

ASR License No. _____
(ASSIGNED AFTER FILING)

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AUG 02 2000

WATER RESOURCES DEPT.
SALEM, OREGON

**STATE OF OREGON
WATER RESOURCES DEPARTMENT
APPLICATION FOR LIMITED WATER USE LICENSE
FOR
AQUIFER STORAGE AND RECOVER (ASR)**

Applicant(s): _____ Clackamas River Water _____
Contract Person: _____ Greg Drechsler, P.E. _____
Mailing Address: _____ 16770 SE 82nd Drive _____
_____ Clackamas OR 97015 503.722.9225 _____
City State Zip Phone

1. **DATE(S) OF PRE-APPLICATION CONFERENCE(S):** February 2, 2000

INFORMATION REGARDING ASR TESTING UNDER A LIMITED LICENSE

2. **SOURCE OF INJECTION WATER for ASR:** Clackamas River
a tributary of Willamette River

3. **MAXIMUM DIVERSION RATE:** 3 cfs

4. **MAXIMUM INJECTION RATE AT EACH WELL(S):** 2000 gpm at CRW-1,
rate at additional wells dependent upon future testing

5. **MAXIMUM STORAGE VOLUME:** 200 MG

6. **MAXIMUM STORAGE DURATION:** 1 year

7. **MAXIMUM WITHDRAWL RATE AT EACH WELL(S):** 2000 gpm at CRW-1,
rate at additional wells dependent upon future testing

8. **LICENSE TERM OR DURATION SOUGHT (5 year maximum):** 5 years

9. **PROPOSED USE OR DISPOSAL OF RECOVERED WATER:** Initially, disposal
to storm drain, subsequent testing will provide municipal use.

10. **IF CONTINGENCIES PRECLUDE THE USE IN ITEM 8, SPECIFY AN**
ALTERNATIVE USE OR DISPOSAL OF THE RECOVERED WATER: Sanitary
or storm drain

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INFORMATION REGARDING THE ULTIMATE ASR PROJECT
AS CURRENTLY ANTICIPATED

- 11. SOURCE OF INJECTION WATER for ASR: Clackamas River
a tributary of Willamette River
- 12. MAXIMUM DIVERSION RATE: 5 cfs
- 13. MAXIMUM INJECTION RATE AT EACH WELL(S): 2000 gpm
- 14. MAXIMUM STORAGE VOLUME: 400 MG
- 15. MAXIMUM SROAGE DURATION: 1 year
- 16. MAXIMUM WITHDRAWAL RATE AT EACH WELL(S): 2000 gpm

Note: The materials required by rule for an ASR limited license are extensive. The items on this sheet consist of those outlined in OAR 690-350-020(2) and (3)(a)(A-E). Please consult the rule and provide as attachments to this form the other requirements in OAR 690-350-020(3)(a).

Signature of Applicant *Gregory J. Dechard* Date 8/1/2000
Title DISTRICT ENGINEER

This page to be completed by the local Watermaster.

WATER AVAILABILITY REPORT-SURFACE WATER APPLICATION

Name of Applicant Clackamas River Water Application Number _____

1. To your knowledge, has the stream or basin that is the source for this application ever been regulated for prior rights?

Yes _____ No

If yes, please explain.

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2. Has the stream or basin that is the source for this application ever been regulated for minimum streamflows?

Yes _____ No to my knowledge

If yes, please explain.

3. Do you observe this stream system during regular field work?

Yes No _____

If yes, what are your observations for the stream.

The POD is near the mouth and I have not observed the area dry, water has been in the river. POD is below Scenic Water Way boundary. Historic flow data suggests water is available.

4. Based on your observations, would there be water available in the quantity and at time needed to supply the development proposed by this application.

Yes No _____ Don't Know

What would you recommend for conditions on a permit that may be issued approving this application?

Meters^{to be} installed.

Record of use submitted @ end of each cycle.

The POD must be below the Scenic Water Way.

5. Any other recommendations you would like to make?

Signature William E. Feltus

WM District # 16

Date 7.24.2000

WATER AVAILABILITY TABLE

Stream: CLACKAMAS R > WILLAMETTE R - AT MOUTH
 Basin: WILLAMETTE
 Watershed ID Number: 80 (and Nested Subbasins)
 Time: 13:15
 Exceedance Level: 80
 Date: 07/06/2000

| Item # | Watershed ID # | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Sto |
|--------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 181 | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| 2 | 80 | YES | YES | YES | YES | YES | YES | NO | NO | NO | NO | YES | YES | YES |

STREAM NAMES

Basin: WILLAMETTE
 Watershed ID Number: 80 (and Nested Subbasins)
 Time: 13:16
 Date: 07/06/2000

| Item | Watershed ID | Stream Name |
|------|--------------|---------------------------------------|
| 1 | 181 | WILLAMETTE R > COLUMBIA R - AT MOUTH |
| 2 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH |

