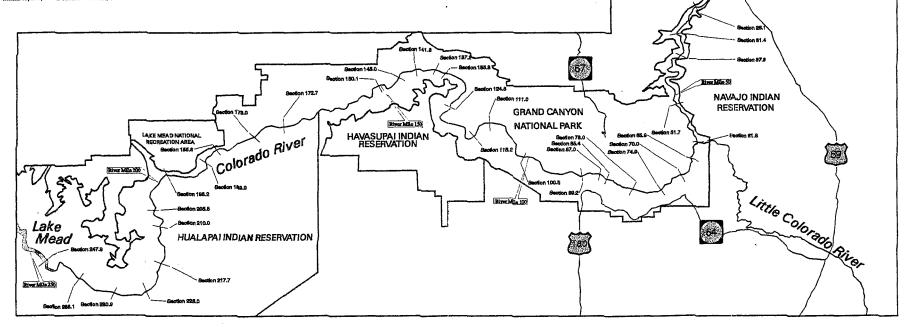


- A Ranges cover extremes for both Summy-Day Failure and Quartopping Failure as well as extremes for Manning's n roughness assumptions.
- B Water surface as shown on USGS 7.5 minute quadrangle maps.
- C It should be noted that for the Overtopping Failure, major flooding will already be occurring prior to the arrival of the leading edge of the flood wave caused by dam failure.
- D Depths at this section (the upstream face of the dam) are referenced above Lake Powell normal capacity water surface elevation, 3700 feet.
- E Values for this location are only for flood from an Overtopping Failure.
- F Estimate of channel invert for this study (due to accumulated sediments since 1884).
- G Depth above estimated channel invert.







INDEX OF CROSS SECTIONS USED IN DAM FAILURE STUDY

inundation mapping of canyon areas between Glen Canyon Dam and Lake Mead were not prepared, Because of the canyon being so deep and narrow, any inundation mapping would not effectively show the severity of the flooding. The inundation boundary for a flooding depth of 1450 feat would not appear much different than the boundary for a depth of 10p feat. See Table 1 above and in the study report for flooding results at selected locations in the

Cross section designation corresponds to river mile distance upstream or downstream from Lees Ferry. A positive number indicates downstream; a negative number indicates upatream.

Utah

Arizona

Sections 256.1 through 286.2 (in the upper reaches of Lake Mead) are not shown.

Colorado River Storage Project Glen Canyon Dam Inundation Map Index of Cross Sections Used in Dam Failure Study

Lake Powell

Andlen-2.8

Glen Canyon

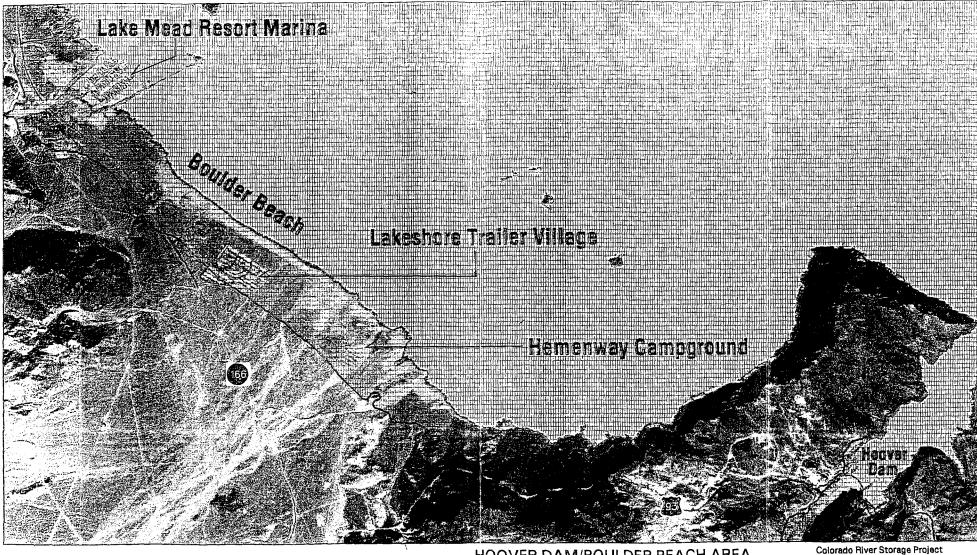
Dam ⊸

River Mile 0

August 1998



Scale = 1:815,000 One inch = 12.9 miles







looding of Lake Mead shoreling resulting from failure of Gien Canyon Dam.

