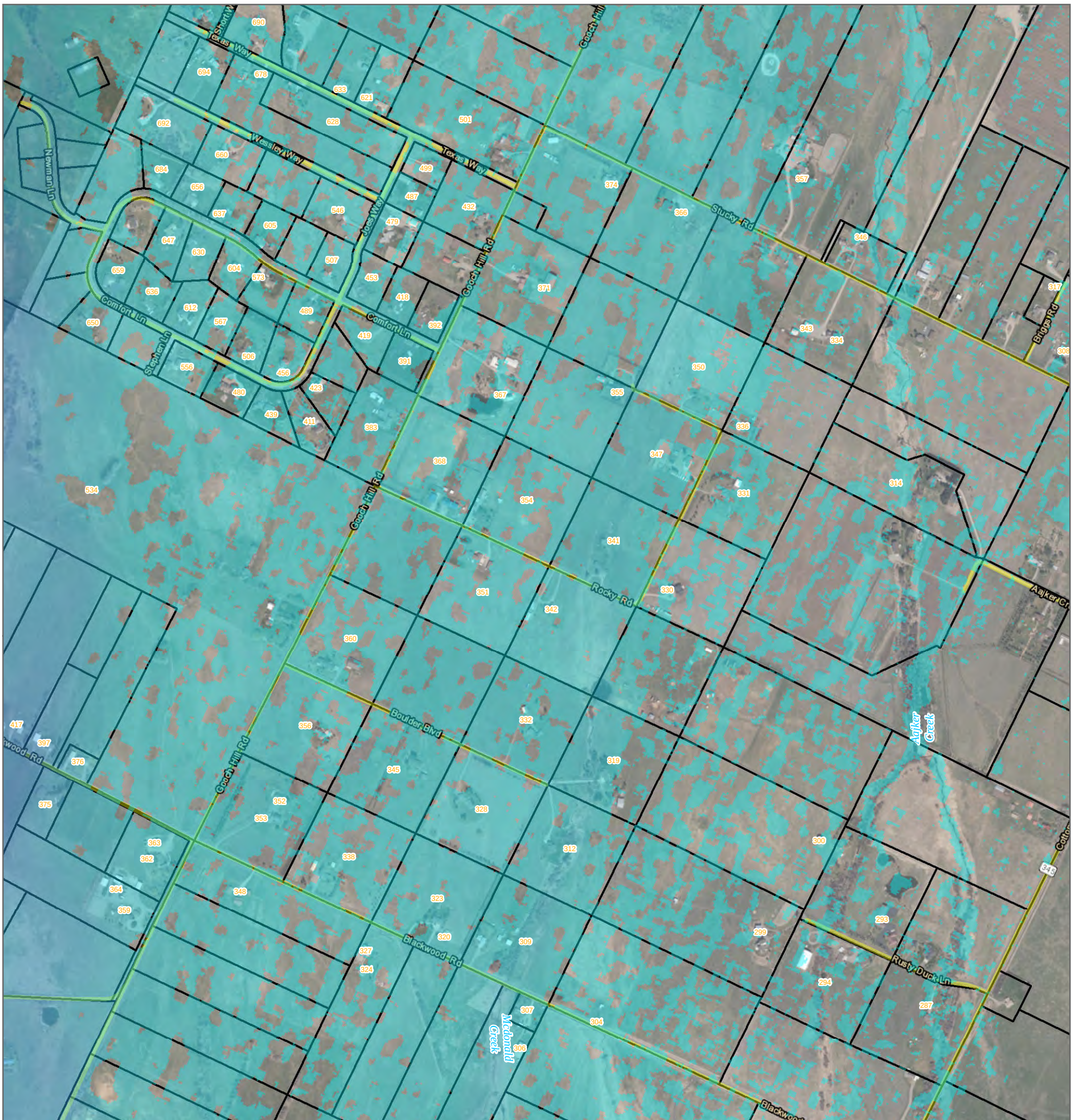
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

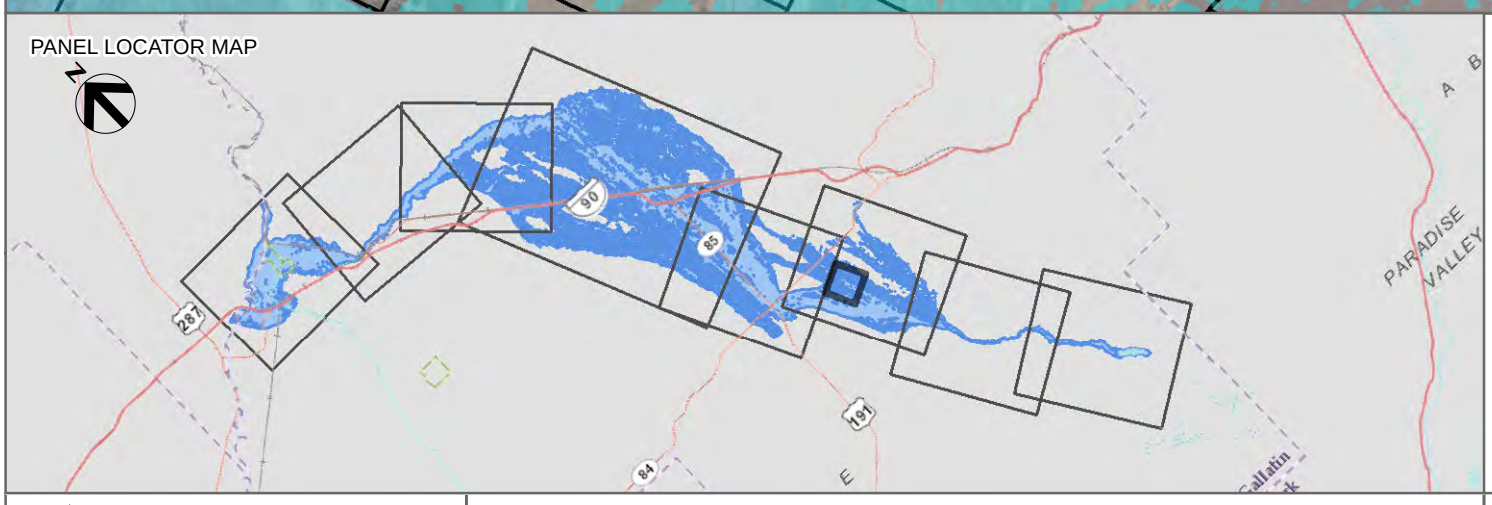
ISSUED: 6/12/2017

PANEL 1-3B

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_DETAILEDPANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 570 1,140
1 INCH = 700 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-3C

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_DETAILEDPANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 650 1,300
1 INCH = 800 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

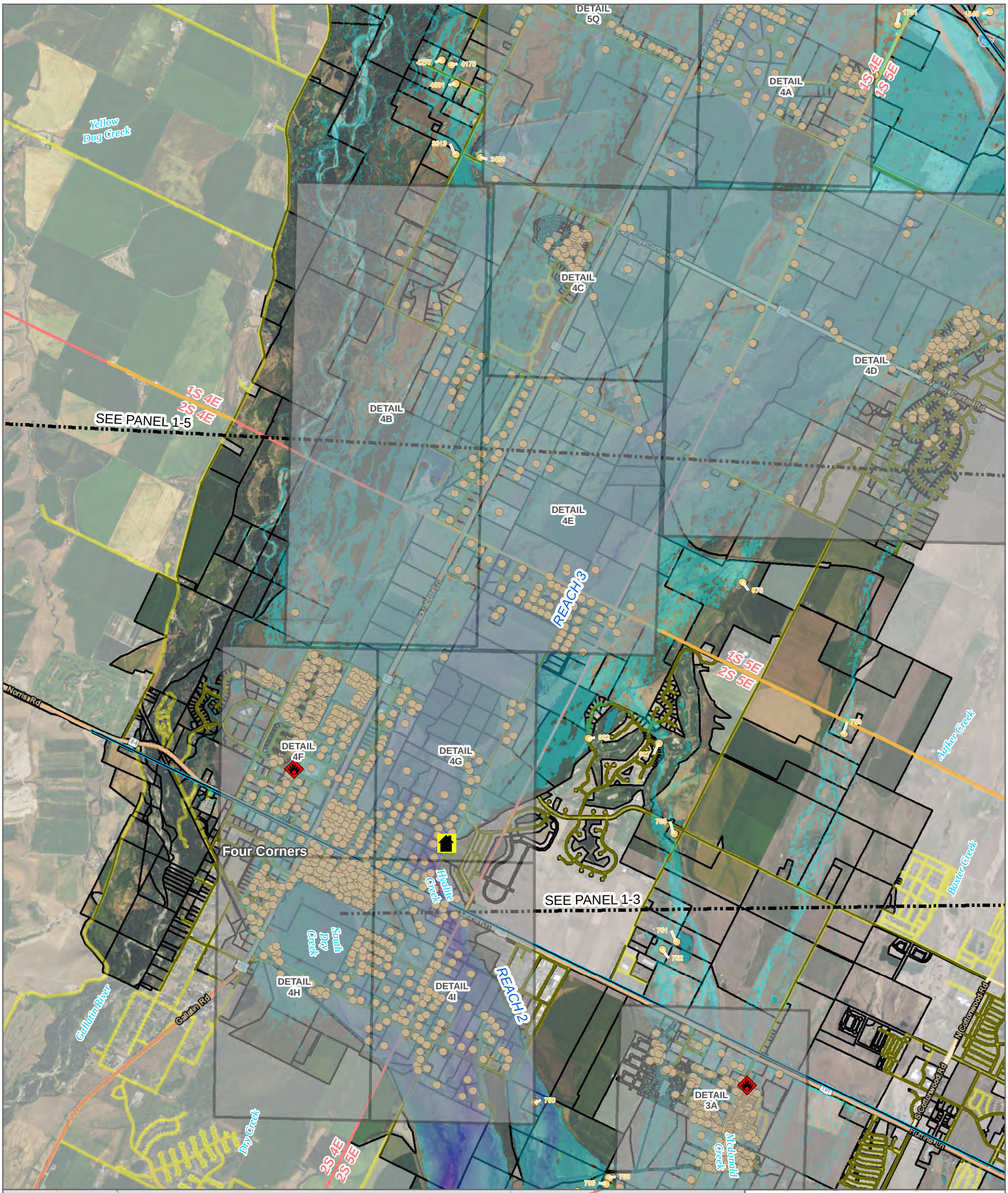
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

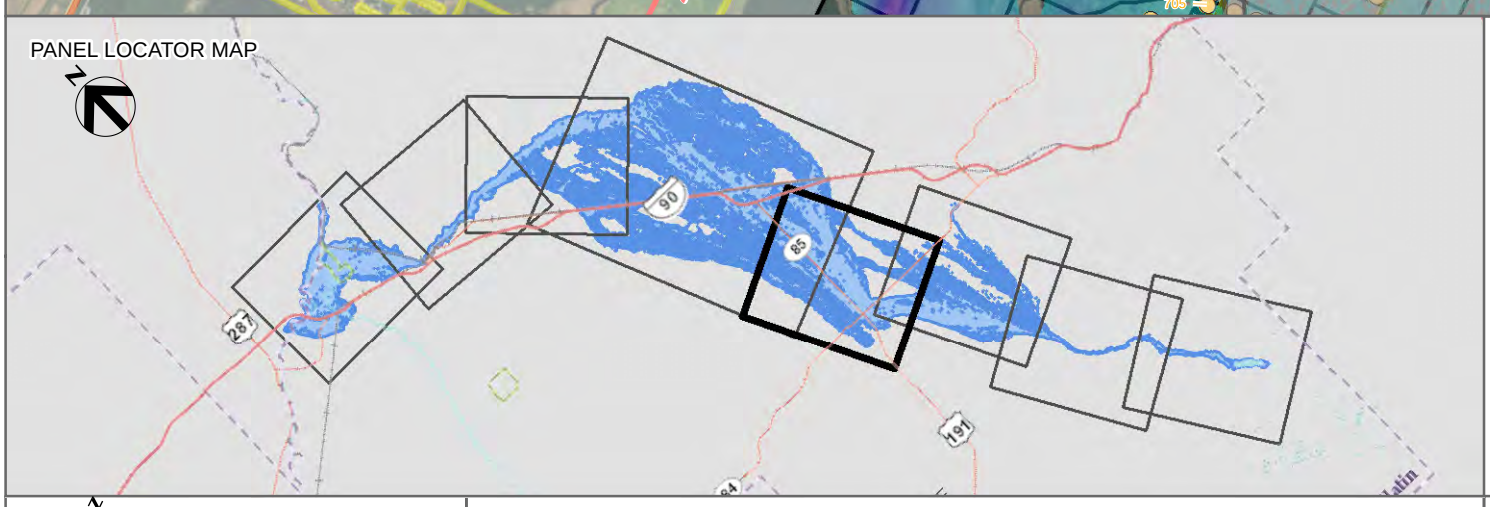
ISSUED: 6/12/2017

PANEL 1-3D

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_DETAILEDPANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT
- DV: HIGH : 1330 FT²/SEC; LOW : 0 FT²/SEC
- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 1,500 3,000
1 INCH = 3,000 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

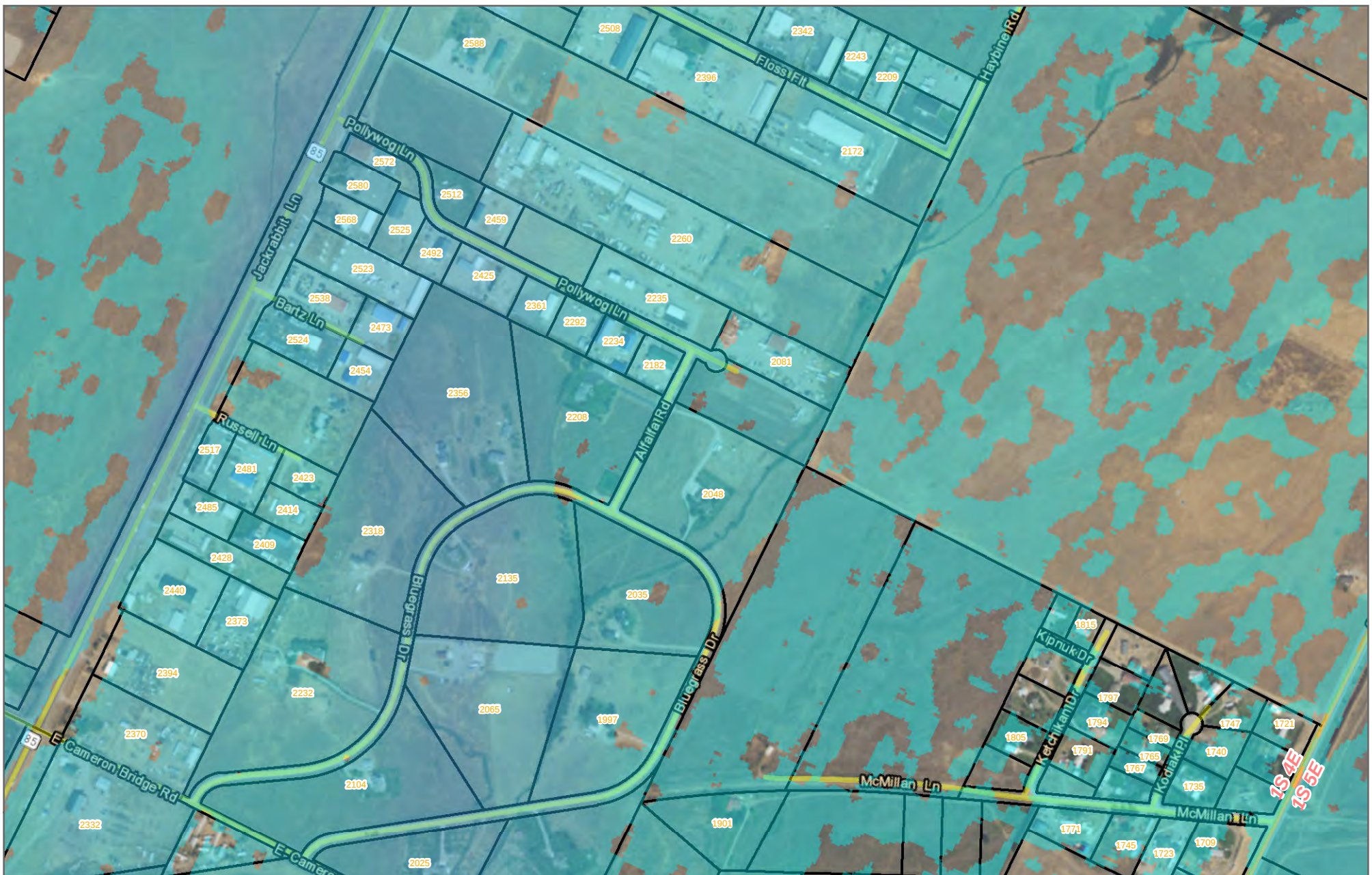
MIDDLE CREEK

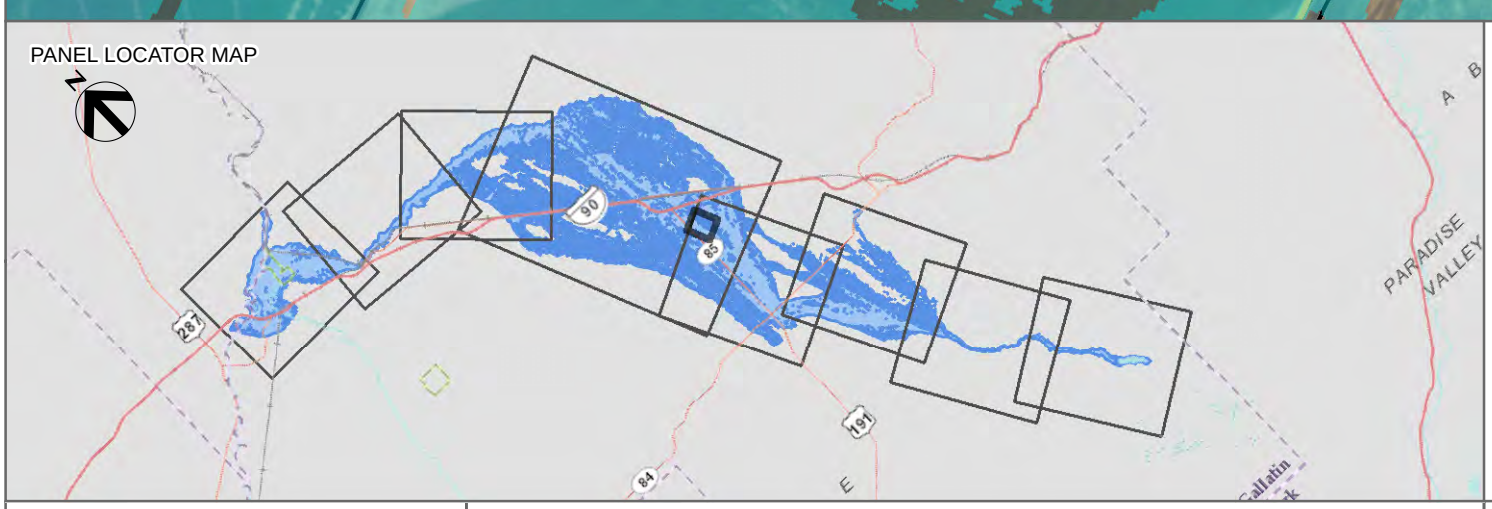
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-4





COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 500 1,000
1 INCH = 600 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

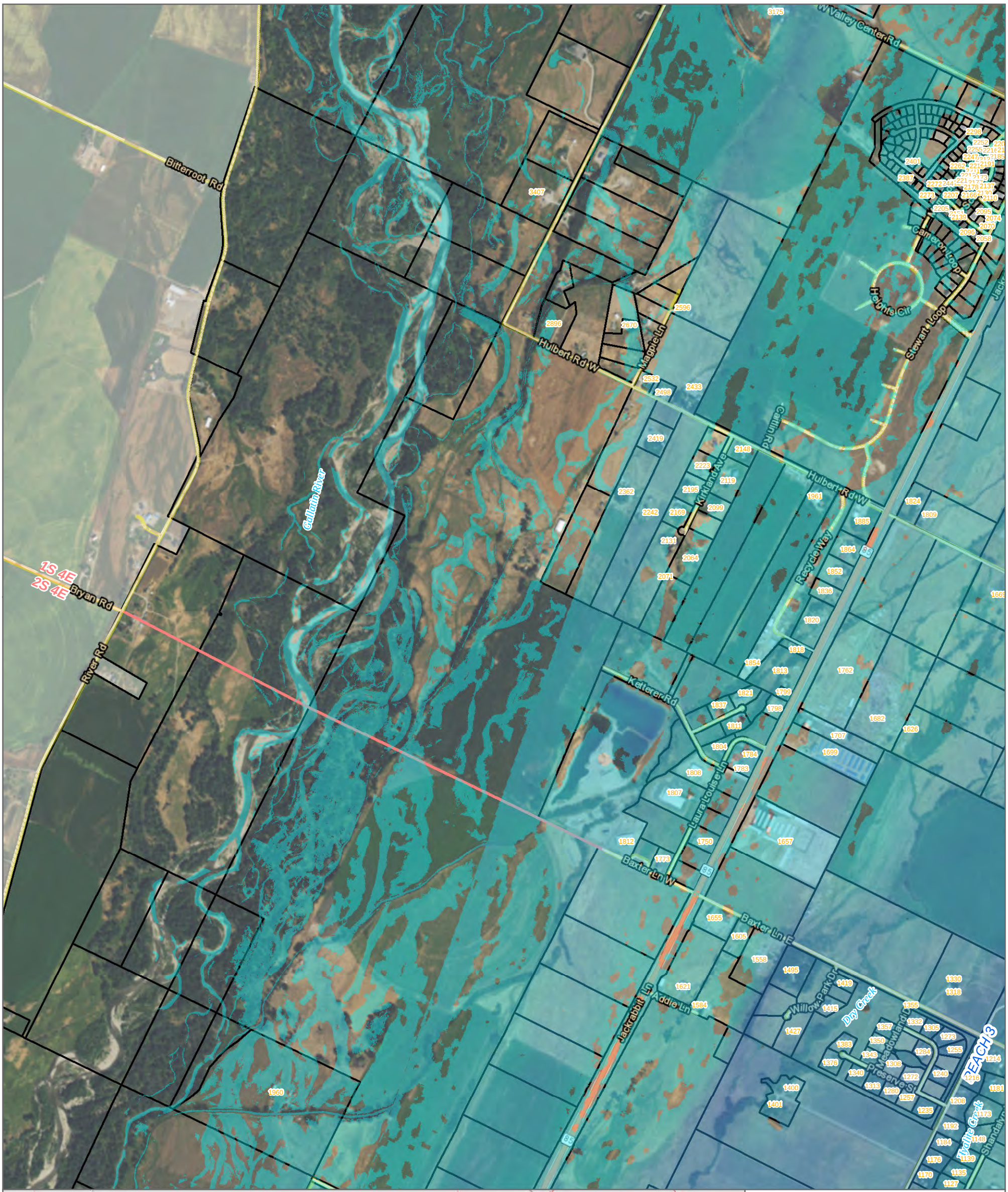
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-4A

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

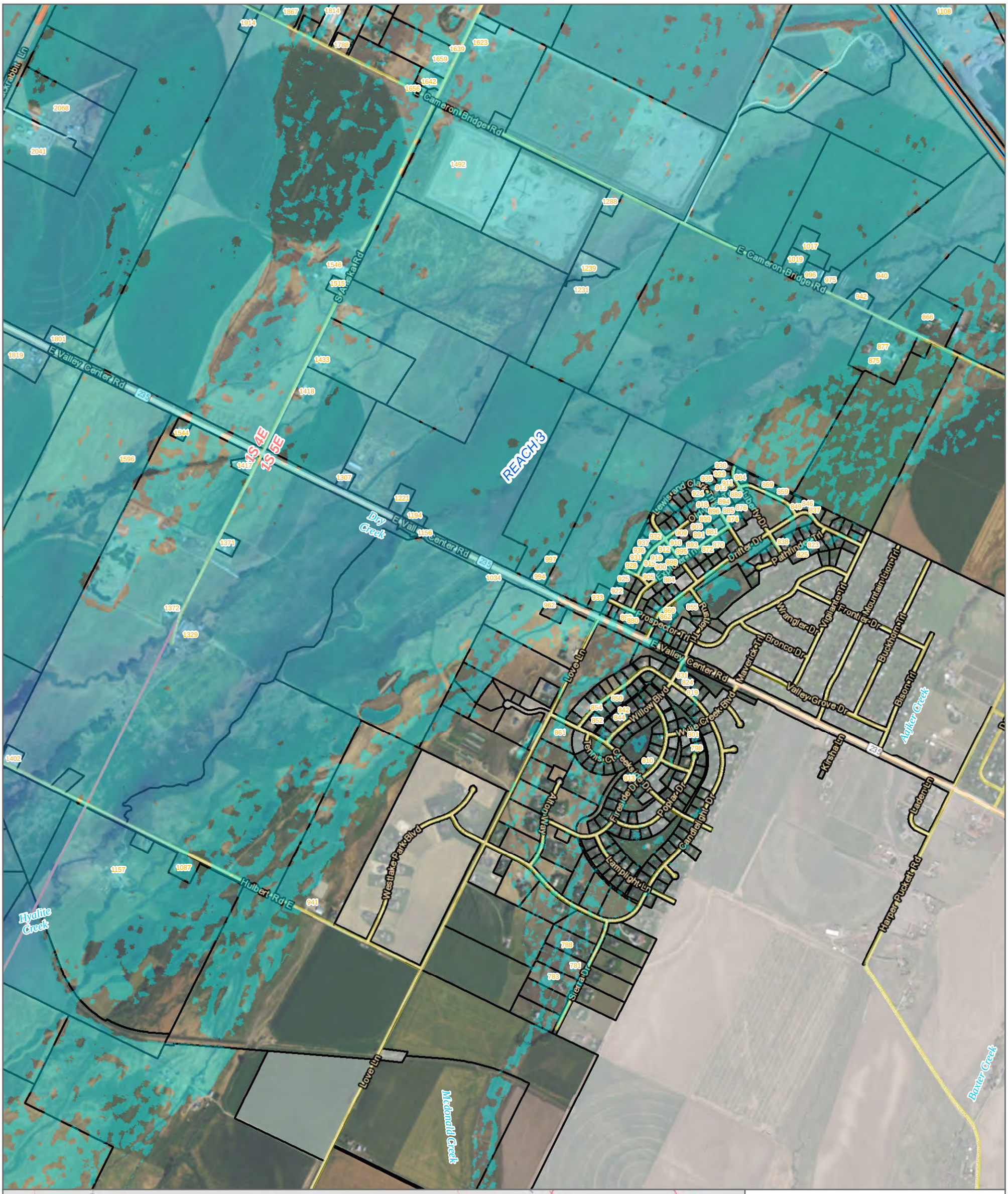
ISSUED: 6/12/2017

PANEL 1-4B

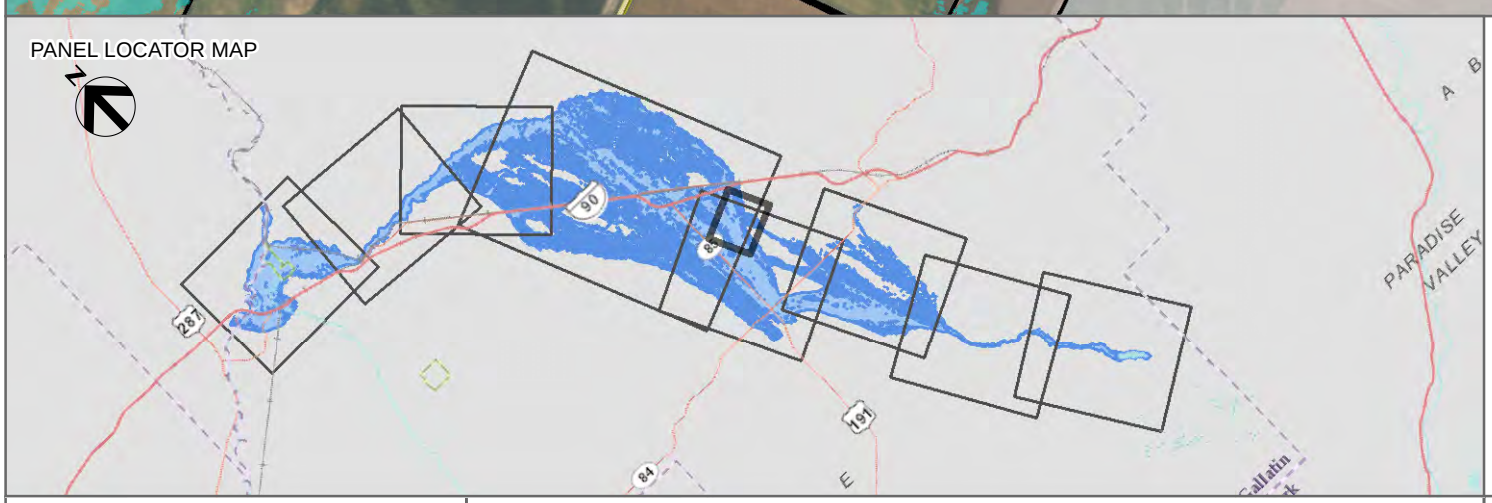
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PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 1,000 2,000
1 INCH = 1,300 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

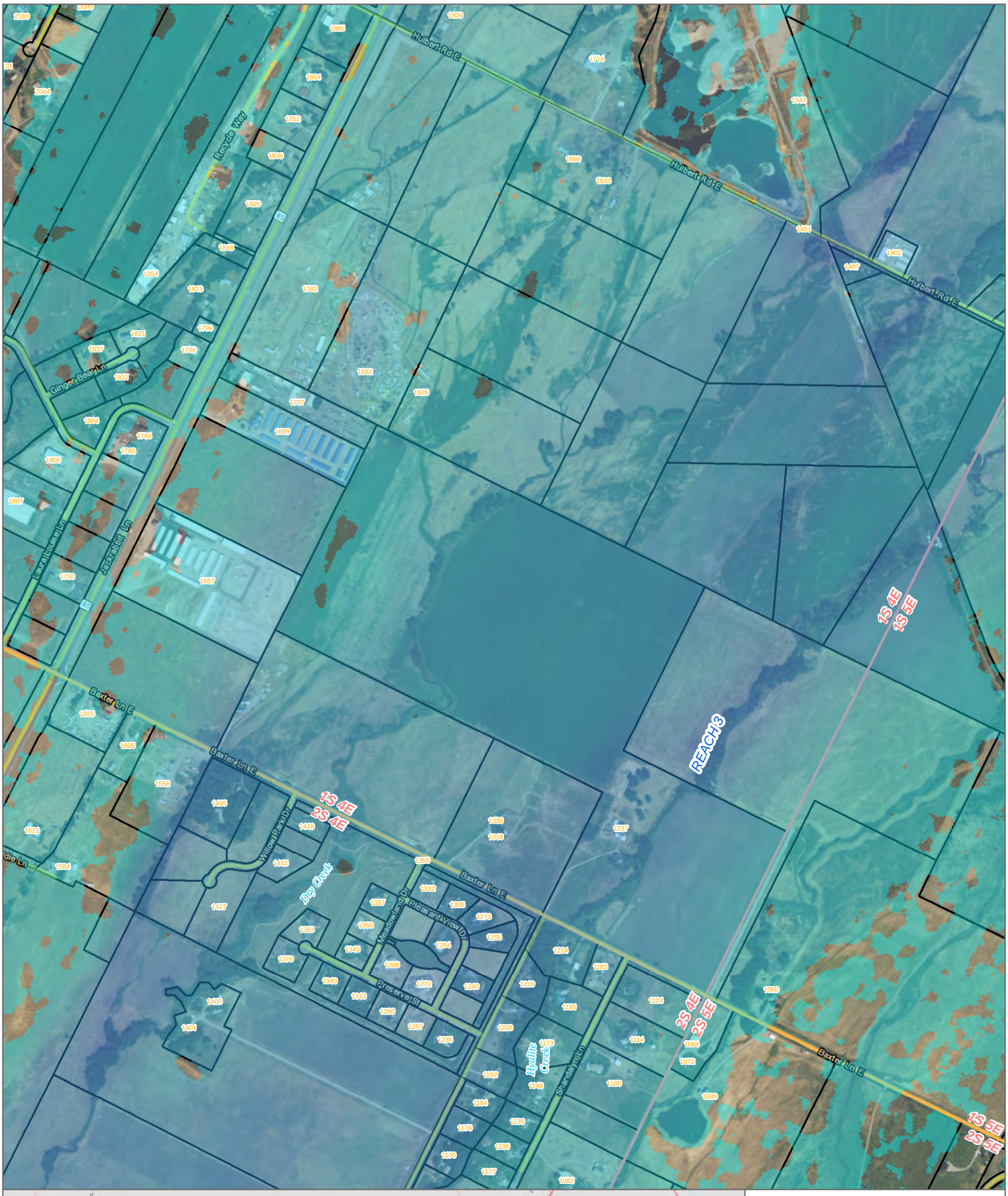
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-4D

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COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 570 1,140
1 INCH = 700 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-4E

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PANEL LOCATOR MAP

COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 500 1,000
1 INCH = 600 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

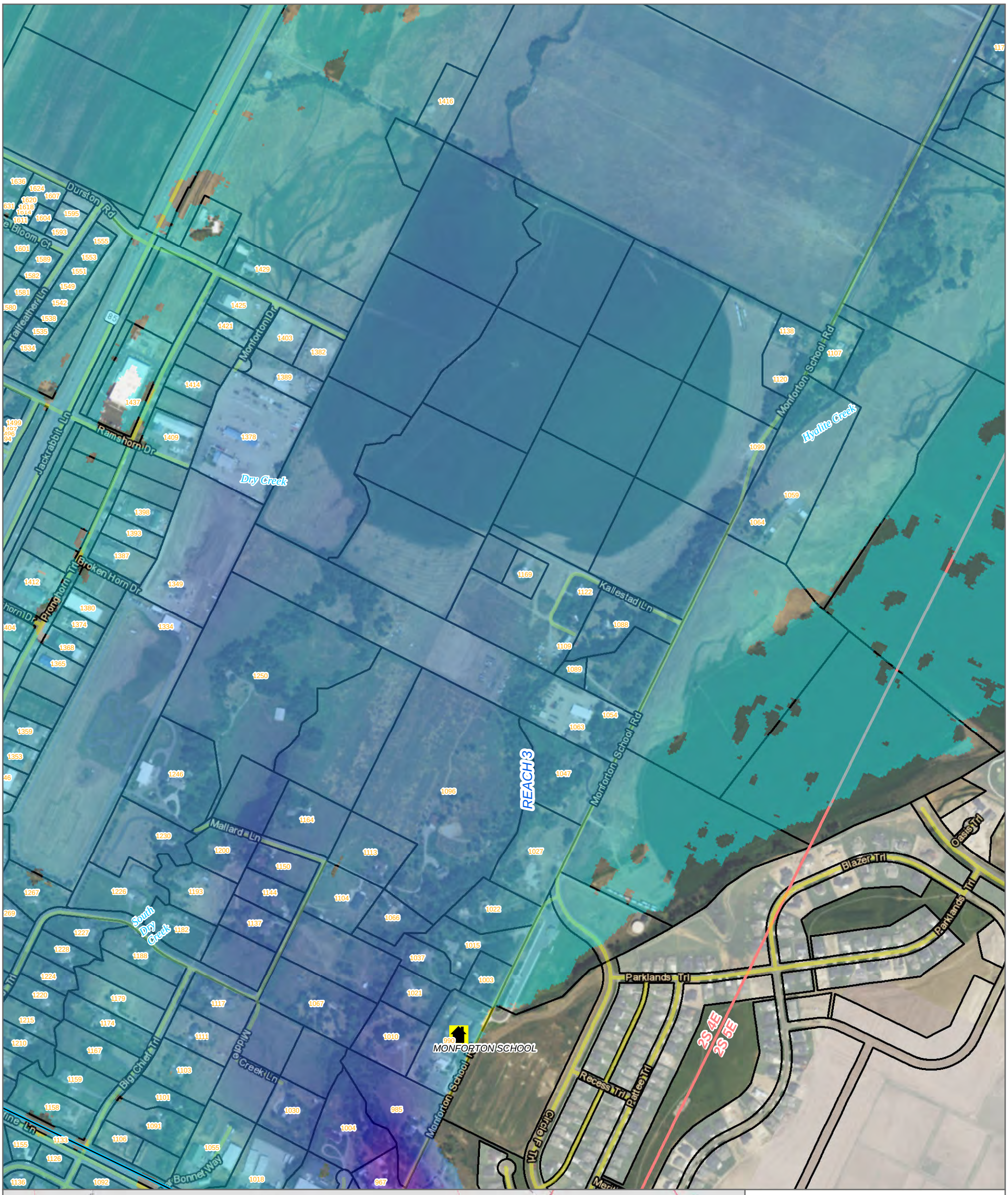
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(SIMPLIFIED INUNDATION BOUNDARY)

