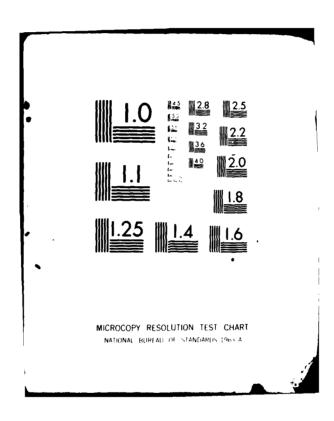
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LAKE CHAMPLAIN BASIN

CHAZY LAKE DAM

**NEW YORK** 



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# PHASE I INSPECTION REPORT NATIONAL DAM SAFETY PROGRAM

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NEW YORK DISTRICT CORPS OF ENGINEERS

AUGUST 1981

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The hydrologic/hydraulic analysis indicates the spillway will pass only 4.2 percent of the PMF and 60 percent of the 1/2 PMF. The dam will be overtopped by 1.7 feet and 0.15 feet during the PMF and 1/2 PMF respectively. The depth of water at the downstream hazard will increase from 5 feet to 11.5 feet due to dam break. The roadway at the river crossing will be topped by 1.5 feet. The nearest residence is approximately 300 feet from the bridge and a few feet higher than the road. Therefore, the dam break analysis indicates that failure of the dam during the 1/2 PMF would not significantly increase the downstream hazard from that which would exist just prior to failure of the dam. The spillway capacity, therefore, is assessed as inadequate.

The structural stability analysis indicates unsatisfactory stability would result from loadings which could occur during normal operation of the dam. The analysis specifically indicates marginal or unsatisfactory stability for sliding for all loading conditions investigated. A structural stability investigation should be commenced within 3 months to determine the properties of the existing dam and foundation and the effect of these characteristics on the stability of the dam. Remedial work should be undertaken depending on the results of this investigation and completed within 18 months.

The inspection also disclosed the presence of longitudinal cracks through the top of the core wall, spillway crest and in the abutment walls of the spillway. Investigations should be undertaken to determine the cause of this cracking and remedial work should be undertaken depending on the results of this investigation. This investigation should be commenced within 3 months and the remedial work should be completed within 18 months of this notification.

Wet areas were found to exist beyond the toe of the embankment near the right abutment of the dam and in an area to the right of the spillway. An investigation should be undertaken to determine the source of these wet areas and remedial measures should be taken depending on the results of this investigation. This investigation should be commenced within 3 months and the remedial work should be completed within 18 months of this notification.

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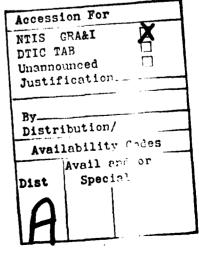
This report is prepared under guidance contained in the Recommended Guidelines for Safety Inspection of Dams, for Phase I Investigations. Copies of these guidelines may be obtained from the Office of Chief of Engineers, Washington, D.C. 20314. The purpose of a Phase I Investigation is to identify expeditiously those dams which may pose hazards to human life or property. The assessment of the general condition of the dam is based upon available data and visual inspections. Detailed investigation and analyses involving topographic mapping, subsurface investigations, testing, and detailed computational evaluations are beyond the scope of a Phase I Investigation; however, the investigation is intended to identify any need for such studies.

In reviewing this report, it should be realized that the reported condition of the dam is based on observations of field conditions at the time of inspection along with data available to the inspection team. In cases where the reservoir was lowered or drained prior to inspection, such action, while improving the stability and safety of the dam, removes the normal load on the structure and may obscure certain conditions which might otherwise be detectable if inspected under the normal operating environment of the structure.

It is important to note that the condition of a dam depends on numerous and constantly changing internal and external conditions, and is evolutionary in nature. It would be incorrect to assume that the present condition of the dam will continue to represent the condition of the dam at some point in the future. Only through frequent inspections can unsafe conditions be detected and only through continued care and maintenance can these conditions be prevented or corrected.

Phase I inspections are not intended to provide detailed hydrologic and hydraulic analyses. In accordance with the established Guidelines, the Spillway Test flood is based on the estimated "Probable Maximum Flood" for the region (greatest reasonably possible storm runoff), or fractions thereof. Because of the magnitude and rarity of such a storm event, a finding that a spillway will not pass the test flood should not be interpreted as necessarily posing a highly inadequate condition. The test flood provides a measure of relative spillway capacity and serves as an aid in determining the need for more detailed hydrologic and hydraulic studies, considering the size of the dam, its general condition and the downstream damage potential.

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#### PREFACE

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# PHASE I INSPECTION REPORT

# NATIONAL DAM SAFETY PROGRAM

Name of Dam: State Located: County: Watershed: Stream: Date of Inspection:

Chazy Lake Dam ID. No. NY 236 New York Clinton Lake Champlain Basin Great Chazy River May 22, 1981

# ASSESSMENT OF GENERAL CONDITIONS

The examination of documents and visual inspection of the Chazy Lake Dam did not reveal conditions which constitute an immediate hazard to human life or property. The dam, however, has a number of problem areas which require further investigation and remedial work.

The hydrologic/hydraulic analysis indicates the spillway will pass only 4.2 percent of the PMF and 60 percent of the 1/2 PMF. The dam will be overtopped by 1.7 feet and 0.15 feet during the PMF and 1/2 PMF respectively. The depth of water at the downstream hazard will increase from 5 feet to 11.5 feet due to dam break. The roadway at the river crossing will be topped by 1.5 feet. The nearest residence is approximately 300 feet from the bridge and a few feet higher than the road. Therefore, the dam break analysis indicates that failure of the dam during the 1/2 PMF would not significantly increase the downstream hazard from that which would exist just prior to failure of the dam. The spillway capacity, therefore, is assessed as inadequate.

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The inspection also disclosed the presence of longitudinal cracks through the top of the core wall, spillway crest and in the abutment walls of the spillway. Investigations should be undertaken to determine the cause of this cracking and remedial work should be undertaken depending on the results of this investigation. This investigation should be commenced within 3 months and the remedial work should be completed within 18 months of this notification.

Wet areas were found to exist beyond the toe of the embankment near the right abutment of the dam and in an area to the right of the spillway. An investigation should be undertaken to determine the source of these wet areas and remedial measures should be taken depending on the results of this investigation. This investigation should be commenced within 3 months and the remedial work should be completed within 18 months of this notification. The following deficiencies should be corrected with one year:

- 1. Repair concrete surfaces on the spillway and repair the concrete buttress at the center of the spillway.
- 2. Replace rubble fill behind the face wall where this material has been displaced.
- 3. Re-align the facewall section where vertical displacement has taken place.
- 4. Remove trees and brush from all embankment sections.
- 5. Replace the slope protection on the upstream face of the core wall section of the embankment.
- 6. A formalized inspection system should be adopted to develop data on the conditions and maintenance operations of the facility.
- 7. A flood warning and emergency evacuation plan should be implemented to alert the public should conditions occur which could result in failure of the dam.

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Dale Engineering Company

Stetson. John President

Col. W. M. Smith, JC. New York District Engineer

Approved By: Date:

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1. OVERVIEW OF CHAZY LAKE DAM

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# PHASE I INSPECTION REPORT NATIONAL DAM SAFETY PROGRAM CHAZY LAKE DAM I.D. NO. NY 236 LAKE CHAMPLAIN BASIN CLINTON COUNTY, NEW YORK

# SECTION 1: PROJECT INFORMATION

#### 1.1 GENERAL

# a. Authority

Authority for this report is provided by the National Dam Inspection Act, Public Law 92-367 of 1972. It has been prepared in accordance with a contract for professional services between Dale Engineering Company and the U.S. Army Corps of Engineers.

# b. Purpose of Inspection

The purpose of this inspection is to evaluate the existing condition of the Chazy Lake Dam and appurtenant structures, owned by the Town of Dannemora, New York, and to determine if the dam constitutes a hazard to human life or property and to transmit findings to the U.S. Army Corps of Engineers.

This Phase I inspection report does not relieve an Owner or Operator of a dam of the legal duties, obligations or liabilities associated with the ownership or operation of the dam. In addition, due to the limited scope of services for these Phase I investigations, the investigators had to rely upon the data furnished to them. Therefore, this investigation is limited to visual inspection, review of data prepared by others, and simplified hydrologic, hydraulic and structural stability evaluations where appropriate. The investigators do not assume responsibility for defects or deficiencies in the dam or in the data provided.

# **1.2 DESCRIPTION OF PROJECT**

#### a. Description of Dam and Appurtenances

The Chazy Lake Dam consists of two separate dike sections separated by a 50 foot length of earth knoll. The left portion (core wall section) of the dam is 1,100 feet long and reaches a maximum height of approximately 18 feet. The crest of the dam is 14 feet wide with the upstream slope 1 vertical to 2 horizontal and the downstream slope 1 vertical to 1-3/4 horizontal. The facility is an earthfill structure with a concrete core wall which extends approximately 8 feet below the natural ground level in the area. The top of the core wall extends to the surface of the embankment and is visible throughout the entire length of the structure. A gatehouse is situated about 290 feet from the left abutment of this section of the dam. The spillway is located approximately 520 feet from the left abutment. The right section of the dam (face wall section) is approximately 1,437 feet long. This portion of the facility consists of a concrete face wall which extends approximately 5 feet into the natural

ground surface. The stem of the wall is 18 inches thick. This face wall was constructed to raise the height of the structure approximately 5 feet above an existing earthen dike. The area behind the face wall is backfilled with rubble fill. The crest width of the rubble fill is approximately 5 feet and the downstream slope of the fill is 1 vertical to 1-1/2 horizontal. The spillway is a 30 foot wide broad-crested weir which discharges on a reinforced concrete apron. A single buttress at the center of the spillway provides structural support to the core wall which forms the spillway section. The gatehouse controls three 36 inch diameter pipes with gates which discharge through a 9 foot wide by 6 foot high reinforced concrete culvert. This culvert is splayed to a width of 18 feet at its discharge end. The gates are operated by mechanical controls situated in the gatehouse at the crest of the dam. A 12 foot high trash rack at the inlet to the discharge pipes prevents debris from entering the area near the gates.

The Town of Dannemora operates a recreational facility in the area between the two sections of the dam. The small earth knoll which separtes the two sections provides access to the water and provides a public beach and a boat dock.

# b. Location

The dam is located in the Town of Dannemora, Clinton County, New York. The dam is situated approximately 6.4 miles northwest of Dannemora on N.Y. Route 374.

# c. Size Classification

The maximum height of the dam is approximately 18 feet. The volume of the impoundment is approximately 90,000 acre feet. Therefore, the dam is in the large size classification as defined by the Recommended Guidelines for Safety Inspection of Dams.

# d. Hazard Classification

Three permanent residences and one mobile home residence are located near the Great Chazy River approximately 2 miles downstream from the facility. Therefore, the dam is in the high hazard classification as defined by the Recommended Guidelines for Safety Inspection of Dams.

# e. Ownership

The dam is owned by the Town of Dannemora.

Contact: John Kourofsky, Supervisor Town of Dannemora Dannemora New York 12929 Telephone: (518) 492-7541

# f. Purpose of the Dam

The dam is used to control the level of Chazy Lake. The prime function of Chazy Lake is for recreational purposes and as a water supply for the Village of Dannemora.

# g. Design and Construction History

The original dam at this site is reputed to have been constructed during the late 19th Century. The present facility was constructed from plans dated 1926. No other information is available regarding the design or construction of the facility. The 1926 plans substantially conform to the present configuration of the present facility. No information is available regarding the design or construction history of this dam.

# h. Normal Operational Procedures

The water level in Chazy Lake is maintained at the spillway crest elevation during normal run-off conditions. The drainline gates are opened during the winter season to drop the lake level approximately 1 foot in order to minimize ice damage to boat docks on the lake shore. The facility is visited periodically by representatives of the Town of Dannemora who operate a small recreation area near the dam.

# 1.3 PERTINENT DATA

Galler Charles and

a. Drainage Area

The drainage area of the Chazy Lake Dam is 22.6 square miles.

# b. Discharge at Dam Site

No discharge records are available for this site.

Computed discharges:

Spillway, top of dam	650 cfs
Gated drawdown,* water surface at spillway crest water surface at top of dam	330 cfs 390 cfs
c. Elevation (feet above MSL)	
Top of dam Spillway crest Stream bed at centerline of dam	1,545 1,541 1,527
d. Reservoir	
Length of normal pool	21,000 ft.

\* Discharge through three, 3 foot diameter sluice-gated pipes.

<u>e. Storage</u> Top of dam Spillway pool f. Reservoir Area

> 1,930 acres 1,818 acres

90,000 acre feet

81,700 acre feet

# g. Dam

Top of dam

Spillway pool

Type - earth fill Length - 2,490 feet Height - 18 feet Freeboard between normal reservoir and top of dam - 4 feet Top width - 14 feet Side slopes- Downstream: 2 horizontal: 1 vertical Upstream: 1-3/4 horizontal: 1 vertical Zoning - Earthfill Impervious core - Concrete extending from top of dam into natural ground Grout Curtain - None

# h. Spillway

Type - Uncontrolled, broad crested Length - 30 feet Crest elevation - 1541 feet Gates - None U/S Channel - Reservoir D/S Channel - Natural

i. Regulating Outlets

Three, 3 foot diameter sluice-gated pipes. (Also through water distribution system)

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# SECTION 2: ENGINEERING DATA

# 2.1 GEOTECHNICAL DATA

# a. Geology

Geologically, Chazy Lake Dam is located in the northeast sector of the Adirondack physiographic province which is part of the Appalachian Highlands, the major physiographic division. The St. Lawrence Valley physiographic province is located to the north and east of the lake. The area had been subjected to glacial activity, scouring and deposition. The lake is located in and is surrounded by glacial drift. Surrounding the glacial deposits and most likely beneath those deposits is the Precambrian Lyon Mountian granite gneiss. No bedrock exposures were seen in the vicinity of the dam.

The lake, which was present prior to construction of the dam, has a reported depth of about 100 feet and most likely was created by glacial scour.

# b. Subsurface Investigations

Plans from 1926 indicate that the spillway and dike were to be keyed into natural ground. The 1899 report indicates the natural material of the bed is clay whereas the 1916 report indicates the material is gravel.

# 2.2 DESIGN RECORDS

No reports were available from the original design of the dam. The available drawings are included in Appendix G.

# 2.3 CONSTRUCTION RECORDS

No information was available concerning the original construction.

# 2.4 OPERATIONAL RECORDS

There are no operational records available for this dam.

# 2.5 EVALUATION OF DATA

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The data presented in this report was obtained from the New York State Department of Environmental Conservation, Dam Safety Section. The information available appears to be reliable and adequate for a Phase I inspection report.

# SECTION 3: VISUAL INSPECTION

# 3.1 FINDINGS

# a. General

The Chazy Lake Dam was inspected on May 22, 1981. The Dale Engineering Company inspection team was accompanied by John Kourofsky, Supervisor of the Town of Dannemora. During the inspection, the weather was fair. Water level in the impoundment was 1541.25, approximately 3 inches of flow cresting the spillway.

#### b. Dam

The embankment of the left section of the dam structure is heavily overgrown with trees and brush. Mature trees are situated at the crest and on both slopes of the embankment so as to partially obscure the surface of the ground. The top of the concrete core wall is exposed throughout the entire length of the left section of the dam. Slope protection on the upstream face has deteriorated causing irregularity in the earthen crest elevation. There was no evidence in the field that this irregularity is due to subsidence but rather that it was caused by either general erosion of the crest or that the earthen crest was not constructed to the full The concrete core wall remains height of the top of concrete core wall. in good alignment with no evidence of structural deformation noted in the field. A longitudinal crack down the center of the top of the exposed core wall exists over much of the length of the wall. The cause for this crack is unexplained. Normal forces acting upon such a structure should not result in cracking along the center line of the wall.

The right section of the dam with the concrete face wall is also overgrown with trees and brush on the downstream slope. In many areas, the rubble backfill has been displaced by vandals and is depressed to an elevation 2 to 3 feet below the top of the concrete face wall. The concrete face wall has shown evidence of settlement with some slabs of the wall being depressed 3 to 4 inches below the top of adjacent slabs.

A substantial wet area was detected beyond the toe of slope near the right abutment of the face wall section. This area contained standing water to the depth of 6 to 8 inches and was heavily overgrown with wetland brush and grasses. The dense foiliage in this area precluded close examination to determine whether this was seepage or merely poor drainage beyond the toe of slope. A similar area existed near the right abutment of the core wall section of the dam. In this area, some dumping of debris was found to exist adjacent to the wet area. Rust colored deposits indicative of iron precipitation was found in this area.

# c. Spillway

The spillway for the facility is situated in the core wall embankment section. The spillway is 30 feet wide with concrete abutment walls on each side of the spillway retaining the earthfill embankment. There were sizable areas of surface deterioration noted on both wing walls. There was also evidence of cracking longitudinally along the center line of the

wing wall. This cracking again is not explained by the normal forces which would be expected on such a facility. The center buttress which supports the core wall near the center of the spillway also showed some signs of deterioration when viewed through the cascading water.