Maximum water surface elevation is 1304 feet (397 meters).



United States Highway

Road Symbols:



Secondary State Route

HOOVER DAM/BOULDER BEACH AREA

FLOOD VALUES: For dam failure study, Lake Mead water surface elevation was assumed to be 1214.5 feet (for a December failure) or 1219.6 feet (for a July failure).

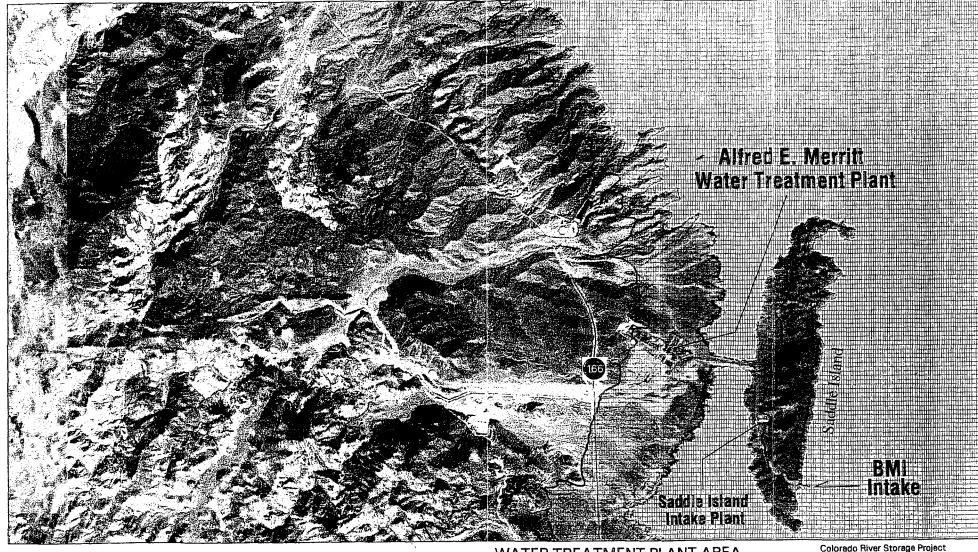
Failure of Glan Canyon Dam would result in the Lake Mead water level rising by approximately 85 to 90 feet. Arrival time of leading edge: 15 to 18 hours after Glan Canyon Dam failure. Time to maximum water surface (elevation 1304 feet): 73 to 75 hours after Glan Canyon Dam failure.

The inundation areas shown on this map reflect extremely rare events. Publication of this map is not intended Mapping may not show all current dwellings or other buildings. August 1998 Sheet 1 of 10



1000 2000

Scale of Feet Scale = 1:24,000 Glen Canyon Dam Inundation Map Key Areas Around Lake Mead





1000 2000 Scale of Feet Scale = 1:24,000

Flood Boundary:

Rooding of Lake Mead shoreline resulting from failure of Glen Canyon Darn.

Maximum water surface elevation is 1304 feet (397 meters).

Road Symbols:

Secondary State Route

WATER TREATMENT PLANT AREA

FLOOD VALUES: For dam failure study, Lake Mead water surface elevation was assumed to be 1214.5 feet (for a December failure) or 1219,6 feet (for a July failure).

Failure of Glen Canyon Dam would result in the Lake Mead water level rising by approximately 85 to 90 feet. Arrival time of leading edge: 15 to 18 hours after Gien Canyon Dam failure.

