

0006

COAL SYSTEMS, Inc.

CONSULTANTS/ENGINEERS

L. G. MANWARING, P.E.
PresidentP.O. BOX 17117
SALT LAKE CITY, UTAH 84117

October 19, 1989

Area Code 801
261-4500

Mr. Rick Summers and Mr. Randy Harden
Division of Oil, Gas, and Mining
355 West North Temple
Salt Lake City, Utah 84180-1203

*AG/007/012**Folder # 2*

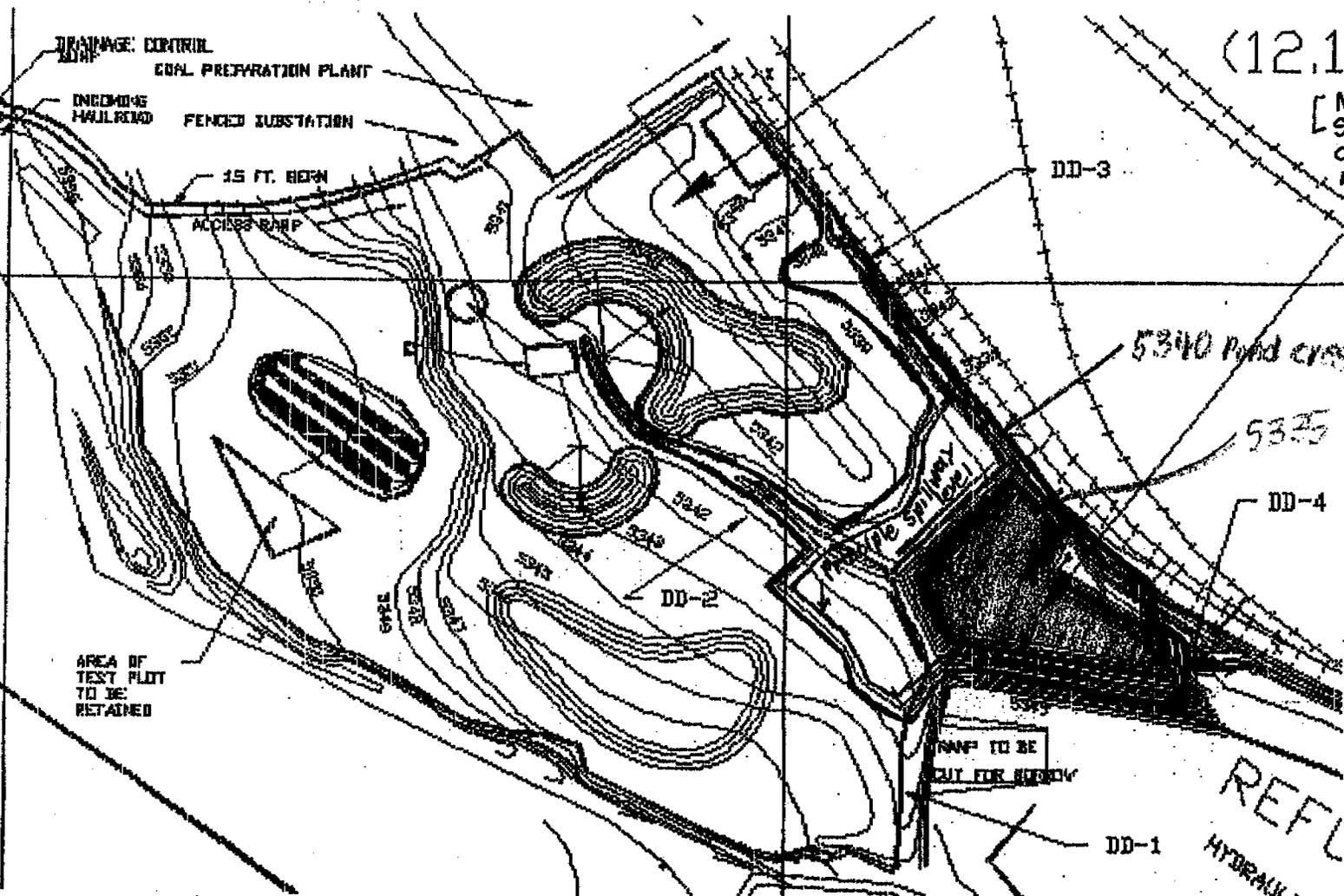
Dear Mr. Summers and Mr. Harden,

These quick sketches show the modified sediment pond design. As can be seen, the pond is no longer totally incised. It has been raised 3 feet and made only 5 feet deep. The area of disturbance is as before. As can be seen from the stage volume curve capacities are as before and meet regulations. Spillway and decant designs are unchanged except in elevation. Dikes will be made of clay material from the pond bottom and typical sections have been sketched with this submittal. The Pad area has been locally cut down to increase pond volume but the pad has not been raised or otherwise changed. The new permit submittal and as built drawings will reflect these changes. Please let me know if we can proceed with this minor design change.