### d. Reservoir Drain

The mechanical equipment, which operates the gates for the reservoir drain, was found to be in operating condition. The representative of the Town of Dannemora who accompanied the inspection team indicated that the gates are operated annually to lower the water surface during the winter months.

# e. Reservoir Area

The reservoir area covers approximately 1,800 acres. There are no known areas of slope instability on the reservoir banks.

# 3.2 EVALUATION

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The visual inspection revealed several deficiencies on this structure. The following specific items were noted: >

- 1. Longitudinal cracking has taken place along the center of the core wall, spillway crest, and in the abutment walls of the spillway.
- 2. Wet areas have been detected near the right abutment of the face wall section and to the right of the spillway in the core wall section,
- 3. Concrete surfaces on the spillway are deteriorated;
- 4. Rubble fill behind the face wall has been displaced;
- 5. Vertical displacement of the face wall sections has taken place,
- 6. The slopes of the embankment sections are heavily overgrown with trees and brush, proceed
- 7. Slope protection on the core wall section of the embankment has been displaced.

# SECTION 4: OPERATION AND MAINTENANCE PROCEDURES

# 4.1 PROCEDURES

This reservoir facility is used to maintain a level in Chazy Lake consistent with recreational activities in the impoundment and for water supply purposes. The facility is visited periodically by personnel from the Town of Dannemora. During the summer months, the town operates a recreational facility near the center of the dam.

# 4.2 MAINTENANCE OF THE DAM

Maintenance and operation of the dam is controlled by the Town of Dannemora. Conditions at the site indicate that maintenance activities have been minimal during recent years.

# 4.3 MAINTENANCE OF OPERATING FACILITIES

The valves controlling the impoundment drain are in operating condition and well maintained.

# 4.4 DESCRIPTION OF WARNING SYSTEM

No warning system is in effect at present.

# 4.5 EVALUATION

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The following operation and maintenance procedures should be adopted by the Owner:

- 1. A formalized inspection system should be adopted to develop data on the conditions and maintenance operations at the facility.
- 2. A flood warning and emergency evacuation plan should be implemented to alert the public should conditions occur which could result in failure of the dam.
- 3. A program for regular maintenance should be developed and implemented.

# SECTION 5: HYDROLOGIC/HYDRAULIC

# 5.1 DRAINAGE AREA CHARACTERISTICS

The Chazy Dam is located in the Town of Dannemora in the northeast corner of the State of New York. The dam has a drainage area of 22.6 square miles of which 2.85 square miles is comprised of Chazy Lake. The watershed is essentially undeveloped, except for the perimeter of Chazy Lake, and is characterized by steeply sloping hills.

# 5.2 ANALYSIS CRITERIA

The purpose of this investigation is to evaluate the dam and spillway with respect to their flood control potential and adequacy. This has been assessed through the evaluation of the Probable Maximum Flood (PMF) for the watershed and the subsequent routing of the flood through the reservoir and the dam's spillway system. The PMF event is that hypothetical flow induced by the most critical combination of precipitation, minimum infiltration loss and concentration of run-off of a specific location that is considered reasonably possible for a particular drainage area.

The hydrologic analysis was performed using the unit hydrograph method to develop the flood hydrograph. Due to the limited scope of this Phase I investigation, certain assumptions, based on experience and existing data, were used in this analysis and in the determination of the dam's spillway capacity to pass the PMF. In the event that the dam could not pass 1/2 the Probable Maximum Flood without overtopping, additional analyses are to be performed on potential dam failures if the dam is designated as a High Hazard Classification. This process was done with the concept that, if the dam was unable to satisfy this criteria, further refined hydrologic investigations would be required.

The U.S. Army Corps of Engineers' Hydrologic Engineering Center's Computer Program HEC-1 DB using the Modified Puls Method of flood routing was used to evaluate the dam, spillway capacity, and downstream hazard.

Unit hydrographs were defined by Snyder coefficients,  $C_{t}$  and  $C_{p}.$  Snyder's  $C_{t}$  was estimated to be 2.0 for the drainage area and  $C_{p}$  was estimated to be 0.625.

In this analysis, the reservoir pool was assumed to be at the spillway crest elevation at the start of the storm and outflow through the low level outlet and water transmission system was neglected.

The Probable Maximum Precipitation (PMP) was 15.1 inches according to Hydrometeorological Report (HMR #33) for a 24-hour duration storm, 200 square mile basin, while loss rates were set at 1.0 inches initial abstraction and 0.1 inch/hour continuous loss rate. The loss rate function yielded 82 percent run-off from the PMF. The peak for the PMF inflow hydrograph was 29,128 cfs and the 1/2 PMF inflow peak was 14,564 cfs. The storage capacity of the reservoir above the spillway reduced these peak flows to 15,322 cfs for the PMF and 1,076 cfs for the 1/2 PMF flow.

# 5.3 SPILLWAY CAPACITY

The spillway is a broad crested weir with a length of 30 feet and a discharge capacity at the top of dam elevation of 645 cfs.

# SPILLWAY CAPACITY

Flood	<u>Peak Discharge</u>	Capacity as % of Flood Discharge
PMF	15,322 cfs	4.2%
1/2 PMF	1,076 cfs	60%

# 5.4 RESERVOIR CAPACITY

The reservoir storage capacity was obtained from the plans included in Appendix G and USGS mapping. The resulting estimates of the reservoir storage capacity are shown below:

Top of Dam	90,000 Acre Feet
Spillway Crest	81,700 Acre Feet

# 5.5 FLOODS OF RECORD

There is no information on water levels at the dam site.

# 5.6 OVERTOPPING POTENTIAL

The HEC-1 DB analysis indicates that the dam will be overtopped as follows:

Flood	<u>Maximum Depth Over Dam</u>
PMF	1.7 Feet
1/2 PMF	0.15 Feet

A dam break analysis was performed to determine the significance of various dam failures on the downstream hazard. This analysis was performed with the 1/2 PMF assuming the spillway section of the dam to fail at the maximum elevation resulting from the 1/2 PMF. The flood elevations, due to various dam failures and the flood elevations that would exist just before the corresponding dam break induced flood wave, are shown below. These flood elevations are compared where the river crosses Plank Road, which is the area of the downstream hazard.

# Flood Elevations @ Plank Road

	Just Prior to Dam Break	Due to Dam Break
Failure Time = 0.1 hrs.	1460.9	1467.4
Failure Time = 0.3 hrs.	1460.9	1467.4
Failure Time = 0.5 hrs.	1460.9	1467.4

The above elevations were estimated from USGS quad sheats. These elevations are not exact and their significance is in the difference between the elevations for the flood levels with and without the dam failure. The worst of these three cases indicates that the flood depth would increase from about 5 feet to 11.5 feet due to a dam failure. The dam break induced flood wave will overtop Plank Road by about 1.5 feet near the river. The closest residence is about 300 feet from the river in this area and a few feet higher than the road level at the river. Therefore, it is unlikely that the downstream hazard will be significantly increased by a dam failure under 1/2 PMF conditions.

# 5.7 EVALUATION

The All Concentration of the Same

The hydrologic/hydraulic analysis establishes the spillway capacity as 4.2% of the Probable Maximum Flood (PMF). The dam will be overtopped by 1.7 feet by the PMF and 0.15 feet under the 1/2 PMF. However, the dam break analysis indicates that failure of the dam under the 1/2 PMF will not significantly increase the downstream hazard to loss of life from that which would exist just prior to the dam fature. Therefore, the spillway is assessed as inadequate according to the Corps of Engineers' screening criteria.

# SECTION 6: STRUCTURAL STABILITY

# 6.1 EVALUATION OF STRUCTURAL STABILITY

# a. Visual Observations

The dam structure establishes the northerly boundary of present day Chazy Lake and generally consists of an earthern embankment-concrete core wall section and a concrete faced (lake side) earthern dike section. The embankment core wall section forms the westerly half, approximately, of the dam's total length, and includes the location for the gatehouse and the separate spillway structure. The spillway structure is a 30-foot long buttressed concrete wall with an earthern embankment on the reservoir side. The spillway concrete wall and embankment apparently represent a continuation of the core wall and embankment from the adjacent dam sections.

The field observations indicate the dam retains structural stability. However, the various concrete sections (in the core wall, spillway structure and dike slabs) exhibit various degrees of spalling, cracking and splitting. Erosion of rubble material in the dikes, beneath and behind the concrete slab surfacing, has occurred at some locations. Much of the downstream slope of the earthen embankment portion of the dam is covered with brush and trees, in effect masking some areas, but no indication of embankment sloughing or significant erosion was noted. The upstream embankment zones, completely submerged at the time of the inspection, appear to have some of the riprap cover displaced.

Some ground surfaces adjacent to the downstream toe of the embankment section and dike section have experienced a condition of long-term saturation and presently show some shallow standing water such as the area to the east of the spillway apron and near the easterly limit of the dike section. These areas are lower than the surrounding terrain as well as being lower than the water level in the lake; it could not be ascertained if the condition is the result of surface drainage from the surrounding area or from dam seepage.

#### b. Design and Construction Data

Drawings included in Appendix G substantially conform to the existing facility. These plans indicate a total dam length of 2,586 feet, including a dike section 1,437 feet long and an earth embankment-concrete core wall section 1,069 feet long. The embankment-concrete core wall section has a maximum height of 30 feet above natural ground with the core wall penetrating 12 feet below original grade, presumably into soil. The upstream and downstream earthen embankments have a slope of approximately 2 horizontal to 1 vertical. The surface of the upstream embankment is provided with a two foot thickness of rubble and crushed stone. The present dike section, which has been increased to the present size over an older dike section by the placement of rubble material, has a maximum height of 9 feet above natural grade. The vertical concrete face slab protecting the dike's downstream surface penetrates 5 feet below the original ground. The downstream surface of the dike has a slope of 1.5 horizontal to 1 vertical. The crest of the 30 foot long buttressed spillway is 4 feet below the top of the dam. The concrete abutments/training walls for the spillway extend a slight distance downstream to establish the side limits of the spillways concrete apron.

No information regarding structural stability studies for the spillway structure or embankment and dike sections have been made available. In regard to the dam's natural ground foundation, conflicting data exists: Dam report information dated 1899 indicates clay soils, whereas information dated 1916 indicates a foundation of gravel soil beaneath the spillway.

# c. Operating Records

No operating records for the facility are available.

#### d. Post Construction Changes

There are no indications or documentation of significant post-construction changes.

# e. Seismic Stability

We known faults exist in the immediate vicinity of the dam. A probable fault trending northwest could be located along the shoreline on the western side of the lake. Such a fault, not yet substantiated, would have a strike length of at least 12 miles.

The area is located within Zone 3 of the Seismic Probability Map. Dozens of earthquakes have been recorded within a radius of 9 miles from the dam site. Many of them having an intensity of IV or more on the Modified Mercalli scale. The earthquake closest to the dam, about one mile distant, occurred in 1943 and had an intensity of IV. Earthquakes of intensity VI occurred in 1934 and 1942. Several dozen earthquakes, many with intensities of IV-V, occurred during the 1970's. The most severe earthquake on record occurred in 1877 and had an intensity of VII.

# 6.2 STRUCTURAL STABILITY ANALYSIS

Drawings available for review show the plan alignment for the dam and cross sections for the spillway, embankment and dike sections. The available material does not include data on the engineering properties of the foundation and constructed sections, nor stability analysis.

The spillway structure represents a modification to the embankment-core wall section of the dam, consisting of an upstream embankment and core wall buttressed for reinforcement but no downstream embankment zone. Structurally, the spillway is not a gravity section (dam). For this study, a stability evaluation of the spillway has been made. Actual

properties of the spillway materials and foundation were not determined as part of this study; where information on properties was necessary, but lacking, assumptions felt to be practical were made. The stability computations assumed a cross section based upon dimensions indicated by the plans included in this report. It should be considered that, in areas where deterioration or loss of section has occurred, the section dimensions would be less than indicated by the plans; such occurrences could have some adverse effect on stability. Since the spillway section is not a gravity section, stability analysis conventional to gravity structures would not apply. The procedure utilized for evaluating the stability of this project's spillway is based upon an adaptation of the method used for studying thin-section retaining walls and bulkhead structures.

The loading conditions considered in the stability evaluation include: (1) normal summer-type operation with the lake level at the spillway crest; (2) winter conditions, with the lake level drawn down below the spillway crest but with an ice loading in effect; (3) lake level at the 1/2 PMF elevation; (4) lake level at the PMF level.

The results of the analysis (tabulated below) indicate stability against overturning is retained for all conditions studied, but that marginal or inadequate stability against sliding exists for all cases studied. The condition of seismic effects, in addition to the normal summer loading, would indicate similar stabilities (adequate against overturning, inadequate against sliding). The stability computations are presented in Appendix E.

# RESULTS OF STABILITY COMPUTATIONS DAM SPILLWAY

	Loading Condition	Factor of Safety Against Overturning	Factor of Safety Against Sliding
1.	Lake level at spill- way elevation, no ice effects	4.30	1.10
2.	Lake level drawn down below spillway crest, 7.5 kips per lineal foot-acting ice load	2.66	0.90
3.	Lake level at 1/2 PMF elevation	3.95	0.90
4.	Lake level at PMF elevation	3.65	0.83

Section and the section of

The type of soil comprising the embankment and foundation zones, and the soil properties, have significant effect on the structural stability of the spillway. Available information concerning the characteristics of these soils is indefinite. Properties applicable to cohesionless soils were assumed in the analysis. If the soils possess cohesion, the spillway's ability to resist overturning and sliding could be different than indicated by the above tabulation.

The analysis indicates marginal to inadequate resistance to sliding for the normal summer operation loading condition and a winter condition which includes the effects of ice. The spillway structure presumably has been subject to these loading conditions for a number of years without complete failure; however, the spillway's concrete wall and abutment sections have experienced an unusual type of cracking/splitting (e.g., vertical cracks parallel to the longitudinal axis of the dam have developed in the spillway wall) which may be related to inadequate structural resistance and a resulting lateral movement.

In considering the effects of winter conditions on the stability of the spillway, ice forces may be less than assumed in the analysis when the reservoir level is a sufficient depth below the spillway crest so to act against the sloping embankment. It was noted that the top of the upstream embankment is below the spillway crest. Concerning the effect of ice forces, benefit could result if riprap were placed to raise the embankment to the level of the spillway crest. It has also been experienced that where a reservoir continuously flows over a spillway ice does not form against that spillway.

Further studies are recommended to more adequately evaluate the stability of the spillway structure. The additional investigation should include determination of the type and properties of the embankment and foundation soils. The condition of the concrete wall and abutment sections similarly requires investigation to evauluate the effects of the cracking discussed previously.

Various sections of the dike structure have had the riprap and rubble material which provide backing to the concrete face slab lost through erosive or other forces. It appears that there has been no significant effect on the structural stability of the dikes. However, the missing material should be replaced to prevent progressive deterioration of the dike section and to insure that structural stability is retained.

Same States

The suspected dam seepage indicated for the area near the spillway and in the vicinity of the easterly limit of the diked section does not appear to be having a structural effect on the dam. It is recommended that those areas of low elevation, where surface water and/or seepage do stagnate, be filled and graded to prevent the occurrence of standing water. These areas could then more easily be monitored for continuing signs of ground water seepage. Locations of suspected seepage should be kept under scrutiny, because seepage conditions can change (worsen) and lead to problems with stability and reservoir retention.

# SECTION 7: ASSESSMENT/REMEDIAL MEASURES

# 7.1 DAM ASSESSMENT

# a. Safety

The Phase I inspection of the Chazy Lake Dam did not indicate conditions which constitute an immediate hazard to life or property.

The hydrologic/hydraulic analysis indicates that the spillway will pass only 4.2 percent of the PMF and 60 percent of the 1/2 PMF. The dam will be overtopped by 1.7 feet and 0.15 feet during the PMF and 1/2 PMF, respectively. The depth of water at the downstream hazard will increase from 5 feet to 11.5 feet due to a failure of the spillway. The roadway at the river crossing will be topped by 1.5 feet. The nearest residence is approximately 300 feet from the bridge and a few feet higher than the road. Failure of the dam during the 1/2 PMF would not significantly increase the downstream hazard from that which would exist just prior to the failure of the dam. The spillway capacity, therefore, is assessed as inadequate.

The stability analysis indicates marginal or unsatisfactory stability for sliding under all loading conditions investigated.

The following specific safety assessments are based on the Phase I visual examination, analysis of hydrology/hydraulics and structural stability analysis:

- 1. Longitudinal cracking has taken place along the center of the core wall, spillway crest, and in the abutment walls of the spillway.
- 2. Wet areas have been detected near the right abutment of the face wall section and to the right of the spillway in the core wall section.
- 3. Concrete surfaces on the spillway are deteriorated.
- 4. Rubble fill behind the face wall has been displaced.
- 5. Vertical displacement of the face wall sections has taken place.
- 6. The slopes of the embankment sections are heavily overgrown with trees and brush.
- 7. Slope protection on the core wall section of the embankment has been displaced.
- 8. No formalized inspection system is currently in effect.
- 9. No warning system is presently in effect to alert the public should conditions occur which could result in failure of the dam.

b. Adequacy of Information

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The information available is adequate for the Phase I investigation.