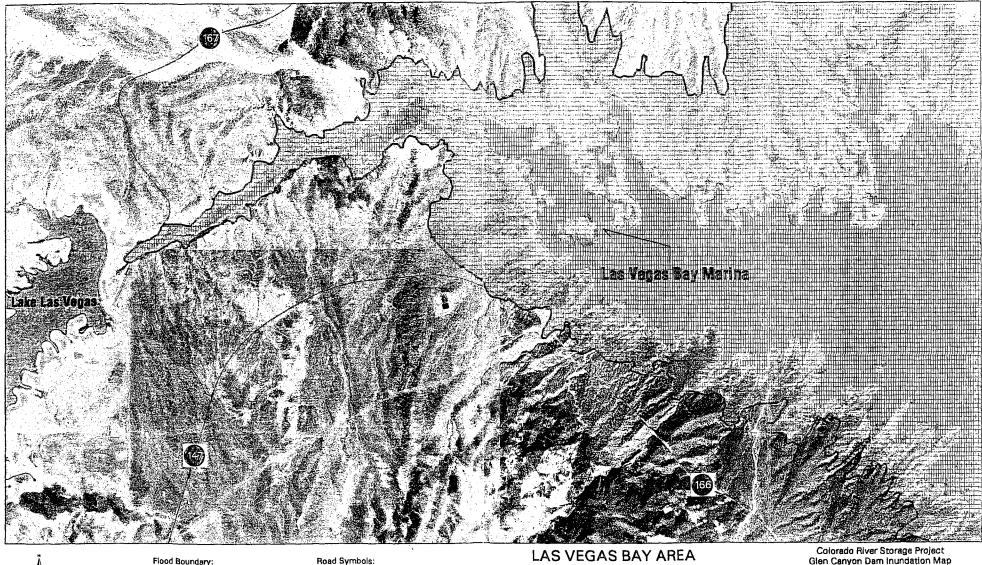
Time to maximum water surface (elevation 1304 feet): 73 to 75 hours after Gien Canyon Dam failure

The inundation areas shown on this map reflect extremely rare events. Publication of this map is not intended to reflect in any way upon the integrity of Gien Canyon Dam. All inundated areas shown on this map are approximate. Mapping may not show all current dwellings or other buildings.

Colorado River Storage Project Glen Canyon Dam Inundation Map Key Areas Around Lake Mead

> August 1998 Sheet 2 of 10









Rooding of Lake Mead shoreline resulting from failure of Gian Canyon Dam.

Maximum water surface elevation is 1304 feet (397 meters).



Secondary State Route



Secondary State Route



Nevada State Highway

FLOOD VALUES: For dam failure study, Lake Mead water surface elevation was assumed to be 1214.5 feet (for a December failure) or 1218.6 feet (for a July failure).

Failure of Glen Canyon Dam would result in the Lake Mesd water level rising by approximately 85 to 90 feet. Arrival time of leading edge: 15 to 18 hours after Glen Canyon Dam failure. Time to maximum water surface (elevation 1304 feet): 73 to 75 hours after Glen Canyon Dam failure.

NOTE:
The inundation areas shown on this map reflect extremely rare events. Publication of this map is not intended to reflect in any way upon the integrity of Gien Canyon Dam. All inundated areas shown on this map are approximate. Mapping may not show all oursent dwellings or other buildings.

