



WATER-RIGHT DOCKET

Grand Canyon National Park

Docket No: 5

BRIGHT ANGEL CREEK

Preliminary Docket Information

12-02-1938: application no. a-1878 covering appropriation of water from bright angel creek

Grand Canyon, Arizona,
December 2, 1938.

APPLICATION NO.: A-1878

COVERING APPROPRIATION OF WATER FROM: Bright Angel Creek.

AMOUNT: 1,000 gals. per day for domestic use; 5 acre feet per annum
for irrigation; 100,000 gals. per annum for stockwatering.

FOR USE AT: Cottonwood Camp.

DATE OF FILING: April 14, 1938, at 11:00 A. M.

FILING FEE: \$3.00, Receipt No. 228, dated April 14, 1938.

RECORDING FEE: \$10.60, Receipt No. 348, dated August 8, 1938.

PERMIT NO.: A-1192.

PERMIT DATED: November 28, 1938.

DATE OF PRIORITY: April 14, 1938.

DATE BY WHICH CONSTRUCTION SHALL BEGIN: Completed.

DATE BY WHICH CONSTRUCTION SHALL BE COMPLETED: Completed.

DATE BY WHICH COMPLETE USE OF WATER SHALL BE MADE: November 27, 1942.

FURTHER ACTION REQUIRED: Although construction work is given as completed, we have until November 27, 1942, to make complete application of the water to the proposed use. This will give time in which to make any changes that may be desirable in the existing system. However, if and when any additional construction work is started there must be filed with the State Water Commission a formal "Notice of Beginning of Additional Construction". In any event, on or before November 27, 1942, there must be filed with the State Water Commission "Notice of Complete Application of Water to a Beneficial Use" and also formal "Proof of Appropriation of Water." Upon filing of such forms and payment of the required fee (\$3.50 at present) a Certificate of Water Right will be issued by the State Water Commission.

REMARKS: A copy of Application No. A-1878 (Permit No. A-1192) and a copy of this summary is being sent to the Director and also to Mr. Joseph E. Taylor. The latter should substitute the attached copy for the one now in his files. The original of all papers, receipts and documents in connection with this case is on file in my office.

M. R. TILLOTSON,
Superintendent.

WATER RESOURCES/WATER RIGHTS

DATE: August 8, 1973WATER RIGHT/SOURCE DOCKET INFORMATION

REGION Western Region AREA Grand Canyon
 SITE Bright Angel Creek
 STATE Arizona COUNTY Coconino DOCKET NO. WR #5
 LOCATION SW 1/4, SE 1/4, Sec. 11, T32N, R3E,
 REGIONAL BASIN _____ LOCAL BASIN _____
 ACQUIRED BY Appropriation
 APPLICATION A-1878 PERMIT A-1192 (cancelled) CERTIFICATE _____
 ACTION DUE _____ PRIORITY April 14, 1938 RESERVATION Jan. 11, 1908
 QUANTITY -0- USE None
 STATUS Inactive SOURCE Spring
 REMARKS Hydrologic Unit #15010001

NARRATIVE: The National Park Service filed application A-1878 with the state of Arizona on April 14, 1938. This application requested permission to appropriate the following amounts of water from Bright Angel Creek: 1000 gpd for domestic use; 100,000 gallons/annum for stock watering; and 5 acre-feet/annum for irrigation at Cottonwood Camp. Permit A-1192 was granted on November 28, 1938, granting the amount of water requested in the application, except limiting the water to be used for irrigation to 3 3/4 acre-feet/annum.

Successive extensions of time to make full beneficial application of the water were granted by the State; the NPS attributed their failure to make full use of the water to a dramatic increase in the use of the Park, and a corresponding need to expand and improve facilities. The final extension of time gave the Park until November 27, 1961 to make full use of the water. The docket does not indicate whether this date was met.

On August 17, 1973, William Matteson, Grand Canyon Park Engineer, reported that this application has been used (at least in part) in the past. In the 1960's undetermined amounts of water were diverted for the Ranger Station at Cottonwood Camp and some other uses. This diversionary structure washed out during the huge flood of December 5-6, 1966. The work was rebuilt with a 2" pipe and used until July 1970 at which time the trans-canyon pipeline was tapped to supply this area's needs.

The State Land Department sent to the Park an order to show cause why application A-1878 should not be cancelled. This matter was referred to this office on August 22, 1973, and on September 14 we made application for an extension of time to complete construction and make proof of appropriation.

On Oct. 28, 1974, the Arizona State Land Department cancelled Application No. A-1878 due to NPS lack of diligence in perfecting its water right. In a memo dated Nov. 14, 1974, the Service position was stated as follows: that any future water use in Grand Canyon National Park would fall under the Reservation Doctrine, making the loss of the State water right irrelevant.

Kevin Kidder
June 30, 1976

Compiled by Wm. N. MurrayApproved by W. WerrellPage 1 of 1

C E R T I F I C A T E

Pursuant to the provisions of the act of August 24, 1912, as amended (5 U. S. C., Sec. 488), I HEREBY CERTIFY that the annexed copy of order of September 12, 1956, granting extension of time in which to complete beneficial use of water under Application A-1878 constitutes a full, true and literal exemplification of revised status of water rights under said Application A-1878 for Grand Canyon National Park, contained in the official records of the National Park Service.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of the National Park Service to be affixed, this 8 day of *October*, A. D. 1956.


Assistant Director
National Park Service

Copy to: G and Canyon National Park

Regional Director, Region Three

Western Office of Design and Construction

STATE LAND DEPARTMENT OF THE STATE OF ARIZONA
BEFORE THE STATE LAND COMMISSIONER

IN THE MATTER OF APPLICATION)
TO APPROPRIATE WATER NO. **A-1878**)
PERMIT NO. A-1192)
)
)
Bright Angel Creek/Colorado River) ORDER OF CANCELLATION
)
)
Applicant, Grand Canyon National)
Park)
)

Upon the files and records of the Arizona State Land Department, the
State Land Commissioner, being fully advised in the premises, hereby makes
the following findings of fact:

1. That Application to Appropriate Water No. **A-1878** was filed with
the Arizona State Land Department on **April 14, 1938** . That the said
Applicant has not proceeded with due diligence to perfect said Application to
Appropriate Water and was Ordered to Show Cause, if any there be, on or be-
fore **September 17, 1973** , why said application should not be cancelled.

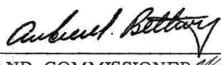
2. That said Applicant has not shown cause nor did Applicant appear
to show cause why Application to Appropriate Water No. **A-1878** should not
be cancelled and it is in the best interest of the State to cancel said application
due to Applicant's lack of diligence.

NOW, THEREFORE, IT IS HEREBY ORDERED that Application to
Appropriate Water No. **A-1878** heretofore filed by **Grand Canyon National
Park, National Park Service, P.O. Box 36063,
San Francisco, California 94102** , Applicant(s) be and the same hereby
is cancelled.

This Order is subject to appeal as in such cases is provided by the laws
of the State of Arizona.

GIVEN under my hand and the official seal of the Arizona State Land
Department this **28th** day of **October** , 19 **74**

SEAL


STATE LAND COMMISSIONER

64-74

BY CERTIFIED MAIL 569699

Received
Division of Water Resources
OCT 31 1974

[illegible]



JACK WILLIAMS
GOVERNOR

Arizona
State Land Department

1624 WEST ADAMS
PHOENIX, ARIZONA 85007
602 - 271-4634



ANDREW L. BETTWEY
STATE LAND COMMISSIONER

September 27, 1973

Mr. Gustav W. Muehlenhaupt
Acting Regional Director
U. S. Department of the Interior
National Park Service
Western Region
Post Office Box 36063
San Francisco, California 94102

Dear Mr. Muehlenhaupt:

As per your request of September 14, 1973, find enclosed an extension of time on the Commissioner's Order To Show Cause on Application Nos. A-2823, A-1765, A-1880, A-3095, A-2601, A-2602, A-1878, A-1799, A-1881 and A-1766 to and including the 1st day of October, 1974.

Very truly yours,

Wm Joe Melling

Wm. Joe Melling, Director
Water Rights Division

WJM/jaw

Enclosures

STATE LAND DEPARTMENT OF THE STATE OF ARIZONA
BEFORE THE STATE LAND COMMISSIONER

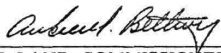
IN THE MATTER OF)
APPLICATION NO. **A-1880**)
TO APPROPRIATE WATER)
Re: **Bright Angel Creek/Colorado**) ORDER TO SHOW CAUSE
River)
Grand Canyon National Park, Applicant)
)
)
)

The Arizona State Land Department, through its Water Rights Division,
on lack of information that the above named applicant has complied with
the requirements of ARS Section 45-150 relating to the completion of
construction to appropriate surface waters, and further on the belief
that the above named applicant has not complied with the requirements
of Article I, Chapter IV, Rule 13 of the rules and regulations of the
State Land Department governing surface waters, copy attached, HERE-
BY ORDERS that the above named applicant on or before 17th day of
September, 19 73, personally or by verified writing appear and
show cause why the State Land Department should not cancel the above
numbered application to appropriate the certain waters herein de-
scribed.

GIVEN under my hand and the Official Seal of the State Land Department
this 13th day of August, 19 73.

S E A L

ARIZONA STATE LAND DEPARTMENT


STATE LAND COMMISSIONER

Upon the written request of applicant, and due cause having been shown
the date set for hearing the Order to Show Cause set forth above is
hereby advanced to the ____ day of _____, 19 ____.

ARIZONA STATE LAND DEPARTMENT

STATE LAND COMMISSIONER

BY CERTIFIED MAIL 570270

Re: L54-L

September 12, 1956

Mr. A. van V. Dunn, Chief
Water Resources Section
National Park Service
Washington 25, D. C.

Dear Mr. Dunn:

In compliance with your requests of August 29, 1956 and September 4, 1956, for extensions of time in Applications Nos. A-3095, A-1765 and A-1878, we enclose herewith the requested extensions.

We wish to express our appreciation of the fine cooperation which you have given us.

Very truly yours,

Kay Hammond,
Surface Water Division

Enclosures

C
O
P
Y

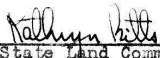
BEFORE THE STATE LAND COMMISSIONER OF THE STATE OF ARIZONA

IN THE MATTER	)	<u>C O M M I S S I O N E R ' S</u>
of	)	
Application No. A-1878,	)	<u>O R D E R</u>
Permit No. A-1192,	)	Granting
Bright Angel Creek	)	an
UNITED STATES OF AMERICA	)	Additional
Grand Canyon National Park	)	Extension of Time
	)	

The UNITED STATES OF AMERICA, Grand Canyon National Park, by its Chief of Water Resources Section, A. van V. Dunn, having requested an extension of time within which to make full beneficial use of water under the terms of Permit No. A-1192, granted pursuant to Application No. A-1878, and the reasons submitted for said request being considered good and sufficient cause therefor,

IT IS ORDERED, That the Permittee, the UNITED STATES OF AMERICA, GRAND CANYON NATIONAL PARK, be, and it is hereby granted an extension of time dating from November 27, 1956 to November 27, 1961 within which time to make full beneficial use of water under the terms of said Permit No. A-1192.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of the State Land Commissioner, this 12th day of September, A. D., 1956.



Acting Deputy State Land Commissioner

154-L

September 4, 1956

Mr. J. L. Ernst
State Land Commissioner
Water Division, State Land Department
Phoenix, Arizona

Re: Application A-1765, Permit A-1093,
Roaring Springs Diversion for
North Rim
Application A-1878, Permit A-1192,
Bright Angel Creek Diversion for
Cottonwood Camp
Grand Canyon National Park

Dear Mr. Ernst:

The time for completing construction under Application A-1765 expires on December 31, and the time for making full beneficial use of water under Application A-1878 expires on November 27 of this year. Request is hereby made for a 5-year extension of time in which to complete construction under Application A-1765 and a 5-year extension of time for making full beneficial use of water under Application A-1878.

As explained in recent applications for several other extensions of time, the National Park Service is embarked on an extensive 10-year construction program, designated as MISSION 66, to revamp and enlarge the public facilities to accommodate the anticipated attendance of 1966 based on the unprecedented trend since the end of the last war. Attendance at Grand Canyon National Park, for instance, has increased from 688,673 visitors for the year ending September 30, 1951, to 877,501 visitors for the year ending September 30, 1955. When the applications were filed it was anticipated that annual attendance would become stable during this decade, but it is still increasing at about the same rate as the national population.

Both applications were for fair but liberal quantities of water to cover a condition such as has arisen, and the authorized quantities have not yet been fully used. It would be unwise to limit either right at this time by making proof for final certificates, or to restrict our authority to modify the water systems in the MISSION 66 program.