Sincerely,

COAL SYSTEMS, Inc.

Bradley C. Paul, Ph. D
Mining Engineer



(12.1

[Note that new contours are super-imposed on old contours to show extent of modification.]

REFL
HYDRAUL

004

COAL SYSTEMS INC

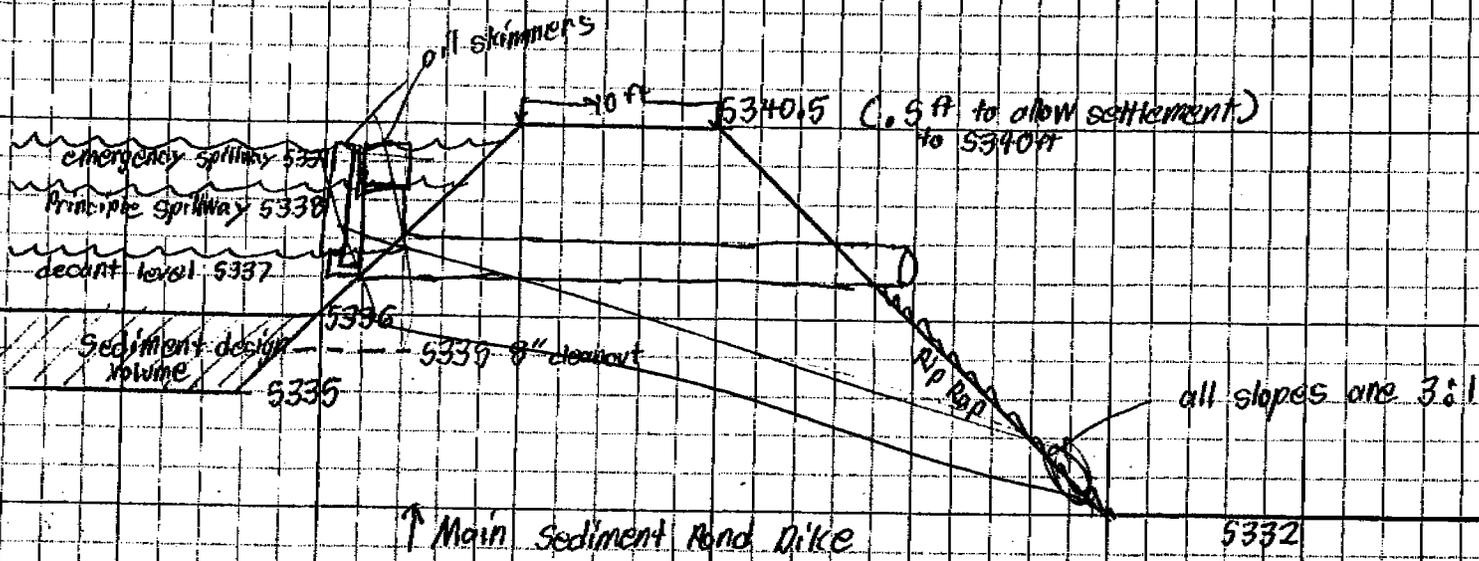
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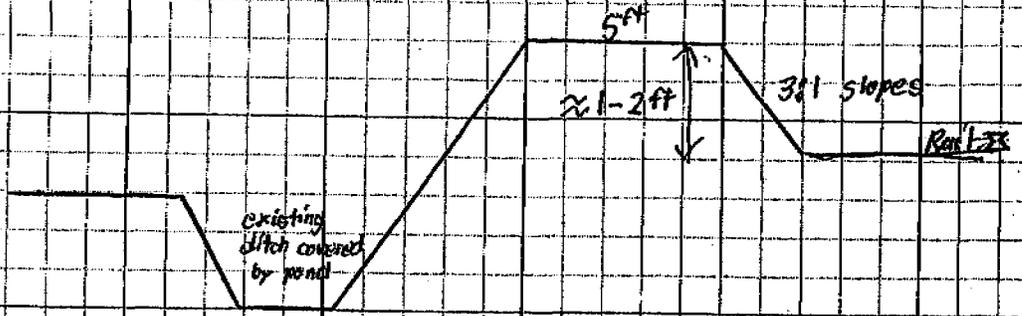
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Spillway design as before only elevations differ