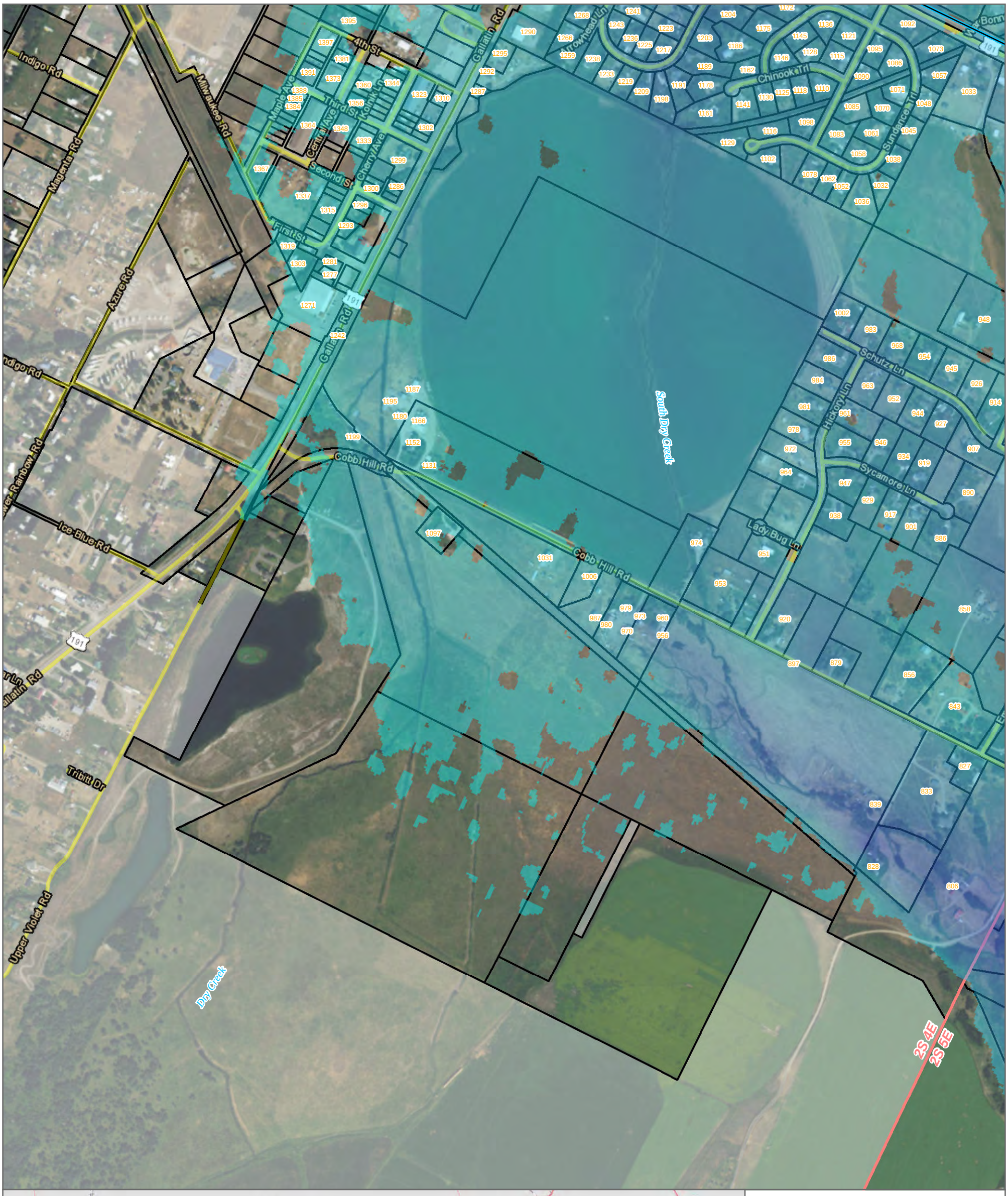
ISSUED: 6/12/2017

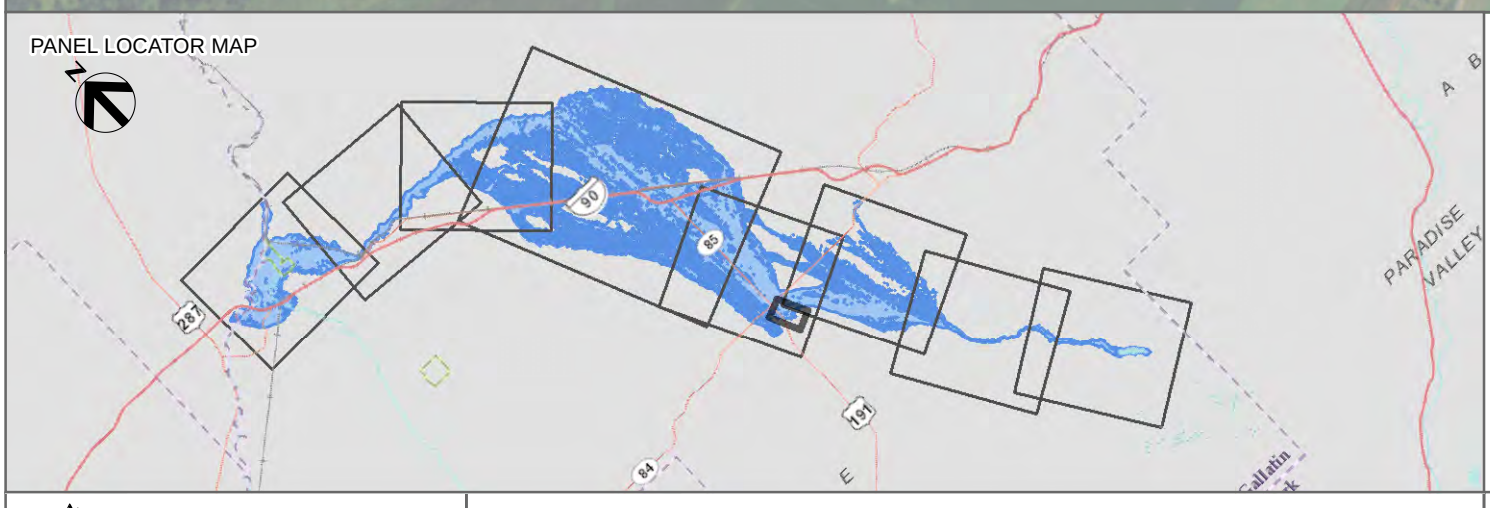
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COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 500 1,000
1 INCH = 600 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

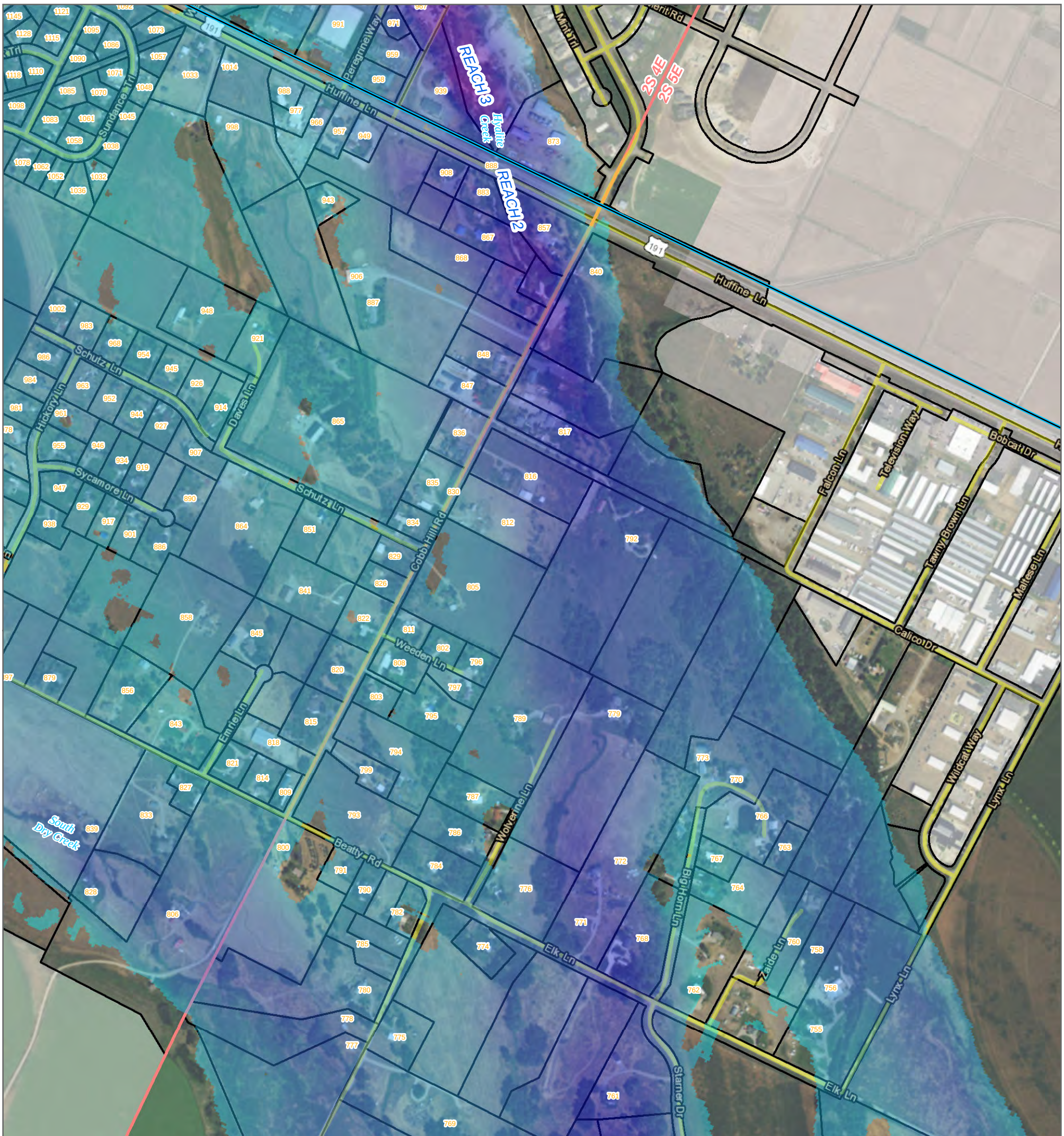
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-4H

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PANEL LOCATOR MAP

COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT
- DV: HIGH : 1330 FT²/SEC; LOW : 0 FT²/SEC
- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 500 1,000

1 INCH = 600 FEET

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MIDDLE CREEK

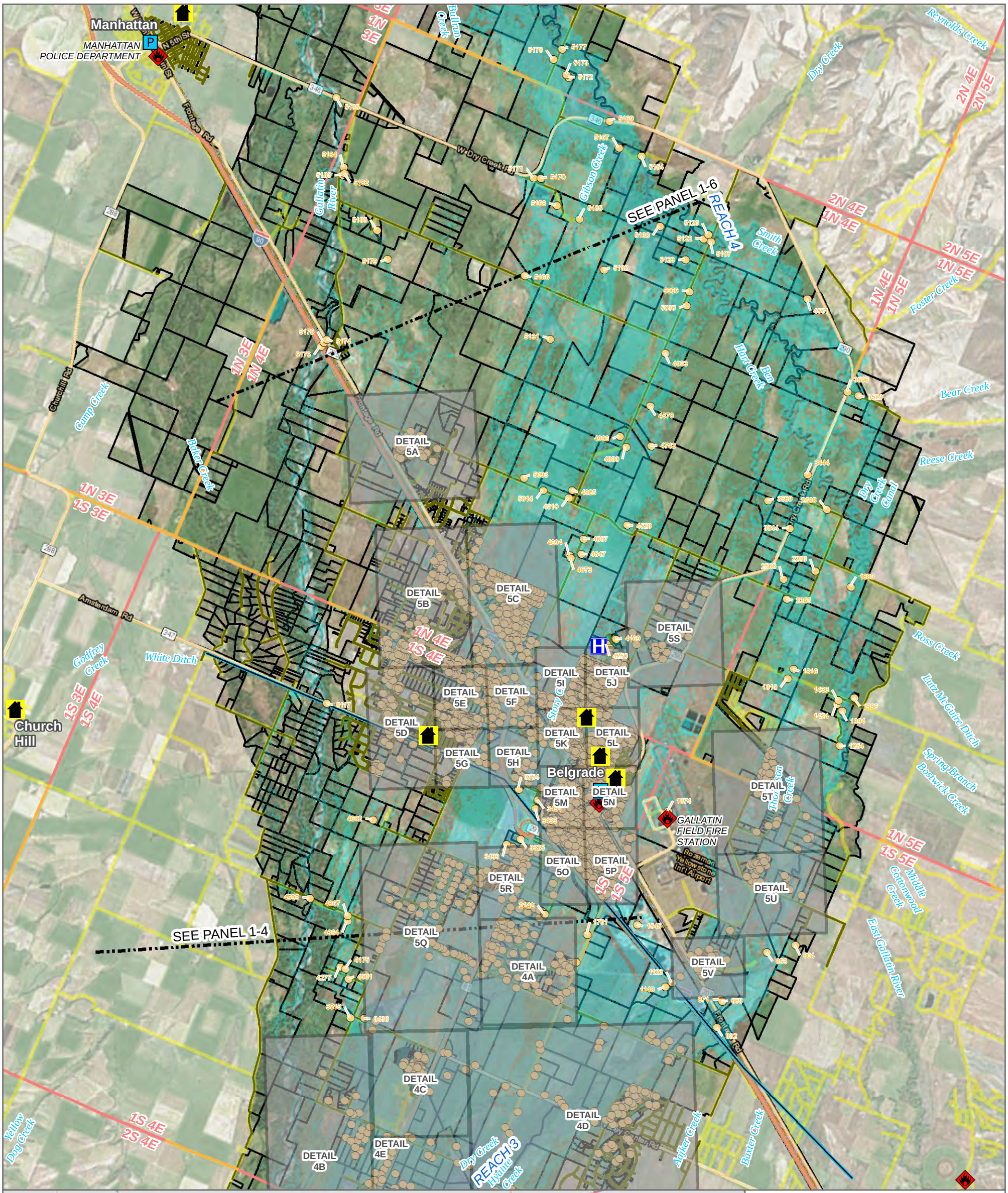
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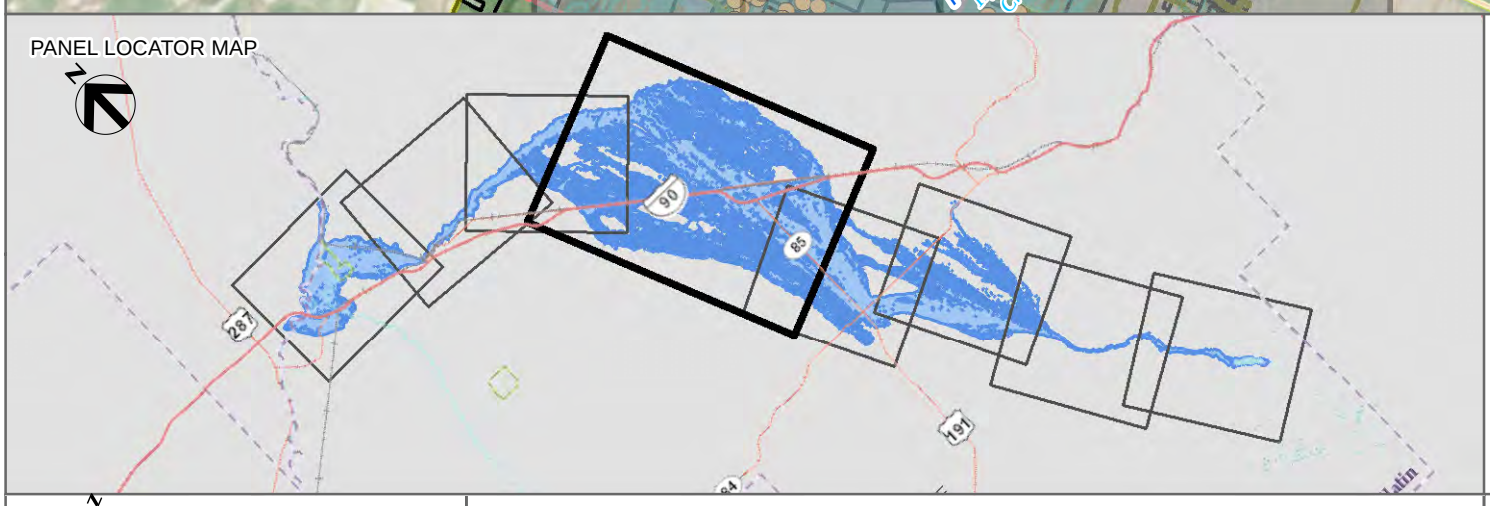
ISSUED: 6/12/2017

PANEL 1-4I

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PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT
- DV: HIGH : 1330 FT²/SEC; LOW : 0 FT²/SEC
- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 2,750 5,500
1 INCH = 5,500 FEET

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MIDDLE CREEK

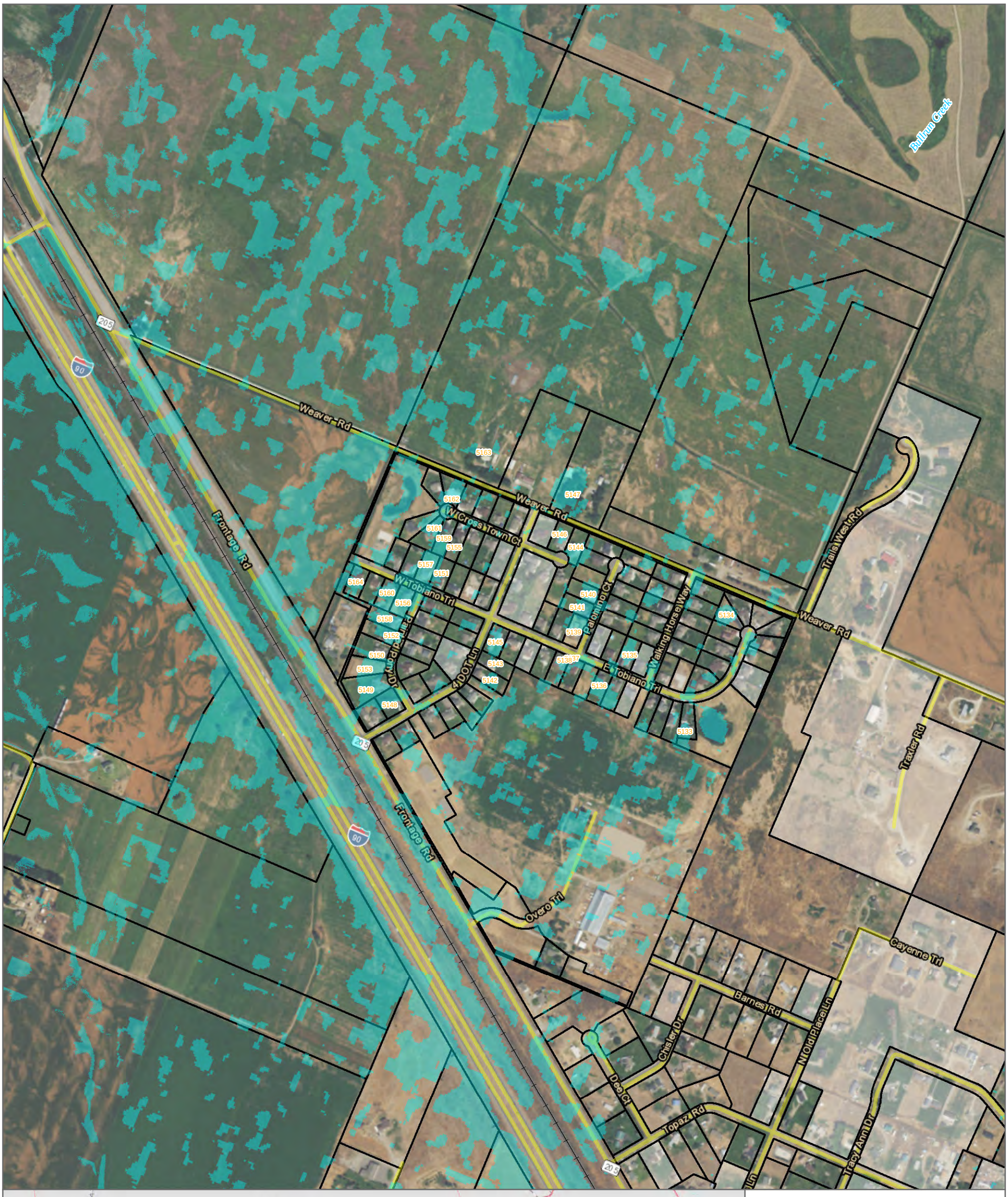
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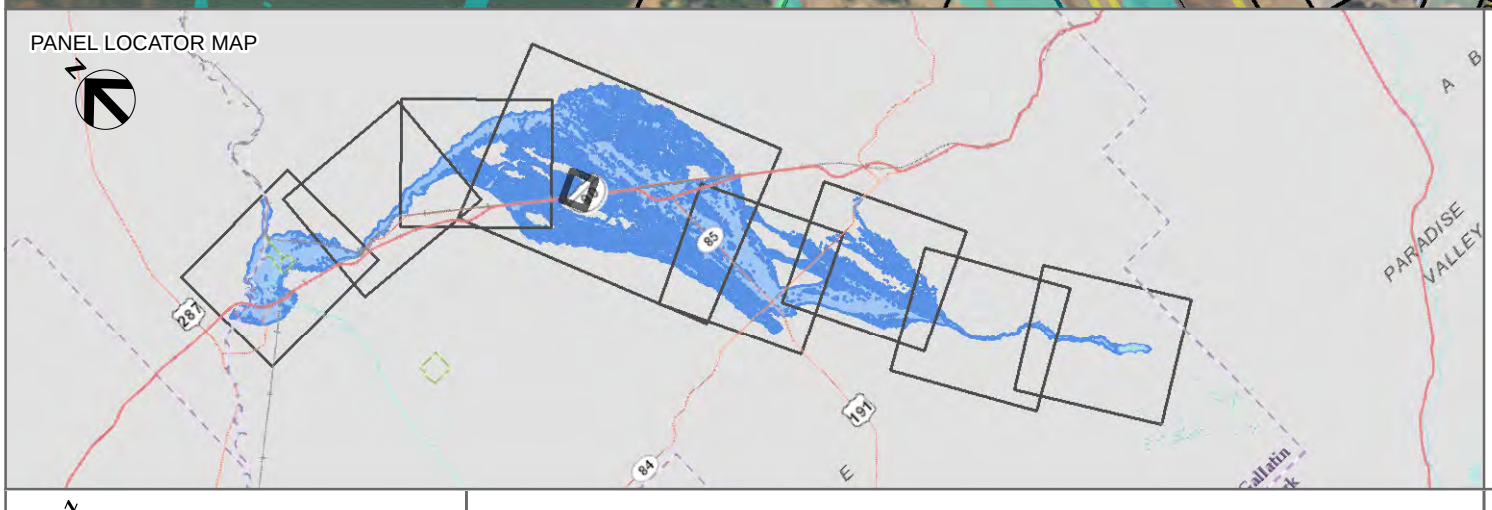
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ISSUED: 6/12/2017