Very truly yours,

(SIGNED)

A. van V. Dunn
Chief, Water Resources Section

Copy to: Regional Director, Region Three
Superintendent, Grand Canyon NP
Western Office of Design and Construction
~~Mr. Dunn~~

AvVDunn:lct

*Grand Canyon N. P.
Need 23*

BEFORE THE STATE LAND COMMISSIONER OF THE STATE OF ARIZONA

- - - - -

In the Matter

-of-

Application No. A-1878
Permit No. A-1192
Bright Angel Creek
United States of America
Grand Canyon National Park

GRANTING ADDITIONAL EXTENSION OF TIME

A. van V. DUNN, Chief, Water Resources Branch, National Park Service, United States Department of the Interior, having requested an additional extension of time within which to modify the construction of the project under Permit No. A-1192, granted pursuant to Application No. A-1878, wherein the water system is now in operation, favorable consideration for such extension is hereby given due to good and sufficient reasons submitted, which state in part:

"The water system is in operation, but related developments for the accommodation of the public on the trips for which this water development serves one stopping point, are being modified considerably as a result of the unprecedented increase in public attendance at the Park since the close of the War...."

THEREFORE, IT IS ORDERED, That the Permittee, be, and it is hereby, granted an extension of time from November 27, 1951, to November 27, 1956, within which to make complete application of water to beneficial use under the terms of said Permit No. A-1192, at which time the present full periodical use of the water may be fully proved and the general Park development, pertinent to said project, may be stabilized.

IN WITNESS WHEREOF, I have hereunto set my hand and

(SEAL)

affixed the Official Seal of the
State Land Commissioner of the
State of Arizona, this 8th day
of October, A. D., 1951.

/s/ James R. Burger

DEPUTY STATE LAND COMMISSIONER

10-30-1951: stamp of receipt





C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON 25, D. C.

In reply refer to:
LS4 GRAN

October 1, 1951

Mr. W. W. Lane
State Land Commissioner
Phoenix, Arizona

Dear Mr. Lane:

This is to request a further extension of time, beginning November 27, in which to furnish proof of beneficial use of water at the Cottonwood Camp, on Bright Angel Creek in Grand Canyon National Park, under Water Right Application No. A-1878, Permit No. A-1192.

The water system is in operation, but related developments for the accommodation of the public on the trips for which this water development serves one stopping point, are being modified considerably as a result of the unprecedented increase in public attendance at the Park since the close of the war. Accordingly, full water use may be made periodically, but cannot be fully proved until the general Park development is stabilized.

Sincerely yours,

((SGD.)) A. VAN V. DUNN,

A. van V. Dunn
Chief, Water Resources Branch

Grand Canyon Head 23.

BEFORE THE STATE LAND COMMISSIONER OF ARIZONA

In the Matter)

of)

Application No. A-1878)
Permit No. A-1192)
Bright Angel Creek)
The United States of America)
Grand Canyon National Park)

ORDER

GRANTING EXTENSION OF TIME

THE UNITED STATES OF AMERICA, GRAND CANYON NATIONAL PARK,
Grand Canyon, Arizona, by A. van Dunn, Chief Water Rights Division,
Washington, D. C., having requested an extension of time within
which to make complete application of water to beneficial use under
the terms of Permit No. A-1192, granted pursuant to Application No.
A-1878, and the reasons submitted being considered good and suffi-
cient cause therefor,

IT IS ORDERED, That the United States of America, Grand
Canyon National Park, be, and it is hereby, granted an extension of time
from November 27, 1947, to November 27, 1951, within which to make com-
plete application of water to beneficial use under the terms of Permit
No. A. 1192.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed
the Seal of the State Land Commissioner
of the State of Arizona, this 17th day of
November, A. D., 1947.

Ran Bone
DEPUTY STATE LAND COMMISSIONER

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
~~XXXXXXXXXXXXXXXXXXXX~~
CHICAGO, ILL. INCL.
Washington 25, D. C.

ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

November 12, 1947.

Mr. O. C. Williams,
State Land Commissioner of Arizona,
Phoenix, Arizona.

My dear Mr. Williams:

Permit No. A-1192, for the diversion and use of the waters of Bright Angel Creek at Cottonwood Camp in Grand Canyon National Park under Application No. A-1878, now requires that full beneficial use of the water be made by November 27, 1947.

Cottonwood Camp is on the Bright Angel Trail about half way between Phantom Ranch and the North Rim of the Park. It is used by the visitors at the North Rim of Grand Canyon, during their trips to the Colorado River at Phantom Ranch, by visitors from both the North and South Rims in their trips from one river to the other via the Bright Angel Creek and Kaibab Trails, by fishermen, and by trail maintenance crews.

The water use, therefore, is dependent on visitors, for which there are insufficient facilities at the bases at the North and South Rims, and at Phantom Ranch, and for which adequate facilities cannot be built until the more urgent residence needs of the nation are satisfied. Full water use, therefore, cannot be made until general Park developments are provided for the increasing numbers of visitors.

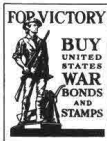
An extension of time is requested in which to make full beneficial use of the water, until the Park facilities are made adequate for the public demand.

Sincerely yours,

(SGD.) A. VAN V. DUNN
A. van V. Dunn,
Chief, Water Division.

AvVD:sh.

cc: Regional Director, Region Three (2).





O. C. WILLIAMS
STATE LAND COMMISSIONER

OFFICE OF
State Land Department
STATE OF ARIZONA
Phoenix, Arizona

January 17, 1945

Mr. A. van V. Dunn
Chief, Water Rights Division
National Park Service
Chicago, Ill.

Re: App. No. A-1878
Per. No. A-1192
Bright Angel Creek

Dear Sir:

In compliance with request contained in your letter of the 6th inst., the State Land Commissioner has today issued an Order extending the time for completely applying to beneficial use the water in the above designated case to November 27, 1947.

A copy of the Order is enclosed herewith.

Very truly yours,

C. H. W. Smith, Engineer
Water Division

s

BEFORE THE STATE LAND COMMISSIONER OF THE STATE OF ARIZONA
(Water Division)

IN THE MATTER

of

Application No. A-1878
Permit No. A-1192
Bright Angel Creek
The United States of America
Grand Canyon National Park

O R D E R

GRANTING EXTENSION OF TIME

The UNITED STATES OF AMERICA, GRAND CANYON NATIONAL PARK,
Grand Canyon, Arizona, by A. van Dunn, Chief, Water Rights Division,
Chicago, Illinois, having requested an extension of time within which
to make complete application of water to beneficial use under the
terms of Permit No. A-1192, granted pursuant to Application No. A-1878,
and the reasons submitted being considered good and sufficient cause
therefor,

IT IS ORDERED, That the United States of America, Grand Canyon
National Park, be, and it is hereby, granted an extension of time from
November 27, 1944, to November 27, 1947, within which to make complete
application of water to beneficial use under the terms of Permit No. A-1192.

This Order is made nunc pro tunc to serve as if made on
November 27, 1944.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed

the Seal of the State Land Commissioner

this 17th day of January, A. D., 1945.

(SGD) O. C. Williams

(SEAL)

State Land Commissioner of Arizona

C O P Y

December 6, 1944.

Water Division,
State Land Department,
Phoenix, Arizona.

Gentlemen:

Reference is made to our letter of November 16, 1942, with regard to retarded water use under Water Right Application A-1878, Permit No. A-1192, and others at Grand Canyon National Park due to wartime conditions and to the reply of November 19 by Jesse C. Wanslee, now the State Water Engineer.

This water system, as indicated when we requested the extension of time in 1942, is in operation and some water is used. It will be necessary, however, for public attendance in the park to reach and slightly exceed that of 1941 before full beneficial use can be proved. We therefore request further extension of time in which to make such full beneficial use of the water.

In your letter of 1942 you advised that we would be notified when further action was necessary. It is possible that you have sent such a notice to the park superintendent. This letter may be disregarded if the superintendent has made such a request, but we wish to make sure that the right does not lapse at this time.

Very truly yours,

(SGD.) A. van V. Dunn

A. van V. Dunn,
Chief, Water Rights Division.

cc: Regional Director, Region Three (2).

St. Grand Canyon.

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
WATER RIGHTS SECTION
SAN FRANCISCO, CALIF.
601 Sheldon Building

November 16, 1942.

Mr. Jesse C. Wanslee,
State Water Commissioner,
State House,
Phoenix, Arizona.

Dear Mr. Wanslee:

Reference is made to your letter of November 10, 1942, with regard to extensions of time for water right Applications A-1878, A-1765, A-1799, and A-454.

The order granting extension of time in the matter of Application No. A-1878, Permit A-1192, offers one immediate remedy. It does not, however, adapt procedure to the war conditions as we had hoped. We realize that your authority is limited, but request that you give the matter further consideration at your convenience.

The war has introduced three problems as illustrated in our letter of September 11, 1942, as follows:

1. Since late 1940, or early 1941, the United States has impounded most of its domestic construction funds to permit greater defense and war effort with a minimum of special taxation. Hence, only imperative additional National Park Service water systems will be attempted until the close of the war at a very indefinite date.
2. Water use has dropped, both because of depleted personnel in each park and monument and because public attendance dropped from 30% to 50% of the 1941 figure during 1942, and will doubtless be much less in 1943 because of traffic problems. Hence, if full beneficial use of water was not made in 1941 it will not be made until a year or two after the war.

3. We still have some water systems in your State, as in all others, which are not covered by water rights. We also have plans to build others as soon as labor and materials can be obtained after the war, as a part of the national post war stabilization program, and these should be covered by application and permit before construction is started. As long as our personnel is not transferred to other activities we will continue to prepare the applications and file them to profit by such priority as will result. However, a filing now, except for existing systems, does not imply beginning of construction until 1944, 1945, or even 1946. He assumes that priority will be as of the date you receive the application, but must you defer the granting of a permit until within a year of construction, or can you recognize diligence within a year after the labor returns from the war fronts?

In the latter case you will recall that only for Grand Canyon have we claimed municipal status which grants extended time in which to start construction under Section 3283 of your code. Most monuments have such small communities that such status would be debatable, but from the previous discussion you will note that the factors controlling development and use are the same. This might offer you some interpretation which might reduce the number of reports and extensions of time to the benefit of our mutually depleted offices.

Yours very truly,

A. van V. Dunn,
Hydraulic Engineer.

cc: Director.
Region Three.
Supt., Grand Canyon.
Supt. S.N.Mons.



STATE WATER COMMISSIONER
STATE HOUSE
PHOENIX, ARIZONA

November 10, 1942

copies
NOV 16 1942

AL
JESSE C. WANSLEE
COMMISSIONER

Mr. A. van V. Dunn
Hydraulic Engineer
Water Rights Section
National Park Service
U. S. Dept. of Interior
601 Sheldon Building
San Francisco, California

*Copies to Director
Region Three
Supt. Grand Canyon
Supt. S.W. Monks.* } 11/16/42.

Grand Canyon N.P.

Re: Application No. A-1878 *Grand Canyon N.M.*
Permit No. A-1192 *X Chiricahua N.M.*
Bright Angel Creek
The United States of America,
Grand Canyon National Park

Dear Sir:

We enclose a copy of Order Granting Extension of Time in the above designated case, original of which we keep on file in this office.

Mr. Wanslee, the Commissioner, who was scheduled to leave on official business immediately after signing the Order, has instructed me to advise you that the other permits you mention in your letter of September 11, 1942, which were granted pursuant to Applications Nos. A-1765, A-1799, R-454, A-1880 and A-1881, are already protected under Orders Granting Extension of Time, and dates are set up on our tickler system to notify you in due time before such Orders expire.

The Commissioner also requests that I inform you that favorable consideration will be given further extensions in these cases should conditions outlined in your letter exist on the expiration date of the Orders, or should other problems arise to merit such extensions.

I trust that my interpretation of Mr. Wanslee's verbal instructions will be satisfactory to you and to him.

Very truly yours,

Tessie L. Flynn
For
JESSE C WANSLEE
STATE WATER COMMISSIONER

File Copy

C O P Y

BEFORE THE STATE WATER COMMISSIONER OF ARIZONA

- - - - -

In the Matter	)	ORDER
	)	
of	)	GRANTING EXTENSION OF TIME
	)	
Application No. A-1878	)	
Permit No. A-1192	)	
Bright Angel Creek	)	
The United States of America	)	
Grand Canyon National Park	)	

The United States of America, Grand Canyon National Park, Grand Canyon, Arizona, by A. van V. Dunn, Hydraulic Engineer, San Francisco California, having requested an extension of time within which to make complete application of water to beneficial use under the terms of Permit No. A-1192, granted pursuant to Application No. A-1878, and the reasons submitted being considered good and sufficient cause therefor,

IT IS ORDERED, That the United States of America, Grand Canyon National Park, be, and it is hereby, granted an extension of time from November 27, 1942, to November 27, 1944, within which to make complete application of water to beneficial use under the terms of Permit No. A-1192, granted pursuant to Application No. A-1878.