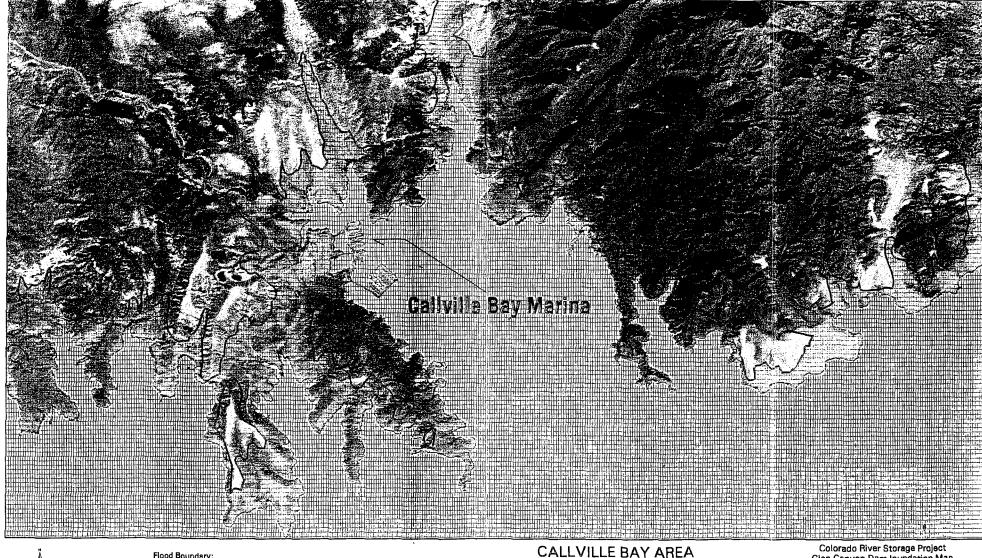
Colorado River Storage Project Glen Canyon Dam Inundation Map Key Areas Around Lake Mead

> August 1998 Sheet 3 of 10



1000 2000

Scale of Feet Scale = 1:24,000







Scale of Feet Scale = 1:24,000 Flood Boundary:

Rooding of Lake Mead shoreline resulting from failure of Gien Canyon Dam.

Maximum water surface elevation is 1304 feet (397 meters).

FLOOD VALUES:
For dam failure study, Lake Mead water surface elevation was assumed to be 1214.5 feet (for a December failure) or 1219.6 feet (for a July failure).

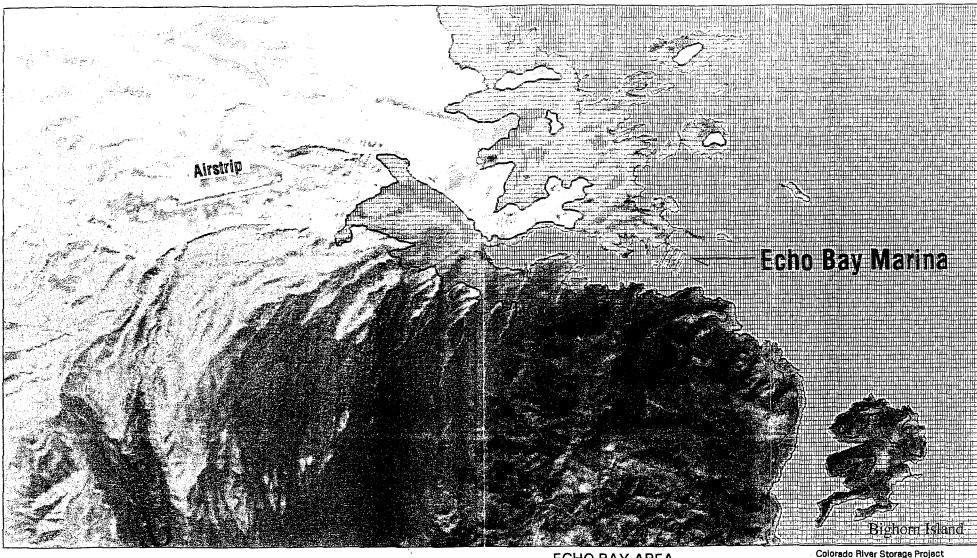
Failure of Glen Canyon Dam would result in the Lake Mead water level rising by approximately 85 to 90 feet. Arrival time of leading edge: 15 to 18 hours after Glen Canyon Dam failure, Time to maximum water surface (elevation 1304 feet): 73 to 75 hours after Glen Canyon Dam failure.