↑ Main Sediment Pond Dike

Typical Dike Along Railway



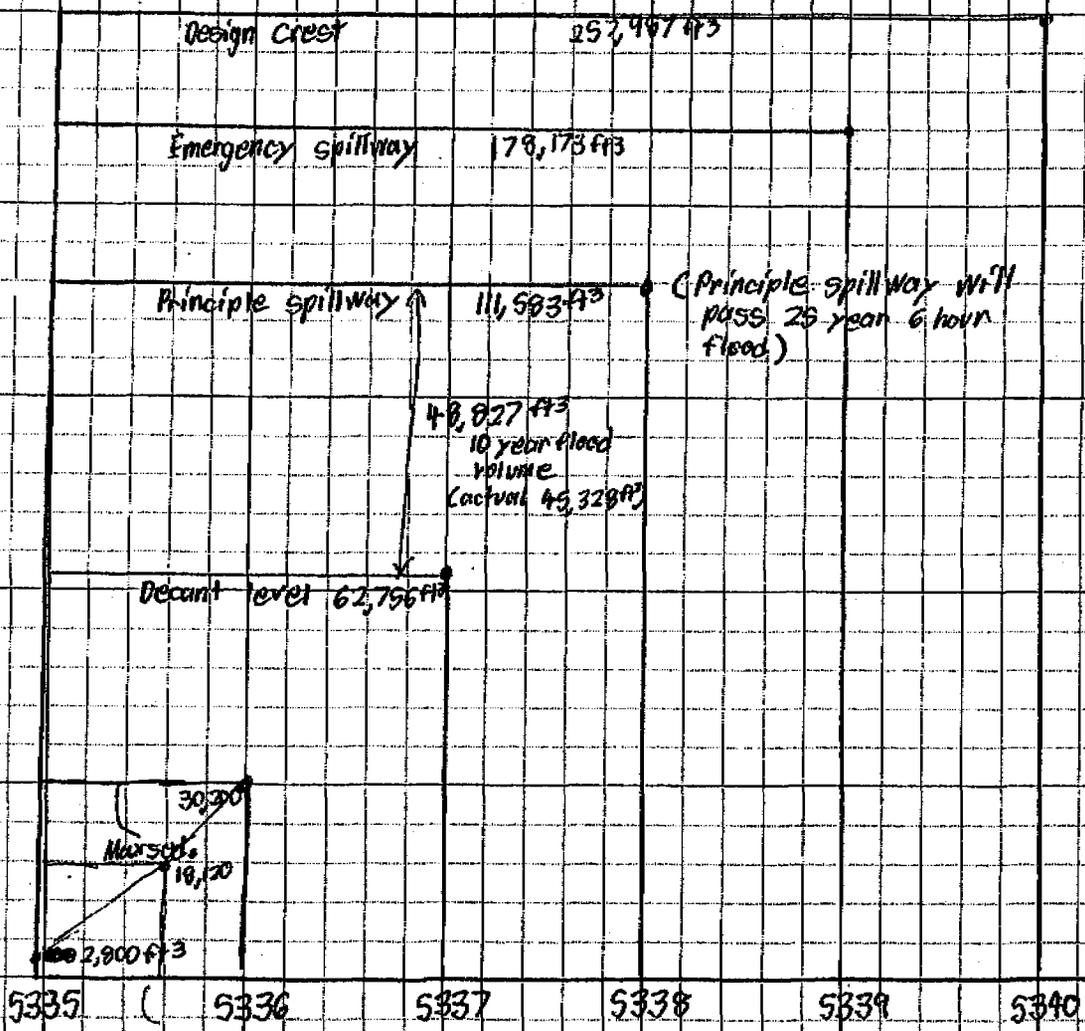
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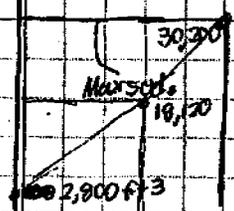
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Stage Volume - Wellington Sedpond



(Principle spillway will pass 25 year 6 hour flood.)