IN WITNESS WHEREOF, I have hereunto set my hand and
affixed the Seal of the State Water
Commissioner this 9th day of November,
A. D., 1942.

(SEAL)

/s/ Jesse C. Wanslee
STATE WATER COMMISSIONER

*Copies to Director
Region Three
Supt., Grand Canyon* } *11/16/42*

Grand Canyon N.P. 660-05,2
X Grand Canyon N.M. 660-05,2
601 Sheldon Building X Chiricahua N.M. 660-05,2

November 6, 1942.

Mr. Jesse C. Wanslee,
State Water Commissioner,
State House,
Phoenix, Arizona.

Dear Mr. Wanslee:

On September 11 we wrote you regarding the possibility of obtaining a blanket extension of time in which to complete water systems and full beneficial use under Applications A-1878, A-1880, A-1881, A-1799, A-1765, and R-454. In reply your secretary advised that the matter would be given your attention on your return to the office.

The first three applications listed will expire on November 27 if extension of time is not obtained. We are therefore anxious to know what ruling you will give regarding our request.

Yours very truly,

A. van V. Dunn,
Hydraulic Engineer.

AvVD:SH

cc: Director.
Region Three.
Supt., Grand Canyon Nat. Park.
Supt., S.W. Monuments.

FILE COPY

C O P Y

STATE WATER COMMISSIONER
STATE HOUSE
PHOENIX, ARIZONA

September 15, 1942

Mr. A. van V. Dunn
Hydraulic Engineer
Water Rights Section
601 Sheldon Building
San Francisco, California

Dear Sir:

We are in receipt of your request for extension of time in the following numbered cases:

Application No. A-1765
Application No. A-1878
Application No. A-1799
Application No. A-1880
Application No. A-1881
Application No. R-454

The State Water Commissioner is out of the city on official business, but immediately upon his return the latter part of the week the matter will be brought to his attention and you will be notified of his decision.

Sincerely yours,

(Sgd) Tessie L. Flynn

Secretary
State Water Commissioner

Grand Canyon N.P. 660-052
X Grand Canyon N.M. 660-052
X Chiricahua N.M. 660-052

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco, Calif.

September 11, 1942.

Mr. Jesse C. Wanslee,
State Water Commissioner,
State House,
Phoenix, Arizona.

Dear Mr. Wanslee:

We have the following incomplete water rights in your State in the name of the United States:

Application A-1878, Permit A-1192,
Bright Angel Creek Diversion for Cottonwood
Camp at Grand Canyon, requiring application
of the water to beneficial use by Nov. 27, 1942.

Application A-1880, Permit A-1194,
Bright Angel Creek Diversion for Supplemental
Municipal use at the Town of Grand Canyon,
Arizona, requiring completion of construction by Nov. 27, 1942.

Application A-1881, Permit A-1195,
Bright Angel Creek Diversion for hydroelectric
purposes at Phantom Ranch, Grand Canyon, re-
quiring completion of construction by Nov. 27, 1942.

Application A-1799, Permit A-1132,
Bonita Canyon Springs Diversion for Chiricahua
National Monument, requiring some further con-
struction and proof of use by Sept. 30, 1943.

Application R-454, Permit R-235,
Toroweep Wash Reservoir for Grand Canyon
National Monument, requiring proof of
beneficial use by Aug. 8, 1944.

Application A-1765, Permit A-1093,
Roaring Springs Diversion for the Town of Kaibab
Post Office, Arizona, in Grand Canyon National
Park, requiring complete construction by Dec. 31, 1945.

FILE COPY

We wonder if it is possible to obtain a blanket extension of time for all these claims until two years after the close of the war. For over a year now, almost all Park Service construction funds have been impounded as a war measure. Where funds have been available we have found our priority too low to obtain necessary materials. CCC activity was all terminated on July 1 of this year and from about the time of the first draft the personnel in these camps has been so far below normal that little more than emergency maintenance has been possible with them.

Full beneficial use is also impossible. The abandonment of each CCC camp is a decrease of about 10,000 gpd in water demand. Much of the regular Park Service staff has joined the armed forces and moved their families out of the Park Service areas and all temporary crews are far below normal strength. Public attendance has also decreased to only about 50% of that for last year. Some consideration is being given to re-opening part of the CCC camps for use as Civilian Public Service camps, but the effect on water use is still uncertain.

We have tentative plans for unusually heavy construction projects at the close of the war to help stabilize the economic situation. Thus it is anticipated that the construction program and water use will soon reach their normal position on the trend of development, but due to possible delays in releasing or appropriating the first funds, the time that may be required to restore manufacturing facilities and reassemble labor crews, we feel that two years should be provided in which to report completion of projects.

Yours very truly,

A. van V. Dunn,
Hydraulic Engineer.

AvVD:SH

cc: Director.
Region Three.
Supt., Grand Canyon Nat. Park.
Supt., S.W. Monuments.

660-05.7

November 29, 1939.

Mr. Jesse C. Wanslee,
State Water Commissioner,
State House,
Phoenix, Arizona.

Dear Sir:

Enclosed you will find Notice of Beginning of Construction,
in connection with the appropriation of the waters of the Bright
Angel Creek, which you sent me under date of November 27.

Very truly yours,

(SGD) H. C. BRYANT
H. C. Bryant,
Acting Superintendent.

HE.

Quarrel

FILE COPY

NOTICE OF BEGINNING OF CONSTRUCTION

I, H. C. Bryant (for the S. of America), the holder of Application No. A-1879, being
Permit No. A-1193, issued by the State Water Commissioner of the
(Reservoir or enlargement) 1,0009-d- for domestic use, 3 3/4 acre ft per acre per annum for irri-
State of Arizona for the appropriation of A-1193 in accordance with the tenor of such permit and the limitations endorsed thereon
for stock use from Bright Angel and Clear Creeks.
In accordance with the tenor of such permit and the limitations endorsed thereon
by the State Water Commissioner, began the actual construction of the works described therein on the
day of _____, 19____, being within the time limitation as fixed in said permit for the beginning
of construction work.

It was found impossible to begin construction work because of a prospective change
The appropriator should state the manner of beginning construction work, number of men and teams employed, the amount of work completed up to the
in the method of increasing the water supply of Grand Canyon Village from a pumping
date of this statement, and any additional information which may tend to show the beginning of work in good faith.
plant to a siphon.

In Witness Whereof, I have hereunto set my hand this 29th day of November, 19 39.

Grand Canyon, Ariz.
(Present address)

H. C. Bryant
(Signature of applicant)

Fill out, detach, and mail to the State Water Commissioner, Phoenix, Arizona.

Permit No. A-1192.....

Application No. A-1878.....

APPLICATION FOR A PERMIT

To Appropriate Public Waters of the State of Arizona

Filed April 14, 1938 at 11:00 A.M.
 The United States of America, by
 (Applicant must not fill in the above blanks.)

I, M. R. Tillotson, Superintendent of Grand Canyon National Park
 (Applicant's name as inserted here must agree with signature.)

of Grand Canyon, County of Cocconino
 (Postoffice.)

State of Arizona do hereby make application for a permit to appropriate the following described unappropriated waters of the State of Arizona.

1. The source of the proposed appropriation is Bright Angel Creek
 (Name of stream or name of reservoir and stream if water is diverted from reservoir.)
 tributary of Colorado River

2. The amount of water which the applicant intends to apply to beneficial use is:

For domestic use, 1000 gallons per day
 (Municipal or Domestic.) (Gallons per annum, or gallons per day.)

For irrigation use, 5 AF/A/Annum
 (Irrigation.) (Acre feet per acre per annum.)

For stock watering use, 100,000 gallons per annum
 (Mining or Stock Watering.) (Cubic feet per second, or gallons per annum.)

For use, cubic feet per second.
 (Power.)

For use,

3. The point of diversion is located N 35 degrees, 59'20" E 52,304' from the SW corner
 (State bearing and distance or coordinate distances to section or quarter section corner.)

Section 24, T. 31 N., R. 2 E., G. & S. R. B. & M.

being within the SW 1/4 SE 1/4 (unsurveyed), of Sec. 11, T. 32 N.
 (State 40-acre subdivision of U. S. Government survey or projection thereof.) (No. N. or S.)

R. 3 E. G. & S. R. B. & M., in the County of Cocconino
 (No. E. or W.)

(Note—Complete paragraph below for all proposed uses of water, except irrigation.)

4. The water will be used for domestic and stock in the SW 1/4 of SE 1/4 (unsurveyed)
 (40 or 10 acre subdivision.)

of Sec. 11 and for irrigation in the SE 1/4 SW 1/4 and SW 1/4 SE 1/4
 (40 or 10 acre subdivision.)

of Sec. 11, T. 32 N., R. 3 E., G. & S. R. B. & M., Cocconino County, Arizona.

DESCRIPTION OF WORKS

5. Diversion Works: (a) Diversion will be by gravity, the diverting dam to be none feet in height (stream bed to overflow) long on top, and constructed of no diverting structures
 (Concrete, earth, brush, etc.)

necessary; water flows directly into ditch and pipe

(b) Description of headgate small timber check gate on ditch
 (Timber, concrete, etc., number and size of openings.)

2" G. I. valve on pipe line

(c) If water is to be pumped give general description
 (Size and type of pump.)

 (Size and type of engine or motor to be used, total head water is to be lifted, etc.)

Do not use this form in making application for a permit to construct a reservoir and store water. A special form for this purpose may be obtained from the State Water Commissioner.

36
This is true copy of application as finally accepted by State. 1/26/38 - S. H.

6. **Conduit System.** (a) ~~Canal, ditch, flume.~~ Width on top (at water line) 5 feet; width at bottom 2 feet; depth of water 1.5 feet; length 1500 feet; grade variable feet per 1,000 feet; materials of construction gravel and boulders with small amount of loam.

(b) Pipe line: Diameter 2 inches; length 1500 feet; grade 30 feet per 1,000 feet; total fall from intake to outlet 50 feet; kind galvanized iron (Riveted steel, cement, wood-stave, etc.)

NOTE—If different sizes or kinds of conduit are to be used, attach extra sheets with complete description, also show location of each clearly on map.

7. **Distributing Works.** Ditch is diverted over hillside, returning to Bright Angel Creek. Pipe line is provided spigot at distribution end. (No.) (Tank or trough) (Material) (State dimensions)

8. **Cost and Construction Schedule.** The estimated cost of the proposed project is \$1500. It is proposed to begin construction within Completed in 1927 after the approval of this application, to complete construction within Completed in 1927 thereafter and to completely apply the water to the proposed use 5 years after the beginning of construction, present date. (Not over 1 year.) (Not more than 5 years.) (State time in months or years.)

DESCRIPTION OF PROPOSED USE

9. **Domestic Use.** Domestic use is proposed as follows: To supply camping facilities for fishermen at Cottonwood Camp in SW 1/4 SE 1/4 Section 11, T. 32 N., R. 3 E., as projected in unsurveyed land. (Describe nature of use which may include the irrigation of gardens not exceeding one-half acre, stating number of persons and number of domestic stock to be served, etc.)

10. **Municipal Use.** To supply the city of _____, and an estimated population of _____ in 19_____ having a present population of _____.

11. **Irrigation Use.** (a) The land to be irrigated has an area of 5 acres; is located in Coconino County, Arizona, and is particularly described by legal subdivisions as follows:

(Describe the subdivisions of the township or section the entire area of which it is proposed to irrigate, by the largest possible legal subdivisions, in the table below, inserting the area in the acreage column. In cases of irregular shaped parcels use a separate line to describe each 40 acre subdivision in which they occur and insert only the area of such subdivision to be irrigated in the acreage column.)

Tp.	Range	Sec.	SUBDIVISIONS	Number Acres To Be Irrigated
32N	3 E	11	SW 1/4 of SE 1/4	4
32N	3 E	11	SE 1/4 of SW 1/4	1
			(all in unsurveyed land)	

(If more space is required, attach separate sheet.)

- (b) What is the character of the soil? sand, boulders and small amount of loam.
- (c) What quantity of water is necessary to raise proposed crops? at least 5 AF/A/Annum (Acre feet per acre per annum.)
- (d) Land to be irrigated is owned by United States of America (National Park Service) (Name of owner.) (If applicant is lessee, etc., so state.)
- (e) The irrigation season will begin about May and end about August (Beginning date each season.) (Closing date each season.)
- (f) Has the land to be irrigated any water right or source of water supply other than that herein applied for? No Describe the nature and amount of any additional supply.

12. **Stock Watering Use.** (a) What kind of stock is it proposed to serve? horses and mules

(b) What is the average number of stock it is proposed to serve? 25 per day

(c) What is the maximum number of stock it is proposed to serve? 50 per day

(d) The use of water will begin about April and end about October (Beginning date each season.) (Closing date each season.)

13. Power Use. (a) The maximum amount of water to be used through the penstock is..... cubic feet per second.

(b) Total amount of power to be developed.....theoretical horsepower.
(Second feet $\times$ fall $\div$ 8.8.)