The inundation areas shown on this map reflect extremely rare events. Publication of this map is not intended to reflect in any way upon the integrity of Gian Canyon Dam. All inundated areas shown on this map are approximate. Mapping may not show all current dwellings or other buildings.

Colorado River Storage Project Gien Canvon Dam Inundation Map Key Areas Around Lake Mead

> August 1998 Sheet 4 of 10









Scale of Feet Scale ≈ 1:24,000

Flood Boundary:

Recoding of Lake Mead shoreline resulting from failure of Glen Canyon Dam.

Maximum water surface elevation is 1304 feet (397 meters).

ECHO BAY AREA

For dam failure study, Lake Mead water surface elevation was assumed to be 1214.5 feet (for a December failure) or 1219.6 feet (for a July failure).

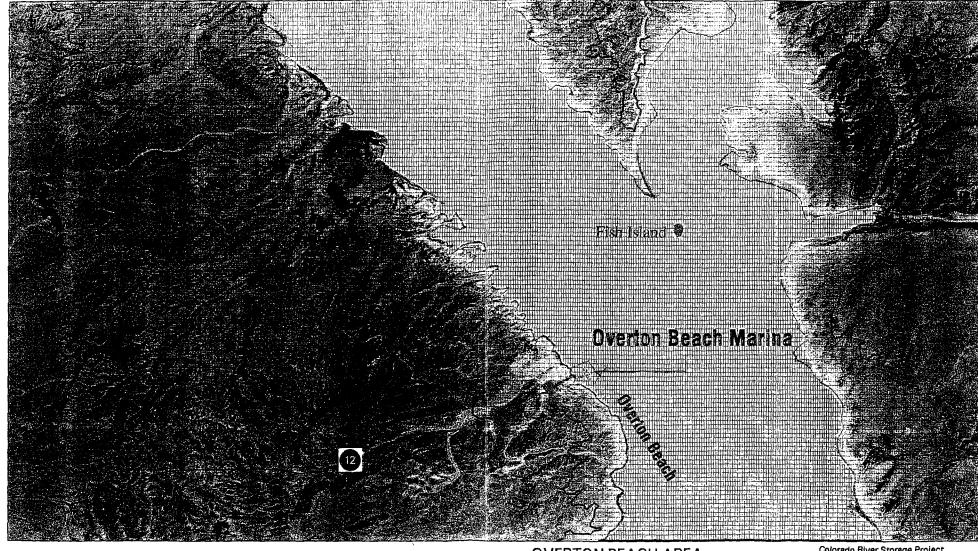
Failure of Glen Canyon Dam would result in the Lake Meed water level rising by approximately 85 to 90 feet. Arrival time of leading edge: 15 to 18 hours after Glen Canyon Dam failure. Time to maximum water surface (elevation 1304 feet): 73 to 75 hours after Glen Canyon Dam failure.

NOTE:
The fundation greas shown on this map reflect extremely rare events. Publication of this map is not intended to reflect in any way upon the integrity of Glen Canyon Dam. All inundated areas shown on this map are approximate, Mapping may not show all current dwellings or other buildings.

Colorado River Storage Project Glen Canyon Dam Inundation Map Key Areas Around Lake Mead

> August 1998 Sheet 5 of 10









Rooding of Lake Mead shoreline resulting from failure of Glen Canyon Dam.

Maximum water surface elevation is 1304 feet (397 meters).





Secondary State Route

OVERTON BEACH AREA

FLOOD VALUES:

For dam failure study, Lake Mead water surface elevation was assumed to be 1214.5 feet (for a December failure) or 1219.6 feet (for a July failure).

Failure of Glen Canyon Dam would result in the Lake Mead water level rising by approximately 85 to 90 feet. Arrival time of leading edge: 15 to 18 hours after Glen Canyon Dam failure. Time to maximum water surface (elevation 1304 feet): 73 to 75 hours after Glen Canyon Dam failure.

The inundation areas shown on this map reflect extremely rare events. Publication of this map is not intended to reflect in any way upon the integrity of Glen Canyon Dam. All inundated areas shown on this map are approximate. Mapping may not show all current dwellings or other buildings.