48,827 ft³
10 year flood volume
(Actual 49,329 ft³)



5335 5336 5337 5338 5339 5340

5335' 8" Clearout

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FAX COVER SHEET

Date October 19, 1989
Fax To Rick Summers and Randy Harden
Company DOGM
Fax # 359-3940
Phone # _____
No. Pages (Including Cover Sheet) 5
FAX FROM Bradley C. Paul
SUBJECT Sediment pond changes
JOB # _____

COMMENTS:

If all pages are not received or did not transmit well, please call 801-261-4500.



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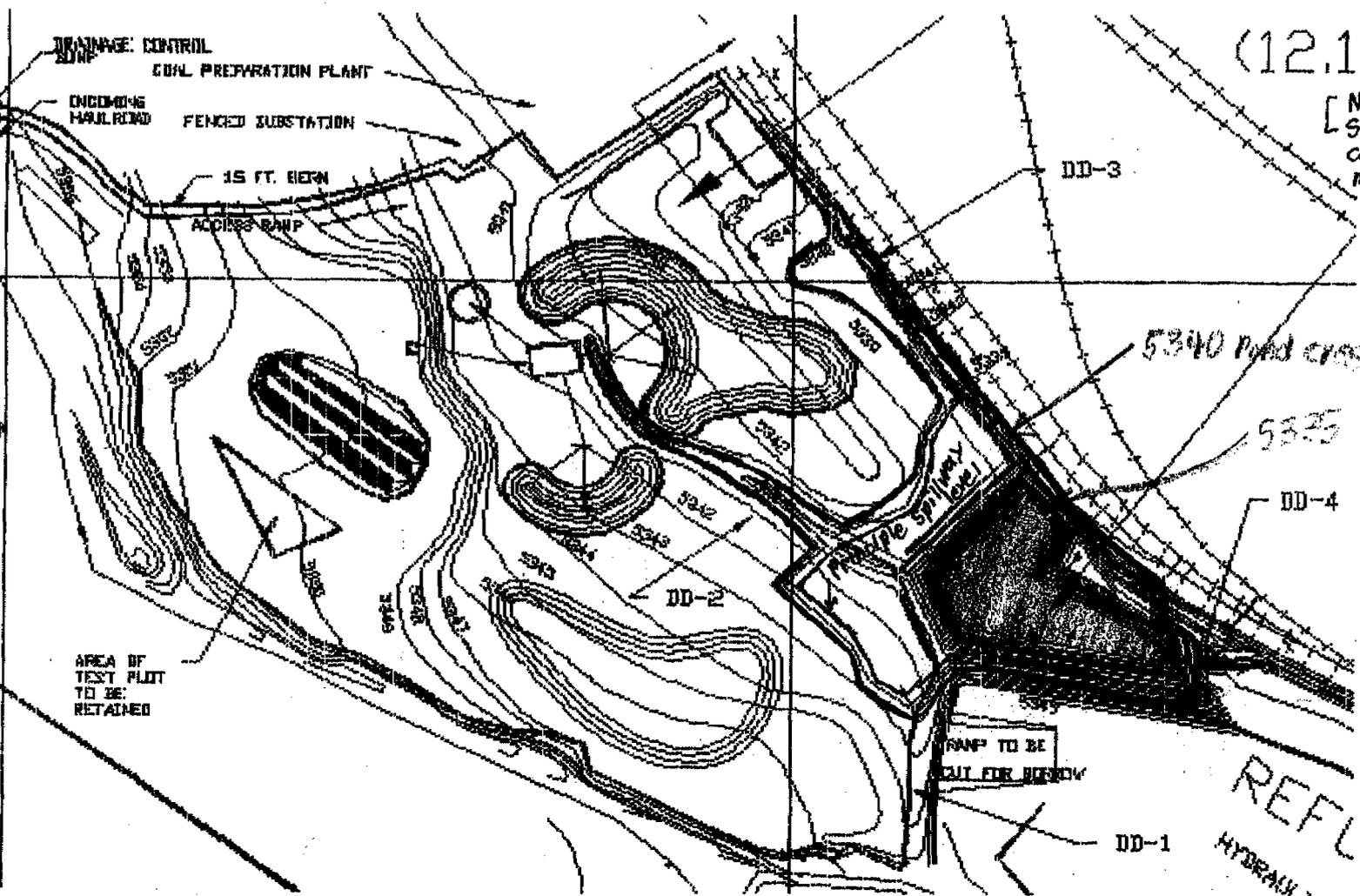
Sincerely,

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Bradley C. Paul, Ph. D
Mining Engineer





(12.1

[Note that new contours are super-imposed on old contours to show extent of modification.]