(c) Total fall to be utilized.....feet.
(Pressure head.)

(d) The nature of the works by means of which the power is to be developed.....
(Turbine, Pelton wheel, hydraulic ram, etc.)

(e) The works to be located, and the water to be released, in.....of Sec.....
(40-acre subdivision.)
T....., R....., G. & S. R. B. & M.
(No. N. or S.) (No. E. or W.)

(f) Is water to be returned to any stream?..... If so, name stream and describe location of point where returned. in the..... Sec..... T.....
(Name of stream.) (40-acre subdivision.) (No. N. or S.)
R....., G. & S. R. B. & M.
(No. E. or W.)

(g) The use to which the power is to be applied is.....
(For distribution and sale or private use, etc.)
(Give general description of locality where power will be used.)

14. Mining Use. The mines to be served are..... known
(Placer gold, lode gold, copper, etc.)
as the
(Names of claims or name of group.)
located in..... Sec..... T..... R....., G. & S. R. B. & M.
(40-acre subdivision.) (No. N. or S.) (No. E. or W.)
and owned by.....

The method of utilizing the water is.....
Will the water be polluted by chemicals or otherwise?.....
(Explain nature of pollution, if any.)
What disposition is made of water after use?.....
(State if stored for reuse. If returned to a stream give name of stream and description of 40-acre tract to which returned.)

GENERAL

15. Are the maps required by the Rules and Regulations filed with Application?..... Yes..... If not, state specifically the time required for filing same.....
(Yes or No.)

16. The proposed point of diversion is on land of The United States of America (National Park Ser.)
(Insert name of owner, or state on Public Domain, National Forest, State Land, etc.)

17. The proposed conduit system is on land of The United States of America (National Park Ser.)
(Insert name of owner, or state on Public Domain, National Forest, State Land, etc.)

18. The land at the proposed place of use is owned by The United States of America (National Park Service)

19. Post office used by those living near the proposed point of diversion is Grand Canyon, Arizona

20. Of the applicant's knowledge, has the water described herein ever been appropriated, claimed or used by others?.....No..... If so, file a statement herewith furnishing names of former appropriators or users of the water, and supporting applicant's claim that the water is now subject to appropriation.

21. If the source of supply is a stream, state names and addresses of three water users from the stream below the proposed point of diversion; or, if there are no water users from stream below the proposed point of diversion, or if the source of supply is other than a stream, furnish the names and addresses of at least three residents of the vicinity familiar with the source of supply and the proposed use of water.

The applicant, and its operators, are sole users of the stream.

The United States of America

By (sgd) M. R. Tillotson
Signature of Applicant.

Superintendent, Grand Canyon National Park

38

0.3

8-4

ORDER OF CORRECTION

STATE OF ARIZONA, }
County of Maricopa. } ss.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for correction or completion, as follows:

In order to retain its priority, this application must be corrected, completed and refiled in the office of the State Water Commissioner on or before....., 19.....

WITNESS my hand and seal of office this.....day of....., 19.....

State Water Commissioner.

Application No. A-1878

Permit No. A-1192

PERMIT

STATE OF ARIZONA, }
County of Maricopa. } ss.

This is to certify that I have examined the foregoing application and do hereby approve the same, and grant to the applicant a permit to appropriate the water described therein subject to the following limitations and conditions:

The amount of water appropriated shall be limited to the amount which can be applied to beneficial use and shall not exceed One thousand (1,000) gallons per day for domestic use, three and three quarter (3 3/4) acre feet per acre per annum for irrigation and one hundred thousand (100,000) gallons per annum for stockwatering purposes.

The priority of date under this permit is April 14, 1938

Actual construction work ~~which began on or before~~ has been completed ~~and shall be~~
~~expended with reasonable diligence and be completed on or before~~ ~~May 1, 1938~~ *Completed 11/27/38*

Complete application of the water to the proposed use shall be made on or before Nov. 27, 1942

WITNESS my hand and seal of office this 28th day of November, 1938

(SEAL)

(sgd) Jesse C. Wanslee

State Water Commissioner.

Application No. A-1878
Permit No. A-1192

PERMIT
To Appropriate Public Waters of
the State of Arizona

District No.

This instrument was first received in the office of the State Water Commissioner at Phoenix, Arizona, on the 14th day of April 1938, at 11:00 o'clock A.M.

Returned to applicant for correction

Corrected application refiled

oved

November 28, 1938

Recorded in Book No. 11 of

Applications for Permit at page 1878

(Seal)

(sgd) Jesse C. Wanslee

State Water Commissioner.

IN ARIZONA PRINTED, INC.

Permit No.

Application No.

APPLICATION FOR A PERMIT

To Appropriate Public Waters of the State of Arizona

Filed..... at..... M.
(Applicant must not fill in the above blanks.)The United States of America, by
I. M. R. Tillotson, Superintendent of Grand Canyon National Park
(Name of Applicant.)

of Grand Canyon (Postoffice), County of Coconino

State of Arizona, do hereby make application for a permit to appropriate the following described unappropriated waters of the State of Arizona:

1. The source of the proposed appropriation is Bright Angel Creek,
(Name of stream or name of reservoir and stream if water is diverted from reservoir.)
tributary of Colorado River

2. The amount of water which the applicant intends to apply to beneficial use is:

For domestic use, 1000 gallons per day.
(Municipal or Domestic.)For irrigation use, 5 AF/A/Annum
(Irrigation.) (Cubic feet per second, or acre feet per acre per annum.)For stock watering use, 500 G.P.D.
(Mining or Stock Watering.) (Cubic feet per second, or gallons per day.)

For (Power) use, cubic feet per second.

For use,

3. The point of diversion is located N 32° 20' E 54,800' from the SW corner
(State bearing and distance or coordinate distances to section or quarter section corner.)

Section 24, T 31 N, R 2 E, G & S R, B & M

being within the NE 1/4 (unsurveyed) of Sec. 11, T. 32 N,
(State 40-acre subdivision of U. S. Government survey or projection thereof.) (No. N. or S.)R. 3 E, G. & S. R. B. & M. in the County of Coconino
(No. E. or W.)4. The main ditch and pipe line are each 0.3 miles in length, terminating in the
(Main ditch, canal or pipe line.)NE 1/4 SE 1/4 (unsurveyed) of Sec. 11, T. 32 N, R. 3 E, G. & S. R. B. & M.,
(State 40-acre subdivision of U. S. Government survey or projection thereof.) (No. N. or S.) (No. E. or W.)

the proposed location being shown throughout on the accompanying map.

DESCRIPTION OF WORKS

5. Diversion Works: (a) Diversion will be by gravity, the diverting dam to be None feet in
height (stream bed to overflow), long on top, and constructed of
(Concrete, earth, brush, etc.)(b) Description of headgate small timber check gate on ditch.
(Timber, concrete, etc., number and size of openings.)
2" G. I. valve on pipe line.(c) If water is to be pumped give general description. --
(Size and type of pump.)

(Size and type of engine or motor to be used, total head water is to be lifted, etc.)

Do not use this form in making application for a permit to construct a reservoir and store water. A special form for this purpose may be obtained from the
State Water Commissioner.

6. Conduit System. (a) ~~Canal, ditch, flume~~ Width on top (at water line) 5 feet; width at bottom 2 feet; depth of water 1.5 feet; length 1500 feet; grade variable feet per 1,000 feet; materials of construction gravel and boulders with small amount of loam
 (b) Pipe line: Diameter 2 1/2 inches; length 1500 feet; grade 30 1/2 feet per 1,000 feet; total fall from intake to outlet 50 1/2 feet; kind galvanized iron
 (Riveted steel, cement, wood-stave, etc.)

NOTE.—If a combination of different sizes or kinds of conduit is to be used, attach extra sheets with complete description, also show location of each clearly on map.

7. Distributing Works. Ditch is diverted over hillside, returning to Bright Angel Creek. Pipe line is provided spigot at distribution end.
 Capacity
 WWS

8. Cost and Construction Schedule. The estimated cost of the proposed project is \$1500
 It is proposed to begin construction within Completed in 1927 after the approval of this application, to complete construction within Completed in 1927 thereafter and to completely apply the water to the proposed use 5 years after the beginning of construction present date.

DESCRIPTION OF PROPOSED USE

9. Domestic Use. Domestic use is proposed as follows: To supply camping facilities for fishermen at Cottonwood Camp in NE 1/4 SE 1/4 Section 11, T 32 N, R 3 E, as projected in unsurveyed land.
 (Describe nature of use which may include the irrigation of gardens not exceeding one-half acre, stating number of persons and number of domestic stock to be served, etc.)

10. Municipal Use. To supply the city of
 County, having a present population of and an estimated population of in 19.....
 (Name of.)

11. Irrigation Use. (a) The land to be irrigated has an area of 5 acres; is located in Coconino County, Arizona, and is particularly described by legal subdivisions as follows:

(Describe the subdivisions of the township or section the entire area of which it is proposed to irrigate, by the largest possible legal subdivisions; in the table below, inserting the area in the acreage column. In cases of irregular shaped parcels use a separate line to describe each 2 1/2 acre subdivision in which they occur and insert only the area of such subdivision to be irrigated in the acreage column.)

Tp.	Range	Sec.	SUBDIVISIONS	Number Acres To Be Irrigated
32N	3E	11	NE 1/4 SE 1/4	5

(If more space is required, attach separate sheet.)

(b) What is the character of the soil? sand, boulders and small amount of loam
 (c) What quantity of water is necessary to raise proposed crops? at least 5 AF/A/Annum
 (Acre feet per acre per annum.)
 (d) Land to be irrigated is owned by United States of America (National Park Service)
 (Name of owner.) (If applicant is lessee, etc., so state.)
 (e) The irrigation season will begin about May and end about August
 (Beginning date each season.) (Closing date each season.)
 (f) Has the land to be irrigated any water right or source of water supply other than that herein applied for? No Describe the nature and amount of any additional supply.

12. Stock Watering Use. (a) What kind of stock is it proposed to serve? horses and mules
 (b) What is the average number of stock it is proposed to serve per annum? 25 per day
 (c) What is the maximum number of stock it is proposed to serve? 50 per day.

13. **Power Use.** (a) The maximum amount of water to be used through the penstock is -----
cubic feet per second.

(b) Total amount of power to be developed ----- theoretical horsepower.
(Second feet $\times$ fall $\div$ 8.8.)

(c) Total fall to be utilized ----- feet.
(Pressure head.)

(d) The nature of the works by means of which the power is to be developed -----
(Turbine, Pelton wheel, hydraulic ram, etc.)

(e) The works to be located, and the water to be released, in ----- of Sec. -----
(40-acre subdivision.)

T. -----, R. -----, G. & S. R. B. & M.
(No. N. or S.) (No. E. or W.)

(f) Is water to be returned to any stream? ----- If so, name stream and describe location of point
(Yes or No.)
where returned ----- in the -----, Sec. -----, T. -----
(Name of stream.) (40-acre subdivision.) (No. N. or S.)

R. -----, G. & S. R. B. & M.
(No. E. or W.)

(g) The use to which the power is to be applied is -----
(For distribution and sale or private use, etc.)

14. **Mining Use.** The mines to be served are ----- known
(Placer gold, lode gold, copper, etc.)
as the -----
(Names of claims or name of group.)

located in -----, Sec. -----, T. -----, R. -----, G. & S. R. B. & M.,
(40-acre subdivision.) (No. N. or S.) (No. E. or W.)

and owned by -----

The method of utilizing the water is -----

Will the water be polluted by chemicals or otherwise? -----
(Explain nature of pollution, if any.)

What disposition is made of water after use? -----
(State if stored for reuse. If returned to a stream give name of stream and description of 40-acre tract to which returned.)

GENERAL

15. Are the maps required by the Rules and Regulations filed with Application? Yes If not,
(Yes or No.)
state specifically the time required for filing same -----
16. The proposed point of diversion is on land of The United States of America (National Park Service)
(Insert name of owner, or state on Public Domain, National Forest, State Land, etc.)
17. The proposed conduit system is on land of The United States of America (National Park Service)
(Insert name of owner, or state on Public Domain, National Forest, State Land, etc.)
18. The land at the proposed place of use is owned by The United States of America (National Park Service)
19. Post office used by those living near the proposed point of diversion is Grand Canyon, Arizona.
20. Of the applicant's knowledge, has the water described herein ever been appropriated, claimed or used by others? No. If so, file a statement herewith furnishing names of former appropriators or users of the water, and supporting applicant's claim that the water is now subject to appropriation.
21. If the source of supply is a stream, state names and addresses of water users from the stream below the proposed point of diversion; or, if the source of supply is other than a stream, furnish the names and addresses of at least three residents of the vicinity familiar with the source of supply and the proposed use of water.
- The applicant, and its operators, are sole users of the stream.