PANEL 1-5

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COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 500 1,000
1 INCH = 600 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

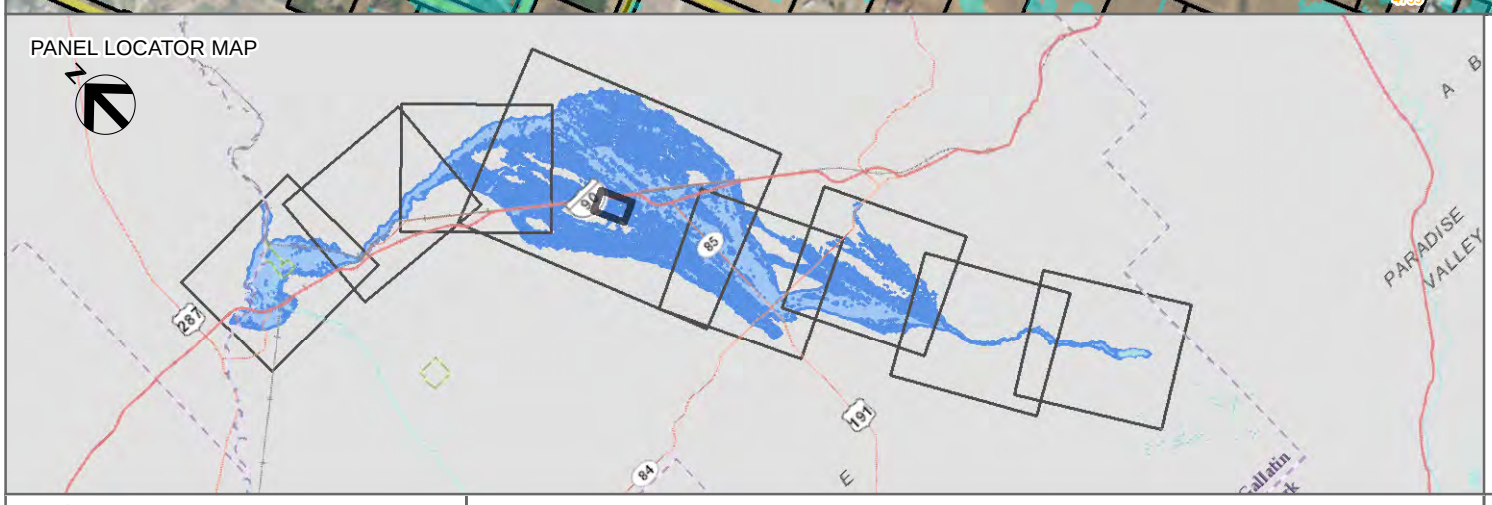
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PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 570 1,140
1 INCH = 700 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

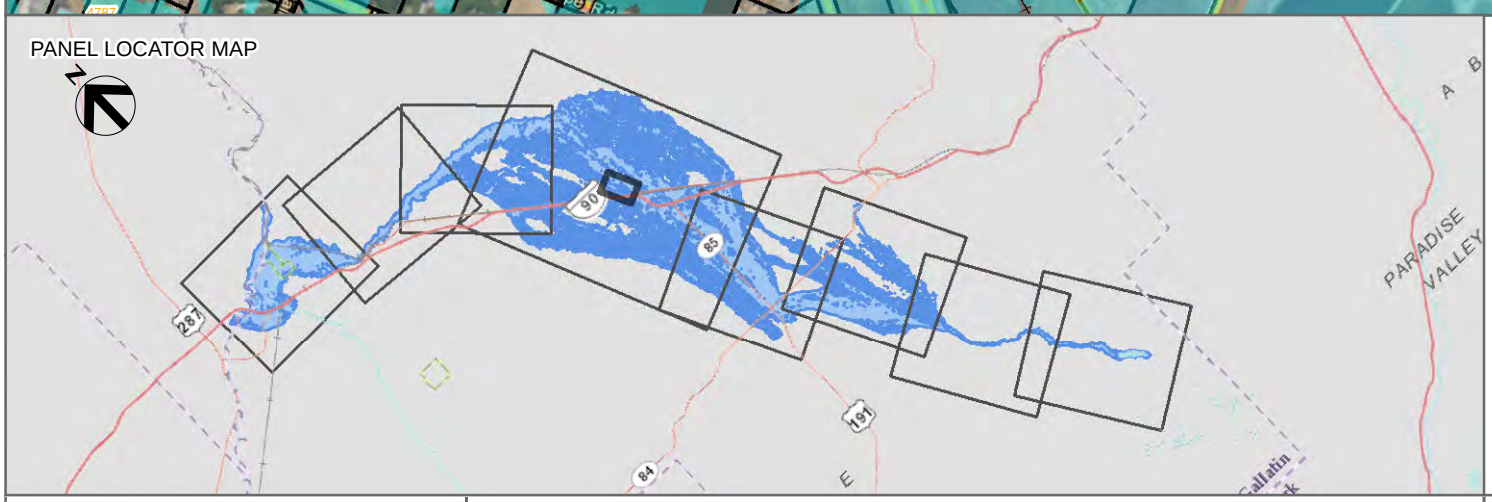
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PANEL 1-5B

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PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

N

0 570 1,140

1 INCH = 700 FEET

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MIDDLE CREEK

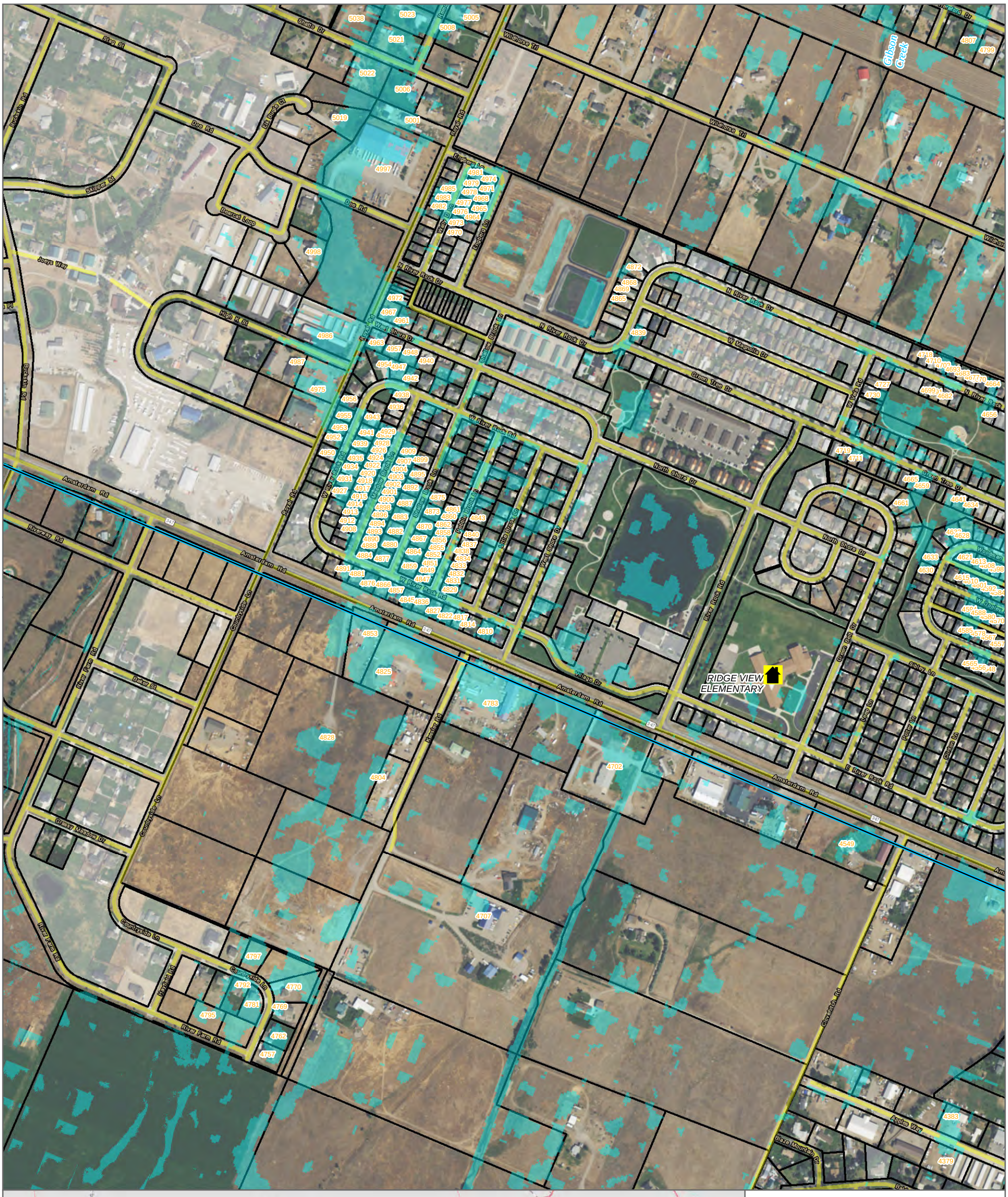
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(SIMPLIFIED INUNDATION BOUNDARY)

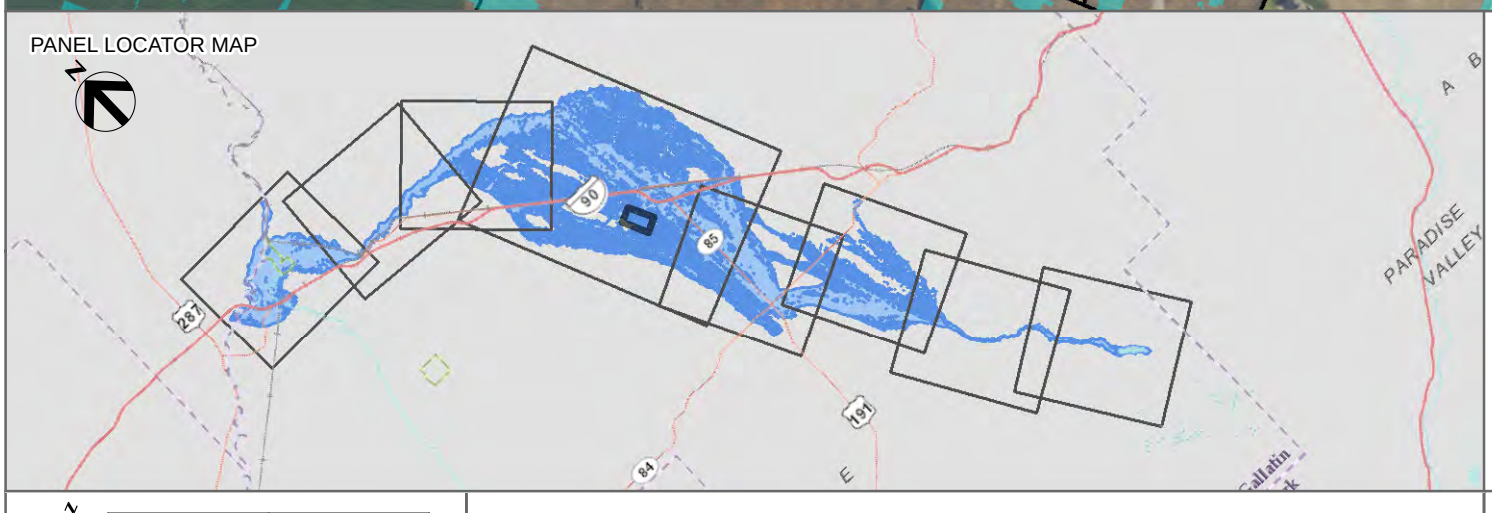
ISSUED: 6/12/2017

PANEL 1-5C

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PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 460 920
1 INCH = 550 FEET

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MIDDLE CREEK

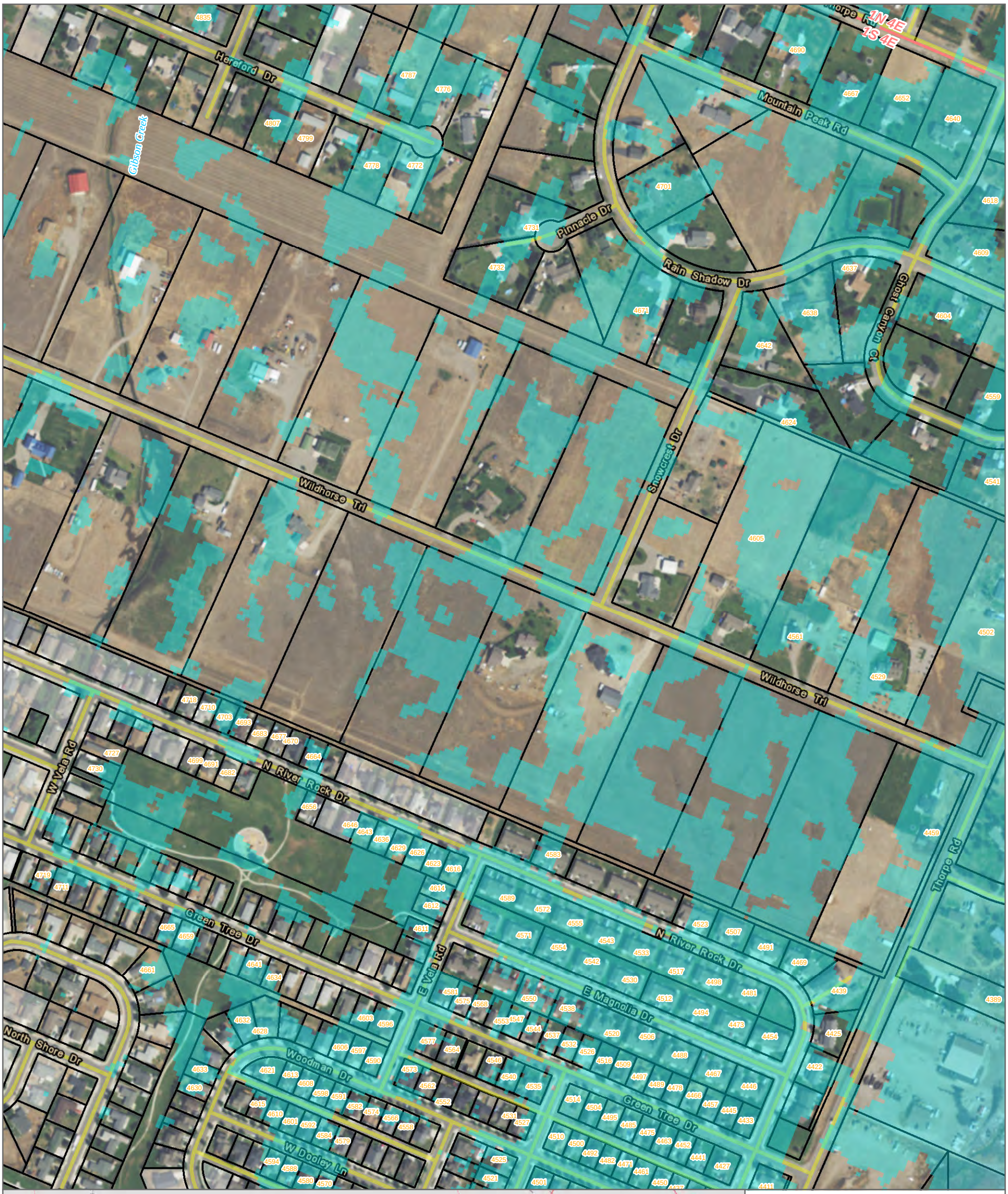
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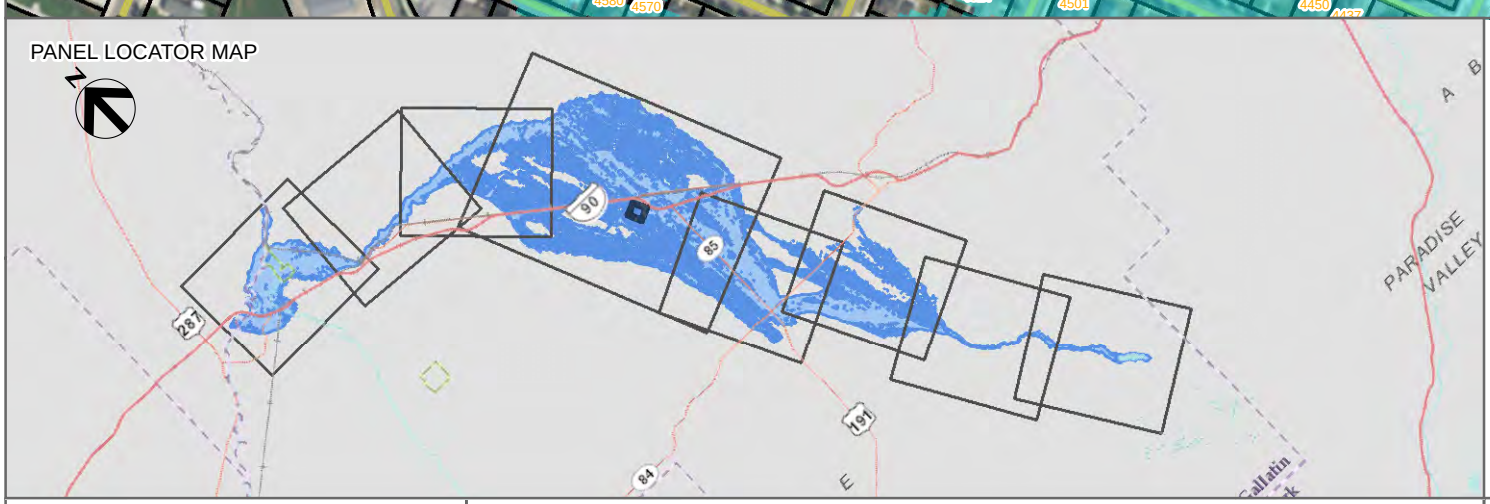
(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-5D

