

## Cowlitz Game & Anglers

1709 Tower Rd., Castle rock, WA 98611

Tel: (360) 274-7564 \* Fax: (360) 274-7617

millerra2002@yahoo.com

30 May 2002

### Pollution Considerations in the Development of The Hall Creek Project

The pollutants generated during the operation of the Hall Creek Project is approximated using the standard methods of Piper, et al (1982) and with the following assumptions:

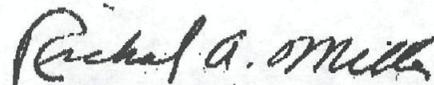
Water In-flow	1800 gpm (4 CFS)
Maximum Fish on Hand	70,000 @ 7/lb.
Maximum lbs of Fish	10,000 lbs.
Receiving Water Flow Apr. 20	13,500 gpm (30 CFS)
April 20 Water Temperature	48 F.
% Food Fed as Body Wt. of Fish (Apr 20)	1.0%

Greatest pollution potential occurs when maximum lbs. are on hand and receiving water is at lowest for this program on April 20.

#### Levels of Pollution Generated April 20

	ppm in Discharge	ppm in Receiving Water
Total Ammonia	0.148	0.022
Nitrate	0.403	0.062
Phosphate	0.023	0.004
Settled Solids	1.390	0.231
B.O.D.	1,500	0.231

Data: Harry Senn 30 May 2002



Richard A. Miller, Implementing Sponsor



**Davidson, Don**

---

**From:** Gary Wade [gwade@tdn.com]  
**Sent:** Tuesday, May 28, 2002 3:57 PM  
**To:** Davidson, Don  
**Cc:** Jeff Breckel  
**Subject:** Hall Creek water right status

Hi Don

The Lower Columbia Fish Recovery Board funded the fish acclimation pond proposed for Hall Creek on the upper Cowlitz River. Dick Miller of Cowlitz Game and Anglers told me that you were working on a water right for the project. Dick thought that they should have water right for the project in the near future. Anyway, the project has been around for at least three years and the funding for the project will expire in less than 15 months. Can you please give me an update on the status and timing of the water right application. If there are any more major delays we will need to discuss alternatives with the project sponsor.

Thanks,  
Gary Wade  
Habitat Project Coordinator  
Lower Columbia Fish Recovery Board  
2127 8th Ave  
Longview WA 98632  
360 414-4354

S

May 28, 2002

To: Steve Boessow - WDFW  
From: Don Davidson - DOE

Steve:

Attached is an application submitted by the Department of Fish and Wildlife for Cowlitz Game and Anglers. I plan to process this application in accordance with WAC 173-152-050 (2)(b), which allows the processing of competing applications if the use would be nonconsumptive, and would have an environmental benefit. I spoke with Greg Cloud of DOE's Water Quality Program concerning this project, and he has some concerns about the receiving waters from a water quality standpoint; and I have some of those same concerns from a water quantity standpoint. They have reduced their request from 12 cfs to 4.5 cfs, but have made no changes to the design. There will be approximately a 200 foot bypass reach.

Dick Miller (telephone #360 274 7564) is the contact for this project, and represents Cowlitz Game and Anglers.

I appreciate any comments on this application...my telephone # 407 0275.

S

X MONTHLY SOLIDS GENERATED CALCULATED - Using Piper, et al (1982)

A.

Xppm pollutant of Generated Solids = (factor) (X lbs food fed)  $\div$ , Pond flow in gpm

Ave monthly pollutants Generated Daily = (25) (80)  $\div$ , 1800 gpm = 1.11 ppm

B. Settling in pond = 80 - 85% Jensen (1972) or approximately 20% flows into receiving stream.

20% of 1.11 ppm = 0.22 ppm into Hall Creek.

C. Dilution in Receiving water - Assume 30 - 40 cfs in Hall Creek. Approximately 7.5:1 dilution factor with 4cfs\* inflow (1800 gpm).

Solids as ppm in receiving water = 0.22 ppm  $\div$ , 7.5 = 0.03 ppm.

- \* 4 cfs used anticipates worst case scenario. The pump could have an inefficiency of 10%. Regardless of this, the concentration in the receiving water would remain the same.