United States of America,

By Signature of Applicant.
Superintendent, Grand Canyon National Park.

ORDER OF CORRECTION

STATE OF ARIZONA, }
 County of Maricopa. } ss.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for correction or completion, as follows:

In order to retain its priority, this application must be corrected, completed and refiled in the office of the State Water Commissioner on or before _____, 19_____.

WITNESS my hand and seal of office this _____ day of _____, 19_____.

State Water Commissioner.

Application No. _____

Permit No. _____

PERMIT

STATE OF ARIZONA, }
 County of Maricopa. } ss.

This is to certify that I have examined the foregoing application and do hereby approve the same, and grant to the applicant a permit to appropriate the water described therein subject to the following limitations and conditions:

The amount of water appropriated shall be limited to the amount which can be applied to beneficial use and shall not exceed _____

The priority of date under this permit is _____

Actual construction work shall begin on or before _____, and shall be prosecuted with reasonable diligence and be completed on or before _____

Complete application of the water to the proposed use shall be made on or before _____

WITNESS my hand and seal of office this _____ day of _____, 19_____.

State Water Commissioner.

Application No. _____

Permit No. _____

PERMIT

To Appropriate Public Waters of
 the State of Arizona

District No. _____

This instrument was first received in the office of the State Water Commissioner at Phoenix, Arizona, on the _____ day of _____, 19_____, at _____ o'clock _____ M.

Returned to applicant for correction _____

Corrected application refiled _____

Amended _____

Recorded in Book No. _____ of
 Applications for Permit at page _____

State Water Commissioner.

THE MANUFACTURING STATIONERS INC. PHOENIX, ARIZONA



REC'D MAR 6 1939

REC'D MAR 6 1939

STATE WATER COMMISSIONER

STATE HOUSE
PHOENIX, ARIZONA
March 3, 1939.

JESSE C. WANSLEE
COMMISSIONER

Mr. Joseph E. Taylor,
Regional Attorney,
U. S. Dept. of the Interior,
National Park Service,
601 Sheldon Building,
San Francisco, California.

Re: App. A-1878, Per. A-1192,
Bright Angel Creek,
United States of America,
Grand Canyon National Park.

Dear Mr. Taylor:

Rec'd. 3/8/39

Under separate cover we are sending you the
Van Dyke negative of your map No. GC-5136, and enclosing here-
with signed voucher for 79¢ for same.

We are enclosing four each of the following
forms:

1. Certificate of Water Right.
2. Proof of Appropriation.
3. Set of Notices of Beginning
of Construction, Completion
of Construction and Complete
Application of Water to Bene-
ficial Use.

From the forms you will note that the notices
are filed as permittee progresses in his compliance with the
provisions of the permit and that the Proof of Appropriation
is the final proof upon which the Certificate of Water Right
is based.

Sincerely yours,

Jesse C. Wanslee
JESSE C. WANSLEE
STATE WATER COMMISSIONER

JCW:T
Enclosures

FILE COPY

601 Sheldon Building
February 24, 1939

State Water Commissioner,
State Building,
Phoenix, Arizona.

Dear Sir:

Re: Application for Permit to Appropriate
Public Waters of the State of Arizona
No. A-1878, Permit No. A-1192.

Enclosed you will please find a voucher prepared for your signature to cover the preparation of a Van Dyke negative of our map No. GC-5136 filed to accompany the above mentioned application. May we ask that you have such a negative prepared and forward it to this office at your convenience. Please complete the voucher forwarded herewith with respect to the charge made for reproduction of the negative, and with your signature attached please return to this office. We will immediately place this voucher in the proper channels for payment.

In addition, we would greatly appreciate it if you could furnish us with several copies of the following forms:

1. Certificate of Water Right.
2. Proof of Completion.
3. Proof of Application to Beneficial Use.

Thanking you in advance for your attention, I am

Yours very truly,

Encls.

Joseph E. Taylor,
Regional Attorney.

JET:SH

CC: Supt., Grand Canyon National Park.

Form NPS-L-1

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICEState Arizona

LAND OWNERSHIP RECORD

Tract No. _____

County CoconinoDeed No. 23

Civil Subdivision _____

Area _____ acres

Grand Canyon Nat. Park

Name of Park or Area

Right

Based on ~~Survey~~ Application & Permit Date April 14, 1938 Cottonwood Camp
Section of Park or AreaLegal Description: Water Right Application A-1878, Permit A-1192, CertificateMethod of Acquisition: Water right appropriation Appropriation or Source of funds: Water RightsCost ~~of purchase~~ estimated water to date \$500Acquired from: State of Arizona

Accepted by Secretary (____) Opinion of Att'y. Gen.-title in U. S. (____) date: _____

Physical Characteristics: A conditional right to divert 1000 gallons per day for domestic, 100,000 gallons per annum for stock watering, and 25 acre feet per annum for irrigation purposes at Cottonwood Camp with priority of April 14, 1938.

Improvements on Land at time of Acquisition: _____

Existing or outstanding special use permits, reservations, rights, or rights of way: _____

Report Based on: Records of Water Rights SectionPrepared by: A. van V. Dunn, Hydraulic Engineerdate: 11/12/43Map References: NP-GC-5136

Remarks: _____

Supporting Hydro Data

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

GRAND CANYON NATIONAL PARK
Grand Canyon, Arizona

660-05.7
PR-660-05

February 15, 1952

Memorandum

To: Regional Director, Region Three
From: Superintendent
Subject: Additional Water Supply, South Rim, Grand Canyon National Park

In reply to Mr. Kittredge's inquiry in his memorandum of January 28, we have the following information:

The only measurements at Roaring Springs were those taken February 9, 1927 by Utah Parks Company Engineers, at two points:

1. Bright Angel Creek, 200 feet above its junction with Roaring Springs Creek, which showed a flow of 9.30 second feet.
2. Roaring Springs Creek below Roaring Springs, which showed a flow of 7.69 second feet. (Total flow 16.99 second feet.)

Both Roaring Springs and Bright Angel Creek above the junction of the two streams have a considerable seasonal and yearly fluctuation; last year (1951) being the lowest since the Utah Parks pumping station was installed, according to Utah Parks engineers.

Indian Gardens

There are three pumps at Indian Gardens with the following capacities:

- a. 75 gals. per minute
- b. 160 gals. per minute
- c. 160 gals. per minute

Normally only one of the larger pumps is used at a time; occasionally, however, a large one and the small one are used together; and it is possible to use all three at once.

Stream flows at Indian Gardens:

Minimum - - - - - 150 gals. per minute
Normal - - - - - 200 gals. per minute

It was the opinion of Santa Fe engineers that only rarely would the springs show as much fluctuation as indicated above. The flow is remarkably steady at 200 gallons per minute, year by year and at all seasons of the year. Last summer, during July and August, Santa Fe pumping records averaged 8,000,000 gallons per month, and they were taking the entire output of the springs.

(SIGNED)

H. C. Bryant
Superintendent

In triplicate



C
O
P
Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES - SURFACE WATER

October 17, 1952

Superintendent
Grand Canyon National Park
Grand Canyon, Arizona

Dear Sir:

Subject: Roaring Springs

The following lists the miscellaneous discharge measurements made in the Roaring Springs Creek area during the summer months of 1952:

Date 1952	Roaring Springs Cr. at mouth	Bright Angel Creek above Roaring Springs	Creek at mouth
June 21	13.0	19.4	39
July 31	9.6	11.3	28
Aug. 30	8.4	10.7	23
Oct. 10	7.3	8.83	*21

Note.- September measurement postponed because of Sept. 20-21 flood runoff in area.

*Estimated on basis of measurements made Oct. 7 and 14; 22.8 cfs and 20.4 cfs respectively.

This completes investigations which we propose to make this year. However, it is anticipated that we will again measure Roaring Springs about June 1953 under our general program of such spring inflow to the Colorado River in the Grand Canyon area.

Very truly yours

(SIGNED) John H. Gardiner

cc. Mr. Hely

JOHN H. GARDINER
District Engineer

Copy to: Reg Dir Region Three 2 ✓

Other Supporting Information



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE

WESTERN REGION

450 GOLDEN GATE AVENUE, BOX 36063
SAN FRANCISCO, CALIFORNIA 94102

L54 (WR) PSW
CHIR/WR Docket File #1
GRCA NM/WR Docket File #2
GRCA NP/WR Docket Files #3,
4, 5, 7 and 8
TONT/WR Docket Files #1&2

November 14, 1974

Memorandum

To: Superintendent, Chiricahua
Superintendent, Grand Canyon
Superintendent, Tonto

From: **ACTING**
Regional Director, Western Region

Subject: Water Right Docket Material

Enclosed for your docket files and information are State of Arizona orders of cancellation for various applications for diversion of water sources in Chiricahua National Monument, Grand Canyon National Monument, Grand Canyon National Park and Tonto National Monument. As you recall, we had been given an extension of time as a result of our letter of September 14, 1973, to the State Land Department of Arizona in which we discussed the status of our water use and the comity nature of our filings. This extension of time has lapsed and the State has administratively cancelled the applications; copies enclosed. These applications, however, have not been active and would not qualify for license according to Arizona State Law, in any case. All of these diversions are within the Park and are protected under the Reservation Doctrine when they are used.

Since we are essentially only appropriating water on a regular basis from Roaring Springs, any action taken on our part to acquire a State License on Roaring Springs might be construed by the State as an implied waiver (or abandonment) of our rights on the other points of diversion. The best course of action in this case is to allow the State to administer this unilateral action while we maintain our position of comity.



Enclosures

cc:
WASO, Water Resources, w/encls - Mr. Berte
Field Solicitor, San Francisco Office, w/o encls
General Superintendent, SOAR

Save Energy and You Serve America!

Form 10-174
(June 1962)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

FACE SHEET FOR COMPLETION REPORT

Park Grand Canyon National Park	Region Southwest	Work Order No. B27-GRCA
Location in Park Inner Canyon	State(s) Arizona	Fund Symbol 14X1035
	County or Counties Coconino	Year Programmed 1963
☐ Contract and/or ☒ Day Labor		PCP No. M-86
Work Order Title Inner Canyon Cottonwood Campground (20 Sites), M-86		Master Plan No. NP-GC-2287
		Master Plan Corrected By
		As Built Drawings By
		Date Started January 1963
		Date Completed July 1963 ✓
DESCRIPTION OF FIXED ASSETS (For completion by employee in charge of project)		TOTAL COSTS (For completion by FFO)
Buildings - Visitor Use - Comfort Station		23,601.88
Building No. 314 Wood Frame Construction, Wood Siding Composition Roof, Concrete Slab Floor, Wired for Electrical Power When Available. Wash Basin, Two Water Closets, and Floor Drain on Women's Side; Wash Basin, Urinal, Water Closet and Floor Drain on Men's Side. Dimensions 18'0" X 13'4"		
Utilities - Sewer System		4,512.40
2,500 Gal. Reinforced Concrete Septic Tank 125 ft. 4" Sewer Line Two Concrete Manholes Tile Field Consisting of Distribution Box 3'X2'X2' and Three Trenches 60' Long.		
Utilities - Water System		9,425.00
3,180 L.F. 2" Galvanized Pipe Filter Box 6'X4'X4' Reservoir Box 6'X4'X4' Chlorinator		
Grounds and Other Improvements - Campgrounds		2,053.20
20 Site Campground 20 Picnic Tables 20 Fireplaces 10 Garbage Cans and Racks		
TOTAL		\$ 39,592.48

DISTRIBUTION		THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES		
No.	To	Submitted By	Title	Date
2	WASO	<i>Nelson C. Short</i>	Acting Park Engineer	3/13/64
1	WODC	<i>Nelson C. Short</i>	Acting Superintendent	3/13/64
1	SW Region	<i>Nelson C. Short</i>		
1	Park Eng	<i>Nelson C. Short</i>		
1	GRCA	<i>Nelson C. Short</i>		
1	GRCA PFO	<i>John H. Williams</i>	Accounting Officer	3/13/64
		COSTS VERIFIED BY		
		<i>John H. Williams</i>		

NARRATIVE

B27-GRCA - Inner Canyon, 20 Site Campground, Cottonwood

Work was started January 1963 and completed July 1963.

Work consisted of the following items:

1. Comfort station with wash basin, two water closets and floor drain in the women's side; wash basin, one urinal, one water closet and floor drain in the men's side. The station is 18'-0" x 13'-4" with concrete slab floor, wood frame and siding, composition roof and a utility access room.
2. Septic tank - Reinforced concrete construction with capacity of 2,500 gallons.
3. One hundred and twenty feet of 4-inch and two concrete manholes; connect comfort station to septic tank.
4. Tile field consists of distribution box 3'x2'x2' and three trenches 60' long each.
5. Water system - 3,180 lineal feet of 2-inch galvanized pipe with filter box and reservoir box - each 6'x4'x4', gravity flow system with chlorinator.
6. Electrical - Comfort station completely wired for electrical power when available.