# c. Urgency

The items set forth in the safety assessment should be addressed by the Owner and appropriate improvements and repairs performed within 18 months of this notification. The recommended investigations should begin within 3 months.

d. Need for Additional Investigation

Further investigations relative to the structural stability of the structure should be performed to determine the appropriate measures necessary to provide stability under all loading conditions. Investigations should also be undertaken to determine the source of the wet areas beyond the toe of the embankment near the right abutment and to the right of the spillway section. Investigations to determine the cause of longitudinal cracking through the top of the core wall, spillway crest, and in the abutment walls of the spillway should be conducted. Appropriate remedial measures should be taken depending on the results of these investigations.

# 7.2 RECOMMENDED MEASURES

The following is a list of recommended measures to be undertaken to insure safety of the facility.

- 1. Repair concrete surfaces on the spillway and repair the concrete buttress at the center of the spillway.
- 2. Replace rubble fill behind the face wall where this material has been displaced.
- 3. Re-align the face wall section where vertical displacement has taken place.
- 4. Remove trees and brush from all embankment sections.
- 5. Replace the slope protection on the upstream face of the core wall section of the embankment.
- 6. A formalized inspection system should be adopted to develop data on the conditions and maintenance operations of the facility.
- 7. A flood warning and emergency evacuation plan should be implemented to alert the public should conditions occur which could result in failure of the dam.

# APPENDIX A

# PHOTOGRAPHS

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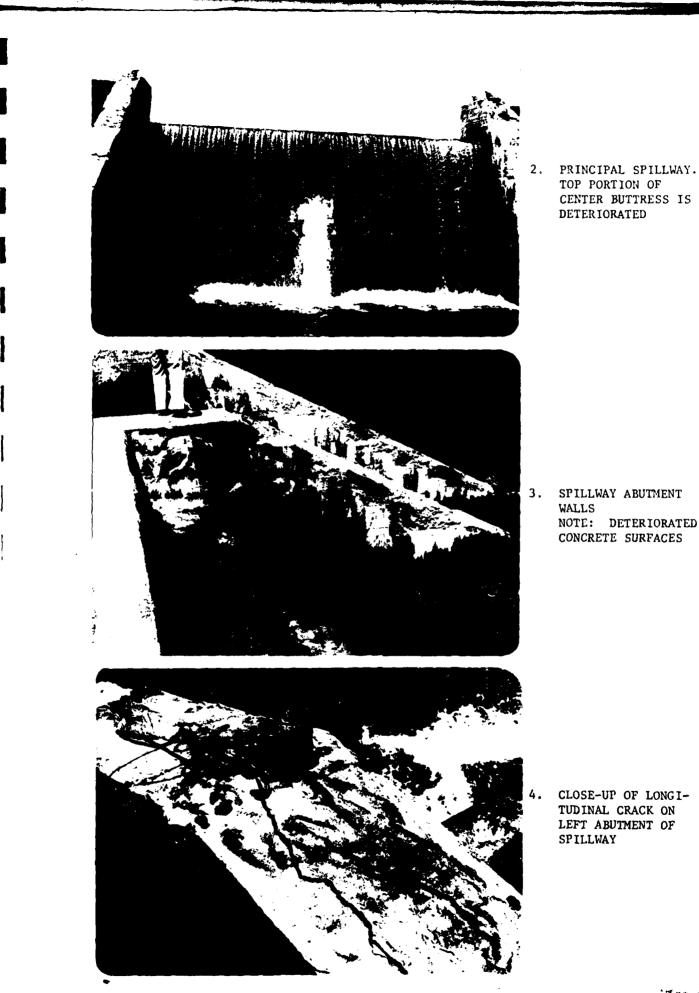
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SPILLWAY ABUTMENT NOTE: DETERIORATED

CLOSE-UP OF LONGI-TUDINAL CRACK ON LEFT ABUTMENT OF

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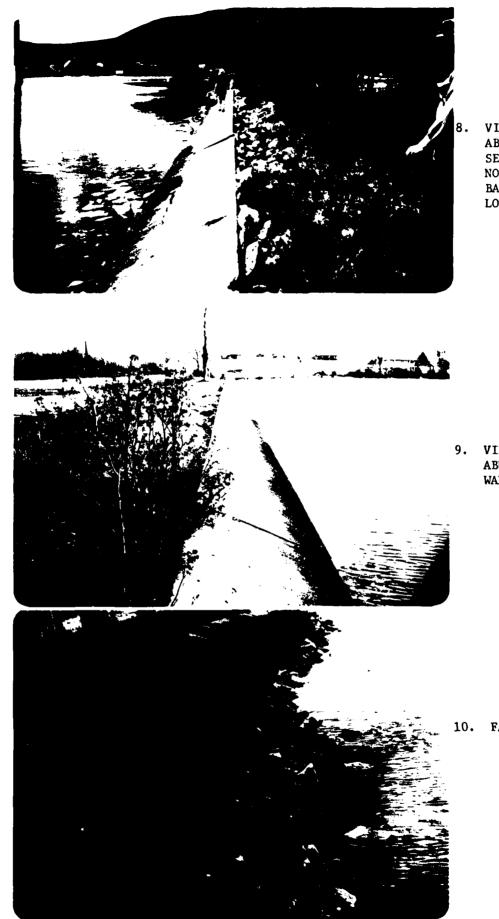


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5. VIEW TOWARDS LEFT ABUTMENT OF CORE WALL SECTION. GATEHOUSE CONTROLS RESERVOIR DRAIN.

6. CORE WALL SECTION NOTE: LONGITUDINAL CRACK ALONG CENTER OF EXPOSED CORE WALL

7. VIEW FROM RIGHT ABUTMENT OF CORE WALL SECTION. GRASSED AREA IS PART OF TOWN PARK



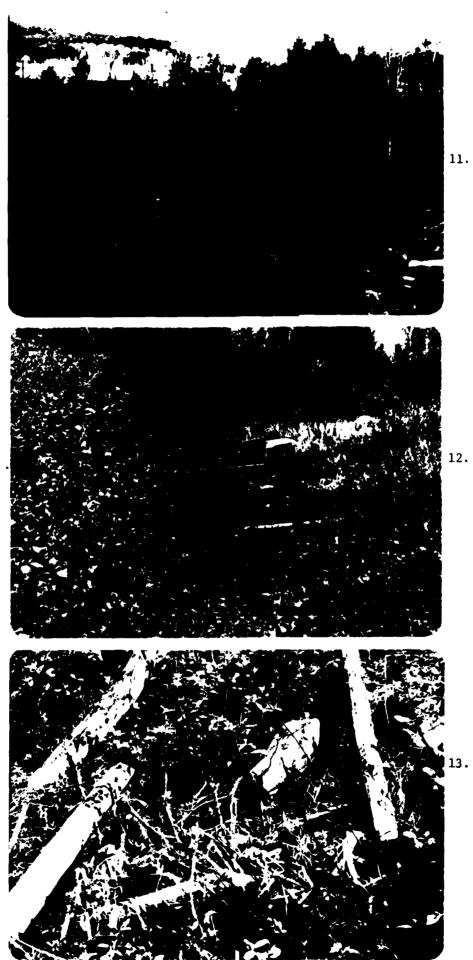
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VIEW TOWARD LEFT ABUTMENT OF FACE WALI SECTION. NOTE: BOAT DOCK IN BACKGROUND, PARKING LOT TO RIGHT

9. VIEW TOWARD RIGHT ABUTMENT OF FACE WALL SECTION

10. FACE WALL SECTION

NOTE: DISPLACEMENT OF FACE WALL SLABS AND RUBBLE BACKFILL



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12. CLOSE-UP OF 11

11. WET AREA BEYOND TOE OF SPILLWAY IN CORE WALL SECTION NOTE: DUMPED DEBRIS

> CLOSE-UP OF AREA DEPICTED IN 11 SHOWING RUST-COLORED DEPOSITS



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APPENDIX B

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# VISUAL INSPECTION CHECKLIST

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VISUAL INSPECTION CHECKLIST

# 1) Basic Data

# a. General

Na	ume of Dam	HAZY	LAKE D	AA	······				
Fe	ed. I.D. #	NY Z	36	DEC	Dam No.				
Ri	lver Basin _	LAKEC	HAMPUA	IN					
Lo	cation: Tow	m	NEMOLA	1	County _	CUMB	N		
St	tream Name	GREAT_	CHAZY	<b>BIN</b>	ER				
Tr	ributary of	LAKE	CHAMP	HIM					
La	atitude (N)	44 -	46.3		Longitud	e (W)	73 - 4	1.5	<u> </u>
Тy	/pe of Dam	EAETH	FILL						<del></del>
Ha	azard Catego	ry <u>HƘ</u>	H		<u></u>				
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a.	Char	acteristics
	(1)	Embankment Material EACTN FILL - LEFT PORTION
		PUBLE FILL - PIGHT POPTION
	(2)	Cutoff Type Concrete Cole wall
	(3)	Impervious Core Conceste Coce WAL
	(4)	Internal Drainage System
	(5)	
		<u>PIGNT SIDE OF DAM</u>
b.		
	(1)	Vertical Alignment EARTHFILL IS NOT UNIFORM
	( )	CORE WALL GOOD ALIGNMENT, ROBBLE FILL DISPLACED
	(2)	
	(2)	Some SECTIONS. OF FACE WOLL MIDALGNED VERTHALLY
	(3)	
	(4)	Miscellaneous
c.	Upst	tream Slope
	(1)	Slope (Estimate) (V:H)
	(2)	Undesirable Growth or Debris, Animal Burrows NATURE TREES
		AT TOP OF SLOPE
	(3)	Sloughing, Subsidence or Depressions DISPLACEMENT
		OF EASTH AT UPSTREAM FREE OF EMBANEMENT
		DISPLACEMENT OF RUBBLE AT UPSTREAM FACE OF

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<ul> <li>(6) External Drainage System (Ditches, Trenches; Blanket)</li></ul>	<b>93-15-3</b> (9	9/80)	
<ul> <li>d. Downstream Slope <ol> <li>Slope (Estimate - V:H) <u>1:2</u></li> <li>Undesirable Growth or Debris, Animal Burrows <u>MAIU2E</u></li> <li><u>T2BE LDOWTM</u></li> </ol> </li> <li>(3) Sloughing, Subsidence or Depressions <u>DEPRESSIOUS</u> <u>IN</u> <b>BUBCLE</b> TALL AT FACE WALL (4) Surface Cracks or Movement at Toe <u>NOME OBSERVED</u> (5) Seepage <u>POSSIGLE SERVAGE AT OL DEVOND TOE</u> <u>AT ENHT OF SPRIWAY</u> <u>MERE RIGHT ABOTM</u> (6) External Drainage System (Ditches, Trenches; Blanket) <u>NOME</u> (7) Condition Around Outlet Structure <u>CHANNEL 15 F25E</u> <u>Sonce FINDED WATED TO RIGHT OF SPRIUMY</u> (8) Seepage Beyond Toe <u>SEE (S) ABOUE</u></li></ul>		(4)	Slope Protection DISPARED (SEE 3 ABOUE)
<ul> <li>(1) Slope (Estimate - V:H)!Z</li></ul>		(5)	Surface Cracks or Movement at Toe No. 055555747004
<ul> <li>(2) Undesirable Growth or Debris, Animal Burrows <u>MATURE</u> <u>TREE (LROWTM</u></li> <li>(3) Sloughing, Subsidence or Depressions <u>DEPRESSIONS</u> <u>IN</u> <u>PUPPLE CUL AT FACEWAL</u></li> <li>(4) Surface Cracks or Movement at Toe <u>NOME OBSERUED</u></li> <li>(5) Seepage <u>POSSIGLE SEPAGE AT OR DEVOND TOE</u> <u>AT ROWT OF SPRIMAY I NERR RIGHT ABOTM</u></li> <li>(6) External Drainage System (Ditches, Trenches; Blanket) <u>NOME</u></li> <li>(7) Condition Around Outlet Structure <u>CHANNEL IS FREE</u> <u>Source BurDED WARED TO RIGHT OF SPRIMWAY</u>.</li> <li>(8) Seepage Beyond Toe <u>SEE (S) ABOR</u></li> </ul>	d.	Dowr	istream Slope
TOBE       CLEANTH         (3)       Sloughing, Subsidence or Depressions       DEPRESSIONS       1M         ELBER FUL AT FACE WALL		(1)	Slope (Estimate - V:H)Z
<ul> <li>(3) Sloughing, Subsidence or Depressions <u>DEPRESSIONS</u> IN <u>DISPLE FUL AT FACEWAC</u></li> <li>(4) Surface Cracks or Movement at Toe <u>NOME OBSERVED</u></li> <li>(5) Seepage POSSIBLE SEEPAGE AT OL DEVOND TOE AT LIGHT OF SPRILWAY &amp; MEAL RIGHT ABOTM</li> <li>(6) External Drainage System (Ditches, Trenches; Blanket) <u>NOME</u></li> <li>(7) Condition Around Outlet Structure <u>CHANNEL 15 FOSE</u> Some Fonded water to <u>Plant of Spluway</u>.</li> <li>(8) Seepage Beyond Toe <u>SEE (S) ABOUE</u></li> </ul>		(2)	Undesirable Growth or Debris, Animal Burrows MATURE
Cubble Cit, AT FACEWALL         (4)         Surface Cracks or Movement at Toe <u>NOME OBSERVED</u> (5)         Seepage Possible SESPAGE AT of DEYOND TOE         AT REAT OF SPRIMAY ! MEAR RIGHT ABOTM         (6)         External Drainage System (Ditches, Trenches; Blanket)			TREE GROWTH
<ul> <li>(4) Surface Cracks or Movement at Toe <u>NOME OBSERVED</u></li> <li>(5) Seepage <u>Possible SEPAGE AT OL DEVOND TOE</u> <u>AT RIGHT OF SPRIMAY</u> <u>NERR RIGHT ABOTM</u></li> <li>(6) External Drainage System (Ditches, Trenches; Blanket) <u>NOME</u></li> <li>(7) Condition Around Outlet Structure <u>CHANNEL 15 FREE</u> <u>Some Ponded water to right Sprindard</u>.</li> <li>(8) Seepage Beyond Toe <u>SEE (S) ABOUE</u></li> </ul>		(3)	Sloughing, Subsidence or Depressions DEPRESSIONS IN
<ul> <li>(5) Seepage Possible Stepace AT of DEvoid ToE </li> <li>AT PRHT OF SPRIWAY AREAR RIGHT ABOTM</li> <li>(6) External Drainage System (Ditches, Trenches; Blanket)</li></ul>			EUBBLE FILL AT FACE WALL
AT ENHT OF SPRIMAY       MEAR RIGHT ABOTM         (6) External Drainage System (Ditches, Trenches; Blanket)		(4)	Surface Cracks or Movement at Toe <u>Nom E OBSERVED</u>
(7) Condition Around Outlet Structure <u>CHANNEL 15 FREE</u> <u>Some PONDED WREE TO RIGHT OF SPILLUM</u> . (8) Seepage Beyond Toe <u>SEE (5) ABOUT</u>		(5)	1
(8) Seepage Beyond Toe SEE (5) ABOUL		(6)	
(8) Seepage Beyond Toe SEE (S) ABOUL		(7)	
		(8)	• -
e. Abutments - Embankment Contact <u>No SEEPAGE AT LEFT ABUTMENT POSSIBLE</u>	e.	Abut	ments - Embankment Contact No SEEPAGE AT LEFT ABOTMENT 2055 BLE
SEEPAN & AT RIGHT ABUTMENT.			SEEDAN & AT RIGHT ABUTMENT.

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	93-1	<b>5-3</b> (9	9/80)	
			(1)	Erosion at Contact None asserved.
			(2)	Seepage Along Contact SEE C.S About
	3)			System
		a.	Desc	ription of System NONE
				·
		b.	Cond	ition of System
		c.	Disc	harge from Drainage System
	4)	<u>Ins</u> Pi	ezome	ntation (Momumentation/Surveys, Observation Wells, Weirs, ters, Etc.)
			<del></del>	NONE
r.	ngr állinnað Fr	n a thairt	<b>na</b> to Nationala	

Res	servoir
a.	Slopes NO KNOWN ALEAS OF SLOPE MISTOBILAY.
Ъ.	
c.	SEDIMENTATION Unusual Conditions Which Affect Dam Noue
Are	ea Downstream of Dam
а.	Downstream Hazard (No. of Homes, Highways, etc.) 205060063 +
h	ITEAILEZ HOME APPROX 2 MILES DOWNSTRAM Seepage, Unusual Growth ZALEAS OF SEEPAGE (RODUBLE)
	1) TO ET OF SPRINGLY 2.) NEAR REABUTHERNE
c.	Evidence of Movement Beyond Toe of Dam Non R. OBJGUED
d.	Condition of Downstream Channel OPEN - HEAVY ALDER.
Spi	illway(s) (Including Discharge Conveyance Channel)
	30 ft. wide Brand Crested wife
a.	General CONCRETE SURFACES DETERIORATED.
	SOME RE-BARS EXPOSED.
٩_	Condition of Service Spillway IN OPERATING Composition
b.	SOME CONCRETE CRACKING, NO PISTLACEMENT
	OF ELEMENTS CEACKING NOTED LONGITUDINAOUS
	IN CENTER OF ELEMENTS.