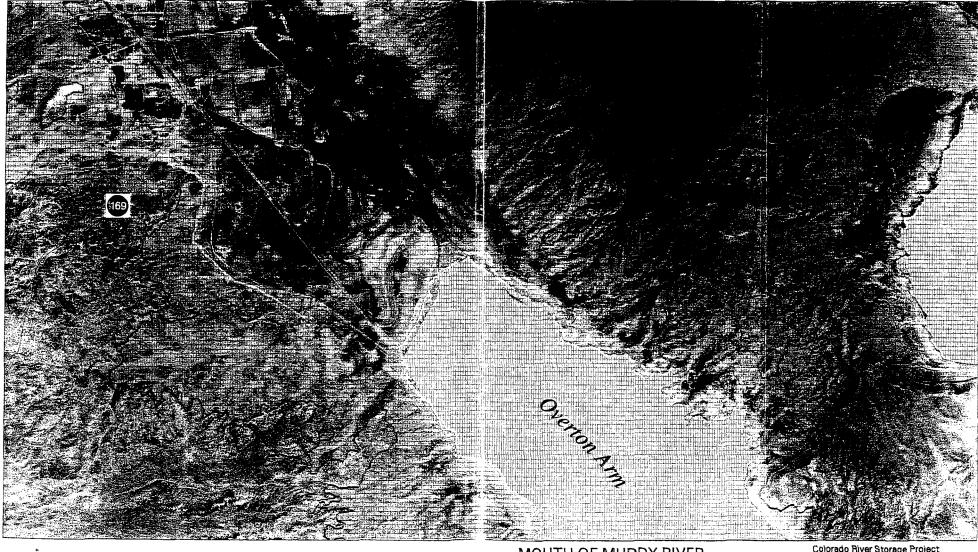
Colorado River Storage Project Glen Canyon Dam Inundation Map Key Areas Around Lake Mead

> August 1998 Sheet 6 of 10





Scale of Feet Scale = 1:24,000







Rooding of Lake Mead shoreline resulting from failure of Glen Canyon Dam.

Maximum water surface elevation is 1304 feet (397 meters).

Road Symbols:



Nevada State Highway

MOUTH OF MUDDY RIVER

FLOOD VALUES:
For darn failure sturiy, Lake Moad water surface elevation was assumed to be 1214.5 feet (for a December failure) or 1219.6 feet (for a July failure).

Failure of Glen Can fon Dam would result in the Lake Mead water level fising by approximately 85 to 90 feet. Arrival time of leading edge: 15 to 18 hours after Glen Canyon Dam failure. Time to maximum water surface (elevation 1304 feet): 73 to 75 hours after Glen Canyon Dam failure.

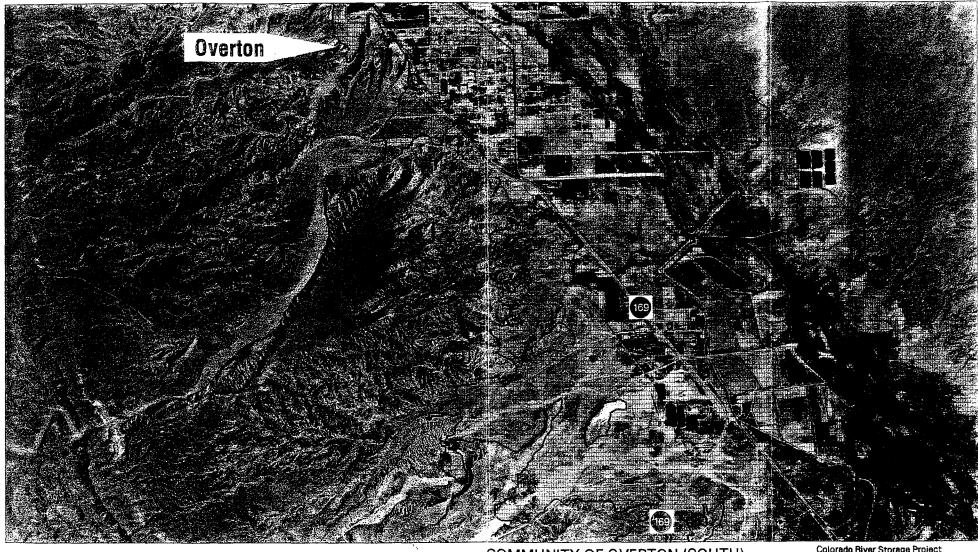
NOTE:
The inundation areas shown on this map reflect extremely rare events. Publication of this map is not intended to reflect in any way upon the integrity of Glen Canyon Dam. All inundated areas shown on this map are approximate. Mapping may not show all current dwallings or other buildings.