All materials and supplies were transported to the job site by Park mules. Construction was done by Park forces. Water and sewer systems designed by Park Engineer.

ACTION	
✓	Superintendent
✓	Asst. Sup't.
✓	Chief Clerk
✓	Chief Ranger
✓	Engineer
	Sanitation
	Admin. Asst.
	Naturalist
	Propose Reply
	Comment
	Your Office
	File

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico

in reply refer to
LS4 GRAN



October 30, 1951

Memorandum

To: Superintendent, Grand Canyon

From: Acting Regional Chief, Land and Recreation Planning

Subject: Water Right Application A-1878, Permit A-1192, for Waters of Bright Angel Creek, Grand Canyon National Park

There are attached a copy of Mr. Gordon Robertson's memorandum of October 9, together with a copy of Mr. Van Dunn's letter of October 1, to Arizona State Land Commissioner Lane, requesting further extension of time in which to furnish proof of beneficial use of water at the Cottonwood Camp on Bright Angel Creek in Grand Canyon National Park. A copy of the order granting the extension of time is also attached.

Please place the copy of Mr. Dunn's letter and the order granting the extension in your water right assembly covering the subject application.

Richard D. Sias
Richard D. Sias
Acting Regional Chief of
Land and Recreation Planning

Attachments 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CHICAGO, ILLINOIS

ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

September 27, 1945.

MEMORANDUM for the Regional Director, Region Three.

Reference is made to the memoranda of September 14 from Acting Superintendent Davis to you and this Office with regard to the completion of water right deed assemblies for Grand Canyon National Park.

We enclose two copies of the summary sheet relating to Deed 20 on the basis of the memorandum for you.

By attaching the original letter of April 23, 1942, from State Water Commissioner Wanslee to Mr. Bryant to our copy of the order of the same date extending time under Permit A-1093 (Deed 21) we can probably consider the assembly complete, but we should appreciate having the Superintendent make one more search for the copy of the order which bears Mr. Wanslee's actual signature.

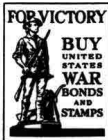
We have located a suitably signed copy of the order of November 9, 1942, extending time under Permit A-1192 (Deed 23).

We still lack the original letter of October 16, 1939, from Mr. Wanslee to Mr. Lloyd regarding Permits Nos. A-1193, A-1194, and A-1195 (Deeds 24, 25, and 26). On the other hand, we find that Mr. Wanslee's letter of August 23, 1941, to Mr. Bryant, had been received previously and filed in Deed 22 instead of Deed 28. It occurs to us, therefore, that the letter of October 16, 1939, might be in Mr. Bryant's files for any one of the three rights to which it applies. Another check would be appreciated, but these letters are only informative, so it is not absolutely essential to have the original.

If Mr. Bryant cannot find these few remaining instruments we will consider our deeds complete. The next question is whether you have succeeded in completing your assemblies.

R. O. Davis
Chief, Water Rights Division.

Enclosure 324.
In duplicate.



*Copy to Grand Canyon
well as copy to enclosure
(I don't if the enclosure is the
original or not. Can't locate
original memo of Sept 14) Pencil
12/18*

C
O
P
Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Grand Canyon National Park
Grand Canyon, Arizona

Mr. Van Dunn

JUN 10 1944

ROUTING

June 6, 1944.

MEMORANDUM for the Regional Director, Region Three.

Reference is made to Hydraulic Engineer Dunn's memorandum of June 1 to you (copy of which was air mailed to this office) concerning posting of notices of appropriating water.

On February 27, 1937, former Superintendent Tillotson wrote the Director (a copy of which was sent Attorney Taylor) in substance that the posting of notices was not required "except in unusual cases involving the appropriation of large quantities of water and where there was likely to be controversy." This is substantiated by a letter from former State Water Commissioner Stewart under date of February 17, 1937.

No posting or advertising has been done by this park in connection with any Water Rights Applications.

(--i.) John M. Davis
John M. Davis,
Assistant Superintendent.

For [unclear]

Mr. Dunn.

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
WATER RIGHTS SECTION

SAN FRANCISCO, CALIF.

601 Sheldon Building

November 25, 1942.

MEMORANDUM for the Regional Director, Region Three.

A copy of the State Water Commissioner's letter of November 19, in reply to mine of November 16, with regard to extensions of time, is enclosed. This is a very fine explanation, although he seems to have confused Toroweap Wash Lake with some Jacobs Lake. It certainly answers the questions of beginning of construction which I did not ask directly.

It would appear that all that is needed is a frank gesture to retain priorities for systems that have not been started. His letter of November 10 now seems to have the following meaning:

Application A-1878, Grand Canyon National Park -
Extension of time granted as stated because ditch
has previously been reported constructed.

Application A-1765, Grand Canyon National Park -
Protected until 1945 when further extension of time
must be requested. System has been reported complete
for present capacity.

Application A-1799, Chiricahua National Monument -
Already reported largely complete. Must request
extension of time next September.

Application A-454, Grand Canyon National Monument -
Must request extension of time in August 1944, but
it will be granted since the dam is built whether
it holds water or not.

Applications A-1880 and A-1881, Grand Canyon National Park -
Seem to have been accepted as under construction due to
some previous misunderstanding, otherwise they would have
lapsed. Why no extension is needed this Friday is not

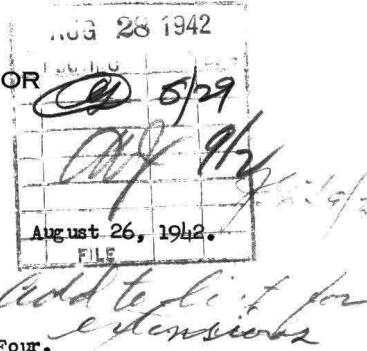
clear, but I suggest we wait for him to notify us of further needed action or until construction is ready to start. We may lose some priority, but can do nothing if construction is not started. The line from Bright Angel Creek to Garden Creek is too great a project and the diversion point is subject to such change by erosion that it would be better to sacrifice the priority than sham work.

AsVD:SH
Enclosure 2122078.

Hydraulic Engineer.

cc: Director.
Supt., Grand Canyon.
Supt., S.W. Monuments.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
GRAND CANYON NATIONAL PARK
GRAND CANYON, ARIZONA



MEMORANDUM for the Regional Director, Region Four.

Attention: Hydraulic Engineer Dunn.

Reference is made to Mr. Dunn's memorandum of August 10 relative to Water Right Applications A-1878, A-1880, and A-1881.

There have been no developments in the status of either A-1880 or A-1881 since our last memorandum concerning these applications. Neither do I believe there will be any activities in connection with them until after the war, as the Santa Fe Railroad Company seems to be totally absorbed in the war effort and has neither the time nor the force to initiate non-essential projects. An extension of time for starting construction should be requested.

Regarding the Cottonwood Application, A-1878, I most certainly am not in position to certify to a domestic consumption of 1000 gpd. and 100,000 gallons for stock in any post year. There has been no caretaker stationed at the Cottonwood Camp during the past year and all water consumption has been directly from the Creek. I can see no more extended use for water at this place until the war is over, with travel diminishing to the zero point and maintenance funds limited for the most necessary work.

An extension of time for proving full use should be requested.

H.C. Bryant
Superintendent.



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION FOUR
SAN FRANCISCO, CALIFORNIA
601 Sheldon Building

ACTION	
Superintendent	
✓ Asst. Dir.	
Chief Ranger	
Chief Clerk	
✓ Engineer	✓
Naturalist	
CCC Supt.	
Prepare Reply	✓
Comment	
Notes	

August 10, 1942.

MEMORANDUM for the Superintendent,
Grand Canyon National Park.

Our records show that Water Right Applications A-1878, A-1880, and A-1881 are due for certain proofs on November 27, 1942. Applications A-1880 and A-1881, which are due for completion of construction on that date, will require an extension of time.

Application A-1878 is for the use of water at Cottonwood Camp. There is probably no question but that 5 acre feet per acre of water have been applied to the designated 5 acres for irrigation. The question is whether you could definitely certify that people used as much as 1000 gpd on any specific days in the past few years and whether during that same year 100,000 gallons were consumed by stock.

The latter, at 10 gallons per day per horse or mule, would require an average of 27.4 head per day in camp throughout the year, or an average of 100 head a day during a season of 100 days. The stock might consume 12 to 15 gpd in hot weather.

The domestic consumption depends on what facilities may have been added during the past few years. As described in the application the rate would be about 1.5 to 2 gpd per capita, which would require a camp population of at least 500 people on the specified day. If modern comfort stations have been provided we could probably claim a consumption of 25 gpd per capita which would require a party of only 40 people.

Please advise whether you prefer to make proof or request an extension of time for this right. If you are to make proof please send us the number of people and animals during the day and year of proof and the rate of domestic consumption you wish to use. The number of people is only needed for the peak day, but the total horse days of use is needed unless you are pretty sure of the average.

Ronald S. Swan
Hydraulic Engineer.

601 Sheldon Building

June 5, 1941

MEMORANDUM for Superintendent Kittridge,
Grand Canyon National Park:

In response to your inquiry of May 27 concerning the purport of the recently enacted amendment to the Arizona Water Code known as Senate Bill No. 55, will state that you are correct in being of the opinion that it does not affect our present filings. It accomplishes the purpose for which we were striving in 1936 and 1937 under Superintendent Tillotson. In other words, we can now file for water rights for fish and wildlife purposes and use some of the designated natural reservoirs mentioned in our preliminary water rights survey of Grand Canyon.

I believe the Water Commissioner and the Water Rights Section will both be gratified to make use of the new law to enable us to make further water right filings for the protection of wildlife there.

WILLIAM H. HARRIS

Associate Attorney

cc: Regional Director, Region Three
Director

AJ:as

FILE COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION FOUR
SAN FRANCISCO, CALIFORNIA
601 Sheldon Building
March 15, 1939

Memorandum for the Director:

Reference is made to our memorandum to you of February 24, in connection with the eight applications for appropriation of water for use at Grand Canyon National Park, in which memorandum we stated that we would forward to you a print of drawing GC-5136 as soon as it could be procured, to accompany your copy of application No. A-1878.

The print mentioned has now been procured, and we enclose it herewith. With the receipt of this print, your files on the Grand Canyon water rights applications should now be in conformance with the records of this office.


Joseph E. Taylor,
Regional Attorney.

Encl.

JET:CH

CC: Regional Director, Region III.
Supt., Grand Canyon National Park. ✓

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION FOUR
SAN FRANCISCO, CALIFORNIA

601 Sheldon Building
February 24, 1939



State Water Commissioner,
State Building,
Phoenix, Arizona.

Dear Sir:

Re: Application for Permit to Appropriate
Public Waters of the State of Arizona
No. A-1878, Permit No. A-1192.

Enclosed you will please find a voucher prepared for your signature to cover the preparation of a Van Dyke negative of our map No. GC-5136 filed to accompany the above mentioned application. May we ask that you have such a negative prepared and forward it to this office at your convenience. Please complete the voucher forwarded herewith with respect to the charge made for reproduction of the negative, and with your signature attached please return to this office. We will immediately place this voucher in the proper channels for payment.

In addition, we would greatly appreciate it if you could furnish us with several copies of the following forms:

1. Certificate of Water Right.
2. Proof of Completion.
3. Proof of Application to Beneficial Use.

Thanking you in advance for your attention, I am

Yours very truly,

Joseph E. Taylor,
Regional Attorney.

Encls.

JET:SH

CC: Supt., Grand Canyon National Park.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
~~PPN~~ REGION FOUR
601 SHELDON BUILDING
SAN FRANCISCO, CALIFORNIA



December 30, 1937.

The Superintendent,
Grand Canyon National Park,
Grand Canyon, Arizona.

Dear Sir:

Reference is made to our letter under date of December 27, 1937, concerning water right applications for appropriations on Bright Angel Creek and Clear Creek, with which we forwarded maps Nos. GC-5135, GC-5136, and GC-5137.

Through an oversight we neglected to attach the application forms, and they are enclosed herewith for filing with the State Water Commissioner. We are sending the original only, inasmuch as you already have copies for your files sent you with our letters of June 21, 1937.

Sincerely yours,

Joseph E. Taylor
Joseph E. Taylor,
Regional Attorney.

February 5, 1937.

FILE COPY

Mr. A. van V. Dunn,
Associate Engineer,
Branch of Land Acquisition and
Regulation - Legal Division,
110 Sutter Street,
San Francisco, Calif.

Dear Mr. Dunn:

Reference is made to your letter of February 1 with
map enclosed.

I am returning the tracing with notations in red pencil.
Your location of Cottonwood Camp is correct, but I
can see no necessity of extending the irrigation ditch beyond
the Camp.

The location of the proposed ditch at the Clear Creek
area is approximately correct and I have shown in red the
area to be served. Evidently there was a misunderstanding
about the location north as no improvements are contemplated
there.