	9/80)
c.	Condition of Auxiliary Spillway No Auxil Rey Sacura
d.	Condition of Discharge Conveyance Channel COPEN FREE
	FLOWING NO EUTDENCE OF DECENT EROSION
3) Re	servoir Drain/Outlet
	Type: Pipe Conduit Other
	Material: Concrete Metal Other
	Size: 3-36 PIPES Length 617 Concrete 61' Long (SEE PLANE
	Invert Elevations: Entrance A3.5 Exit 87.5 (1524.5) Exit (1527.5)
	Physical Condition (Describe): Unobservable
	Material:
	Joints: Alignment _ GooD
	Structural Integrity: No SIGNS OF STRUCTURE DA
	62 Durenes.
	Hydraulic Capability: TO BE COMPUTED
	Means of Control: Gate Valve Uncontrolled
	Operation: Operable Inoperable Other
	Present Condition (Describe): OPERATED ANNUALLY TO

<u>Str</u>	uctural
a.	Concrete Surfaces
b.	Structural Cracking LOUCITUDMAL CRACK IN CENTER OF
	ELPOSED TOP OF COLE WALL.
٩.	Movement - Horizontal & Vertical Alignment (Settlement)
	NONE OBSERVED AN CAPE WALL SOME SETTLEMENT 4-6" AT TOP OF FACE WALL
d.	Junctions with Abutments or Embankments
e.	Drains - Foundation, Joint, Face
f.	Water Passages, Conduits, Sluices
g.	Seepage or Leakage

and Kings

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	Joints - Construction, etc.
i.	Foundation
j.	Abutments
	Control Gates
1.	Approach & Outlet Channels
m.	Energy Dissipators (Plunge Pool, etc.)
n.	Intake Structures TEASH RACKS ON
	INLET OF CONTROL STRUCTURE IN GOOD CO AGUTEWED THROUGH THE WATER.
0.	Stability
p.	Miscellaneous

101	A	water and Structures (Person Venso Teck Catchenes Other)
10)		urtenant Structures (Power House, Lock, Gatehouse, Other)
	a.	Description and Condition
11)		ration Procedures (Lake Level Regulation):
11)	_4 _u	PRE LEVEL IS LOWERED BTO Ift DURNY TH DINTER TO MINIMIZE ICE DAMAGE TO BOAT
11)	_4 _u	AFE LEVEL IS LOWERED BTO Ift DUENIG TH
11)	_4 _u	PRE LEVEL IS LOWERED BTO Ift DURNY TH DINTER TO MINIMIZE ICE DAMAGE TO BOAT
11)	_4 _u	PRE LEVEL IS LOWERED BTO Ift DURNY TH DINTER TO MINIMIZE ICE DAMAGE TO BOAT
11)	_4 _u	PRE LEVEL IS LOWERED BTO Ift DURNY TH DINTER TO MINIMIZE ICE DAMAGE TO BOAT
<b>11)</b>	_4 _u	PRE LEVEL IS LOWERED BTO Ift DURNY TH DINTER TO MINIMIZE ICE DAMAGE TO BOAT
<b>11)</b>	_4 _u	PRE LEVEL IS LOWERED BTO Ift DURNY TH DINTER TO MINIMIZE ICE DAMAGE TO BOAT
<b>11)</b>	_4 _u	PRE LEVEL IS LOWERED BTO Ift DURNY TH DINTER TO MINIMIZE ICE DAMAGE TO BOAT
<b>11)</b>	_4 _u	PRE LEVEL IS LOWERED BTO Ift DURNY TH DINTER TO MINIMIZE ICE DAMAGE TO BOAT
<b>11)</b>	_4 _u	PRE LEVEL IS LOWERED BTO Ift DURNY TH DINTER TO MINIMIZE ICE DAMAGE TO BOAT
11)	_4 _u	PRE LEVEL IS LOWERED BTO Ift DURNY TH DINTER TO MINIMIZE ICE DAMAGE TO BOAT

APPENDIX C

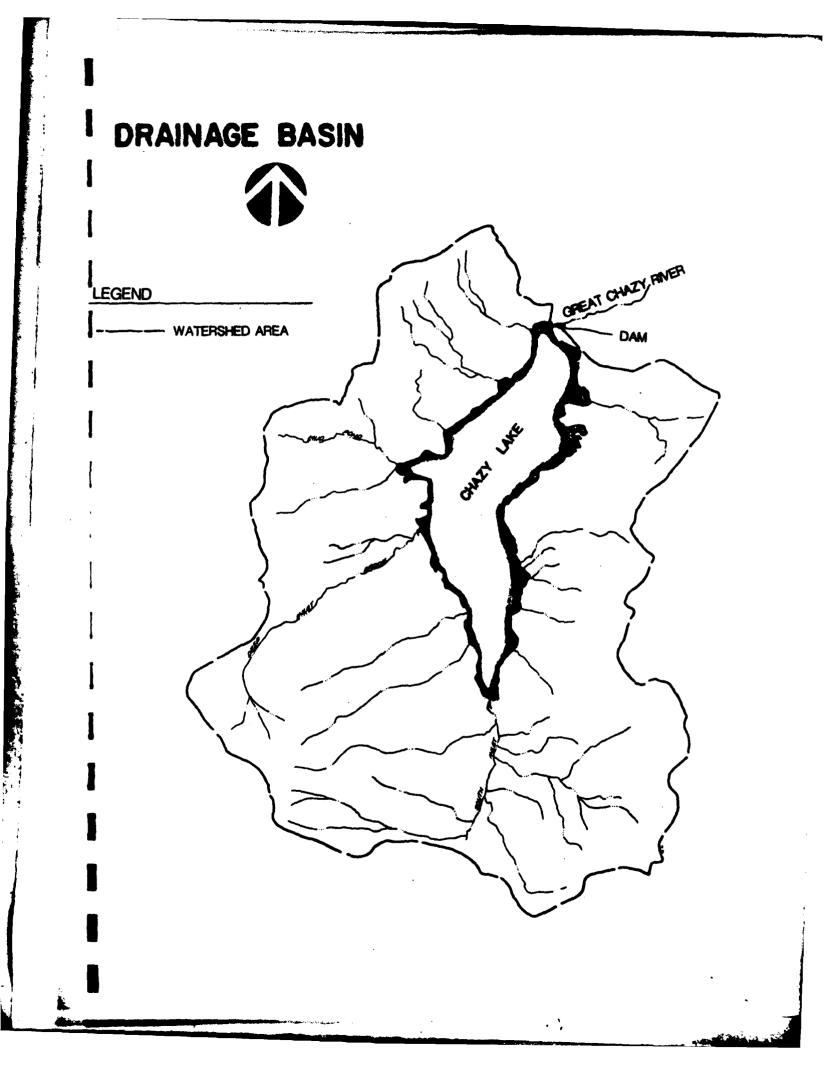
# HYDROLOGIC/HYDRAULIC, ENGINEERING DATA AND COMPUTATIONS

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NAME	Lake Dam ID # 236 MAJECT NO.	
<u> </u>	Lake Dam ID # 236 PROJECT NO Hydrologic Pacameters DRAWN BY	
Subarea	Area Ce 4 Lea t= Ce(L×Lea)	0.3 L
, 1	22.59 mit 2,0 2,4 mi 1,27 mi 2,80+ 0,17 H4	
,		σ.
•	d for travel time through reservoir	
$t = \frac{t cave}{cave}$	distance Vw = 79 Dm g= 32.2 Ft/SEC2	
	erage depth of celecuoir	
Dw= 3	FT Nor = 1323 (35) = 33.6 FT/SEC	
travel	istonce = 2),000 FT	
110.10		
	$5.6 \pm 75 = 0.17$ Hz	

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OJECT NAME -		am Inspections 1981	DATE
	•	Dam ID# 236	PROJECT NO. 254
<u> </u>	epih - Area -	Duration	- DRAWN BY FD
<u>PWb</u>	from HMR		
		14° 46' Long.~ 73° 48'	
	Index Ra Zone 1	nFall=15.1 for 200 mil, 24 HR	
	CONE T		
	Quiation	<u>70 Index</u> Depth	
	6 HPS. 12 HRS:	109 12:9 IV.	
	24 HAS	124 18.7 IN	•
	48 HRS.	133 20.1 14	. <b>.</b>
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* Adj	justed tor	site area, Orainage Area = 22.6 Mil	
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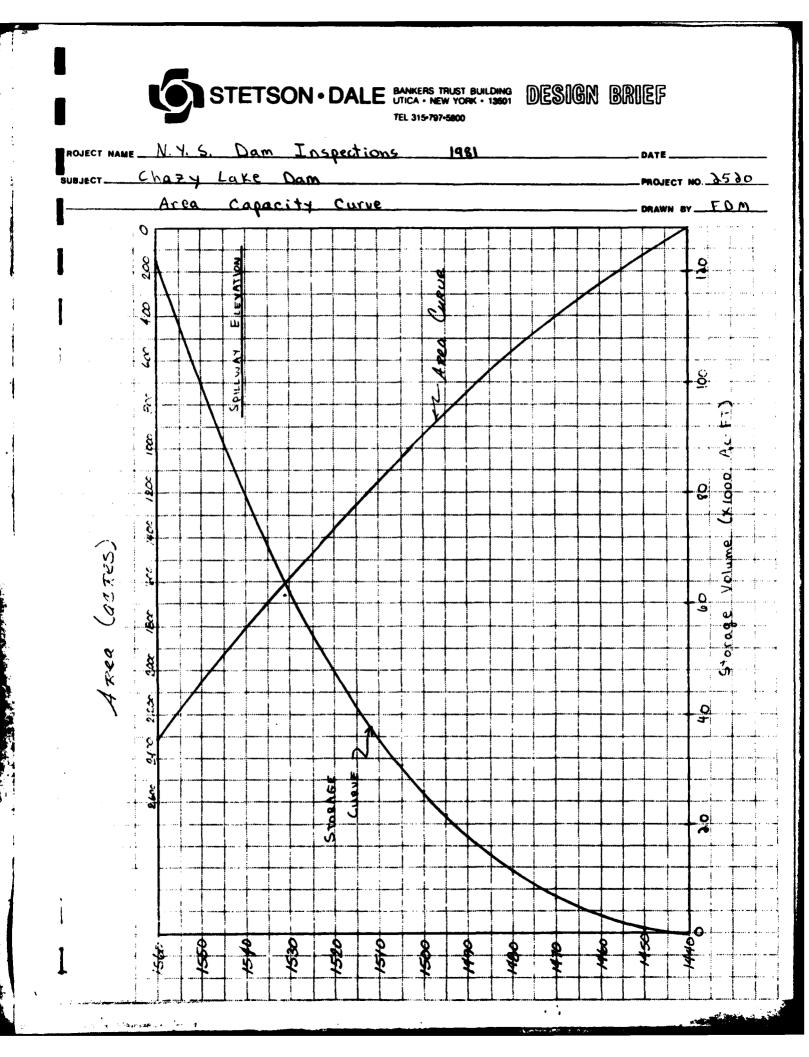
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20.130

T NAME N. Y. S	Jam Inspection	<u>2015 198</u>	1		, DATE
- Chazy Lak	e Dam			<u></u>	PROJECT NO. 39
Spillway	Rating				DRAWN BY 101
Broad Creste	d weich wid	th = 6', L	enath = 3	a'	
Q= CLH <sup>3/3</sup>	"C" from Tabl	e 5-3 - "H	tendbook	of Hydy	raulics"
'			by Ki	ng + Bra	ter
i Marija na s				· · · ·	
Elevation	<u>H (84)</u>		Q(LES)	•	
1501 0					
1541.0 1541.2	0,3	2.37	6	٤	
1541.4	0,4	2.51	19	* :	
1541.8	0,8	1 1	58		
1542.0	1.0	2.68	80		
1542.2	1.2	2.67	105		-
1542.4	, <b>\s</b> H	2.65	132	- 1 - 4 <u>1</u>	ı
1542.6	1.6	3.65	161		
1542.8	1.8	2.65	19 <b>2</b>	i i i i i i i i i i i i i i i i i i i i	
1543.0	50	a.65	792	1.1.1.1	
1543.5	ا جنوب	2.66	315		
(544,0	3.0	2.66	415		
1544.5	3.5	267	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	1 ····	
1545.0	40 + +			· · · · ·	
1546.0	4,5 + 1 - 1	2.72	436		
1546.0	5.0	2.76	1095	······································	
1547.0	60	2,94	11395	······································	
1547.5	6.5	3.08	1532		•
1548.0	7.0	3.32	- 1845		
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	ا د . الج بد ویسر می ده	······			
	۰ جه جه		) 2. <b>j</b> - 2. <b>j</b> - 2. <b>j</b> - 2. j		
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Carrow Marrie