It appears the operation of the Hall Creek acclimation pond will be well under the Washington State settleable solids limits,

Best regards,



---

Harry Senn

2 of 2

S

23	1749	1314	1242	1881	3037	2890	1526	733	554	906	1912	1865
24	1674	1374	1224	1889	3093	2839	1487	729	544	950	2391	1650
25	1654	1318	1196	1839	3217	2740	1432	711	538	1260	2259	1694
26	1463	1424	1188	1819	3282	2676	1402	692	566	1064	2079	1698
27	1385	1366	1190	1864	3323	2555	1365	676	557	1077	1923	1608
28	1395	1364	1245	2010	3302	2514	1313	676	563	1124	1875	1417
29	1439	1836	1272	2081	3326	2513	1292	665	541	1074	1878	1719
30	1460		1252	2130	3264	2459	1252	671	581	1122	1675	1445
31	1563		1267		3177		1207	674		1125		1351

1 -- Available period of record may be less than value shown for certain days of the year.

**USGS 14228500 HALL CR NR PACKWOOD, WASH.**

Lewis, Washington Hydrologic Unit Code 17080004 Latitude 46°34'50", Longitude 121°41'10" NAD27 Drainage area 10.90 square miles	<b>Output formats</b> <a href="#">HTML table of all data</a> <a href="#">Tab-separated data</a> <a href="#">Reselect output format</a>
--	---

Day of month	Mean of daily mean values for this day for 3 years of record <sup>1</sup> , in ft <sup>3</sup> /s											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	42.0	57.0	75.5	37.0	39.0	48.5	37.7	18.0	10.3	6.77	28.0	58.0
2	52.0	71.0	69.0	37.0	38.0	46.5	36.7	17.3	9.70	7.47	28.3	52.5
3	52.0	67.5	62.5	36.5	42.0	45.5	35.3	16.7	9.70	10.6	29.0	48.5
4	50.5	60.0	57.0	36.5	46.0	42.5	34.7	16.3	9.37	11.8	27.3	51.0
5	47.5	53.5	53.0	34.5	53.5	39.5	34.0	16.3	9.20	12.9	26.3	53.5
6	56.0	49.5	49.5	33.5	72.0	39.0	34.0	15.9	9.10	12.9	25.7	53.0
7	102	46.5	46.5	32.5	78.0	39.5	33.0	15.9	9.20	14.1	30.3	50.5
8	111	45.0	45.5	31.5	71.0	42.5	32.3	14.9	9.57	14.3	46.0	49.0
9	95.0	44.0	43.5	31.5	62.0	42.5	31.0	14.5	9.93	13.2	44.7	50.0
10	87.5	42.0	42.5	32.5	54.0	41.0	29.7	14.2	9.23	12.2	41.7	59.5
11	80.5	40.5	44.0	32.0	46.5	52.5	28.7	14.2	9.03	12.1	38.0	213
12	71.0	44.0	43.5	31.0	44.5	47.0	27.7	14.2	8.53	11.4	34.0	242
13	63.5	54.5	41.5	31.0	45.5	52.0	26.3	14.0	8.43	10.7	36.3	273
14	56.5	69.0	39.5	31.5	42.5	44.0	25.3	13.5	8.30	10.3	36.3	267
15	51.5	75.5	39.0	33.0	40.0	40.0	24.7	14.2	8.30	10.7	45.3	233



30	123		59.4	61.0	100	83.5	51.2	34.4	30.2	33.4	92.0	64.7
31	111		59.7		106		52.4	34.0		35.5		61.3

1 -- Available period of record may be less than value shown for certain days of the year.

**USGS 14226500 COWLITZ RIVER AT PACKWOOD, WASH.**

Lewis, Washington Hydrologic Unit Code 17080004 Latitude 46°36'47", Longitude 121°40'41" NAD27 Drainage area 287.00 square miles Gage datum 1,048.00 feet above sea level NGVD29	<b>Output formats</b> <input type="checkbox"/> HTML table of all data <input type="checkbox"/> Tab-separated data <input type="checkbox"/> Reselect output format
--	--