Sincerely yours,

M. E. Tillotson,
Superintendent.

CMC/erd

619

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Branch of Land Acquisition and Regulation
Legal Division
110 Sutter Street
San Francisco, Calif.



February 1, 1937.

Mr. M. R. Tillotson,
Superintendent,
Grand Canyon National Park,
Grand Canyon, Arizona.

Dear Mr. Tillotson:

I enclose a tracing of that portion of your park map showing Clear Creek and Bright Angel Creek.

In preparing the application for Cottonwood Camp diversion, I have sketched in the approximate length of irrigation ditch suggested by Mr. Carrel, and should like to have your check of its location, which you can make on the tracing. As I have set it, Cottonwood Camp is approximately 700 or 800 feet above the junction of the Transept and Bright Angel Canyons, and this places your proposed Fisherman's Camp approximately the same distance, or a quarter of a mile above the junction of another nameless stream. Do these distances seem approximately correct?

I seem to have become somewhat confused with regard to the Clear Creek development. On my map Mr. Carrel showed the approximate site to be on the west side of Clear Creek, and almost in line between Brahma Temple and Honan Point.

CMC
Having very little data as to the development, I called on Harry Langley for possible additional information. He advised me that there was no access to this portion of Clear Creek, and that the trail from Phantom Ranch actually hit this stream at approximately one-fourth of a mile above its mouth, and that the area probably intended for irrigation was 500 or 600 feet upstream from the trail, and on the east side of the creek. The question now arises as to whether I misunderstood Mr. Carrel, or whether there is a new development contemplated at the more northerly site, and if this is so, if there should not also be a filing in the vicinity of the end of the Phantom Ranch Trail.

In order not to have further misunderstandings, I suggest that you use the enclosed tracing for your explanations.

Sincerely yours,

A. van V. Dunn

A. van V. Dunn,
Associate Engineer.

Encl.

NATIONAL PARK SERVICE
Branch of Land Acquisition and Regulation
Legal Division

Report
On
Investigation of Water Rights
For Grand Canyon and Southwestern Monuments

By

A. van V. Dunn
Associate Engineer

San Francisco, Calif.,
December 17, 1936.

Introduction

This report constitutes a review of my activities on a trip to Arizona in connection with National Park Service water rights in that State. The trip was made in the company of Associate Attorney Albert L. Johnson, on instructions from Attorney Joseph E. Taylor of the Branch of Land Acquisition and Regulation.

We left San Francisco November 29, and returned December 11. We visited Grand Canyon, Casa Grande, Phoenix, and Los Angeles.

Grand Canyon

At Grand Canyon we found that Superintendent Tillotson was away on leave, but outlined our program to Acting Superintendent Lloyd, and arranged for an interview with Mr. Tillotson in Phoenix. We also discussed the various water systems of the Park with Park Engineer Carrel.

The desirable water rights for the Park are as follows:

1. Indian Gardens supply for South Rim, 300,000 g.p.d., which is the full flow of the source of supply. We were able to file the application on this supply while in Phoenix, and arrange for the map, which will be submitted within thirty days, after incorporating data obtained from the Santa Fe Railway Company in Los Angeles.

2. Union Pacific Hydro-electric Development on Bright Angel Creek for North Rim, 5 second feet.

3. Roaring Spring Supply for North Rim, 30,000 g.p.d. during four summer months.

Only part of the necessary data for filing on these two systems was available in the Park, so Mr. Lloyd wrote to the Union Pacific for the additional information. When this is received, maps and applications will require two to three weeks of office work.

4. Fish Hatchery (proposed) on Roaring Spring, 1/2 second foot.

5. Fifteen Impounding Dams for Wild Life, 225 acre feet, of which twelve dams are now constructed. By specifications of the State Water Code, Wild Life and Fish are not recognized as beneficial use, so that these two items are not now subject to appropriation. However, the Park can lose the water through private filings below its boundary for recognized beneficial use, and the State is anxious to liberalize its code, so it would seem highly desirable to have as much correspondence on the matter with the State as possible. Mr. Tillotson has agreed to write one letter to place his problems on record.

6. Cottonwood Camp Supply, 300 g.p.d., and irrigation of five acres. The maps and application will require a part of a week of office work.

7. Clear Creek (proposed), 100 gallons per week, and irrigation of ten acres. A preliminary application and map were prepared in the field, for use as an illustration with the Water Commission, and can be completed and filed very quickly.

8. Phantom Ranch on Bright Angel Creek, 7000 g.p.d. present use and irrigation of twenty acres. It is also proposed to divert 1/2 second foot to augment the Indian Gardens supply for the South Rim, and the Fred Harvey interests are considering a hydro-electric plant which might require an additional five or six second feet. This combined system may be partially combined with items 2 and 3, and will require approximately a month of office work. The data is now on file in the office of the Chief Engineer, but will require considerable modification for use.

Except for the developments by the Union Pacific, data for filing can now be prepared from data obtained in the interview with Mr. Carrel, or from maps in the office of the Chief Engineer.

Southwestern Monuments

In our interview with Superintendent Pinkley at Casa Grande, we discussed all Southwestern Monuments, irrespective of State boundaries. The following tabulation of Mr. Pinkley's problems is clearly more of adjustments and legal interpretations than of actual filing on rights in the various states. Without doubt, Mr. Johnson will be able to adjust many of these problems during the next few months.

1. Montezuma National Monument, Arizona:

Domestic use is from wells which are not subject to appropriation.

Beaver Creek should be appropriated for much needed irrigation. (Water from the Coolidge Dam has been refused for some reason, though the ditches bound the monument on two sides.) There is a controversy over this water, however, as there is already a diversion for an unpatented homestead, and the homesteader wishes to use the diversion as proof in his patent. Either an adjustment between the United States and this homesteader, or haste in obtaining first priority for the Park Service, seems necessary if the monument is to be protected on the irrigation of 20 acres.

2. Pipe Springs National Monument, Arizona:

These springs were first developed and used by the Mormons about 1870. An interdepartmental agreement was reached in 1933, granting 5 g.p.m. to the neighboring stockmen, 75% of the remainder (approximately 30 g.p.m.) to the Indian Service, and the remainder to the monument. Neither Mr. Pinkley nor the stockmen seems satisfied with the agreement. Disregarding the allocation of the water, further investigation is needed to determine whether proper filings have been made for appropriation by the United States.

3. Chiricahua National Monument, Arizona:

The present supply is from a spring. Further study is needed to determine whether this spring is subject to appropriation. There is also a stream which Mr. Pinkley does not regard as a necessary supply at this time. It seems possible, however, that commingling the waters of the spring and stream to make both subject to appropriation, might provide greater protection.

4. Tonto National Monument, Arizona:

A small spring on this monument does not flow beyond boundary. It has been used as watering hole, and farmers would protest fencing the area. Further investigation should be made toward protecting the monument rights.

5. Tumacacori National Monument, Arizona:

An irrigation ditch crosses the monument, but does not supply water to, or concern the monument. The monument will obtain its water from a well or precipitation.

6. Walnut Canyon, Arizona:

Water is needed, but there is only an intermittent flow in the canyon. The Santa Fe Railway Company built an impounding dam below the monument, which does not hold water. The Park Service plans a metal catchment for precipitation, but it might be well to file on an impounding dam until further study of local conditions can be made.

7. Wupatki National Monument, Arizona:

A spring of 4 to 5 g.p.m. now flows off of the monument in pipe layed in 1927 by Babbitt Brothers Sheep Company. Babbitt Brothers wish to take up the pipe, but the Park Service questions title to the pipe. Mr. Pinkley does not wish water now, but wishes to protect rights for future. He prefers having stock watered off of monument. He wishes legal advice, which Mr. Johnson will doubtless provide.

8. Kofa and Organ Pipe National Monuments, Arizona:

These prospective monuments need water. Possible sources should be studied, and appropriation made if possible.

9. White Sands National Monument, New Mexico:

It is planned to try to sink a suitable well for domestic use. The "artesian well", at the Pool of Siloam, was created by man in drilling for oil, and as such is not technically subject to appropriation.

10. Bandelier National Monument, New Mexico:

The source of supply is Frijoles Creek, which is also used by the operator to irrigate her garden in the monument. The operator claims her right through an old filing by Judge Abbott, though neither the operator nor Judge Abbott owns the land. Since it is desirable to eliminate the operator's garden, Mr. Pinkley wishes to prove the Abbott filing inactive if possible. A Park Service filing should be made, and a thorough study of its relation to the one of Judge Abbott.

11. Arches National Monument, Utah:

A small spring is to be developed, but both filing and development are dependent on acquisition of the land on which the spring is located.

12. Hovenweep National Monument, Utah and Colorado:

There is no water on the portion of the monument in Colorado, and no plan to provide any. A small spring in Utah will be needed for domestic supply, and should be filed upon. Mr. Pinkley is not sure whether the spring has been used before or not, and the matter should be investigated.

13. Yucca House National Monument, Colorado:

A small spring now serves a watering hole outside the monument by pipe. Mr. Pinkley favors maintaining the watering hole to keep stock off of the monument, but wishes to retain or establish a monument right. He has requested legal advice, which Mr. Johnson will doubtless supply.

Arizona Water Code

Portions of three days were spent in conferences with the Arizona State Water Commissioner, Mr. Stewart, and his Deputy, Mrs. Harrison, to obtain a more complete knowledge of the Code, its interpretation, and adaptation to Park Service problems.

The specific wording of the Code restricts the waters which can be appropriated to those for six uses. In the case of the parks, water for fish hatcheries and wild life watering holes cannot be recognized as beneficial use at this time. At the same time, the Commissioner wishes to liberalize the Code, and requested letters explaining the need for these uses. Superintendent Tillotson agreed to write such a letter, and it seems desirable for others to do the same if possible. Unfortunately, the number of parks and monuments with wild life problems, in Arizona, are limited.

Another complication in filing on Park Service water is the complicated system so often needed in a park, and the inadequacy of the State application form. This form was prepared previously for irrigation applications, and does not provide the mechanical flexibility for dealing with pump systems from several sources. However, Mr. Stewart approved of the use of riders until the forms can be modified.

Arizona does not recognize percolating water as subject to appropriation, but does recognize stream flow in a well defined channel, even though this water may all flow underground during much of the year. Further, springs in the bed of a stream are regarded as part of the stream, while those on a stream bank are separate springs and need separate filings unless their waters are commingled with those of the stream. Further, a spring on the stream bank which did not flow, but merely dampened the ground before development by man, is regarded as percolating water, and no more subject to appropriation than the water from a well. Precipitation or flood water, before it reaches a natural channel, belongs to the land, and is not subject to appropriation. Yet appropriation is necessary for storage, even though only in a tank or small reservoir. These interpretations make it difficult to treat many of the proposed park filings, but the Commission is anxious to liberalize its Code, and glad to accept questionable cases for submission to the State Supreme Court.

Water used prior to 1919, prior to the adoption of the Water Code, has valid rights when the use can be proved. Even though the Park Service did not make active use before that date, many of its rights are going to be influenced by earlier private use. The situation at Pipe Springs is a good example, though it cannot be fully understood until the interdepartmental agreement is studied by Mr. Johnson.

Municipal use has not been fully settled in Arizona. The Commissioner agreed that many parks have use more nearly like that of a municipality than is considered under domestic use. He has also allowed a small summer colony to file an application for municipal use, even though the 500 inhabitants are only there three months out of the year. On this basis, we have been advised to file on "Municipal and Domestic Use" for the North and South Rim Systems at Grand Canyon, in order to permit anticipating future increased demands. The acceptance of the application will then be up to the State Supreme Court, but in any case, priority will date from the date of the application by the Park Service.

Applications

On December 9, while Superintendent Tillotson was in Phoenix, an application was filed on the Indian Gardens water supply for the South Rim of Grand Canyon. The map to accompany this application will be filed within the next thirty days. It needed certain additions, the data for which was obtained from the Santa Fe Railway Company in Los Angeles on the return trip to San Francisco.

Conclusions

From the data obtained, two types of problems are involved in the water right filings for Arizona. Grand Canyon requires a great deal of routine work to be done in compiling the necessary maps. There is full justification for a draftsman to prepare the complicated tracings. There are between two and three months steady work for a draftsman and myself. Although the Southwestern Monuments will also require maps, they will be relatively simple in comparison with the legal investigations with which Mr. Johnson is more familiar.

CC: Director.
Mr. Tillotson.
Mr. Pinkley.
Mr. Kittredge.
Mr. Dunn.

FILE COPY

November 21, 1936.

Mr. M. E. Tillotson,
Superintendent,
Grand Canyon National Park,
Grand Canyon, Arizona.

Dear Mr. Tillotson:

We have just had additional instructions from Washington to file on water rights at Grand Canyon as soon as possible, and Mr. Dunn is now preparing certain plans in accordance with the State requirements for such filings. We find, however, that certain additional data and explanation will be necessary before completing the necessary papers for these filings, and should appreciate your check of quantities.