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Provervoir Drain Discharge Reiting mann or The $\frac{1}{2}$ pipes with 3 FT diameters empty into a dix divert $\frac{1}{2}$ pipes with 3 FT diameters empty into a dix divert. Check (a.m. to see which controls. Extract: using nonnograph an $p.545$ . Design of Small Dams" Spillway elevation - $H=12.5$ Ft. $H_{D}=255$ . Design of Small Dams" Spillway elevation - $H=12.5$ Ft. $H_{D}=255$ . Ed. $D=3645$ . 36 metric Q=100 cfs Q=100 cfs Q=1000 cfs Q=100 cfs Q=1000 cfs Q=1000 cfs Q=1000	JECT NAME N.Y.S. Dam Inspections 1981	DATE
3 pipes with 3 FT diameters empty into a dixa box culvert 3 pipes with 3 FT diameters empty into a dixa box culvert. Check (and to see which controls. Entrace: using nonograph on $p.545$ "Design of Small Dans" Spillway elevation - H=125 Ft. Ho = 5 = 4167 D= 36 ft = 36 inches Q=110 cfs 10p of dam- H=16.5 FT = 10 = 5.5 ft D= 36 inches Q=100 cfs Orifice equation. Q= dat light Assume c=0.6 A = TT 4 = 7.07 FT Spillway: H=11Ft Q= 0.6(2.07) Headin = 1129 cfs top of Dam: H=15 FT = 0=0.6(2.07) Headin = 1129 cfs top of Dam: H=15 FT = 0=0.6(2.07) Headin = 1129 cfs top of Dam: H=15 FT = 0=0.6(2.07) Headin = 1129 cfs top of Dam: H=15 FT = 0=0.6(2.07) Headin = 1129 cfs top of Dam: H=15 FT = 0=0.6(2.07) Headin = 1129 cfs top of Dam: H=15 FT = 0=0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) Headin = 1129 cfs top of Dam: H=16 = 0.6(2.07) top of top o	,	
3 pipes with 3 FT diameters empty into a 4 x9 wide bax culvert 3 pipes with 3 FT diameters empty into a 4 x9 box servert. Check (a.m. to see which controls. Entrance: using nonograph an $p.565$ -"Design of Small Dans" Spillway elevation - H=12.5 ft. H = 12.5 10p of dam- H=16.5 FT H = 16.5 + 51.5 ft. D=36 inches Q=110 cfs H = 16.5 + 51.5 ft. D=36 inches Q=120 cfs Q= 130 cfs Or lice equation: Q= CATDigH Assume C=0.6 A = T = 4 = 7.07 FT Spillway: H = 11 Ft Q= 0.6(2.07) Idvalue = 1229 cfs top of Dam: H= 15 FT Q= 0.6(2.07) Idvalue = 1229 cfs Ft ction: "Design of Small Dams" p.570 H = [155 (1+ke) + 387 eff nt = 1(D) to 100 ft = 0.6 Ft Assume Ki c Spillway: H = 96 - 83.5 - 09 G=13.5 -0.9(a) = 81 Ft	Reservoir Drain Discharge Reiting	DRAWN BY D.N
<sup>3</sup> pipes with 3 FT diameters empty into a 4 4×9 wide bax culvert <sup>3</sup> pipes with 3 FT diameters empty into a 4 4×9 box servert. Check (a.m. to see which controls. Entrance: using nonograph an $p.545 = 0$ Design of Small Dans" Spillway elevation = H=12.5 ft. H = 12.5 <sup>3</sup> pillway elevation = H=12.5 ft. H = 12.5 <sup>3</sup> pillway elevation = H=12.5 ft. H = 12.5 <sup>4</sup> poi dam. H=16.5 FT = H = 12.5 ft. D= 36 inches Q=1(10 cfs. H = 12.5 ft. D= 36 inches Q=1(10 cfs. H = 12.5 ft. D= 36 inches Q=1(20 cfs. H = 12.5 ft. D= 36 inches Q=10 cfs. H = 12.5 ft. D= 36 inches Q=10 cfs. H = 10.5 ft. A = TI = 7.07 FT <sup>5</sup> pillway: H = 11 Ft. Q= 0.6(2.07) Idead(1) = 1129 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1210 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 1219 cfs. <sup>5</sup> top of Dam: H= 15 FT Q= 0.6(2.07) Idead(1) = 0.6(2.07) ft.		······································
3 pipes with 3 FT diameters empty into a 4 4×9' wide bax culvert 3 pipes with 3 FT diameters empty into a 4 4×9' box solvert. Check (auto to see which controls. Entrance: using noncograph an P.555-" Design of Small Dams" Spillway elevation - H=12.5 Ft. $H = \frac{12.5}{5} = 4.167$ $G=3rt=$ 36 inches $Q=1(10 cfs)$ $H = \frac{12.5}{5} = 4.167$ $G=3rt=$ 36 inches $Q=1(10 cfs)$ $H = \frac{12.5}{5} = 5.5 + 51$ $D=3e$ inches Q=1(10 cfs) $H = \frac{12.5}{5} = 5.5 + 51$ $D=3e$ inches Q=1(10 cfs) $Q=100 cfs$ $H = \frac{12.5}{5} = 5.5 + 51$ $D=3e$ inches Q=100 cfs $H = \frac{12.5}{5} = 5.5 + 51$ $D=3e$ inches Q=100 cfs $Q=100 cfs$ $Q$		•
3 pipes with 3 FT Jianeters empty into a GX4 box survert. Check (a.m. to see which controls. Entrance: using nonnograph an $p.565$ - Design of Small Dans" Spillway elevation - H= 12.5 Ft. $D= 3.5$ H167 $D= 364= 36$ incres Q=110 cfs Up of dam- H= 16.5 FT $D= 3.5$ Et $D= 36$ incres Q=130 cfs Or fice equation. $Q= CATJAGH$ Assume $C=D.6$ $A=TT$ $H= 7.07$ Ft Spillway: H= 11 Ft. $Q= 0.6(207)$ Thumhur = 1129 cfs top of Dam: H= 15 FT $Q= 0.6(207)$ Thumhur = 1129 cfs top of Dam: H= 15 FT $Q= 0.6(207)$ Thumhur = 1129 cfs top of Dam: H= 15 FT $Q= 0.6(207)$ Thumhur = 1129 cfs top of Dam: H= 15 FT $Q= 0.6(207)$ Thumhur = 1129 cfs top of Dam: H= 15 FT $Q= 0.6(207)$ Thumhur = 1129 cfs top of Dam: H= 15 FT $Q= 0.6(207)$ Thumhur = 120 cfs top of Dam: H= 15 FT $Q= 0.6(207)$ Thumhur = 120 cfs top of Dam: H= 15 FT $Q= 0.6(207)$ Thumhur = 120 cfs top of Dam: H= 15 FT $Q= 0.6(207)$ Thumhur = 120 cfs top of Dam: H= 15 FT $Q= 0.6(207)$ Thumhur = 120 cfs to cite condition = 0.500 c		H
(and to see which controls. Entrance: Using nonnograph on $P.565$ - Design of Small Dans" Spillway elevation - H= 12.5 Ft. H = 12.5 Q=1110 cfs top of dam- H= 16.5 FT - H = 16.5 = 5.5 Ft = D= 36 inches Q=120 cfs Orffice equation: Q= CAT 29 H = 1025 = 5.5 Ft = D= 36 inches Q= 120 cfs Orffice equation: Q= CAT 29 H = 102 Cfs Spillway: H = 11 Ft Q= 0.6 (207) Thunking = 1129 cfs top of Dam: H= 15 FT Q= 0.6 (207) Thunking = 1129 cfs top of Dam: H= 15 FT Q= 0.6 (207) Thunking = 1129 cfs top of Dam: H= 15 FT Q= 0.6 (207) Thunking = 121.5 cfs tiction: "Design of Small Dams" p.520 H= [1355 (1+4e) + 105 ft = 121.5 cfs H= 100013 Spinney: HT = 96-82.5-0.96 ft = 13.5 co.9(6) = 81 ft	El. 85 GX9 wide bax c	ulvert
(and to see which controls. Entrance: Using nonnograph on $P.565$ - Design of Small Dans" Spillway elevation - H= 12.5 ft. H = 12.5 Q=1110 cfs top of dam- H= 16.5 FT = H = 16.5 ± 5.5 FT = D= 36 inches Q=120 cfs Or fice equation: Q= CAT 26 H = 16.5 ± 5.5 FT = D= 36 inches Q= 130 cfs Or fice equation: Q= CAT 26 H = 1129 cfs top of Dam: H= 11 FT Q= 0.6 (207) Thunking = 1129 cfs top of Dam: H= 15 FT Q= 0.6 (207) Thunking = 1129 cfs top of Dam: H= 15 FT Q= 0.6 (207) Thunking = 1129 cfs top of Dam: H= 15 FT Q= 0.6 (207) Thunking = 1129 cfs top of Dam: H= 15 FT Q= 0.6 (207) Thunking = 1129 cfs top of Dam: H= 15 FT Q= 0.6 (207) Thunking = 121.5 cfs top of Dam: H= 15 FT Q= 0.6 (207) Thunking = 121.5 cfs top of Dam: H= 15 FT Q= 0.6 (207) Thunking = 121.5 cfs top of Dam: H= 16 FT Q= 0.6 (207) Thunking = 121.5 cfs top of Dam: H= 16 FT Q= 0.6 (207) Thunking = 121.5 cfs top of Dam: H= 16 FT Q= 0.6 (207) Thunking = 121.5 cfs to cools Spinney: HT = 96-82.5-096= 13.5-0.01(b)= 8.1 Ft		
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Entrance: Using nomograph on $p.565 = "Design of Small Dams" Spillwoy elevation - H= 12.5 Ft. D= 35 = 4.167 D= 3Ft= 3.6 inchesQ=1110 cfstop of dam- H= 16.5 FT D= 35 = 5.5 Ft D= 36 inchesQ= 150 cfsOr fice equation: Q= CAT 2igH Assume c=0.6 A= T = 4 = 7.07 FtSy lway: H=11Ft Q= 0.6(207) = 124.4011 = 112.9 cfstop of Dam: H=15FT Q= 0.6(207) = 124.4011 = 112.9 cfstop of Dam: H=15FT Q= 0.6(207) = 124.4011 = 112.9 cfstop of Dam: H=15FT Q= 0.6(207) = 124.4011 = 112.9 cfstop of Dam: H=15FT Q= 0.6(207) = 124.4011 = 112.9 cfsH_{T} = \begin{bmatrix} -355(1+4e) \\ -9 = 2.50 & -9 & -12 \end{bmatrix} = \begin{bmatrix} 0.525(1+4e) \\ -9 = 2.50 & -12 \end{bmatrix} = \begin{bmatrix} 0.525(1+4e) \\ -9 = \begin{bmatrix} 0.525(1+4e) \\ -9 = \begin{bmatrix} 0.525($		whet Check
Spillway elevation - H= 12.5 Ft. $H_{D} = \frac{12.5}{5} = 4.167$ D= 3Ft= 26 inches Q=110 cfs top of dam- H= 16.5 FT - $H = \frac{16.5}{5} = 5.5$ Et D= 36 inches Q= 130 cfs Or fice equation: Q= CAT JgH - Assume C=0.6 A = T = 4 = 7.07 FT Sy thway: H = 11 Ft Q= 0.6 (2.07) Te4.4(1) = 1129 cfs top of Dam: H= 15 FT Q= 0.6 (2.07) Te4.4(1) = 121.5 cfs Firstion: Design of Small Dams! P. 570 H= $\frac{11355(1+Ke)}{0!} + \frac{267.64}{0!!2} = 121.5 cfs$ Spinnay: HT = 96-825-090 = 13.5 = 0.4(6) = 81 Ft		
Spillway elevation - H= 12.5 ft. H = 12.5 = 4.167 D= 3ft= 26 inches Q=110 cfs top of dam- H= 16.5 FT - H = 16.5 = 5.5 Et D= 36 inches Q= 130 cfs Or.fice equation: Q= CAT 29H Assume C=0.6 A= T = 4 = 7.07 FT Spillway: H = 11 Ft Q= 0.6 (7.07) T64.4(1) = 1129 cfs top of Dam: H= 15 FT Q= 0.6 (7.07) T64.4(1) = 121.5 cfs Firstion: Design of Small Dams! P. 570 H = $\begin{bmatrix} 1.955 (1+k_{e}) \\ 0^{H} \end{bmatrix} + \frac{387.64}{10} = 121.5 \\ = 13.5 = 0.4(k_{e}) = 81.5 + 7.67 \end{bmatrix}$ Assume Vi C	Entrance: using nomograph on p.565 -" Design of Smal	1. Dains"
Q=110 cfs top of dam- H=16.5 FT $H = 16.5 \pm 5.5$ FT $D=36$ inches Q=130 cfs Or fice equation: Q= CAT agH Assume C=0.6 A = T $\frac{34}{4} = 7.07$ FT Sy lway: H=11Ft Q= Q.6 (207) 164.4(1) = 11319 cfs top of Dam: H=15 FT Q= Q.6 (207) 164.4(1) = 131.5 cfs Fr ction: Design of Small Dams, P. 570 H= $\begin{bmatrix} 1.555(1+Ke) \\ D^{H} \end{bmatrix} + \begin{bmatrix} 2.550(1+Ke) \\ 0^{H} \end{bmatrix} + \begin{bmatrix} 1.555(1+Ke) \\ 0^{H} \end{bmatrix} + \begin{bmatrix} 1.555(1+Ke) \\ 0^{H} \end{bmatrix} + \begin{bmatrix} 2.550(1+Ke) \\ 0^{H} \end{bmatrix} + \begin{bmatrix} 2.557(1+Ke) \\ 0^{H} \end{bmatrix} + \begin{bmatrix} 2.570(1+Ke) \\ 0^{H} \end{bmatrix} + \begin{bmatrix} 2.$		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
Or fice equation: $Q = CA = [J_{13} = A = A = I = \frac{34}{4} = 7.07 \text{ Fr}$ Sy lway: $H = 11 \text{ Fr}$ $Q = Q.6(207) = 164.4(1) = 113.9 \text{ cfs}$ top of Dam: $H = 15 \text{ Fr}$ $Q = Q.6(207) = 164.4(1) = 113.9 \text{ cfs}$ top of Dam: $H = 15 \text{ Fr}$ $Q = Q.6(207) = 164.4(1) = 113.9 \text{ cfs}$ traction: "Design of Small Dams" p. 570 $H_{+} = [\frac{1.555(14 \text{ Ke})}{0^{4}} + \frac{305.64}{10} + $	W = 110 cts $H = 165 + 55$ cts $N = 24$	
Or fice equation: $Q = CA = \sqrt{3} = 4$ Sy lway: $H = 11 + 1$ $Q = Q.6 (207) = \sqrt{64.4(1)} = 113.9 cs$ top of Dam: $H = 15 + 7 = 0.6(207) = \sqrt{64.4(157)} = 131.5 cfs$ Fiction: "Design of Small Dams" p. 570 $H_{+} = \left[\frac{1.555(1+ke)}{0!} + \frac{205.64}{0!} + \frac{12}{0!}\right] (Q)^{2}$ $H_{+} = \left[\frac{1.555(1+ke)}{0!} + \frac{205.64}{0!} + \frac{12}{0!}\right] (Q)^{2}$ Spinnay: $H_{T} = 9(e - 8).5 - 0.90 = +13.5 - 0.9((u) = 8.1 + 4$	Q= 130 cfs	
Sy. Iway: $H = 11FT$ Q= 0.6 (3.07) Te4.4(1) = 1129 cfs top of Dam: $H = 15FT$ Q= 0.6(3.07) Te4.4(15) = 131.5 cfs Firstion: "Design of Small Dams" 2.570 $H_{+} = \begin{bmatrix} 1.555 (1+Ke) \\ 0^{H} \end{bmatrix} + \frac{387.64}{10} = 12 \begin{bmatrix} 0 \\ 10 \end{bmatrix} = 0^{-6}ET$ Assume Vi C L = 53FT, include Vi C Spinney: $H_{T} = 916 - 825 - 090 = 13.5 - 0.9(6) = 8.1FT$		:
Sy. Iway: $H = 11FT$ Q= 0.6 (3.07) Te4.4(1) = 1129 cfs top of Dam: $H = 15FT$ Q= 0.6(3.07) Te4.4(15) = 131.5 cfs Firstion: "Design of Small Dams" 2.570 $H_{+} = \begin{bmatrix} 1.555 (1+Ke) \\ 0^{H} \end{bmatrix} + \frac{387.64}{10} = 12 \begin{bmatrix} 0 \\ 10 \end{bmatrix} = 0^{-6}ET$ Assume Vi C L = 53FT, include Vi C Spinney: $H_{T} = 916 - 825 - 090 = 13.5 - 0.9(6) = 8.1FT$	Orfice equation: Q= CATI 2gH Assume C=D.6 A=	TT 4 = 7.07 FT
top of Dam: H= 15 FT Q= 0.6(7.07) $\frac{1}{4444(157)} = 131.5 dfs$ Firstion: "Design of Small Dams" p. 570 H= = $\begin{bmatrix} 1.355 (1+ke) \\ 0^{4} \end{bmatrix} + \frac{367.64}{10} \frac{n^{4}L}{10} \end{bmatrix} (D)^{2} = D^{-}6FT$ Assume Vi ( L= 53 FT, in 0.013 Spinnay: HT = 96-83.5-09D=13.5-0.9(6)= 81 FT	a second a s	
Friction: "Design of Small Dams" p. 570 $H_{\tau} = \begin{bmatrix} 1.555 (1+Ve) \\ 0^{H} \end{bmatrix} + \frac{385 eq}{D^{14}2} = \end{bmatrix} \begin{pmatrix} 0 \\ 10 \end{pmatrix} = \begin{bmatrix} 0 \\ 0 \\ 10 \end{pmatrix} = \begin{bmatrix} 0 \\ 0 \\ 10 \\ 10 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 10 \\ 10 \\ 10 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 10 \\ 10 \\ 10 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 10 \\ 10 \\ 10 \\ 10 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ $		
$H_{+} = \begin{bmatrix} 1.555 & (1 + ke) \\ 0^{H} & + \end{bmatrix} + \begin{bmatrix} 387, 69 \\ 0^{H} & - \end{bmatrix} + \begin{bmatrix} 0 \\ 0^{H} & -$		ne en la companya de la companya de La companya de la comp
$H_{\tau} = \begin{bmatrix} 1.555 (1 + Ke) \\ 0^{4} \end{bmatrix} + \begin{bmatrix} 387, 69 \\ 0^{14} \end{bmatrix} + \begin{bmatrix} 0 \\ 0^{14}$		
Spinny: $H_T = 96 - 835 - 090 = 135 - 0.9(6) = 8.1 Ft$	action: Design of Small Dams, 2.520	
Spinny: $H_T = 96 - 835 - 090 = 135 - 0.9(6) = 8.1 Ft$	$H_{+-} = \begin{bmatrix} 1.355 (1 + ke) \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	Access V. A
Spi way: HT = 96-835-090= 135-109(6)= 81 Ft	L= 53 F7.	1250002 11 0
	Spi way: HT = 96-825-090= 135-0964 = 81 Ft	· · · · · · · · · · · · · · · · · · ·
1.555(1+0,7) <u>28764 (0.013) (5-3)</u> 7 / Q 2		•
	$8.1 = \begin{bmatrix} \frac{1.555(1+0.7)}{(6)^4} + \frac{287.64}{(6)^{14}} \\ \frac{1}{(6)^{14}} \end{bmatrix} \begin{bmatrix} 0.2 \\ 0 \end{bmatrix}$	
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## CHECK LIST FOR DAMS HYDROLOGIC AND HYDRAULIC ENGINEERING DATA

# AREA-CAPACITY DATA:

		Elevation (ft.)	Surface Area (acres)	Storage Capacity (acre-ft.)
1)	Top of Dam	1545	1920	90,000
2)	Design High Water (Max. Design Pool)	<u></u> N/A		
3)	Auxiliary Spillway Crest	<u>N/A</u>		
4)	Pool Level with Flashboards	<u>N/A</u>		
5)	Service Spillway Crest	1541	1830	81,700

# DISCHARGES

		Volume (cfs)
1)	Average Daily	N/A
2)	Spillway @ Maximum High Water (Top of Dam)	645
3)	Spillway @ Design High Water	N/A
4)	Spillway @ Auxiliary Spillway Crest Elevation	N/A
5)	Low Level Outlet w/ water level at top of dam	390
6)	Total (of all facilities) @ Maximum High Water	1035
7)	Maximum Known Flood	<u>Unknown</u>
8)	At Time of Inspection	

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CREST:	ELEVATION: 1545
Туре:	
Width:	Length: 3490
Spillover	
Location	
SPILLWAY:	
PRINCIPAL	EMERGENCY
N/A	Elevation [54]
	Type broad crested
	Width <u>30 FT</u>
	Type of Control
······	Uncontrolled
	Controlled:
· - · · · · · · · · · · · · · · · · · ·	Туре
	(Flashboards; gate)
	Number
······································	Size/Length Invert MaterialConcrete
	Anticipated Length
	of operating service <u>N/A</u>
······································	Chute LengthN/A
	Height Between Spillway Crest & Approach Channel Invert (Weir Flow)
	(well Flow)

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HYDROMETEROLOGICAL GAGES:	
Type : <u>None at present</u>	
Location:	• ··· _ · · · · · · · · · · · · · · · ·
Records:	
Date -	···
Max. Reading	
FLOOD WATER CONTROL SYSTEM: Warning System: None at prew	• • •
Warning System, IVONE OF PEPE	

Method of Controlled Releases (mechanisms):

Constant of party Children and Children and State

Three, 3 FT. diameter sluice-gated pipes.