Colorado River Storage Project Glen Canyon Dam Inundation Map Key Areas Around Lake Mead

August 1998 Sheet 7 of 10











Rooding of Lake Mead shoreline resulting from failure of Glen Canyon Dam.

Maximum water surface elevation is 1304 feet (397 meters).



Nevada State Highway

COMMUNITY OF OVERTON (SOUTH)

FLOOD VALUES: For dam failure study, Lake Mead water surface elevation was assumed to be 1214.5 feet (for a December failure) or 1219.6 feet (for a July failure).

Failure of Glan Canyon Dam would result in the Lake Mead water level rising by approximately 85 to 90 feet. Arrival time of leading edge: 15 to 18 hours after Glan Canyon Dam failure. Time to maximum water surface (elevation 1304 feet): 73 to 75 hours after Glan Canyon Dam failure.

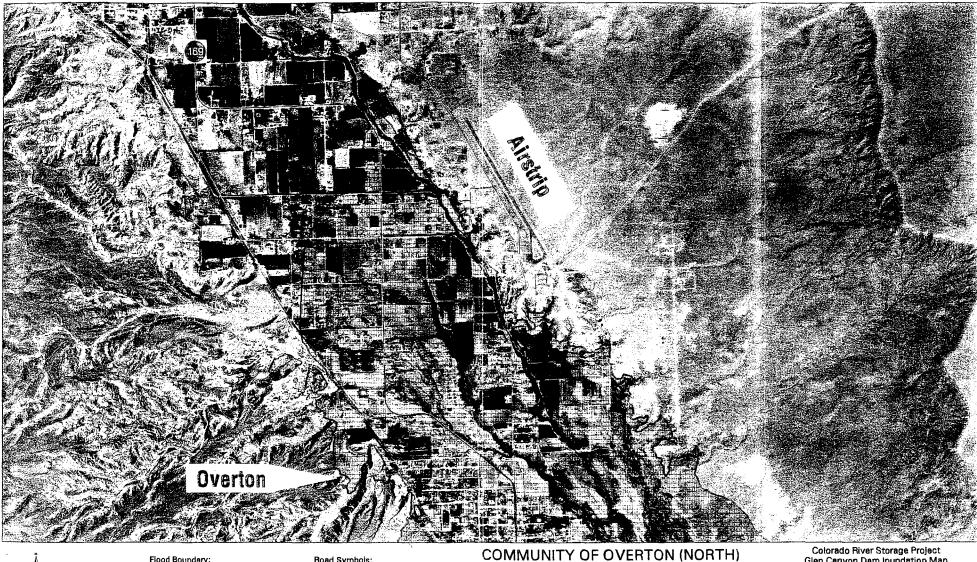
NOTE:
The inundation areas shown on this map reflect extremely rare events. Publication of this map is not intended to reflect in any way upon the integrity of Glen Canyon Dem. All inundated areas shown on this map are approximate. Mapping may not show all current dwellings or other buildings.

Colorado River Storage Project Glen Canyon Dam Inundation Map Key Areas Around Lake Mead

> August 1998 Sheet 8 of 10











Scale of Feet Scale = 1:24,000 Flood Boundary:

Rooding of Lake Mead shoreline resulting from failure of Gien Canyon Dam.

