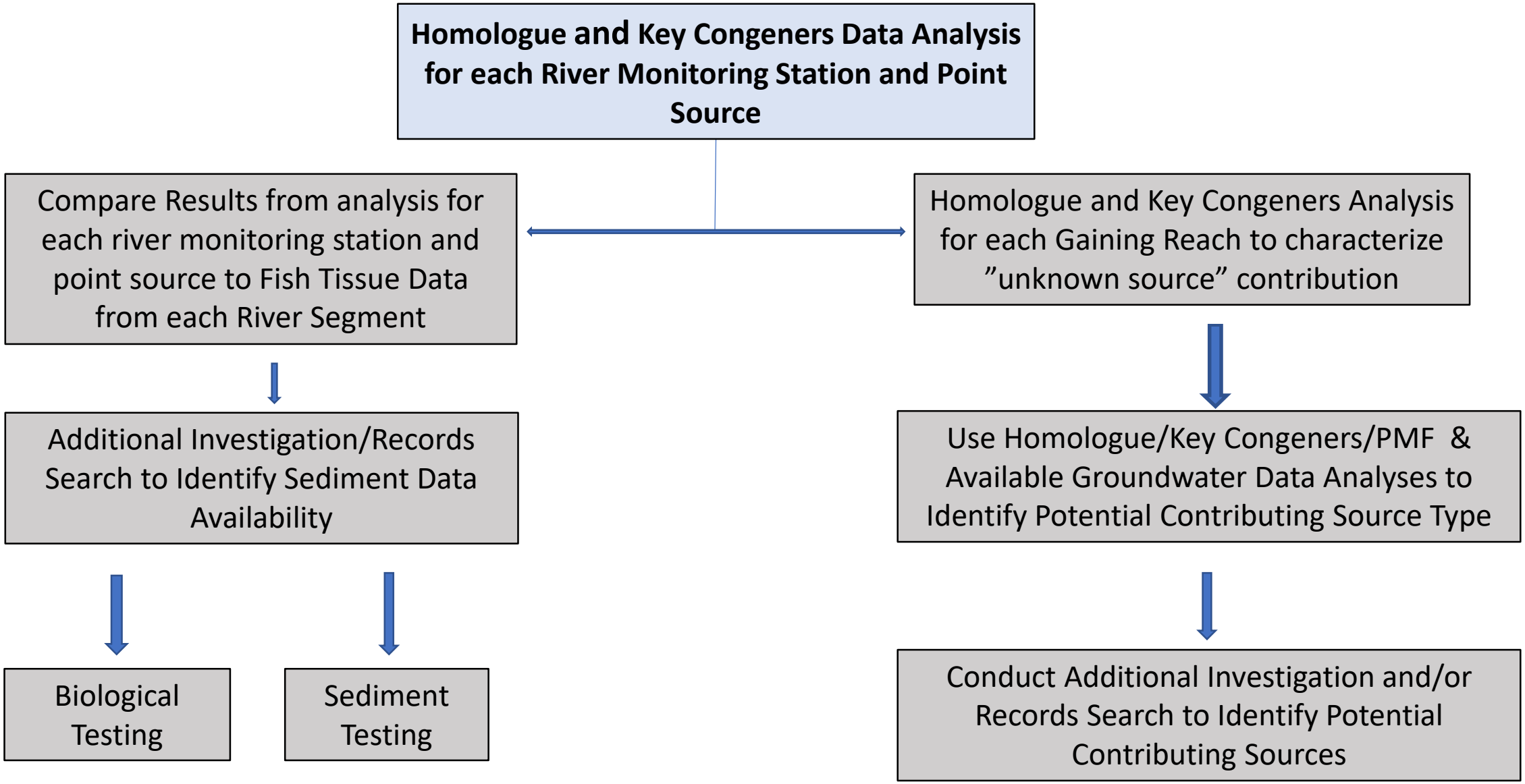Data Driven Approach for Additional Data Mining and Data Gap Filling