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Also, through water distribution system.

INACE P	ASIN RUNOFF CHARACTERISTICS:
	_
	se - Type: <u>Undeveloped</u> , mostly forested
	n - Relief:
	e - Soil: <u>Not Known</u>
Runoff	Potential (existing or planned extensive alterations to existing (surface or subsurface conditions)
	Not Known
	·
Potent	ial Sedimentation problem areas (natural or man-made; present or
	Unknown
	ial Backwater problem areas for levels at maximum storage capacit
	ial Backwater problem areas for levels at maximum storage capacit including surcharge storage:
	ial Backwater problem areas for levels at maximum storage capacit
	ial Backwater problem areas for levels at maximum storage capacit including surcharge storage:
Dikes	ial Backwater problem areas for levels at maximum storage capacit including surcharge storage:
Dikes	ial Backwater problem areas for levels at maximum storage capacit including surcharge storage: <u>None Known</u> - Floodwalls (overflow & non-overflow ) - Low reaches along the
Dikes	ial Backwater problem areas for levels at maximum storage capacit including surcharge storage: <u>None Known</u> - Floodwalls (overflow & non-overflow ) - Low reaches along the Reservoir perimeter:
Dikes	<pre>ial Backwater problem areas for levels at maximum storage capacit including surcharge storage:</pre>
Dikes	<pre>ial Backwater problem areas for levels at maximum storage capacit including surcharge storage:</pre>

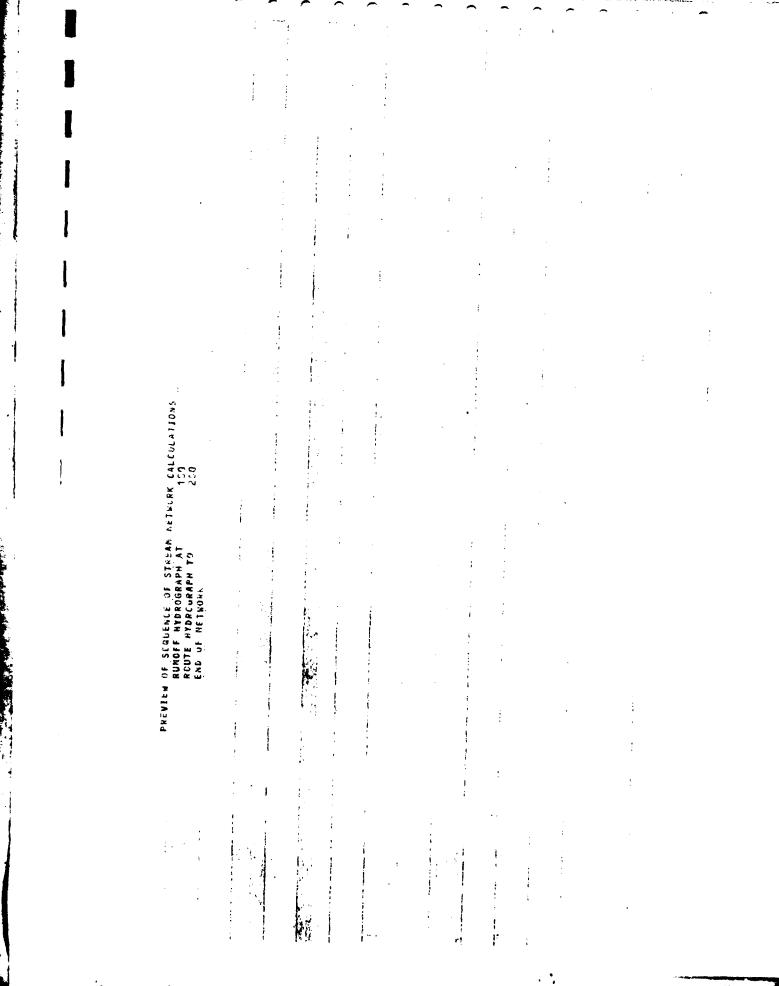
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# UNIT HYDRUGRAPH DATA

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# PEAK FLOW AND STORAGE (END OF PEKIOD) SURMARY FOR MULTIFLE PLAN-KATIJ ECONUMIC CUMPUTATIONS flows in cupic feet tek second (cupic meters per second) area in square miles (square kilometers)

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SUPMARY OF DAM SAFETY ANALYSIS

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HEC-TOB (SNYDER PARAMETERS) C.5 PMF - DAM UREAK ANALYSIS

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82559       82553       82553       82553       82553       82555         82565       82566       82566       82555       825573       825573       825575         82565       82566       825673       825673       825573       825573       825575         82587       82587       825877       82568       825573       82568       825575         82587       82588       82587       825673       82568       825675       82558         82587       82588       825693       825673       825673       825673       82558         82587       82588       82775       825893       827673       82588       825673       825673         82597       82588       82775       825893       827673       82558       8255674       825673         82597       825933       82793       827933       827933       826743       82558         82595       835959       835959       835959       835956       83704         82595       835959       835959       826567       82658       82658         82695       835959       835959       835959       82658       8265674         826944       8	5		;	82515.	82515.	62515.	82515.		82515.
82549       82551       82553       825573       82568       8255         82565       82566       82566       82568       825573       82568       825573         82587       825876       825876       825875       825876       82587         82587       82587       82587       82587       82587       82587         82587       82588       82587       82587       82587       8258         82587       82588       82587       82587       82587       8258         82588       82588       82589       825675       8258       8258         82595       825987       82588       82587       82587       82587         82595       825987       82588       83595       82587       82587         82595       825987       825987       825987       82598         825966       825766       825675       82578       82578         82597       825988       839699       826775       829675       829675         82598       839699       839699       835656       826775       87818         82598       839699       83766       85574       87985       878177       874	3. 22525. 62526.	526.		82527.	82529.	82531.	82533	u ru	82536.
825972       82570       82570       82577       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       82588       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876       825876	1	546.	•	82347	82549	-82251	82553	<b>N</b> (	82556.
82587       82587       82587       82587       82587       82587         82587       82587       82587       82587       82587       82587         82587       82588       82587       82587       82587       82587         82587       82588       82587       82587       8258       82587         82587       82588       82583       82567       8258       82587         82593       82575       82575       82567       8258       82587         82594       82593       82575       82587       8258       82585         82594       82595       82595       82567       82585       82585         825945       85969       83969       899708       899708       899704       89708         86757       82858       83555       83555       83565       83565       83595         86764       87958       83555       83565       83556       83918       89918         86709       89517       87410       15410       15410       15410       15410         87454       87454       87456       87456       87457       87454       87454         87464       1541	1. 22571 8	82502. 82579		82564. 82572	82565.	82573	82573	N D	82569. 82576
82581       82581       82581       82582       82582         82587       825875       825605       82560       8256         825644       825655       825655       82565       82565         825644       825655       825655       82565       82565         825644       825655       825655       82565       82565         825751       825655       82565       82565       82565         825955       82766       827617       82555       82565         833366       82766       82695       82555       82565         833555       829694       87477       89072       8978         84557       88756       87477       89072       8978         84557       88959       87410       87410       8745         87469       87450       87450       8978       8754         87469       87410       15410       15410       15410         87469       87450       87450       87450       87450         87469       87410       15410       15410       15410         87469       15410       15410       15410       15410         87469 <t< td=""><td></td><td>25.75</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		25.75							
82587.       82588.       82589.       82597.       82597.       82597.       82597.       82597.       82663.       82663.       82663.       82663.       82663.       82663.       82664.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       82663.       826647.       82663.       82663.       826647.       826653.       826647.       826653.       826647.       826653.       826647.       826653.       826647.       826653.       826647.       826653.       826647.       876653.       826647.       876653.       82784.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87781.       87411.0       15411.0       15411.0       15411.0	9. 82579. 6	6258 <b>0.</b>		82580.	82581.	82581.	62581.		62582.
82597       82799       82663       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       82665       83555       82665       83555       835655       835656       83766       83766       83767       837675       835656       837675       837696       837675       837675       837675       837856       837666       837675       837857       878857       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       878573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8788573       8787873       87872799       8774710 <td>13. 82564. 8</td> <td>82585.</td> <td></td> <td>82586.</td> <td>82587.</td> <td>82588.</td> <td>82589.</td> <td><b>N</b></td> <td>82591.</td>	13. 82564. 8	82585.		82586.	82587.	82588.	82589.	<b>N</b>	82591.
82644.       82653.       82655.       82653.       82655.       8285         82791.       82791.       87917.       87817.       87817.       87817.         82795.       83655.       83655.       8555.       8555       8370.         83346.       83466.       87417.       87617.       87817.       87517.         84737.       87657.       8555.       8555.       8555.       8555.         84737.       88858.       87417.       87617.       87617.       87637.         88737.       88858.       89708.       89754.       89764.       89764.         88737.       88858.       89708.       89764.       89764.       89794.         89708.       89708.       89708.       89794.       89794.       89794.         89708.       89708.       89708.       89714.       89714.       8951.         89746.       89708.       89718.       8973.       8973.       8973.         89746.       89708.       8974.0       1541.0       1541.0       1541.0         89746.       8974.0       1541.0       1541.0       1541.0       1541.0         89746.       1541.0       1541.0	2	82594	ţ	85296		66528	82602	N	82608.
62761.       82775.       82790.       82865.       83655.       85355.         84770.       84914.       85964.       87477.       87617.       87364         84770.       84914.       8747.       87617.       87365.       85355.       85355.         84770.       84914.       8747.       87617.       8787.       8787.       87972.       89784.         88769.       89604.       89658.       89769.       89754.       89784.       89784.         88769.       89604.       89658.       89765.       8767.       89784.       89784.         89604.       896050.       89786.       89784.       89784.       897854.       89785         89605.       89786.       89786.       89785.       89785.       89785.       89785         8941.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0 </td <td>7. 62622. 82629.</td> <td>629.</td> <td></td> <td><b>č2636.</b></td> <td>82644 .</td> <td>52653.</td> <td>82663.</td> <td>~</td> <td>62684 .</td>	7. 62622. 82629.	629.		<b>č2636.</b>	82644 .	52653.	82663.	~	62684 .
82928       82953       82983       83011       83055       83055       83055       83055       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       8376       83766 </td <td>i<b>8. 82720. 62734.</b></td> <td>734.</td> <td></td> <td>82747.</td> <td>62761.</td> <td>82775.</td> <td>82790.</td> <td>~</td> <td>82821.</td>	i <b>8. 82720. 62734.</b>	734.		82747.	62761.	82775.	82790.	~	82821.
85399       85399       85395       85595       85595       85595       85595       85595       85595       85595       85595       85595       85595       85595       85596       85767       85975       85975       85975       85975       85975       85975       85975       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87575       87541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541       17541 <td< td=""><td>2. 82869. 82847.</td><td>F &amp; 7.</td><td></td><td>82967.</td><td>82928</td><td>82953</td><td>82987.</td><td><b>Sn</b> 1</td><td>83047</td></td<>	2. 82869. 82847.	F & 7.		82967.	82928	82953	82987.	<b>Sn</b> 1	83047
86797       8777       87617       87617       87617         88757       88558       890726       89072       89794         887537       88558       89769       89754       89794         896504       89056       89754       89754       89794         900266       900266       900266       99794       89794         896504       896507       89754       89754       89754         896507       89781       89754       898574       898574         896507       897966       897916       894574       894574         896507       87926       8938574       898574       898574         896507       87926       893214       895734       89585         896507       87342       895734       89754       87785         89186       87342       87342       87797       8721         89186       87342       87342       8721       8721         89186       87342       87342       8721       8721         89186       87342       87342       8721       8741         89186       87342       87342       8741       8741         8941.0	15. 85187. 83246. 16. 84176. 84245	246.		84510. 84510.	85580. 84770.	85466.	85555. 85428		837 <b>65.</b> 85582
940.       89731.       88858.       89764.       89754.       89754.         940.       89731.       89754.       89754.       89754.       89754.         551.       89755.       89756.       89754.       89754.       89754.         551.       89755.       89756.       89754.       89754.       89754.         551.       89755.       89756.       89754.       89754.       89754.         551.       89755.       89756.       89754.       89754.       898573.         551.       89756.       89756.       89754.       898573.       898573.         553.       87469.       87916.       87916.       87818.       87853.         553.       87469.       87723.       87853.       87853.       87853.         553.       87469.       8741.0       1541.0       1541.0       1541.0         5741.0       1541.0       1541.0       1541.0       1541.0       1541.0         5741.0       1541.0       1541.0       1541.0       1541.0       1541.0         5741.0       1541.0       1541.0       1541.0       1541.0       1541.0         5741.0       1541.0       1541.0       154				84745 ····	- YOOY				
545.       89604.       8968.       89764.       89794.       89794.         711.       89115.       90006.       99981.       89455.       89106.       9985         851.       89455.       89375.       89375.       89375.       89455.       89455.         851.       89455.       89375.       89375.       89573.       89455.         851.       89756.       89375.       893650.       89737.       89455         851.       85757.       87956.       87921.       87921.       87853.         851.       85757.       87956.       87921.       87853.       87853.         851.       85757.       87956.       87921.       87853.       87853.         851.       8741.0       1541.0       1541.0       1541.0       1541.0         871.0       1541.0       1541.0       1541.0       1541.0       1541.0         871.0       1541.0       1541.0       1541.0       1541.0       1541.0         871.0       1541.0       1541.0       1541.0       1541.0       1541.0         871.0       1541.0       1541.0       1541.0       1541.0       1541.0         871.0       1541.0	8. 58318. 8	88468.		30.00	88737.	88858.	68969	- 0-	9167
9960.       89984.       90026.       90026.       99981.       64916.       8998         8521.       86785.       88321.       89281.       64916.       8948         8551.       86785.       88321.       8928.       898531.       8924.       8928.         8551.       86785.       88350.       8796.       87921.       8785       8948         8553.       8618.       87921.       8795.       8795.       8795.       8795.       8795.         8553.       874.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0 <td>17. 89412. 89481.</td> <td>481.</td> <td></td> <td>545</td> <td>89634.</td> <td>89658.</td> <td>89708.</td> <td>0</td> <td>2626</td>	17. 89412. 89481.	481.		545	89634.	89658.	89708.	0	2626
0111.       90112.       90046.       89921.       89921.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89954.       89554.       89954.       89554.       89954.       87956.       87956.       87951.       879571.       879571.       879571.       879571.       879571.       879571.       879571.       879571.       879571.       879571.       879571.       879571.       879571.       879571.       879571.       879541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       <	**************************************	29433.		.09965	\$9984		90026.	· • • • •	106
9921.       89455.       89321.       8924.       8993         8851.       8775.       88515.       87966.       87791.       8851         8851.       87469.       87966.       87791.       87851       8851         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0 <td>14. 90095. 5</td> <td>÷ 1135.</td> <td></td> <td>90111.</td> <td>9011č.</td> <td>9<b>6046.</b></td> <td><b>69981.</b></td> <td>9716</td> <td>985</td>	14. 90095. 5	÷ 1135.		90111.	9011č.	9 <b>6046.</b>	<b>69981.</b>	9716	985
8657       86775       86576       87986       85735       85785         8154       54110       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0 </td <td>.c. 89654. b</td> <td>b9588.</td> <td></td> <td>5</td> <td>89455.</td> <td>89386.</td> <td>9321</td> <td>9254</td> <td>918</td>	.c. 89654. b	b9588.		5	89455.	89386.	9321	9254	918
541.0       58118       28092       87940       87921       8785         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0 <td>3. 88986. 88</td> <td>5.6.2</td> <td></td> <td>10 e 10 e</td> <td></td> <td>41184</td> <td>8650</td> <td></td> <td>851</td>	3. 88986. 88	5.6.2		10 e 10 e		41184	8650		851
7533.       87409.       87405.       87342.       8729.       8721         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       1541.0       1541.0       1541.0         541.0       1541.0       1541.0       154	3. 88310. Recs	\$		5	56118.	3	1980	2	785
11 M6E       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0	16. 57661. E759	254		22	87469.	22	7342	2	721
0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0				Ě					
0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0	1.0 1541.0 15	- 1		0	-	-	541.	-	5
0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0	rt.C	<b>ć</b> 1.		1541:0	1941-0	Ī		_	5
0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0	1.0 1541.0 1541.	41. -		1541.0	1541.0	•	;;	<b>_</b> .	5
0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0       1     1541.1     1541.1     1541.2     1541.0       1     1541.1     1541.1	1.J 1541.0 1541.	÷.		1541.0	1541-0	<b>-</b>		<b>.</b> .	5
0     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.1     1541.1     1541.1     1541.2     1541.1       1     1541.1     1541.1     1541.2     1541.2     1541.2       1     1541.1     1541.1     1541.2     1541.2     1541.2       1     1541.1     1541.1     1541.2     1541.2     1541.2       1     1541.1     1541.1     1541.2     1541	154120 - 154120 - 154120 1641 A 1641 C 1441 C	÷.		1541-0	1961 -0		53	<b>.</b>	53
0     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       0     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.0     1541.0     1541.0     1541.0     1541.0       1     1541.1     1541.1     1541.1     1541.1     1541.1       1     1541.1     1541.1     1541.1     1541.2     1541.1       1     1541.1     1541.1     1541.1     1541.2     1541.2       1     1541.1     1541.1     1541.2     1541.2     1541.2       1     1541.1     1541.1     1541.2     1541.2     1541.2       1     1541.1     1541.2     1541.2     1541.2     1541.2       1     1541.1     1541.2     1541.2     1541	-14C1 0-14C1 0-14C 561-0 1561-0 1561-			1541.0				<u>.</u>	15
1541.9       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0       1541.0	541-0 1541.0 1541.	÷.		1541.0-	1.1251				5
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0       1541.0       1541.0       1541.0       1541.0       1541.0         0       1541.0       1541.0       1541.0       1541.0       1541.0         0       1541.0       1541.0       1541.0       1541.0       1541.0         0       1541.0       1541.0       1541.0       1541.0       1541.0         1       1541.0       1541.0       1541.0       1541.0       1541.0         1       1541.0       1541.0       1541.0       1541.0       1541.0         1       1541.0       1541.0       1541.0       1541.0       1541.0         1       1541.0       1541.0       1541.0       1541.0       1541.0         1       1541.1       1541.1       1541.1       1541.1       1541.1         1       1541.1       1541.1       1541.2       1541.2       1541.2         1       1541.1       1541.1       1541.2       1541.2       1541.2       1541.2         1       1541.1       1541.2       1541.2       1541.2       1541.2       1541.2         1       1541.2       1541.2       1541.2       1541.2       1541.2       1541.2	1541.0 1541.0 1541	41.		1541.0	1541.0	•		1	5
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•	51.216	0.016	1133.	1064.	49	419.	.0
	51.218	0.018	1175.	1138.	37.	456.	0.
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	51.222	0.022	1269.	1255.	5.	483.	0.
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i	51.220	0.026	1345.	1382.		431.	0.
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	51.230	6.036	1430.	1520.	-89.	281.	.0
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	51.234	0.034	1516.	1066.	-151.	11.	0.
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TWE DAM GREACH WIVROWRAFG WAS DEVELOPED USING A TIME INTERVAL OF "JOTG HOURS DURING GPEACH FURMATION" Dowstream calculations will use a time interval of "Joth Hours". The compares the hydrograph for dowstream calculations with the compares the hydrograph for dowstream calculations with the compares the hydrograph gor dowstream calculations with the compares breach mydrograph. Intermediate from end-of-feriod values.