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COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
HIGH : 1330 FT²/SEC
LOW : 0 FT²/SEC

LOSS OF LIFE STRUCTURES
LOSS OF LIFE REACH BREAKS

0 250 500
1 INCH = 300 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

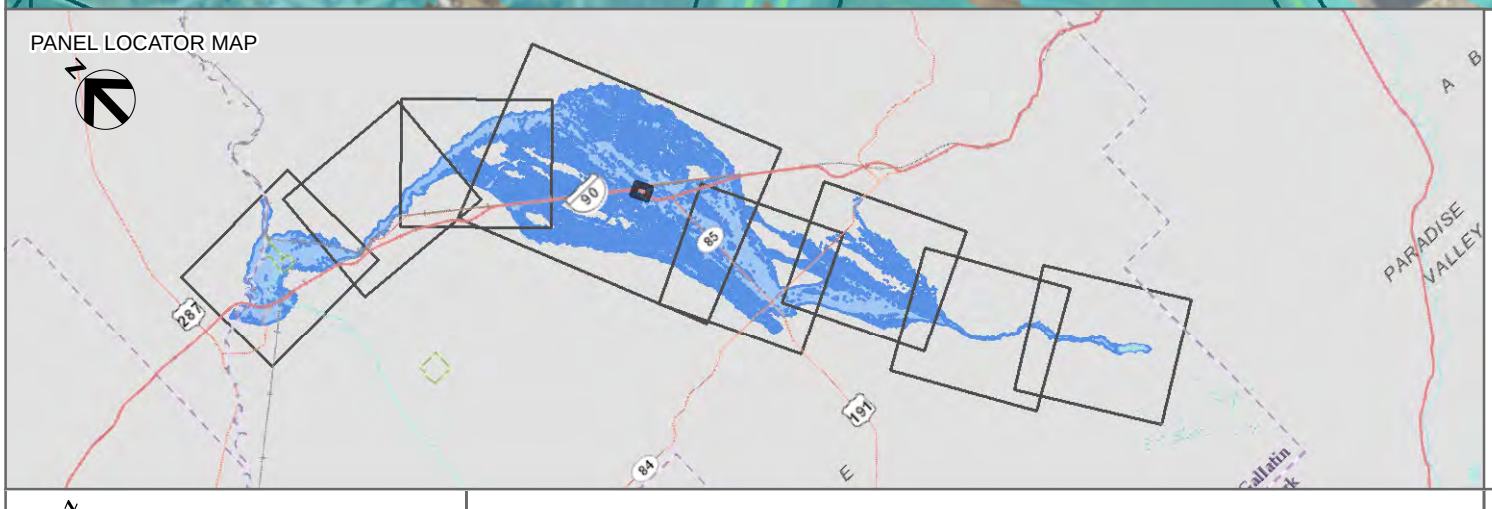
ISSUED: 6/12/2017

PANEL 1-5E

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PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV

- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC
- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 250 500

1 INCH = 300 FEET

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DATA SOURCES: MICROSOFT AND IT'S DATA SUPPLIERS, ESRI, USGS, MT CADASTRAL, MSDI
MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

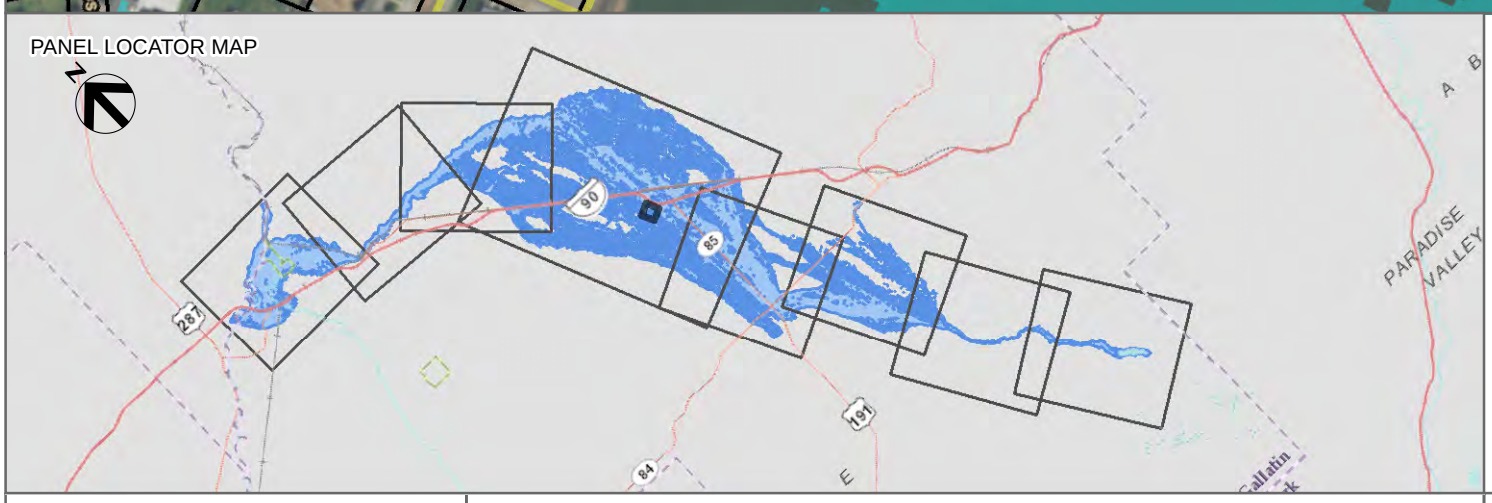
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PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 250 500
1 INCH = 300 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

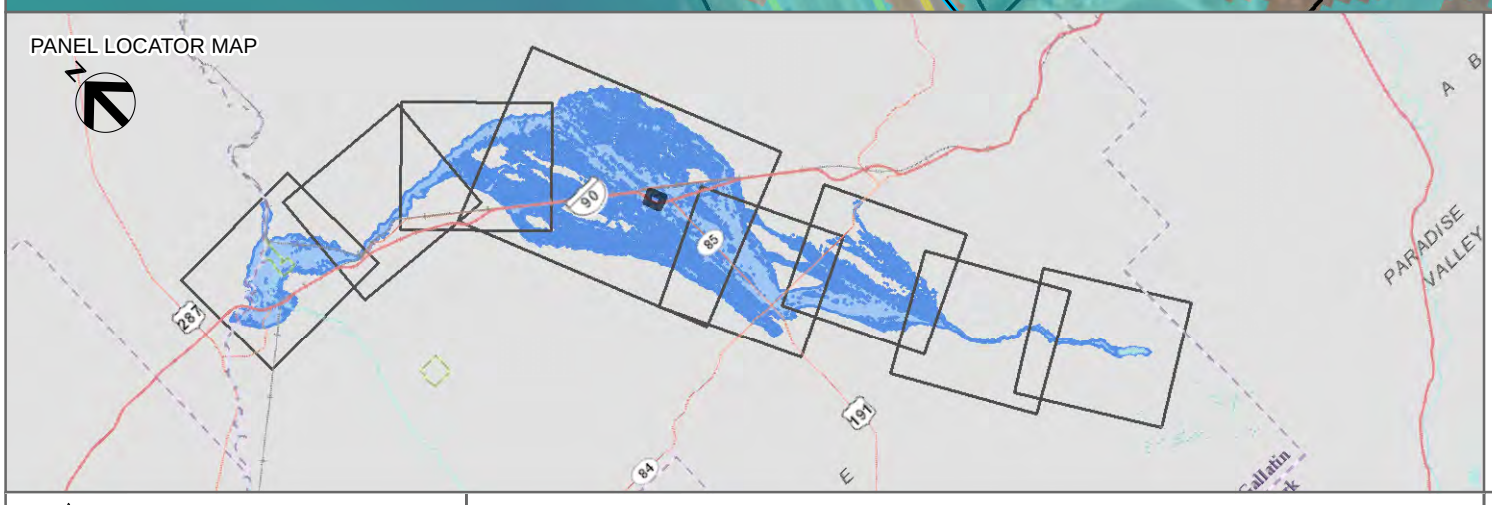
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ISSUED: 6/12/2017

PANEL 1-5G

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COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 250 500
1 INCH = 300 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

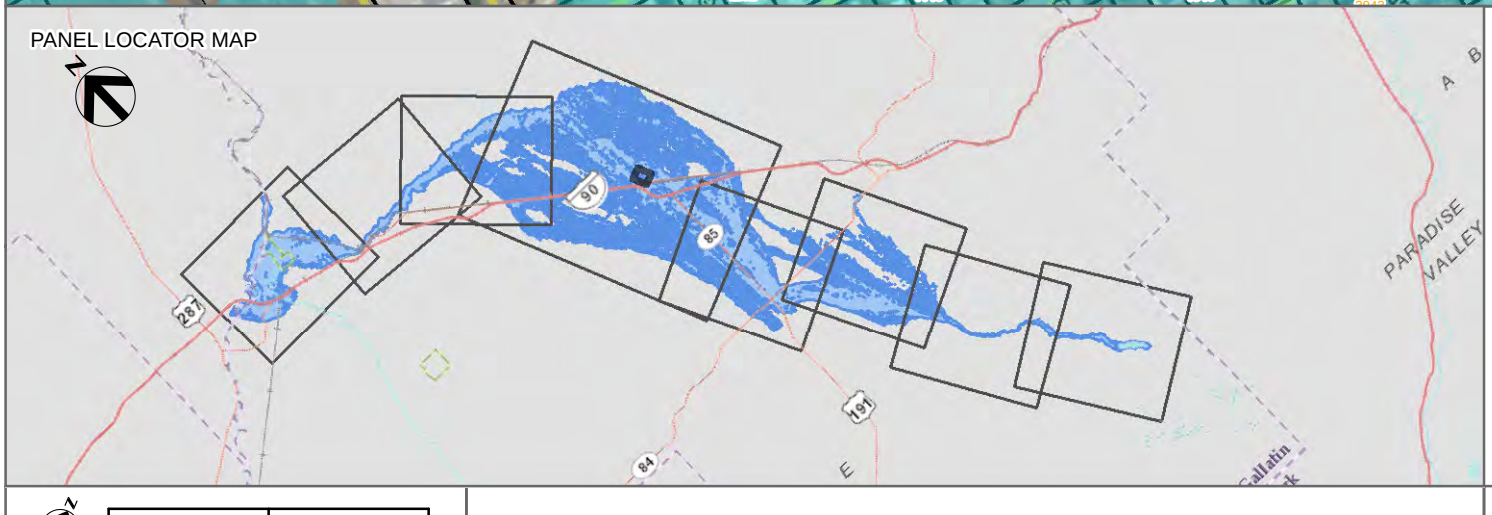
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ISSUED: 6/12/2017

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COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 250 500
1 INCH = 300 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

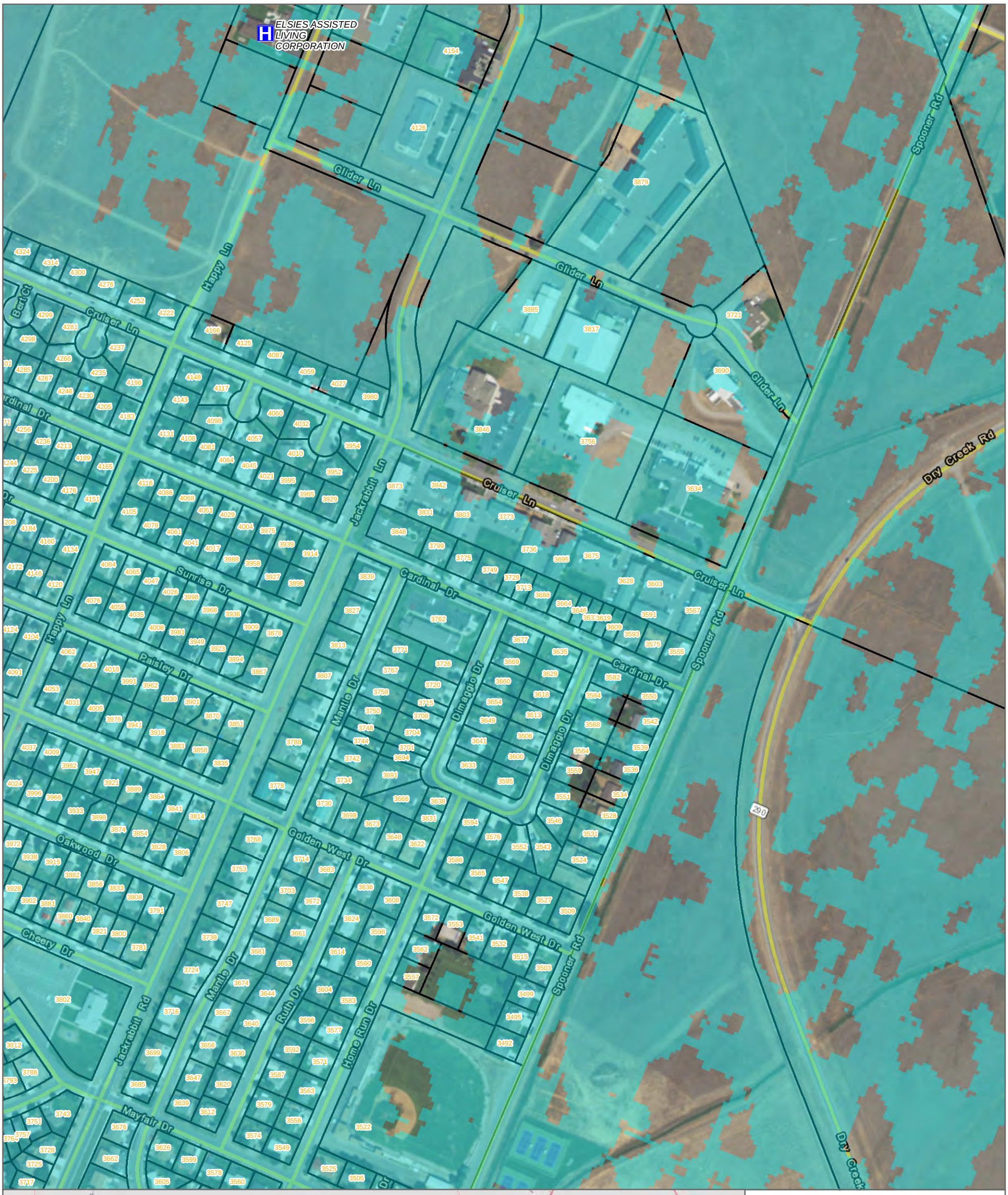
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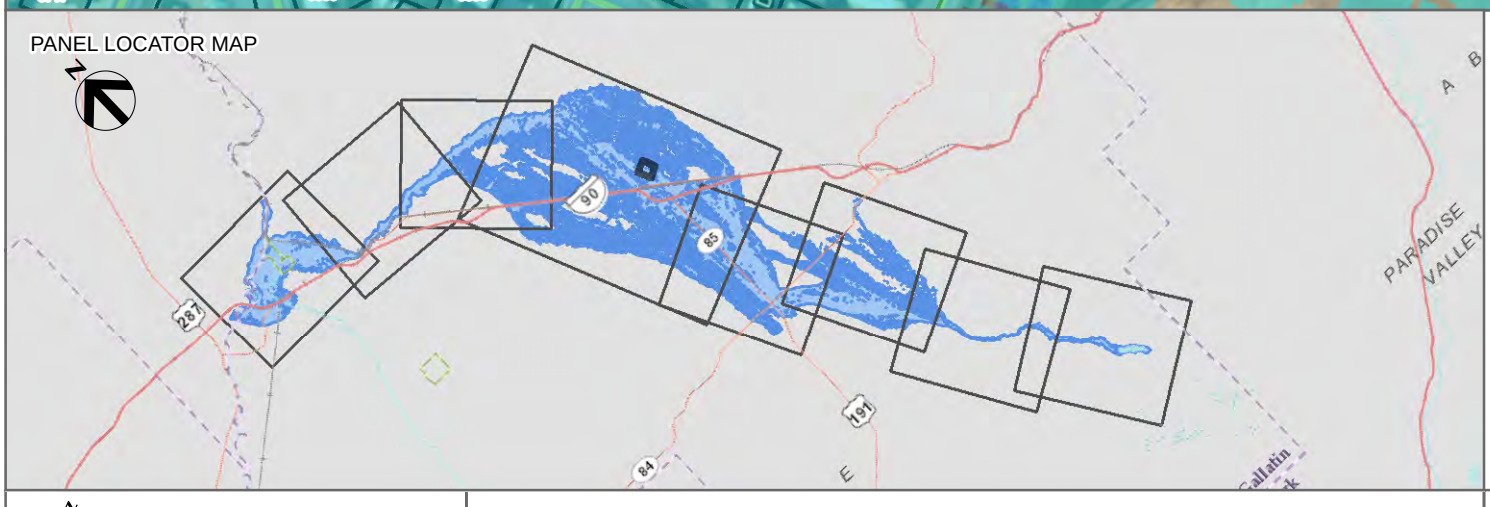
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ISSUED: 6/12/2017

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COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 250 500
1 INCH = 300 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

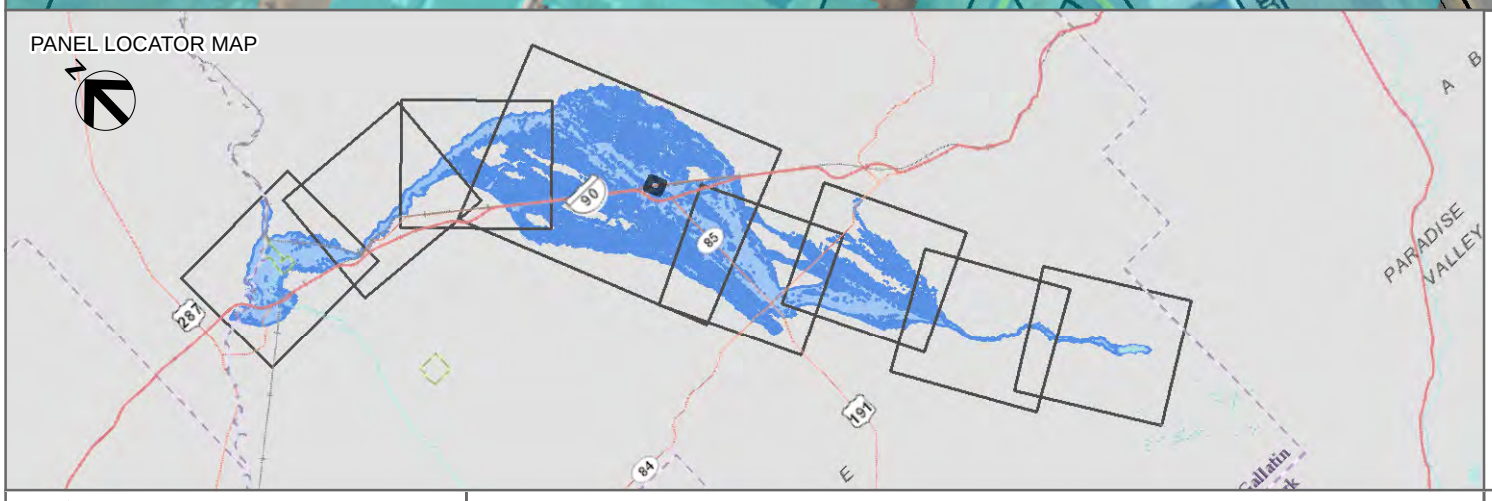
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ISSUED: 6/12/2017