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 SALEM, OREGON

LIMITING WATERSHEDS

Stream: CLACKAMAS R > WILLAMETTE R - AT MOUTH
 Watershed ID Number: 80
 Basin: WILLAMETTE
 Time: 13:16
 Exceedance Level: 80
 Date: 07/06/2000

| Mnth | Limiting Watershed | Stream Name | Water Avail? | Net Water Available |
|------|--------------------|---------------------------------------|--------------|---------------------|
| 1 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | YES | 1410.0 |
| 2 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | YES | 1640.0 |
| 3 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | YES | 1540.0 |
| 4 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | YES | 1750.0 |
| 5 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | YES | 1450.0 |
| 6 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | YES | 332.0 |
| 7 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | NO | -319.0 |
| 8 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | NO | -362.0 |
| 9 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | NO | -330.0 |
| 10 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | NO | -370.0 |
| 11 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | YES | 367.0 |
| 12 | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | YES | 1390.0 |
| Stor | 80 | CLACKAMAS R > WILLAMETTE R - AT MOUTH | YES | 1230000.0 |

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION

Stream: WILLAMETTE R > COLUMBIA R - AT MOUTH
 Basin: WILLAMETTE
 Watershed ID Number: 181
 Time: 13:16
 Exceedance Level: 80
 Date: 07/06/2000

| Month | Natural Stream Flow | CU + Stor Prior to 1/1/93 | CU + Stor After 1/1/93 | Expected Stream Flow | Reserved Stream Flow | Instream Water Rights | Net Water Available |
|-------|---------------------|---------------------------|------------------------|----------------------|----------------------|-----------------------|---------------------|
| 1 | 27500.00 | 484.00 | 204.00 | 26800.00 | .00 | 1500.00 | 25300.00 |
| 2 | 30000.00 | 3530.00 | 200.00 | 26300.00 | .00 | 1500.00 | 24800.00 |
| 3 | 28500.00 | 4600.00 | 188.00 | 23700.00 | .00 | 1500.00 | 22200.00 |
| 4 | 25400.00 | 4420.00 | 179.00 | 20800.00 | .00 | 1500.00 | 19300.00 |
| 5 | 20700.00 | 2170.00 | 187.00 | 18300.00 | .00 | 1500.00 | 16800.00 |
| 6 | 11000.00 | 1260.00 | 379.00 | 9360.00 | .00 | 1500.00 | 7860.00 |
| 7 | 6280.00 | 1640.00 | 394.00 | 4240.00 | .00 | 1500.00 | 2740.00 |

| | | | | | | | |
|------|----------|---------|--------|----------|-----|---------|----------|
| 8 | 4890.00 | 1460.00 | 363.00 | 3070.00 | .00 | 1500.00 | 1570.00 |
| 9 | 4930.00 | 1090.00 | 338.00 | 3500.00 | .00 | 1500.00 | 2000.00 |
| 10 | 5990.00 | 355.00 | 140.00 | 5490.00 | .00 | 1500.00 | 3990.00 |
| 11 | 12700.00 | 376.00 | 161.00 | 12200.00 | .00 | 1500.00 | 10700.00 |
| 12 | 24800.00 | 430.00 | 201.00 | 24200.00 | .00 | 1500.00 | 22700.00 |
| Stor | 19700000 | 1310000 | 176000 | 18200000 | 0 | 1080000 | 17200000 |

DETAILED REPORT OF CONSUMPTIVE USES AND STORAGES

Stream: WILLAMETTE R > COLUMBIA R - AT MOUTH

Basin: WILLAMETTE

Watershed ID Number: 181

Time: 13:16

Date: 07/06/2000

| Mo | Storage | Irrig | Munic | Ind/Man | Commer | Domest | Agricul | Other | Total |
|----|---------|---------|--------|---------|--------|--------|---------|-------|---------|
| 1 | 217.00 | .00 | 333.00 | 99.50 | 4.39 | 23.60 | 8.39 | 2.50 | 688.00 |
| 2 | 3250.00 | .00 | 333.00 | 99.50 | 4.39 | 23.60 | 8.39 | 2.50 | 3730.00 |
| 3 | 4310.00 | 6.46 | 333.00 | 99.50 | 4.39 | 23.60 | 8.39 | 2.50 | 4790.00 |
| 4 | 4090.00 | 41.90 | 333.00 | 99.50 | 4.39 | 23.60 | 8.39 | 2.50 | 4600.00 |
| 5 | 1600.00 | 291.00 | 329.00 | 99.50 | 4.39 | 23.60 | 8.39 | 2.50 | 2360.00 |
| 6 | 13.00 | 585.00 | 907.00 | 99.30 | 4.24 | 23.60 | 8.39 | 2.50 | 1640.00 |
| 7 | .10 | 1000.00 | 904.00 | 94.00 | 4.24 | 23.60 | 8.39 | 2.50 | 2040.00 |
| 8 | .05 | 783.00 | 904.00 | 94.00 | 4.24 | 22.20 | 8.39 | 2.50 | 1820.00 |
| 9 | .06 | 388.00 | 901.00 | 99.20 | 4.24 | 22.20 | 8.39 | 2.50 | 1430.00 |
| 10 | .15 | 27.70 | 331.00 | 99.30 | 4.24 | 22.20 | 8.39 | 2.50 | 495.00 |
| 11 | 65.90 | .00 | 333.00 | 99.30 | 4.39 | 23.60 | 8.39 | 2.50 | 537.00 |
| 12 | 160.00 | .00 | 333.00 | 99.50 | 4.39 | 23.60 | 8.39 | 2.50 | 631.00 |