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	TINE	BEGINNING	6REACH	UREACH	= ERRCR A	ACCUMULATED	ACCUMULATED
•		UF BREACH	H Y D ROU K A PH	HAD SUGRAPH		ERROR	" "ERRUR
	(HOURS)	(HOURS)	(CFS)	(CES)	(CES)	(CFS)	(AC-FT)
	51.260	0.000	192.	192.	6	•0	•
	51.206	0.000					
	51.212	0.012	935.	635.	100.	154.	
	51.218	3.015	1026.	. 990 .	141.	295.	0.
		- 0-024	1978.		176.	. 174.	.0.
	51.230	0.035	1149.	943.	207.	677.	0.
	51.236	0.036	1221.	987.	233.	911.	•0
•	51:242-	2413-0-1	1292:	1036.	256.	1167.	-
	51.248	345.	1304.	1988.	276.	1443.	-
	51.255	0.055	1435.	1143.	242.	1735.	-
í	51-201	0.061	1507.	1021	306.	-1402	<b>-</b>
	51.267	0.067	1576.	1261.	a 15 317.	2358.	<b>.</b>
	51.273	0.073	1653.	1324.	325.	2683.	-
÷	- 51.274	62(j * j	1721.				. ~ Z
	51.265	05	1792.	1455 .		3547 .	.2.
	51.251	191.1	1264.	1530.	334.	3682.	2.
	51.247	· 6.09/	1935.	1603.	332.	4314.	2.
	51.363	6 <b>.1</b> 03	2007.	1679.	328.	4342.	۶ <b>.</b>
	51.309	0.109	2078.	1756.	322.	4004	<b>2</b> .
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1	51-333	0.133	2364.	2069	275.	5846.	г
	51.339	3 <b>.13</b> 9	2436.	2176.	259.	6105.	~ ~
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	-51.352	0.152	5579	2357		5568.	ч.
	51.358	G.15a	2050.	2456.	205-	5765.	ч.
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	51.382	0.132	2936.	2846.	. < .	7315.	• •
:	51.388	- 1.186	3007.			7385.	4.
	51.394	0.194	3079.	3846.	33.	7413.	¢ .
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STATION 2.0. PLAN 3. RATIC 1

## END-OF-PERTOD-HYDROGKAPH-ORDINATES

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THE WAR LEACH HURHWORDEN. WAS DEVELOPED USING A TIME INTERVAL OF CLUTCH HOUPS DURING EREACH FORMATION. Dommstream Caeculations with USE of time interval of 10.200 hours. 1415 toued Compares the Hydrogram for Downstream Caeculations with the Computed Breach Hydrogramm. 1416 toued to Fluws and interpolated from End-of-veriod Values.

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	51.230	3.030	953	865.	4	200.	
	51.240	341.0	1014.			313.	
	51.250	5.0 <b>5</b> 0	1069.	- 27 Ó	\$	442.	
	51.260	0.06		.5.5		582.	
	-51.270	3.970	1180.	132.	147.	729.	
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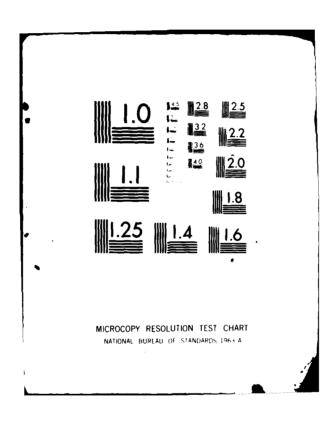
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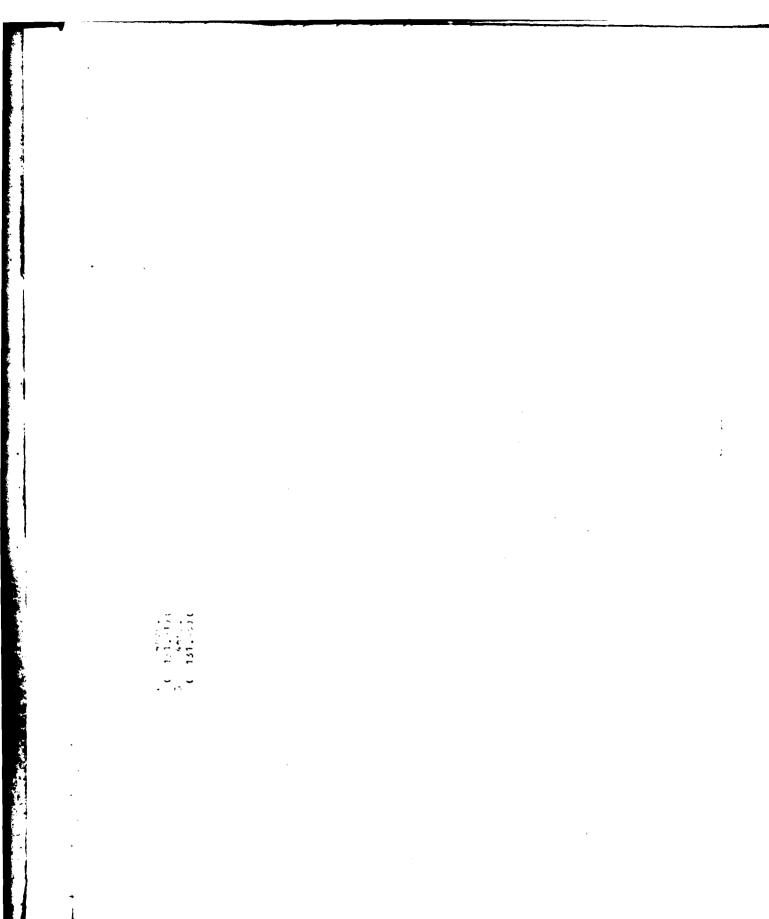
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## APPENDIX D

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## REFERENCES

#### APPENDIX D

#### REFERENCES

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APPENDIX E

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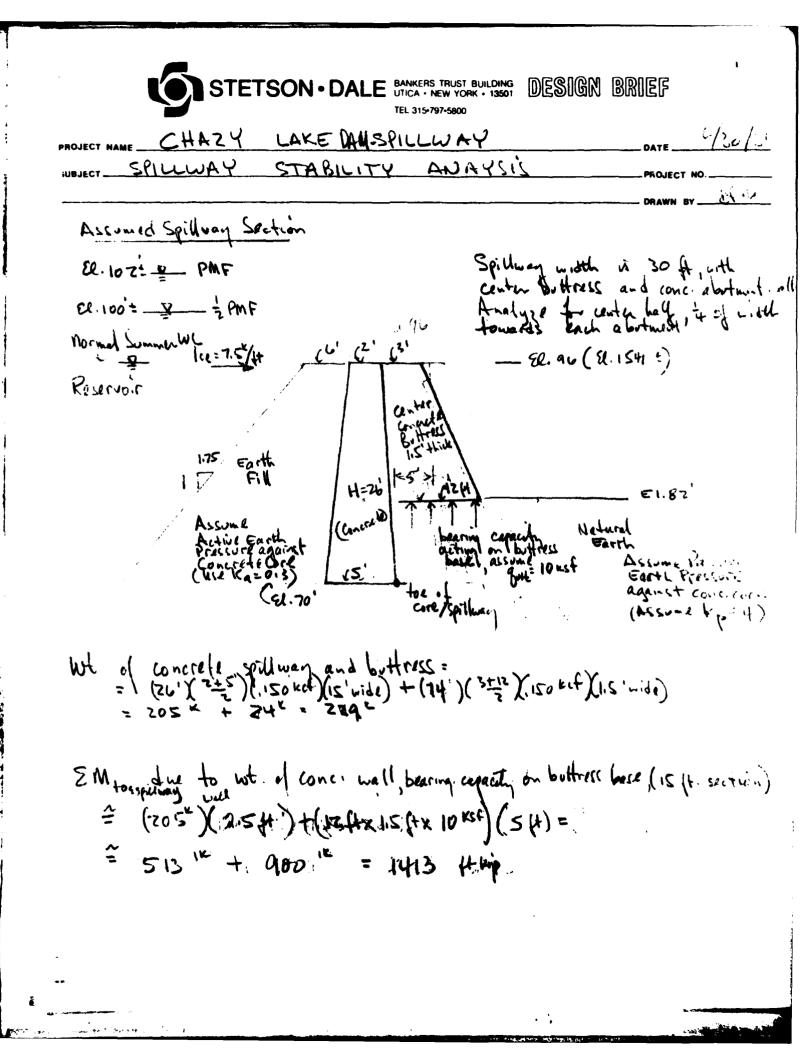
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## STABILITY ANALYSIS

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DESIGN BRIEF SON • DALE BANKERS TRUST BUILDING UTICA • NEW YORK • 13501 CHAZY PROJECT NAME Spillway Crest, plus OVERTURNING winter ice and uplift Q Ice=7.5 CEL OF E1.96 EL.82 K=0.3 H20 Passive Carth pressure Kp=4 (assumed) - Plat. e.p. (12x.060)(4) = 2.88 45f =(0.3)(25×60pcf) = 17 x.06:4 Pu= 254.561.54 = 1.56 kst 2-= 0.75 KA 5 Mtoy causing ovorturning = let. H20 press + let. soil pressure + ice + upikit  $= (1.56 \text{ wely } \frac{25'}{2} \times \frac{25'}{3}) + (0.45 \text{ wely } \frac{25'}{2} \times \frac{25'}{3}) + (7.5 \text{ v} 24') + (0.15 \times 5 \times \frac{5}{2}) + (1.50 - 0.15) \times \frac{5}{2} \times \frac{1}{2} \times \frac{5}{2} \times \frac{1}{2} \times \frac{5}{2} \times \frac{1}{2} \times \frac{5}{2} \times \frac{5$ = 162.5 + 469 + 180 + 9.4 + 6.8 = 405.6 1 fr. 1 ft. w. sth for 15 ft mide , E Mtoe = (405.6 ")(15') = 6084 " EM toe résisting overturning = whicore + bearing cap. on buttreic bese + pessive earth pressure + donnetrien in 0 IK = 1413 + 1057 + 270 = 2720 FS arguest overturning = 2770 = 0.45 (Unradiction-species

DESIGN BRIEF SON • DALE BANKI CHAZY Alternete possibility for stability - mode of failure (upper security we Ka=0.3 Kp= 4.0 8 = .06 Kef active soil Att. 0 H20 uplif o Trees/Prosures acting on structure for above mode of failure 1ce=7.5 - EI. 96' Soil Contraction tor to - 4.70 Uplift Pu= 1.62 bit Pressure pressure Lot. South Pressure 4. 1: Mutre causing overturning due to moment of pressure diagrams @+(D+()+()+(?)+(?) = (=×14×0.336 451 × 14) + (=×12×0.22 + (=×12) + (=×12×0.75 + (=×12) + + (s'x 1.62 " (2) + (2×14'x, 874 4cf) + )= 11+10.6+36+64.8 - 386-15 Zillize causing out due to ice loading = 7.5" x 12' = 97.5" Total Sellipse causing out = 151" + 975" = 249" +

DESIGN BRIEF SON • DALE BANKERS TRUST BUILDING UTICA • NEW YORK • 13501 TEL 315-797-580 CHAZY PROJECT NAME \_\_\_\_ Ellips resisting overfurning due to passive soil pressure and the principle against upstream lower section + weight dam (neglect which built versions will be upstream lower section + weight dam (neglect which built versions will be upstream lower section + weight dam (neglect which built versions will be upstream lower section + weight dam (neglect which built versions will be upstream lower section + weight dam (neglect which built versions will be upstream lower section + weight dam (neglect which built versions we are only). = (3.36 kst x12'x 12') + (6.24-3.36"+ (3.36"+ (3.34kst x12x 12) + (.54kst x12x 12) + + (1.62 - 1874 11 + (2 + 2) + (2 + 2') 20 X. 10 w() (13.5') = 242+138+63+ 63+ 63+ 63+ = 663 " FS against overturning about toe of buttress = 249 " = 2.60 SLIDIN G 1-2-76 --D 8 AL H20 Pu= 12Ku = 0.75 451 - J= 0.3 (26x.06) h= 0.47 ksf Forces causing sliding = adim carth press + 120 press + ich = (0.47 tistx = ) + (1.62x=26) + 7.5 = 6.1 + 21 + 7.5 = 3.401 or cer Multipling = liding = parrive parth press + H20 + friction at base = (1,60 hsf x  $\frac{1}{2}$ ) + (0.75 hsf x  $\frac{12}{2}$ ) + ((2.5) (15)- up (11)(17)) = 21.10 + 4.5 + (13.65 = 8.1)(17) = 30.14 IFS against sliding, no ice effects = 30.1 = 1.11 FS against sliding, with ice effects = 347 = 0.9

5 • DALE BANKERS TRUST BUILDING DESIGN BRIEF TEL 315-797-5800 PROJECT NAME \_\_\_\_\_ CHAZY Elevation - assume lateral earthy pressure and new tehn TE, WL @ - PMF water pressures in for normal opira-ioni; upstream we and pressure changes, assume EI. 100.2 ¥ EI. 96' uplift as for normal operations HO Prasure 4- = 0.31 E1.82 E1.70 Pw=30.280 SLIDING causing silding = active sarth press + H20 pressure = (6.1 +) + (24+1188)(26) = 6.1 + 27.8 = 33.5 turces. Forces resisting sliding = pessive earth pressure + ds H20 + friction = 30.1 × friction on apron + restraint provided by effect of butters and abutmunits FS against sliding estimated as close to unity numerically, for one foot length, FS= 0.91 OVERTURNING E My rosisting overturning as for normal operations case = 662.  $\frac{1}{2} = \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}$ (2) stange is site. upst and list H2O 11+10.6+36+64.8+25.5+19.9= 168 FS against out = 663 = 395

ETSON • DALE BANKERS TRUST BUILDING DESIGN BRIEF PROJECT NAME CHAZY TIL. WL @ PMF Elovation - assume lateral parth pressure. -assume lateral earth pressures and downstream mater pressures as for normal operations, assumed uplift as ter normal operations E[. 101.7 8 4 Q: S.18: 0.36 E1.96 R .: 17.78 .: 11. 4.4 LUL EI. BZ E1. 70' P. = 31.7 x = 1.90 ml SUDING ibress causing sliding = upstream sol and mater pressures  $= 6.1^{k} + \left(\frac{0.36+193}{2}\right)(26) = 6.1+30.4 = 36.5^{k}$ Forces resisting cliding as for previous cases = 30,1k + 2/k 10 buttering FS against sliding = 30.1 × = 0.83 Sulter resisting overturning taken as for normal operations case = 663  $\Xi M_{tor} \quad (* using overturning = [11 + 10.6 + 36 + 64.8] + (0.36x14x + 1) + (1.1 - 0.36) + 14 + 10.6 + 36 + 64.8] + 35.3 + 24.2 = 12.7 + 10.6 + 36 + 64.8]$ FS against out = 182 = 3.64

APPENDIX F

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#### PREVIOUS INSPECTION REPORTS/AVAILABLE DOCUMENTS

#### COPY FOR CHAZY OFFICE

Hr. C. E. Hamilton, Manager,

Heart's Delight Fara,

Chary, Clinton County, New York.