We propose to file on 323,000 gallons a day at Indian Gardens for the South Rim water system, and we have the data necessary for the map for such filings except that the line should be tied to a section corner. We find that you have located the corner common to Sections 23, 24, 25, and 26 on the topography of the golf course area south of the administration area. We should appreciate the coordinates which Mr. Carrell used for plotting this section corner and those for the center of the large storage reservoir or of station 0+00 of the Harvey pipe line on the valve box on this reservoir in order that we may compute a tie to the section corner. We must also know the type of pump and motor and their capacities at each the main pump station and the rehandling station in Indian Gardens.

On the North Rim we should like to combine several of the water rights if possible, but are somewhat uncertain as to the practicability. As we understand it, the Union Pacific hydro plant and Phantom Ranch areas both derive their water from Bright Angel Creek, and it might be possible to cover them with one filing even though there would be two points of diversion. The quantity of water would be 5 second feet for the hydro electric power and 1-1/3 second feet for Phantom Ranch. Of this latter, 1/2 second foot or 323,000 gallons a day to be for domestic use, and the balance for irrigation, with the idea that some of the irrigation water might later be converted to domestic use to augment the supply from Indian Gardens and the South Rim.

In order to file on any of this water for irrigation we will have to show an adequate acreage to justify the quantity, and should appreciate an estimate of the land that can be so irrigated.

In preparing the maps for the Bright Angel rights we will have to obtain maps showing the actual alignment and points of diversion as they have been constructed, and find no such data in the office of the Chief Engineer. Probably a print of the Union Pacific maps for the hydro plant and the Harvey map at Phantom Ranch would supply this data.

In addition we should know the size of penstock, theoretical horse power of the generator unit and types of wheel and generator used the size and description of the pumps and motors and size of pipe at Phantom Ranch, also the size of ditch, grade, and type of diversion works used on the irrigation system.

We are not quite clear on the use of Roaring Springs, but rather that it is used for all domestic water on the North Rim, and is to be used in the near future for a fish hatchery besides, and that you recommended a half second foot as the quantity. We find, though, that the flow is approximately $7\frac{1}{2}$ second feet, and wonder if it would not be better to file on 1 or 2 second feet in order to have ample supply in the future. In order to prepare the necessary papers for this filing, we shall need a plan or map of the existing water system and descriptions of pumps and motors as described for the other systems above mentioned.

At Clear Creek Canyon we propose to file on $1\frac{1}{4}$ second foot for domestic and irrigation purposes if you think that is ample for all future needs, but we will need a map giving pipe lines and diversion works to complete our filings on this system.

We are planning to file on all impounding reservoirs for wild life as one filing to include twelve such dams or reservoirs on the South Rim and four on the North, with 165 acre feet on the South Rim and 6 acre feet on the North. To complete these filings we should have an approximate storage capacity for each individual reservoir, and the dimensions of the dam in each case.

We notice, too, in your descriptions of those on the South Rim including those at Ermanita Mesa, Horse Thief, Pasture Wash, etc., you have given their location in quarter sections. The State requires locations by 40-acre subdivisions where possible, and we wonder if you could supply this additional data. In any case we will need some means of locating those you contemplate on the North Rim and the name for each.

We notice you also wish to file on 50 gallons a minute from various springs on the North Rim for wild life purposes, and we should have specific locations and descriptions of the proposed diversions in these cases. In this connection we also have a record of the possible source of supply at Neal Spring, but no data as to what this use was to be or the quantity of water contemplated.

Mr. Dunn and I are planning to be in Arizona shortly after Thanksgiving to discuss some matters with the State Water Commissioner, and can probably have some of the questionable matters listed above explained at that time if we stop at Grand Canyon, but we should like to have as much explained by letter as possible in order that we can have our filings in rough form when we come south.

Inasmuch as the hydro plant and domestic water supply for the North Rim belong to the Union Pacific Railroad, and those at the South Rim and Phantom Ranch belong to the Fred Harvey Company, we wonder if it will not be possible for you to get them to pay the filing fees necessary for these systems.

Sincerely yours,

A. van V. D. SH

Albert L. Johnson,
Associate Attorney.

CC: C. M. Carrel, Park Engr.
A. van V. Dunn, Assoc. Engr.

668-057
FILE COPY

November 7, 1936.

The Director,
National Park Service,
Washington, D. C.

Dear Mr. Director:

As suggested by Mr. Tolson while in San Francisco and as authorized by you, Mr. Johnson was specially assigned to search land titles in the Land Registry Office at Los Angeles for the determination of possible land exchanges at Joshua Tree National Monument. Mr. Johnson has filed his report in duplicate with the Branch of Engineering here in San Francisco, and I assume you will receive a copy through that office.

It was deemed more economical to have Mr. Johnson proceed from Los Angeles to Grand Canyon to prepare the ground work for proper filings for that park, and the result of his short stay there is outlined in his memorandum to me of November 6, a copy of which is herewith enclosed.

It occurs to me that now is an opportune time to make proper filings for Grand Canyon National Park for the reason that the State of Arizona should welcome all appropriative filings and beneficial use of water within its boundaries as an aid to adding greater merit to its position in its contest with the six signatory States to the Colorado River Compact. This fact presents an opportunity for generous filings wherever necessary in Arizona, which I feel should not be allowed to pass.

As stated in the last paragraph of Mr. Johnson's memorandum, we will proceed with filings for Grand Canyon, and at the same time make a determination as to any other necessary Arizona filing.

Yours very truly,

Encl.
JST:ld

Joseph E. Taylor,
Attorney.

CC: Asst. Pittotson.
Mr. Kittredge.

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
BRANCH OF LANDS AND USE
110 SUTTER STREET
SAN FRANCISCO, CALIF.

November 6, 1936.

MEMORANDUM TO MR. JOSEPH E. TAYLOR:

Pursuant to advice from you I made an inspection trip last week to Grand Canyon National Park for the purpose of learning the latest developments on their water rights. It was thought it would be more economical to make this trip from Los Angeles at the conclusion of my special assignment on searching land titles in the Land Registry Office at Los Angeles pertaining to the Joshua Tree National Monument.

Being advised by you and also by the Acting Superintendent of Grand Canyon that Superintendent Tillotson was away from the Park during the first part of my fifteen-day stay in Los Angeles, I wrote the Park asking them to keep me advised as to the date of his expected return. I received word from the Assistant Superintendent about October 21 that Mr. Tillotson would probably be in the Park the last week in October, and asking me to wire when I could come; so I telegraphed on October 26 stating that I would be through with the work in the Land Office on the 27th of October. The Assistant Superintendent telegraphed me to wire them time of arrival. On Tuesday, October 27, I wired that I would leave the next day and be there Thursday morning.

Immediately upon my arrival at Grand Canyon National Park I went to the Superintendent's office and called on Mr. Tillotson in person. He seemed surprised at my arrival, and had no suggestions to offer. However, I learned from him and from the Park Engineer the following day that the status of water rights was the same as when you were in the park in 1935. You and the Park Engineer had then agreed upon a number of filings -- at least six -- which would be required for laying the foundation and perfecting the rights to water now used by the National Park Service at Grand Canyon. I agree that these filings should be made, although there has been no disturbance of the Government water rights nor protest by any private interest. The Superintendent seemed well satisfied that there was no possibility, either physical or legal, of interference with the Government's water rights, although he stated he was not familiar with Arizona law. There are only three or four private owners on the South Rim within the boundary of the national park, but I understood from my short investigation there that those private owners were very jealous of the Government's rights and chary of the National Park Service.

Since the status of affairs at Grand Canyon National Park is largely the same as in 1935 when you made a preliminary investigation, and it is agreed by the attorneys and the Park Engineer that it would be better for the Service to make these filings with the constituted water authority of the State of Arizona, we are about to prepare the necessary applications for the Superintendent to sign, and will then file in person at Phoenix, Arizona. It will be necessary to make a further investigation at the Park and at Phoenix to complete the engineering data for the applications to appropriate water.


Albert L. Johnson,
Associate Attorney.

CC: Director.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
GRAND CANYON NATIONAL PARK
GRAND CANYON, ARIZ.

June 3, 1935

Joseph E. Taylor, Attorney
Yellowstone National Park
Wyoming

Dear Mr. Taylor:

With reference to our recent conversation and discussions relative to the securing from the State of Arizona water rights for Grand Canyon National Park and Grand Canyon National Monument, I wish to make the following recommendations:

1. That a complete survey of the records be made to determine what, if any, prior filings for water rights in this Park and the Monument are recorded;

2. That necessary filings for water rights for both this Park and the Monument be made at the earliest possible date;

3. That, to insure an adequate water supply for the South Rim from the springs at Indian Gardens, filing should be made for 200,000 gallons per day. To provide for the possibility of failure of the Indian Gardens springs and the necessity of procuring this supply from Bright Angel Creek, filing should be made for one and one-third second feet. This will provide water not only for the South Rim but also all use at Phantom Ranch;

4. That filing should be made for 150 acre feet of run-off water on the South Rim from various tributaries of the Colorado River, which is and will be impounded for the purpose of caring for wildlife, and domestic use at outlying stations where direct precipitation is caught on galvanized catchment areas and stored in reservoirs;

5. That filing should be made for one-half second feet of water from Roaring Springs to provide an adequate supply for use at the North Rim Headquarters Area and for a proposed fish hatchery in Roaring Springs Canyon. It will also be necessary to file for five second feet from Bright Angel Creek for hydroelectric power development at mouth of Manzanita Creek. A

*Domestic -
Proposed fish hatchery -*

*1/2 second feet domestic
use - 1 1/2 sec. ft. (?)*

portion of this will again be utilized for domestic and irrigation purposes at Cottonwood camp, one mile below the power plant;

6. That filing should be made for one-quarter second feet of flow from Clear Creek for domestic and irrigation purposes at camp ground to be established in Clear Creek Canyon on the north side of the Colorado River;

// -7. That filing should be made for fifty gallons per minute from various springs on the North Rim for preservation and propagate wildlife. Also, filing should be made for six acre feet per year of precipitation and run-off for domestic and wildlife purposes. ⑦ - ~~15~~

Referring to item (3), providing for an additional water supply for the South Rim Headquarters Area from Bright Angel Creek, would advise that in my answer of February 20, 1935, to a letter from the Director of February 7, 1935, I made mention of the feasibility of this project, estimated to cost some \$100,000.00. As stated in my letter, this would be a very expensive piece of construction and would require, probably, two years to install.

In this same letter, I touched upon the necessity of renewing the present two inch line now serving Phantom Ranch from Bright Angel Creek with a three inch line and, also, the advisability of relocating the two inch line serving the C. C. C. camp from the Creek bed to connect with the Phantom Ranch line at the existing reservoir.

Item (4) provides for run-off or flood waters carried by various draws lying to the southwest, south, and southeast of the South Rim Headquarters, in which twelve dirt and log dams have been constructed to impound these waters in dirt tanks for wildlife use. Three more dams and tanks are proposed for construction but not programmed. This item also provides for impounding direct precipitation for domestic use at Pasture Wash and Desert View.

Item (5) provides for water necessary for domestic use and fire protection of the North Rim Headquarters Area, jointly occupied by the Union Pacific Railroad and the National Park Service. Provision is also made for the use of water for a proposed fish hatchery as mentioned in my letter to the Director of February 20, 1935. In addition to these, it is necessary to provide water from Bright Angel Creek for hydroelectric power, diversion occurring one-half mile above the power plant by means of a 26" wood stave penstock and returning to the Creek at the plant. This electric energy is transmitted to the North Rim Headquarters Area and jointly used

by the Union Pacific Railroad and National Park Service.

Diversion of this water again occurs one mile below the power plant at Cottonwood by means of irrigation ditches and pipe.

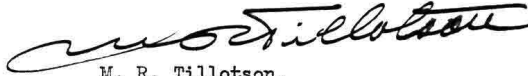
Item (6) makes provision for the use of water flowing in Clear Creek to be utilized for domestic and irrigation purposes. A new trail has just been completed from Phantom Ranch to Clear Creek, and it is proposed to establish a fisherman's camp in the Clear Creek Canyon, providing the usual camp facilities.

Item (7) embraces certain live springs on the North Rim, some of which have been developed, and others in their natural state. Little or no new development is contemplated but the flow in these springs should be protected for wildlife.

Filing for 920 acre feet has been made for run-off and flood waters from Toroweep Valley in Grand Canyon National Monument. It is estimated that this will be sufficient for present and future needs for domestic use at the Headquarters Area, and wildlife purposes.

Two corrected copies of your tabulations are herewith returned.

Very truly yours,

A handwritten signature in dark ink, appearing to read "M. R. Tillotson", written in a cursive style.

M. R. Tillotson,
Superintendent.

cc-Mr. Taylor
The Director

Maps and Miscellaneous Information

Docket Information