Maximum water surface elevation is 1304 feet (397 meters).

Road Symbols:

Nevada State Highway

FLOOD VALUES: For dem failure study, Lake Mead water surface elevation was assumed to be 1214.5 feet (for a December failure) or 1219.8 feet (for a July failure).

Failure of Glen Canyon Dam would result in the Lake Mead water level rising by approximately 95 to 90 feet.

Arrival time of leading edge: 15 to 19 hours after Glen Canyon Dam failure.

Time to maximum water surface (elevation 1304 feet): 73 to 75 hours after Glen Canyon Dam failure.

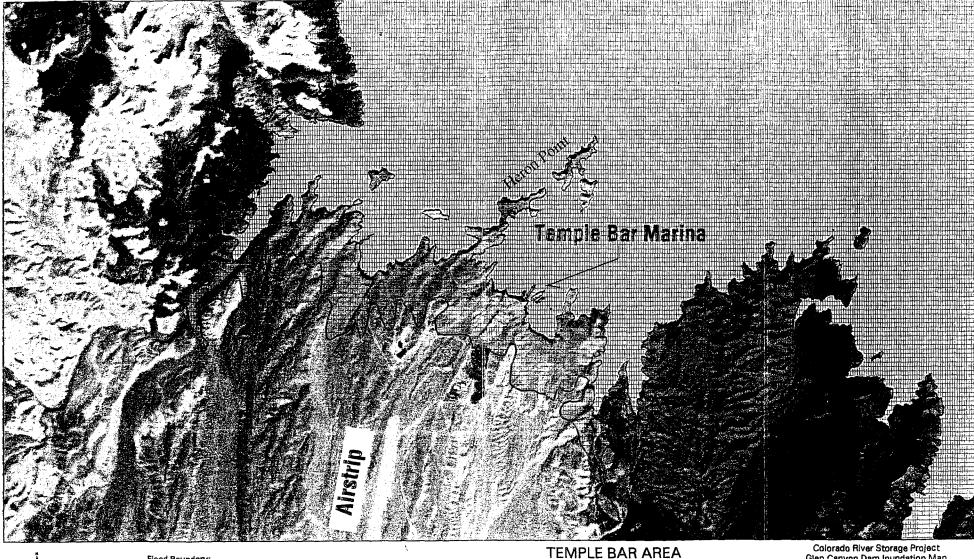
NOTE:
The inundation areas shown on this map reflect extremely rare events. Publication of this map is not intended to reflect in any way upon the integrity of Glen Caryon Darn. All inundated areas shown on this map are approximate.

Mapping may not show all current dwellings or other buildings.

Colorado River Storage Project Glen Canyon Dam Inundation Map Key Areas Around Lake Mead

August 1998 Sheet 9 of 10









Scale of Feet Scale = 1:24,000 Flood Boundary:

Recoding of Lake Mead shoreline resulting from failure of Glen Canyon Dam.

Maximum water surface elevation is 1304 feet (397 meters).

FLOOD VALUES:

For dam failure study, Laka Mead water surface elevation was assumed to be 1214.5 feet (for a December failure) or 1219.8 feet (for a July failure).

Failure of Glen Canyon Dam would result in the Lake Mead water level rising by approximately 85 to 90 feet. Arrival time of leading edge: 15 to 18 hours after Glen Canyon Dam failure.

Time to maximum water surface (elevation 1304 feet): 73 to 75 hours after Glen Canyon Dam failure.

NOTE:
The inundation areas shown on this map reflect extremely rare events. Publication of this map is not intended to reflect in any way upon the integrity of Glen Canyon Dam. All inundated areas shown on this map are approximate. Mapping may not show all current dwellings or other buildings.

Glen Canyon Dam Inundation Map Key Areas Around Lake Mead

> August 1998 Sheet 10 of 10