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COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 250 500
1 INCH = 300 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-5K

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_DETAILEDPANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



PANEL LOCATOR MAP

COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 250 500
1 INCH = 300 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-5L

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COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

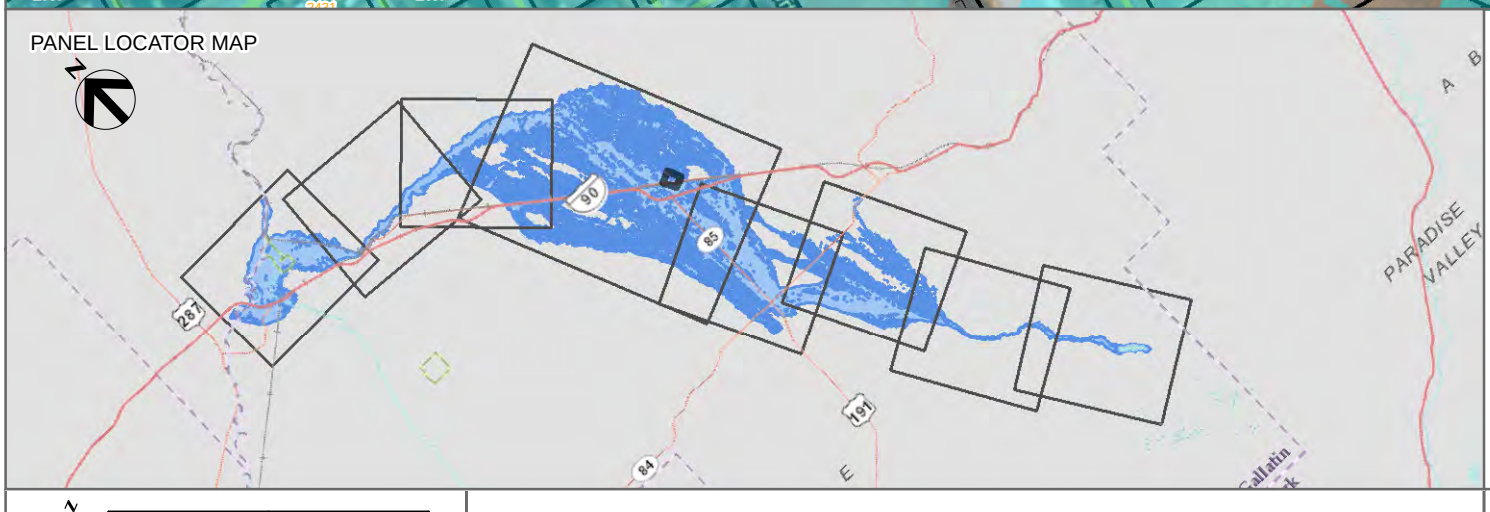
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ISSUED: 6/12/2017

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COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 250 500
1 INCH = 300 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-5N

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

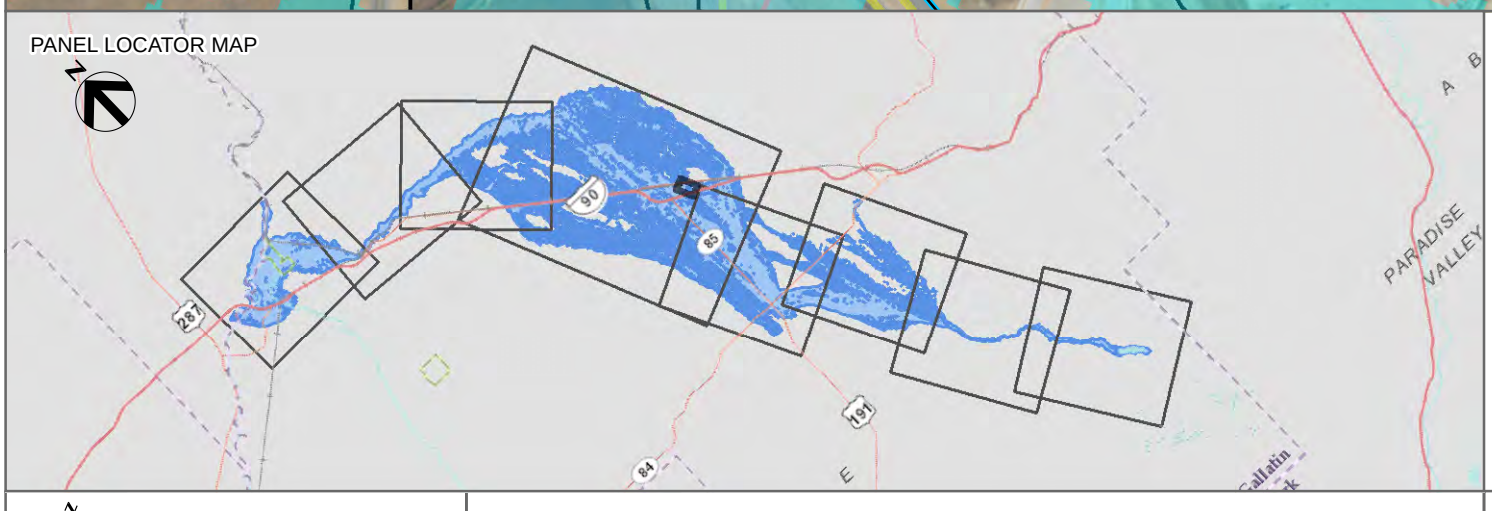
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PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 310 620
1 INCH = 375 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

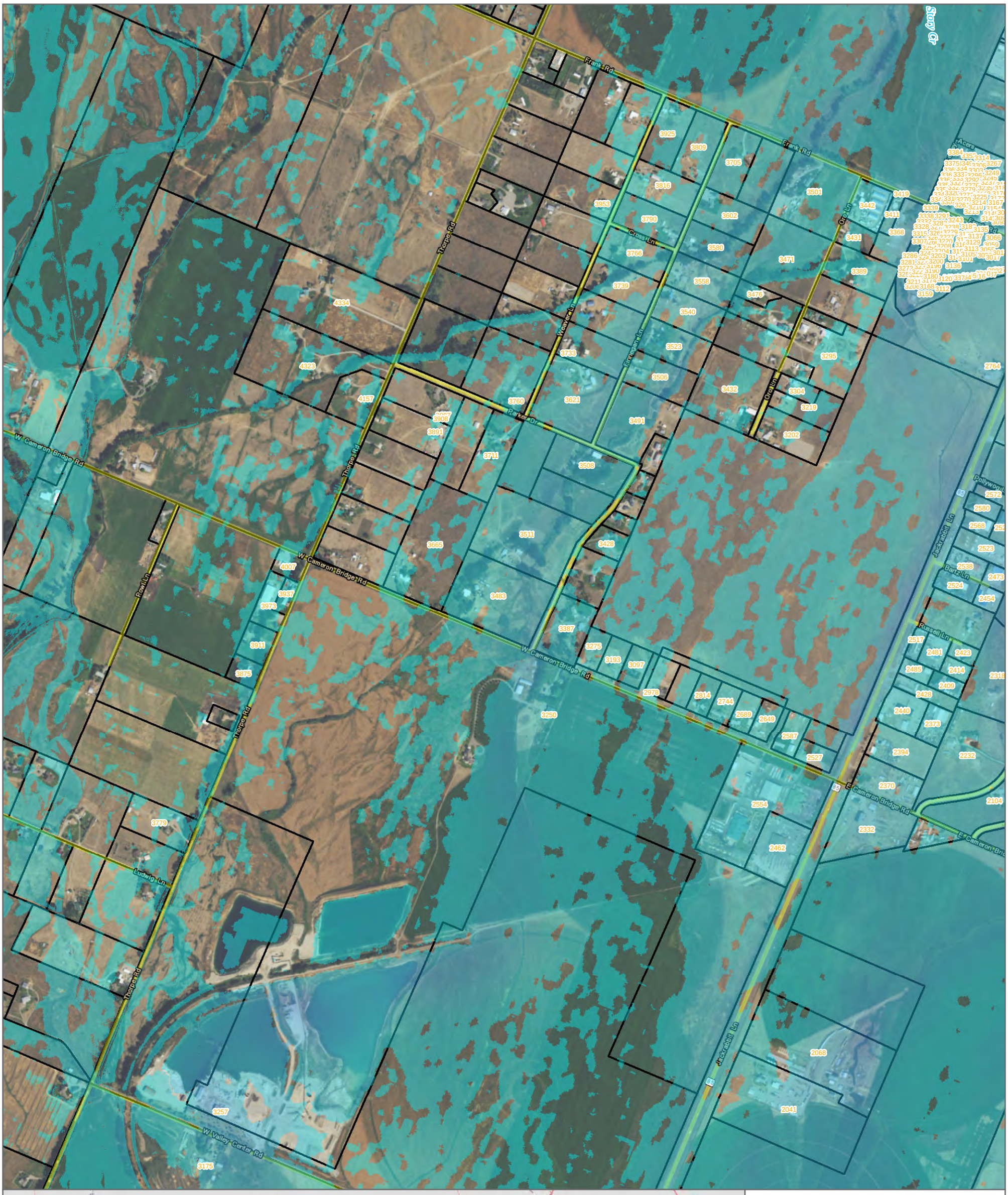
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

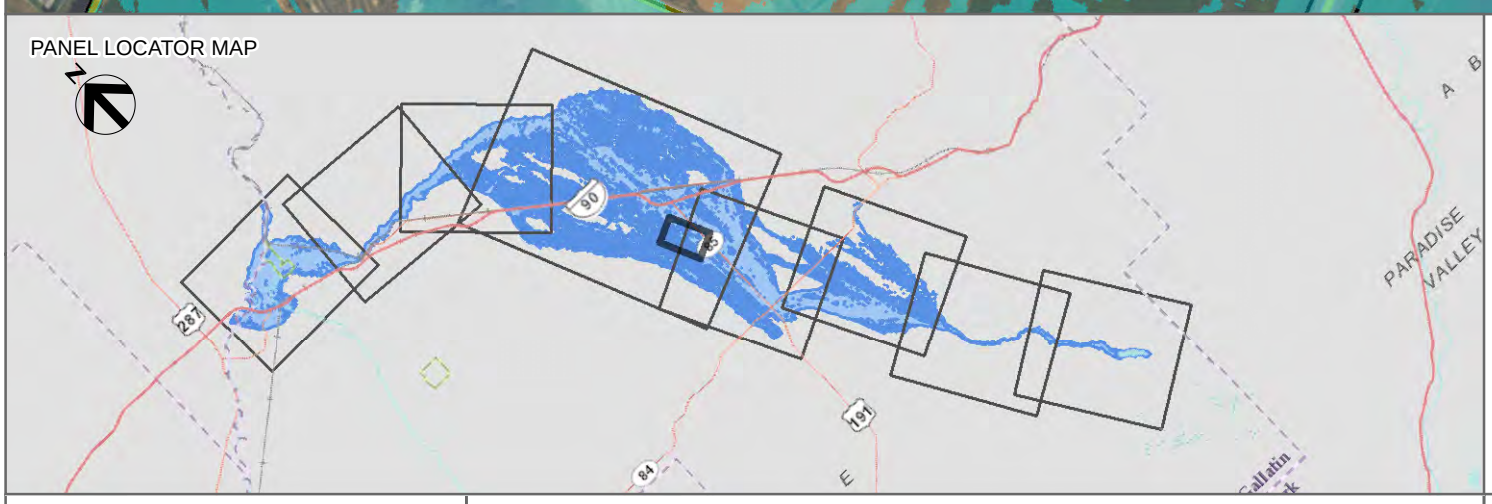
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PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV

- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC
- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 730 1,460

1 INCH = 900 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-5Q

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RETURN TO INDEX SHEET

MIDDLE CREEK

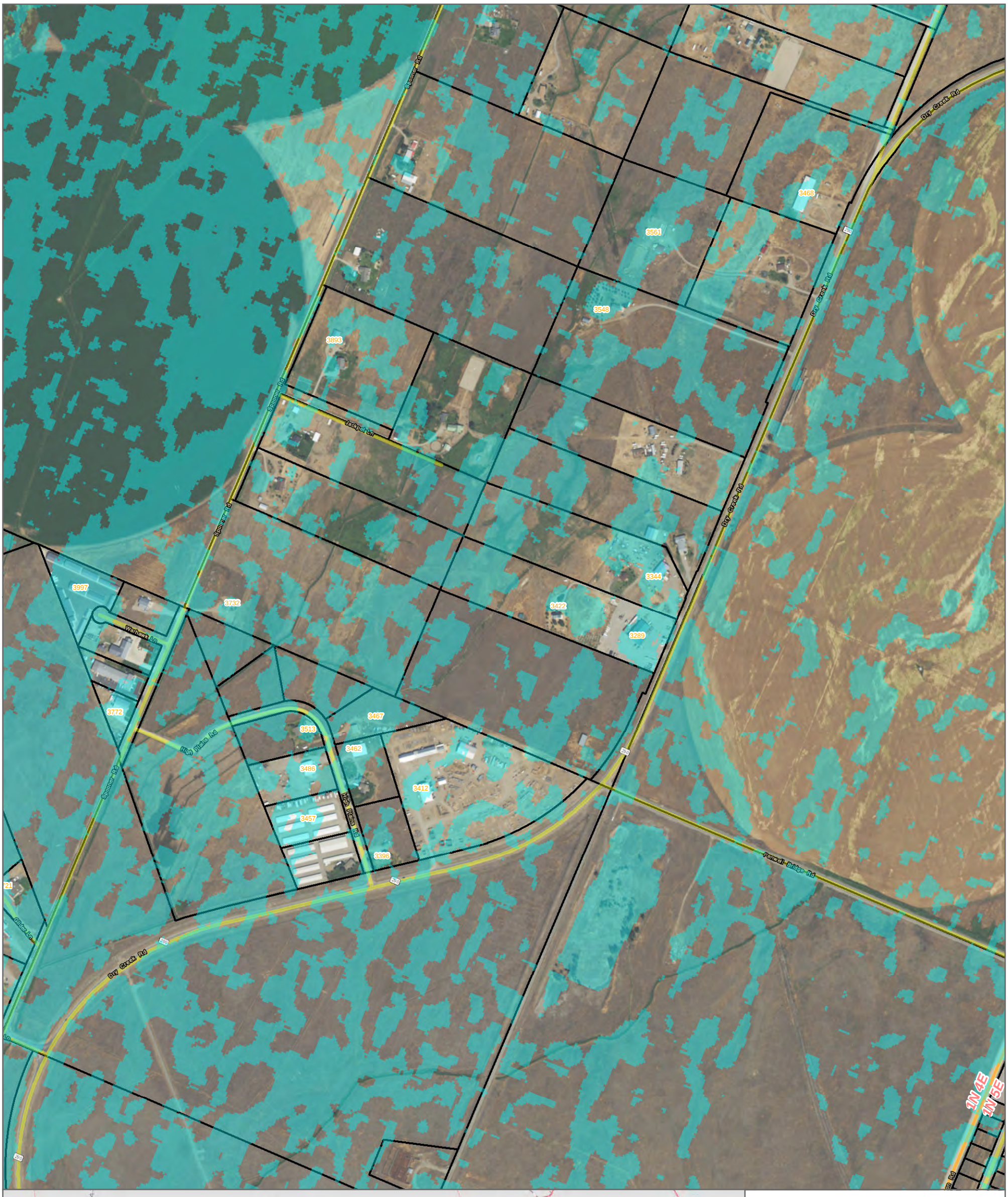
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(SIMPLIFIED INUNDATION BOUNDARY)

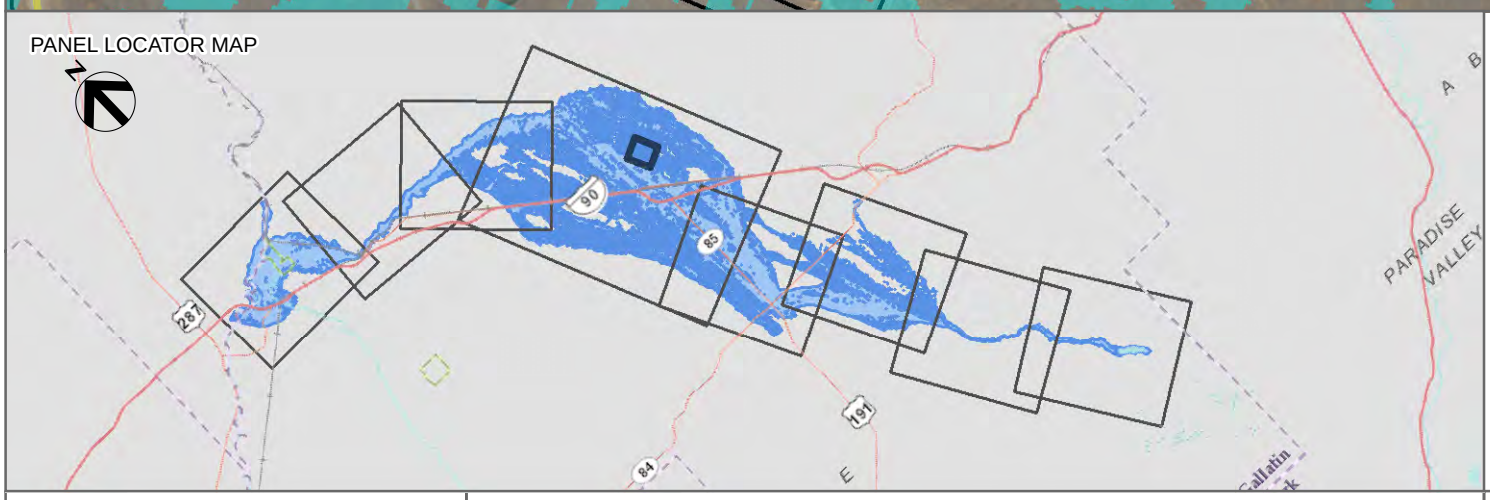
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PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 460 920
1 INCH = 550 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