DETAILED REPORT OF RESERVATIONS FOR CU

Stream: WILLAMETTE R > COLUMBIA R - AT MOUTH

Basin: WILLAMETTE

Watershed ID Number: 181

Time: 13:16

Date: 07/06/2000

| APP # | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TOTAL |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 2 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 3 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 4 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 5 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 6 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 7 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 8 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 9 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 10 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 11 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 12 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

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DETAILED REPORT OF ISWRs

Stream: WILLAMETTE R > COLUMBIA R - AT MOUTH

Basin: WILLAMETTE

Watershed ID Number: 181

Time: 13:16

Date: 07/06/2000

| APP # | 181A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MAXIMUM |
|--------|-------|---|---|---|---|---|---|---|---------|
| Status | Cert. | | | | | | | | |

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WATER RESOURCES DE SALEM, OREGON

| | | | | | | | | |
|----|---------|-----|-----|-----|-----|-----|-----|---------|
| 1 | 1500.00 | .00 | .00 | .00 | .00 | .00 | .00 | 1500.00 |
| 2 | 1500.00 | .00 | .00 | .00 | .00 | .00 | .00 | 1500.00 |
| 3 | 1500.00 | .00 | .00 | .00 | .00 | .00 | .00 | 1500.00 |
| 4 | 1500.00 | .00 | .00 | .00 | .00 | .00 | .00 | 1500.00 |
| 5 | 1500.00 | .00 | .00 | .00 | .00 | .00 | .00 | 1500.00 |
| 6 | 1500.00 | .00 | .00 | .00 | .00 | .00 | .00 | 1500.00 |
| 7 | 1500.00 | .00 | .00 | .00 | .00 | .00 | .00 | 1500.00 |
| 8 | 1500.00 | .00 | .00 | .00 | .00 | .00 | .00 | 1500.00 |
| 9 | 1500.00 | .00 | .00 | .00 | .00 | .00 | .00 | 1500.00 |
| 10 | 1500.00 | .00 | .00 | .00 | .00 | .00 | .00 | 1500.00 |
| 11 | 1500.00 | .00 | .00 | .00 | .00 | .00 | .00 | 1500.00 |
| 12 | 1500.00 | .00 | .00 | .00 | .00 | .00 | .00 | 1500.00 |

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION

Stream: CLACKAMAS R > WILLAMETTE R - AT MOUTH
 Basin: WILLAMETTE Exceedance Level: 80
 Watershed ID Number: 80
 Time: 13:16 Date: 07/06/2000

| Month | Natural Stream Flow | CU + Stor Prior to 1/1/93 | CU + Stor After 1/1/93 | Expected Stream Flow | Reserved Stream Flow | Instream Water Rights | Net Water Available |
|-------|---------------------|---------------------------|------------------------|----------------------|----------------------|-----------------------|---------------------|
| 1 | 2670.00 | 254.00 | 10.20 | 2410.00 | .00 | 1000.00 | 1410.00 |
| 2 | 2900.00 | 254.00 | 10.20 | 2640.00 | .00 | 1000.00 | 1640.00 |
| 3 | 2800.00 | 252.00 | 10.10 | 2540.00 | .00 | 1000.00 | 1540.00 |
| 4 | 3010.00 | 252.00 | 10.20 | 2750.00 | .00 | 1000.00 | 1750.00 |
| 5 | 2740.00 | 281.00 | 10.40 | 2450.00 | .00 | 1000.00 | 1450.00 |
| 6 | 1620.00 | 278.00 | 10.50 | 1330.00 | .00 | 1000.00 | 332.00 |
| 7 | 980.00 | 288.00 | 10.80 | 681.00 | .00 | 1000.00 | -319.00 |
| 8 | 822.00 | 284.00 | 10.60 | 528.00 | .00 | 890.00 | -362.00 |
| 9 | 833.00 | 272.00 | .28 | 560.00 | .00 | 890.00 | -330.00 |
| 10 | 882.00 | 252.00 | .03 | 630.00 | .00 | 1000.00 | -370.00 |
| 11 | 1630.00 | 253.00 | 10.10 | 1370.00 | .00 | 1000.00 | 367.00 |
| 12 | 2650.00 | 254.00 | 10.20 | 2390.00 | .00 | 1000.00 | 1390.00 |
| Stor | 2110000 | 190000 | 6200 | 1910000 | 0 | 705000 | 1230000 |