5340 Pond crest

5335 Pond bottom

REFL
HYDRAUL

RAMP TO BE
CUT FOR HIGHWAY

AREA OF
TEST PLOT
TO BE
RETAINED

004

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4579

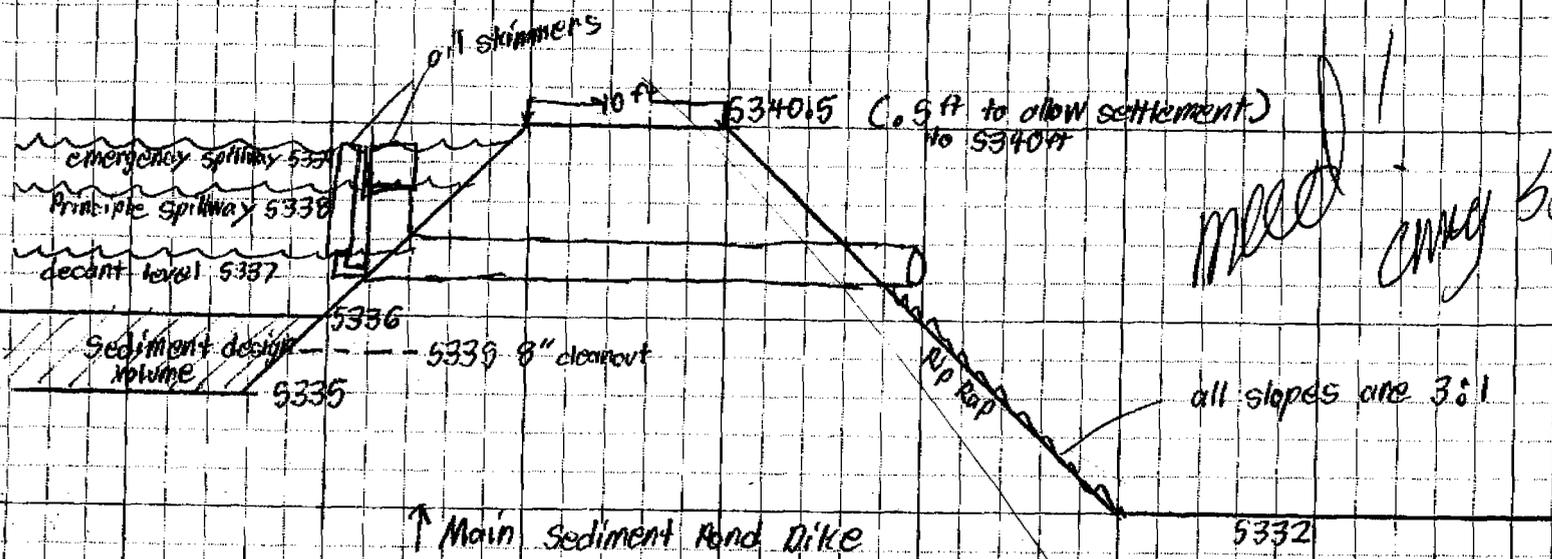
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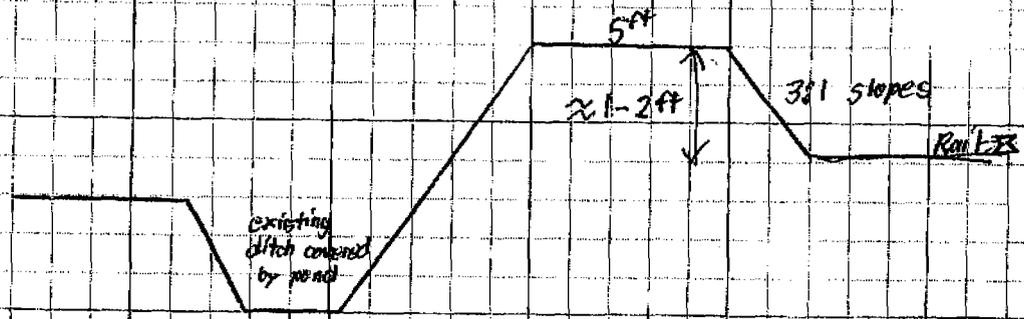
10/19/89

Spillway design as before only elevations differ

need emergency spill design w/ rap to dissipate



Typical Dike Along Railway



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10/19/69

Stage Volume - Wellington Sedpond