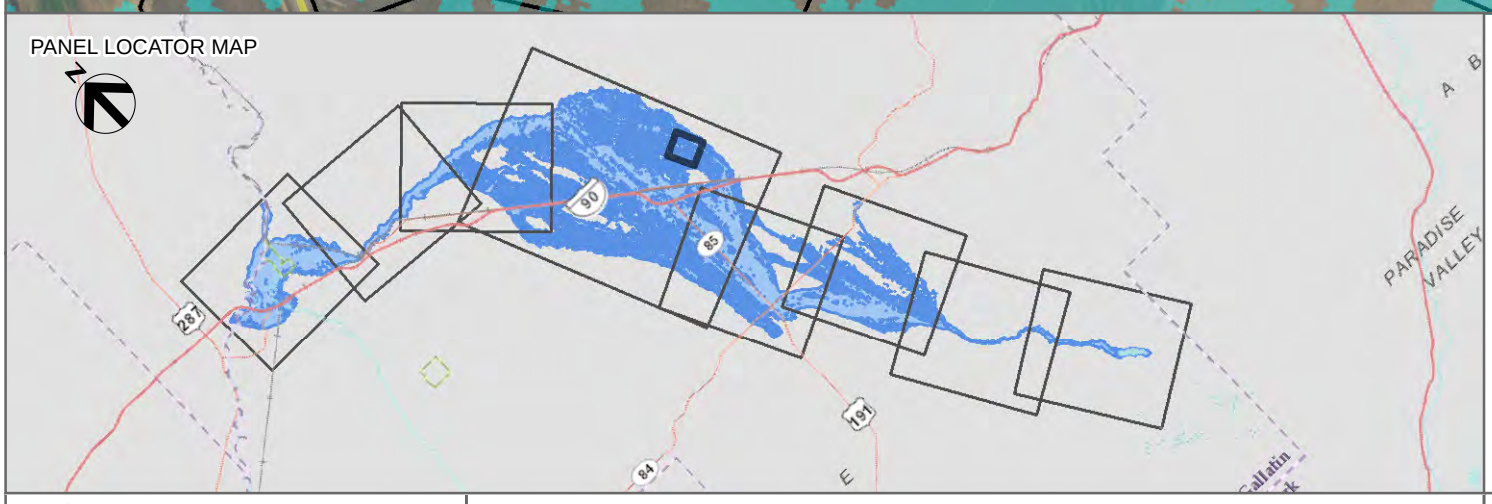
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PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 460 920
1 INCH = 550 FEET

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RETURN TO INDEX SHEET

MIDDLE CREEK

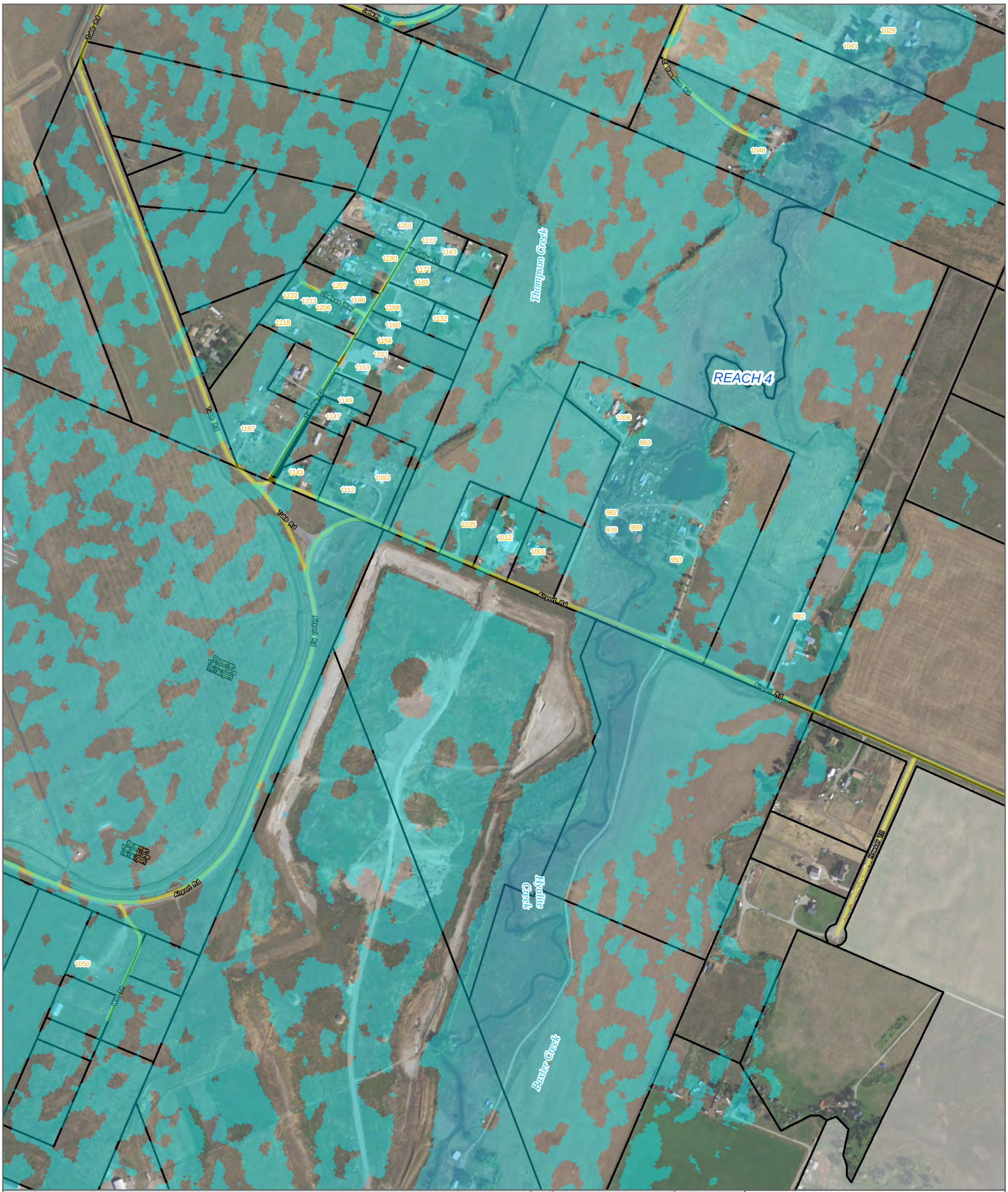
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-5T

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COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 460 920
1 INCH = 550 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

RETURN TO INDEX SHEET

MIDDLE CREEK

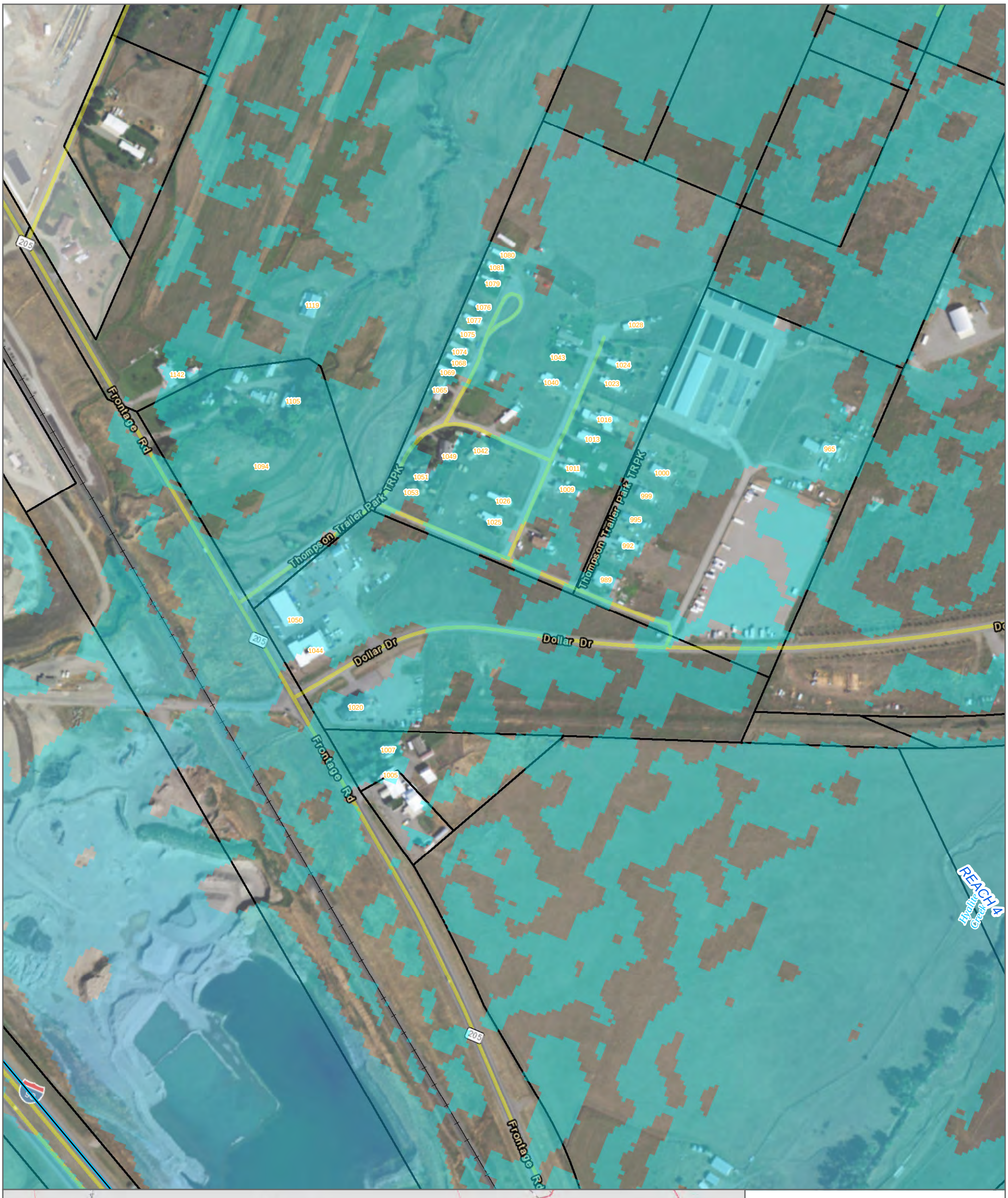
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

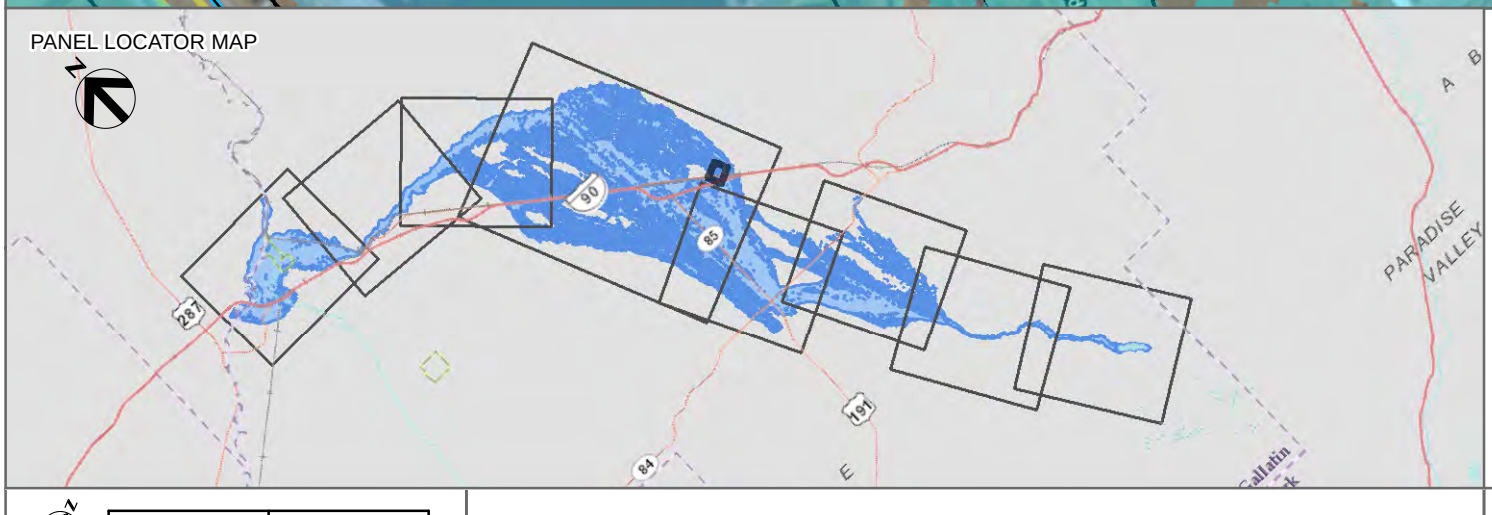
ISSUED: 6/12/2017

PANEL 1-5U

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_DETAILEDPANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV

- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC
- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 250 500
1 INCH = 300 FEET

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MAP PROJECTION: NAD 1983 MONTANA FIPS 2500, INTERNATIONAL FOOT DEFINITION

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MIDDLE CREEK

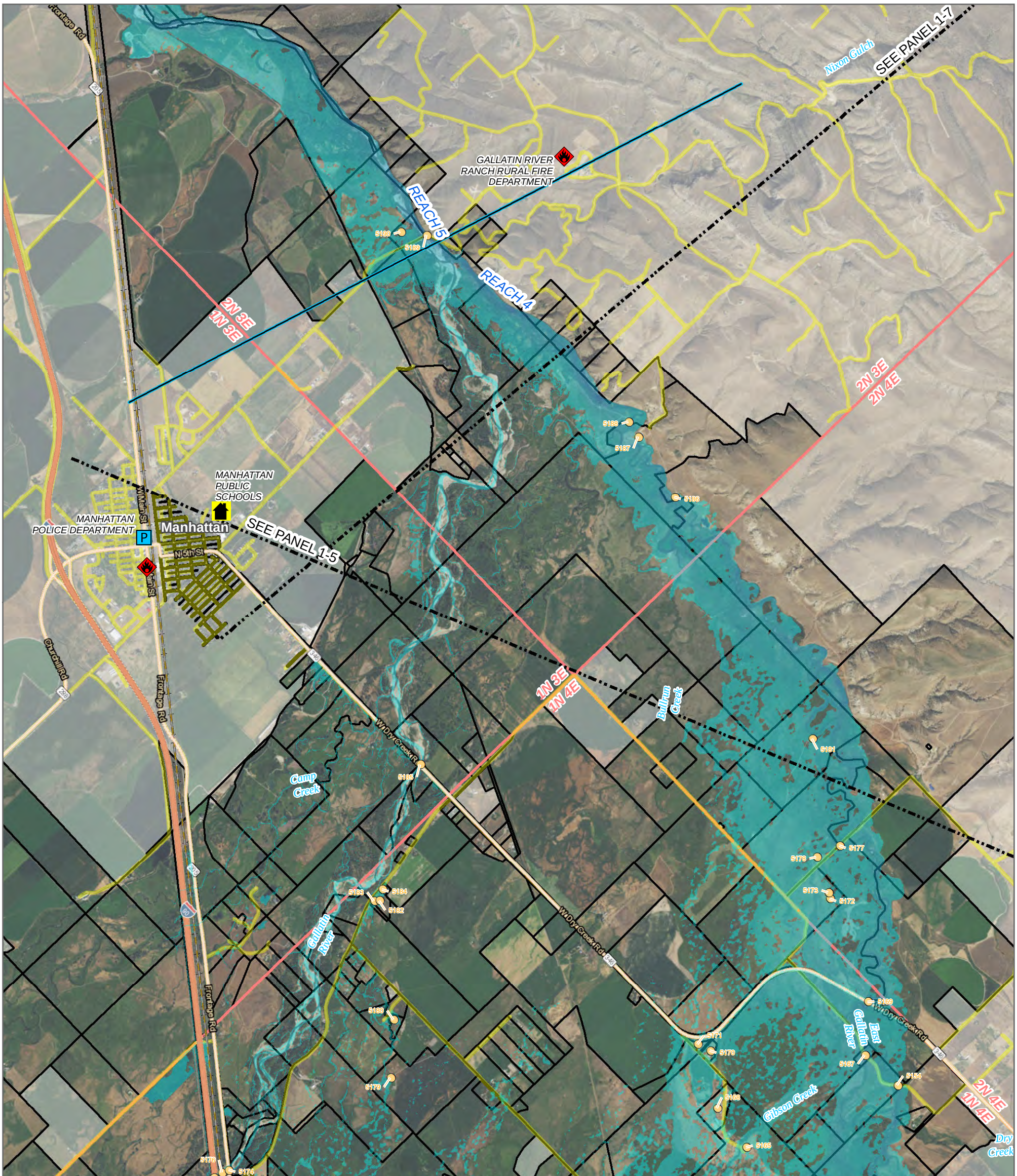
BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

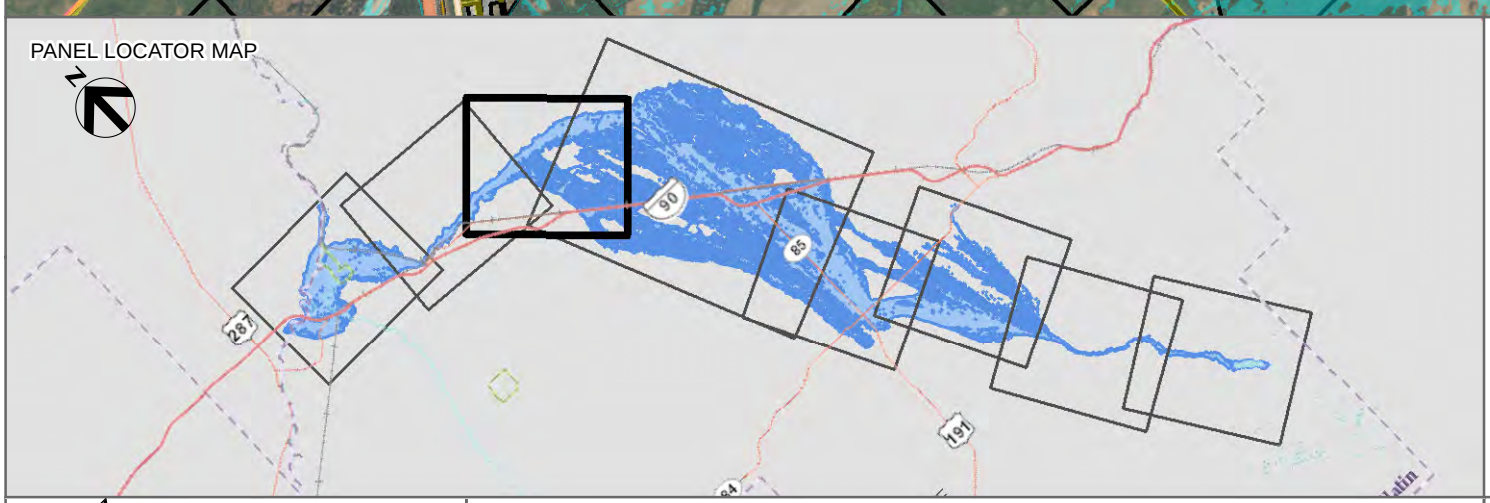
ISSUED: 6/12/2017

PANEL 1-5V

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_DETAILEDPANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017