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DETAILED REPORT OF CONSUMPTIVE USES AND STORAGES

Stream: CLACKAMAS R > WILLAMETTE R - AT MOUTH
 Basin: WILLAMETTE
 Watershed ID Number: 80
 Time: 13:16 Date: 07/06/2000

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| Mo | Storage | Irrig | Munic | Ind/Man | Commer | Domest | Agricul | Other | Total |
|----|---------|-------|--------|---------|--------|--------|---------|-------|--------|
| 1 | 2.49 | .00 | 260.00 | .39 | .00 | 1.22 | .41 | .00 | 264.00 |
| 2 | 2.32 | .00 | 260.00 | .39 | .00 | 1.22 | .41 | .00 | 264.00 |
| 3 | .11 | .20 | 260.00 | .39 | .00 | 1.22 | .41 | .00 | 262.00 |
| 4 | .13 | .77 | 260.00 | .39 | .00 | 1.22 | .41 | .00 | 262.00 |
| 5 | 22.50 | 7.28 | 260.00 | .39 | .00 | 1.22 | .41 | .00 | 291.00 |
| 6 | .02 | 11.60 | 275.00 | .39 | .00 | 1.22 | .41 | .00 | 288.00 |
| 7 | .00 | 21.90 | 275.00 | .39 | .00 | 1.22 | .41 | .00 | 299.00 |
| 8 | .00 | 17.40 | 275.00 | .39 | .00 | 1.22 | .41 | .00 | 294.00 |
| 9 | .00 | 5.97 | 265.00 | .39 | .00 | 1.22 | .41 | .00 | 273.00 |
| 10 | .00 | .71 | 250.00 | .39 | .00 | 1.22 | .41 | .00 | 252.00 |
| 11 | 1.46 | .00 | 260.00 | .39 | .00 | 1.22 | .41 | .00 | 263.00 |
| 12 | 2.45 | .00 | 260.00 | .39 | .00 | 1.22 | .41 | .00 | 264.00 |

DETAILED REPORT OF RESERVATIONS FOR CU

Stream: CLACKAMAS R > WILLAMETTE R - AT MOUTH
 Basin: WILLAMETTE
 Watershed ID Number: 80
 Time: 13:16

Date: 07/06/2000

| -----Reservations----- | | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-------|
| APP # | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TOTAL |
| Status Use | | | | | | | | |
| 1 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 2 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 3 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 4 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 5 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 6 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 7 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 8 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 9 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 10 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 11 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 12 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

DETAILED REPORT OF ISWRs

Stream: CLACKAMAS R > WILLAMETTE R - AT MOUTH
 Basin: WILLAMETTE
 Watershed ID Number: 80
 Time: 13:16

Date: 07/06/2000

| -----ISWRs----- | | | | | | | | |
|-----------------|---------|--------|-----|-----|-----|-----|-----|---------|
| APP # | -90206A | 80A | 0 | 0 | 0 | 0 | 0 | MAXIMUM |
| Status | SWW | Cert. | | | | | | |
| 1 | 1000.00 | 640.00 | .00 | .00 | .00 | .00 | .00 | 1000.00 |
| 2 | 1000.00 | 640.00 | .00 | .00 | .00 | .00 | .00 | 1000.00 |
| 3 | 1000.00 | 640.00 | .00 | .00 | .00 | .00 | .00 | 1000.00 |
| 4 | 1000.00 | 640.00 | .00 | .00 | .00 | .00 | .00 | 1000.00 |
| 5 | 1000.00 | 640.00 | .00 | .00 | .00 | .00 | .00 | 1000.00 |
| 6 | 1000.00 | 640.00 | .00 | .00 | .00 | .00 | .00 | 1000.00 |
| 7 | 1000.00 | 400.00 | .00 | .00 | .00 | .00 | .00 | 1000.00 |
| 8 | 890.00 | 400.00 | .00 | .00 | .00 | .00 | .00 | 890.00 |
| 9 | 890.00 | 640.00 | .00 | .00 | .00 | .00 | .00 | 890.00 |
| 10 | 1000.00 | 640.00 | .00 | .00 | .00 | .00 | .00 | 1000.00 |
| 11 | 1000.00 | 640.00 | .00 | .00 | .00 | .00 | .00 | 1000.00 |
| 12 | 1000.00 | 640.00 | .00 | .00 | .00 | .00 | .00 | 1000.00 |

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