Chicago, January 6, 1926.

12.

Dear Mr. Hamilton:-

We are ready to send to the New York State Engineer the data for the Chazy Lake Dam as soon as we receive information from you on the following subjects:

The 60" discharge pipe mentioned in the blank form as filled out by you: What is its location, length, concrete enclosure, sto.? A sketch would be helpful.

What is the width of the 12-foot trash racky

What is the elevation of spillway apron?

Is the reenforcing all of 3/4" rods, 2 feet center each way, as noted on Bundy drawings, or is it different in aprons, waste chamber, and gate-house construction and in concrete facing of old dyke?

For your information we enclose a print from our drawing as of January 4th; also Mr. Bundy's drawings and our yellow memorandums indicating the points on which information was required in order to make up the drawings.

#### Sincerely yours,

PET-NV DRAWING NO. CZ - 960 Jan 4, 1926 Drawing by. Fridrick B. Hownsend 192, Chazy Lake Dam June 8,192



Chazy Lake Dam. The pictu destroyed by decay and ice This lake is the soutce of The Big Chazy River. May 1922



McGregory sawmill beetween the 1st. and loth. of June



	04 10 25	DAM XO. INS. DAT	V DER VYPE						
	RD CIY NEAP	Elevatio							
	Location of Sp'way and cutlet								
	And Outlet Kon-overflow section								
	GUUDRAL CONDITION OF NON         Settlement         Joints	Cracks Cracks Surface of Concrete	Deflections Leakage						
	Undermining	Settlement of Embankment	Crest of Dam						
	Downstream Slope	Upstream Slope	Toe of Slope						
•	CENERAL COND. OF SP'WAY Auxiliary Spillway	AND OUTLET WORKS Service or Concrete Sp'way	Stilling Basin						
	Joints	Surface of Concrete	Spillway Toe						
2	Rechanical Equipment	Plunge Pool	Drain Drain						
	Maintenance 3 Evaluation	B Haza 34 Ins:	ard Class Dector						
	COMMENTS: EVIOANCE O CONG-RETAI	F WAVE ACTION	N- OVER FLOW.						
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9-23-24-8000 (8-1206)

Chazy Lake Dain

28210

#### STATE OF NEW YORK

DEPARTMENT OF

State Engineer and Surveyor

ALBANY

### Report of a Structure Impounding Water

To assist in carrying out the provisions of Section 22 of the Conservation Law, being Chapter LXV of the Consolidated Laws of New York State, relating to safeguarding life and property and the erection, reconstruction, or maintenance of structures for impounding water, owners of such structures are requested to fill out as completely as possible this report form for each such dam or reservoir owned within the State of New York for which no plans or reports relative thereto are on file in this Department, and to return this report form, together with prints or photographs explanatory thereof to this department.

1. The structure is on the Big Charge River flowing into dake Champlein in the ma County of Clinton and Town of Danes m bridge, dam, village main cross-roads or mouth of a 6 miles West anen 2. Is any part of the structure built upon or does its pond flood any State lands? Rulet on land op W.H. M 3. The name and address of the owner is N. H. Miner, Chapy N.Y. 4. The structure is used for a Reserving for Hydro-Electric Power Plants 5. The material of the right bank, in the direction with the current, is last h with Contrate. Corre.; at the for a vertical height of \_\_\_\_\_\_\_feet above the spillway crest. to a foot horizontal, thickness of \_\_\_\_\_\_ lest and height \_\_\_\_\_\_ 7. The natural material of the bed on which the structure rests is (clay, sand, gravel, boulders, granite, shale, ..... 8. State the character of the bed and the banks in respect to the hardness, perviousness, water bearing, effect of exposure to air and to water, uniformity, etc. The bed & banks are Clay and imperious to water\_ 

inclined what is the and the inclination and direction the main struct perpendicular to the porizontal sutcropping? What is the hickness of the lavers 11. Are there any porous seams or fissures? 12. The watershed at the above structure and draining into the pond formed thereby is \_ RI ... square miles. 13. The pond area at the spillway crest elevation is Rover acres and the pond impounds M. E. C. of jun. cubic feet of water. 14. The maximum known flow of the stream at the structure was 10.3.8 ..... cubic feet per second on fril 25 1899 15. Has the spillway capacity ever been exceeded by a high flow?..... Can any possible flood flow from the pond otherwise than through the wastes noted under 17 and 18 of this character and slopes of the ground of such possible wastes..... 16. State if any damage to life or to any buildings, roads or other property could be caused by any possible failure of the above structure. Describe the location, the character and the use of buildings below the structure which might be damaged by any failure of the structure; of roads adjacent to or crossing the stream below the structure, giving the lowest elevation of the roadway above the stream bed and giving the shape, the height and the width of stream openings; and of any embankments or steep slopes that any flood could pass over. Also indicate the character and use made of the ground below the structure. held at the right end by a Concercte Wall the top of which is feet above the spillway crest, and has a top width of \_\_\_\_\_\_ feet; and at the left end by a \_\_\_\_\_ Concerta Wall the Sell Street

	19.	Apron.	Below	the spillway	there is an	apron l	built	d	nete	30	) 
fæt	wide	and	1	feet thick	. The dow	nstream	ı side	of the apron has a	thickness of		. feet
for	a wid	th of	2	fcet.							

21. SKETCHES. On the back of this report make a sketch to scale for each different cross-section of the above structure at the greatest depth; giving the height and the depth from the surface of the foundation, the bottom width, the top width (for a concrete or masonry spillway at two feet below the crest), the elevation of the top in reference to the spillway crest, the length of the section, and the material of which the section is constructed; on the spillway section show a cross section of the apron, giving its width, thickness and material, and show the abutment or wash wall at the end of the spillway, giving its heights and thickness. Mark each section with a capital letter. Also sketch a plan; show the above sections by their top lines, giving the mark and the length of each; the openings by their horizontal dimensions; the abutments by their top width and top lengths from the upstream face of the spillway section; and outline the apron. Also sketch an elevation of each end of the structure with a cross section of the banks, giving the depth and width excavated into the banks.

22. WATER SUPPLY.	The waters impounded by	the above structure have (not	) been used for a public water
supply since	by Kever	used tor a	been used for a public water
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The above information is correct to the be	st of my knowledge and belief.
(Address of signer)	. (Signature)

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dicate his title or authority)

Funn IW81. 11-6-14-1000 (16-1088)

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(NOTICE: After filing out one of these forms as completely as possible for each dam in your district, return it at once to the Conservation Commission, Albany.)

#### STATE OF NEW YORK

#### CONSERVATION COMMISSION

ALBANY

DAM REPORT

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5 hert 199 282 Cham

CONSERVATION COMMISSION,

#### DIVISION OF INLAND WATERS.

GENTLEMEN:

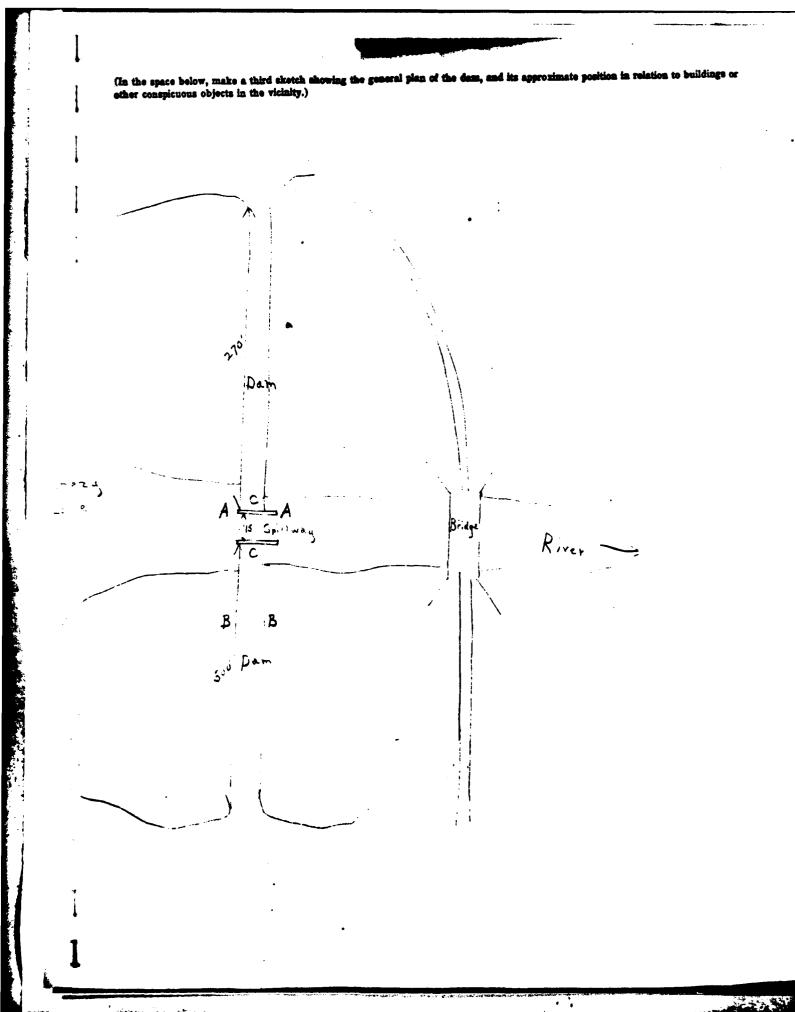
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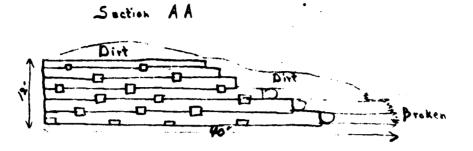
and ever when

I have the honor to make the following report in relation to the structure known as
the Chair Jake Dam.
This dam is situated upon the <b>Great</b> Crasy diver
in the Town of Drinemona, Clinton County,
about 10 miles from the Village or City of Ellenburg Deput
(State distance) The distance down stream from the dam, to the fun Mt - El Ciniburg road bridge (Up or down)
is about $2-00^{\circ}$
(State distance) Whiteside, Champlain, N.Y., leased to F. Fourniei, The dam is now owned by (Give name and address in full)
and was built in or about the year, and was extensively repaired or reconstructed
during the year and was used to hold back Chazy Lake
As it now stands, the spillway portion of this dam is built of Limber
and the other portions are built of listh bank stoney Timber sind
As nearly as I can learn, the character of the foundation bed under the spillway portion
of the dam is and under the remaining portions such
foundation bed is
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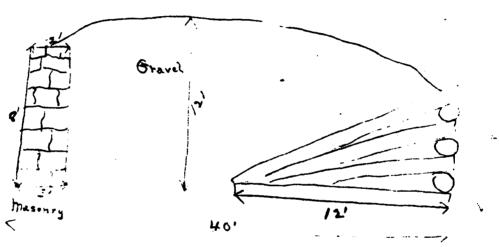
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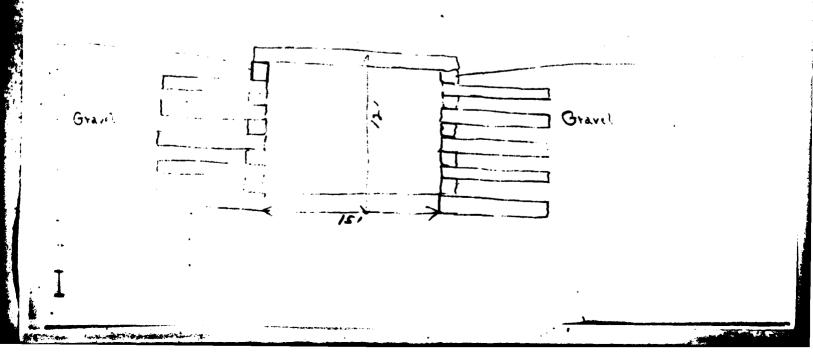
(In the space below, make one sketch showing the form and dimensions of a cross section through the spliway or waste-weir of this dam, and a second aketch showing the same information for a cross section through the other pertion of the dam. Show particularly the greatest height of the dam above the stream bed, its thickness at the top, and thickness at the bottom, as nearly as you can learn.)







Section cc



The total length of this dam is \_\_\_\_\_\_\_\_. feet. The spillway or wasteweir portion, is about \_\_\_\_\_\_\_\_\_. feet long, and the crest of the spillway is about \_\_\_\_\_\_\_\_\_. feet below the top of the dam.

The number, size and location of discharge pipes, waste pipes or gates which may be used for drawing off the water from behind the dam, are as follows: <u>sector</u> spilling sectors behind the dam, are as follows:

At the time of this inspection the water level above the dam was \_\_\_\_\_\_ft.\_\_\_\_in. below the crest of the spillway.

(State briefly, in the space below, whether, in your judgment, this dam is in good condition, or bad condition, describing particularly any leaks or cracks which you may have observed.)

Earth bank gyrarrently solid Maron, and Timber bulkheads broken down in priaces. Spillway and quit broken and fallen in. Water from the gening manimpeded.

July 15,1920,

Report same as given above. Earth ends. Virchmond & Meyer, Ingedo, M. G

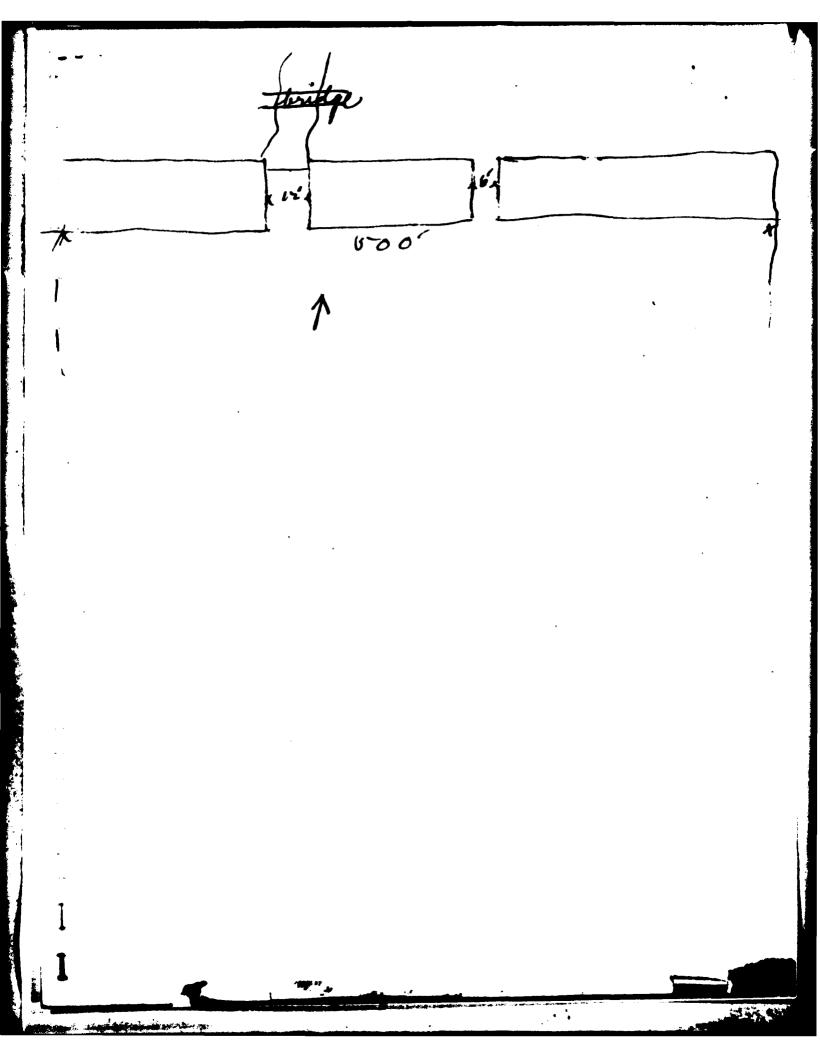
Reported by Charles (2. Conchron (Signature)

" Stadium G.S. Sy value M. 7.

16-16-161 (16-16462) L Z O O	Champlan 382
Conservation Commission, Albany, N. Y	
1. Name and address of owners.	hed new york.
2. Date of construction 1860	)
3. Uses of impounded water	
4. Character of foundation bed has	Lapan
5. Material of waste spill	
6. Length of waste and depth below dam	12' 4' below dan
7. Total length of dam including waste.	500'
8. Material of dam logart sife	rap
9. Discharges, size and location	<i>V</i>
Below sketch section of waste and s	ection of dam, with greatest heights and top thickness

Below sketch section of waste and section of dam, with greatest heights and top thickness and bottom thickness. On opposite side sketch general plan of dam and give distance from a bridge or from a tributary stream.

Nearest town Charge Land 3 spin 0# spillall washed out. new dans meded august f 1912 (Signature. address and date.) ٠, 14.7 A State State State State State



## APPENDIX G DRAWINGS

March Bar Kalon

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