PANEL LOCATOR MAP



COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

0 1,500 3,000
1 INCH = 3,000 FEET

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MIDDLE CREEK

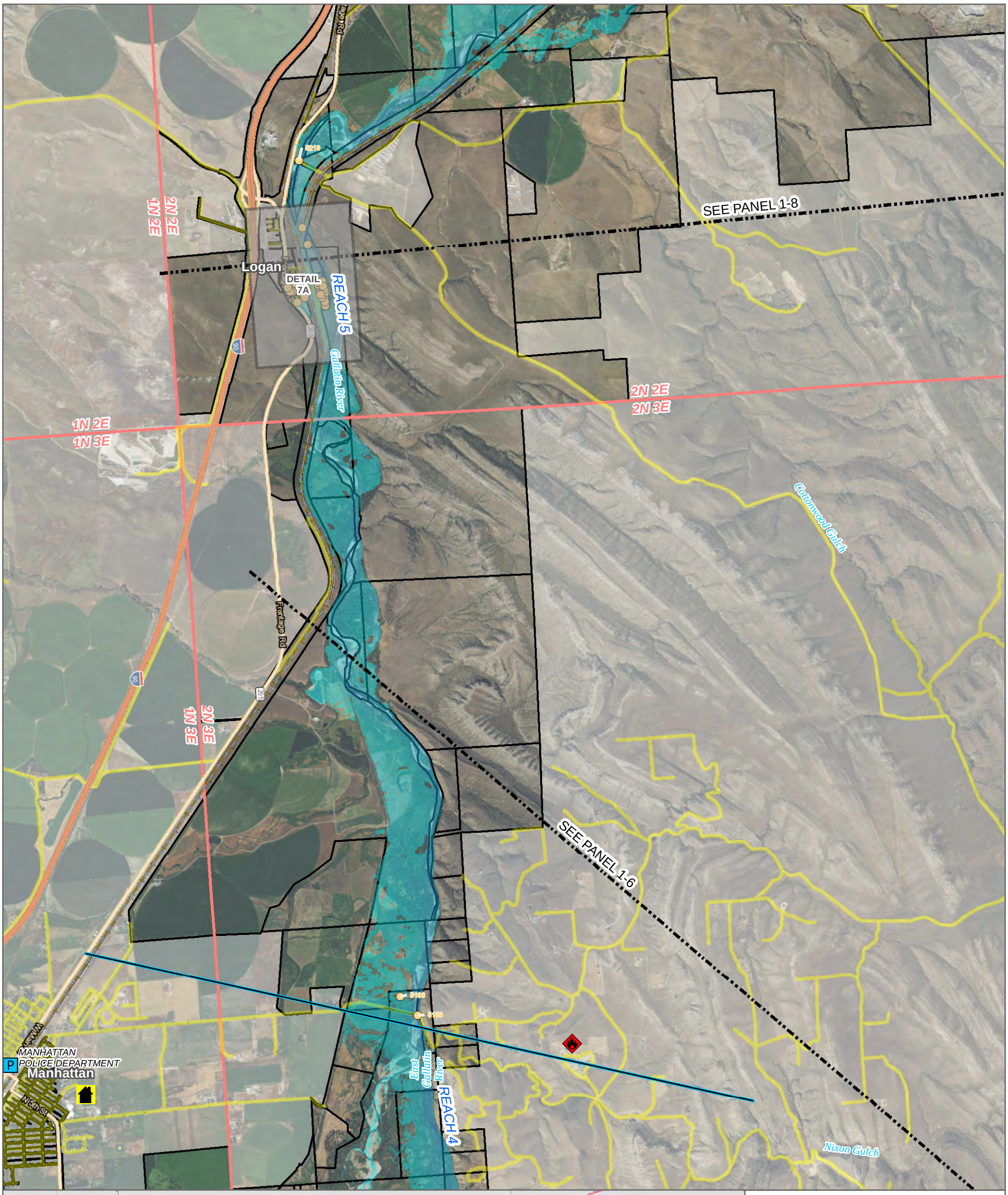
BREACH ANALYSIS

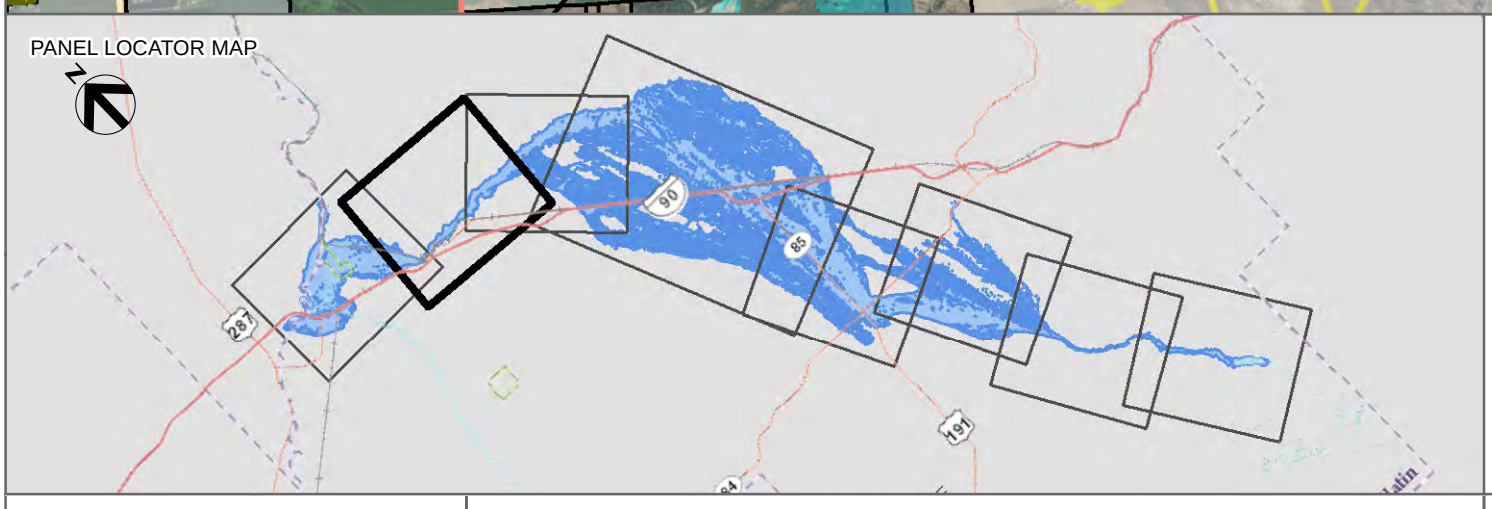
(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-6

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_PANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017





COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT
- DV: HIGH : 1330 FT²/SEC; LOW : 0 FT²/SEC
- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

N

0 1,500 3,000

1 INCH = 3,000 FEET

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MIDDLE CREEK

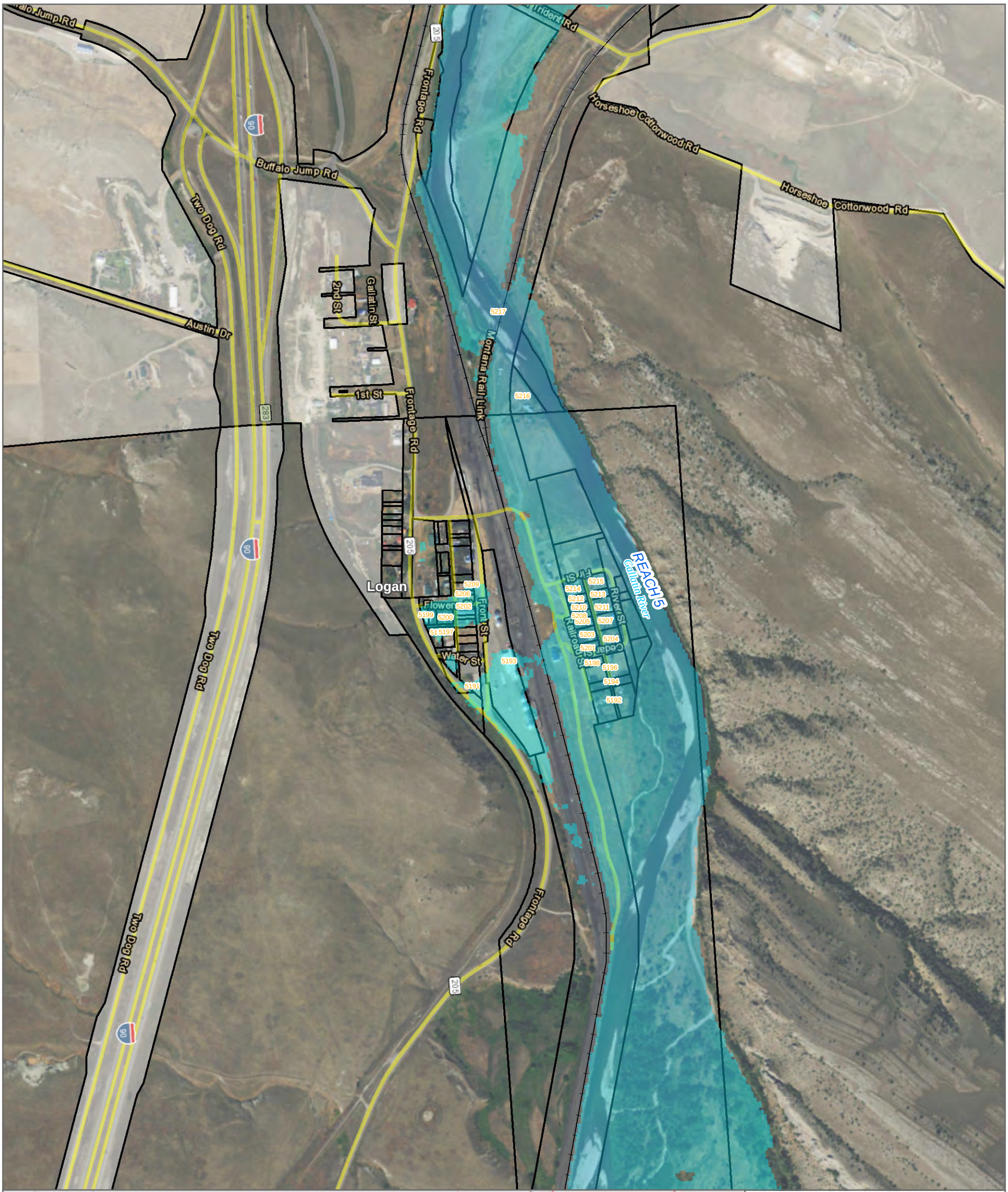
BREACH ANALYSIS

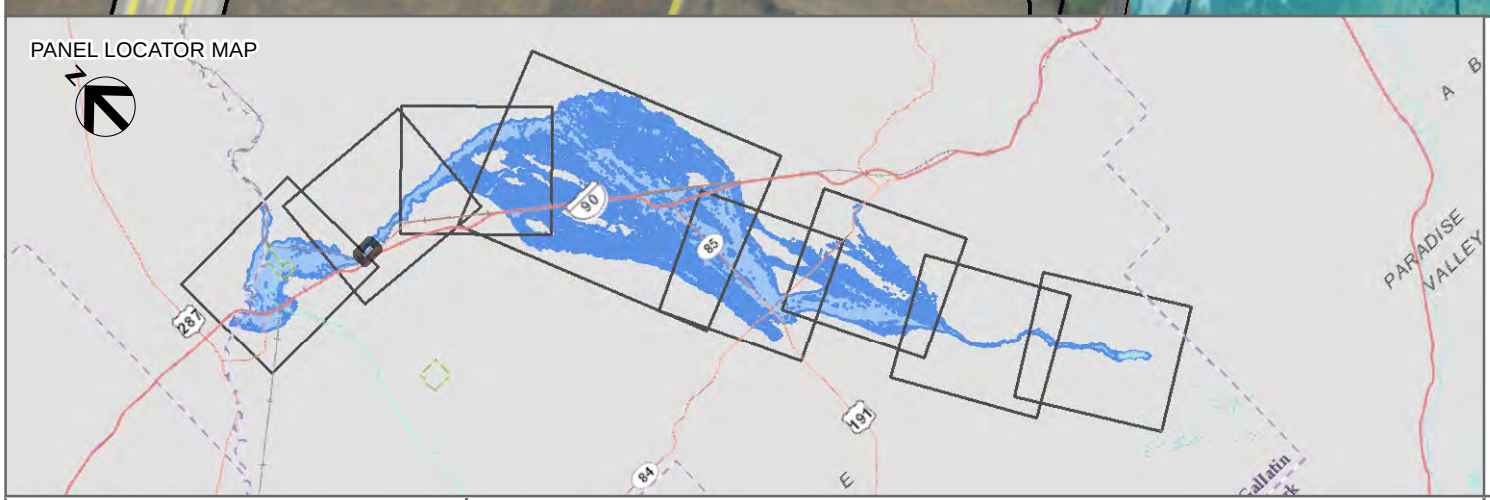
(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-7

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_PANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017





COUNTY: GALLATIN

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT

DV
- HIGH : 1330 FT²/SEC
- LOW : 0 FT²/SEC

- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

N

0 500 1,000

1 INCH = 600 FEET

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MIDDLE CREEK

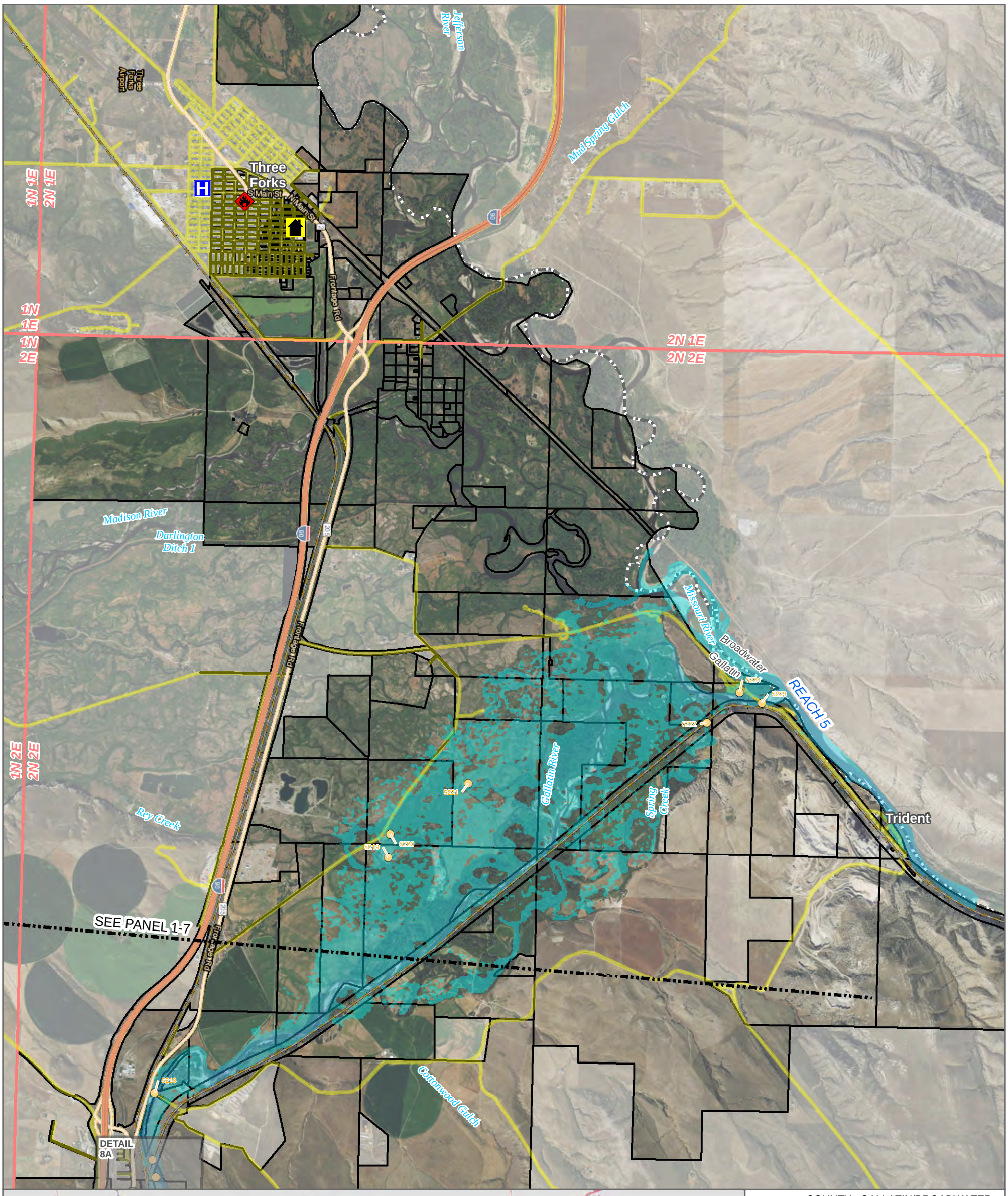
BREACH ANALYSIS

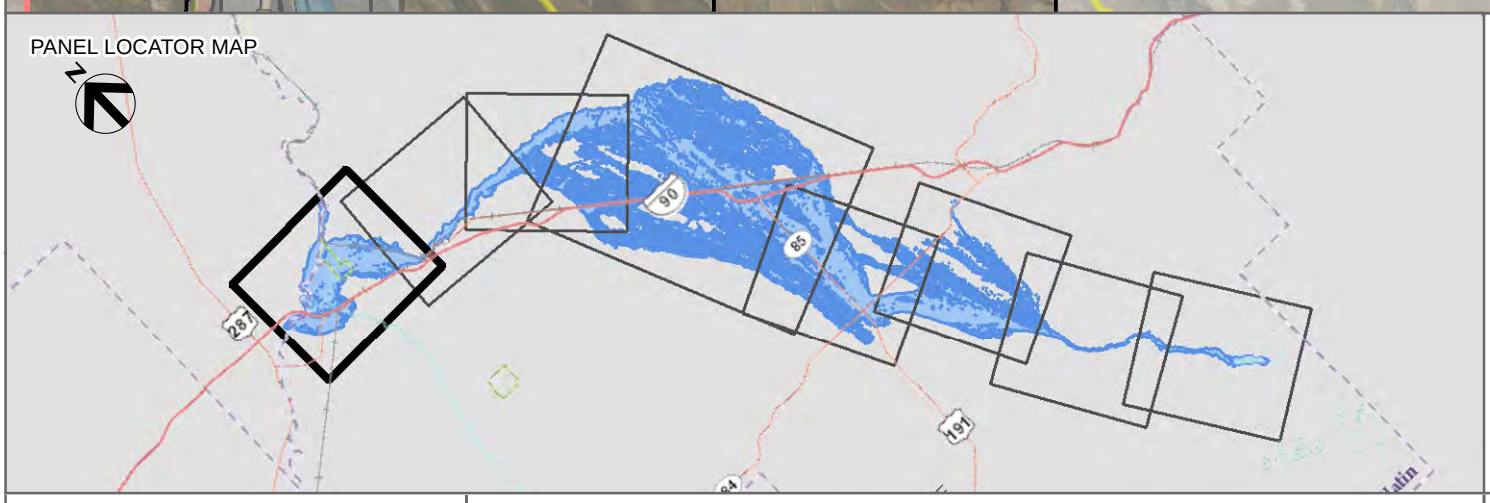
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PANEL 1-7A

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_DETAILEDPANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017





COUNTY: GALLATIN/BROADWATER

MAP FEATURES

- POLICE DEPT
- SHELTER
- HEALTHCARE
- SCHOOL
- FIRE DEPT
- DV
  - HIGH : 1330 FT²/SEC
  - LOW : 0 FT²/SEC
- LOSS OF LIFE STRUCTURES
- LOSS OF LIFE REACH BREAKS

N

0 1,500 3,000

1 INCH = 3,000 FEET

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MIDDLE CREEK

BREACH ANALYSIS

(SIMPLIFIED INUNDATION BOUNDARY)

ISSUED: 6/12/2017

PANEL 1-8

PATH: I:\PROJECTS\MTDNRC\10037925_DNRC_BREACH_ANALYSIS\MAP_DOCS\FIGURES\MIDDLE_CREEK\SIMPLIFIED\MIDDLE_CREEK_SIMPLIFIED_INUNDATION_PANELS1-X_11X17.MXD - USER: MKRUEGER - DATE: 6/12/2017