Day of month	Mean of daily mean values for this day for 79 years of record <sup>1</sup> , in ft <sup>3</sup> /s											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1468	1537	1209	1312	2106	3217	2400	1151	692	536	1076	1836
2	1387	1375	1221	1414	2150	3320	2435	1120	695	600	1187	2245
3	1474	1395	1188	1384	2198	3251	2386	1104	655	629	1411	2224
4	1454	1341	1229	1398	2247	3326	2333	1076	673	629	1498	2113
5	1492	1356	1223	1512	2327	3421	2271	1061	665	622	1502	1661
6	1393	1380	1238	1550	2427	3448	2237	1022	643	597	1455	1651
7	1602	1529	1193	1578	2407	3526	2190	1011	611	590	1414	1572
8	1506	1670	1129	1512	2469	3372	2215	984	602	610	1508	1464
9	1509	1540	1233	1468	2527	3326	2207	952	587	664	1419	1577
10	1307	1424	1252	1443	2565	3277	2150	939	600	754	1421	1806
11	1276	1297	1192	1449	2662	3189	2092	915	597	793	1509	1966
12	1308	1236	1177	1481	2793	3206	2097	886	556	700	1616	1823
13	1407	1248	1175	1587	2818	3222	2154	859	537	673	1738	1976
14	1548	1301	1127	1736	2834	3222	2081	840	548	644	1482	1984
15	1753	1297	1120	1777	2788	3356	2021	845	563	654	1373	1897
16	1637	1373	1119	1734	2787	3355	1945	816	567	695	1365	1781
17	1664	1327	1116	1828	2806	3180	1882	784	564	668	1392	1695
18	1781	1324	1154	1873	2806	3162	1824	785	584	710	1510	1617
19	1773	1631	1295	1843	2905	3197	1744	762	577	812	1502	1544
20	1588	1611	1250	1975	3000	3159	1680	753	588	804	1680	1809
21	1504	1434	1231	1905	2992	3106	1630	737	600	777	1587	2069
22	1578	1308	1207	1865	3031	3003	1567	721	564	926	1567	2102

16	48.5	75.0	38.5	36.5	38.5	57.0	24.0	14.1	8.17	13.0	45.3	172
17	46.0	74.0	39.5	40.0	38.5	58.5	23.3	13.4	8.17	18.2	52.0	137
18	44.0	76.5	41.0	44.5	39.0	52.5	23.0	13.1	8.17	24.9	83.0	116
19	43.5	72.0	40.0	48.5	38.5	47.0	23.7	12.6	7.73	56.0	90.0	103
20	41.0	67.5	39.0	49.5	38.5	46.0	22.7	12.6	7.73	46.3	82.0	88.5
21	40.5	74.0	40.5	50.0	41.0	52.7	22.0	12.3	7.73	37.5	73.0	79.0
22	40.0	122	46.5	51.5	44.0	50.7	21.7	12.3	7.40	30.2	70.0	69.5
23	52.0	115	44.0	52.0	43.5	49.0	21.0	12.5	7.50	27.7	70.7	62.0
24	96.0	97.0	42.0	53.0	43.5	46.3	20.7	12.0	7.50	27.0	89.7	59.0
25	140	90.0	40.5	53.5	48.0	42.7	20.0	11.4	8.07	36.3	93.3	55.0
26	160	129	38.5	50.5	53.0	41.3	19.7	11.2	9.60	33.0	91.0	51.5
27	121	121	37.5	47.5	63.0	40.0	19.7	10.7	11.4	28.0	85.3	48.5
28	95.0	102	35.5	45.0	70.0	39.3	20.7	10.3	10.5	25.4	85.7	48.0
29	77.0	132	35.0	44.0	68.5	38.3	20.0	10.2	10.1	24.2	74.0	45.5
30	66.5		37.0	40.5	59.0	38.7	19.0	10.3	9.47	24.2	70.7	42.5
31	58.5		37.0		52.5		18.3	10.3		24.3		40.5

1 -- Available period of record may be less than value shown for certain days of the year.

**USGS 14229500 JOHNSON CR BL GLACIER CR NR PACKWOOD, WASH.**

Lewis, Washington Hydrologic Unit Code 17080004 Latitude 46°32'30", Longitude 121°37'15" NAD27 Drainage area 42.80 square miles	<b>Output formats</b> <input type="checkbox"/> HTML table of all data <input type="checkbox"/> Tab-separated data <input type="checkbox"/> Reselect output format
--	--

Day of month	Mean of daily mean values for this day for 3 years of record <sup>1</sup> , in ft <sup>3</sup> /s											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	95.0	308	118	109	240	308	258	84.0	47.0	56.7	74.0	265
2	99.0	250	113	105	217	309	262	83.0	46.3	79.7	70.3	203
3	105	273	107	108	213	320	282	80.7	45.0	109	76.7	171
4	98.7	324	103	117	226	346	281	77.7	44.3	74.7	80.7	154
5	104	286	100	143	276	360	274	77.0	43.3	61.0	75.0	142
6	113	268	98.0	172	315	343	287	78.3	43.0	54.3	73.0	135
7	117	270	95.0	171	337	335	299	74.7	44.0	50.7	70.0	122
8	130	256	103	161	349	335	318	73.0	43.7	47.7	67.7	113



9	229	232	159	148	358	343	288	71.3	42.0	45.3	65.3	238
10	188	210	181	139	364	334	266	69.3	41.0	47.0	68.0	221
11	247	220	164	134	371	329	255	67.3	40.3	45.0	75.3	178
12	266	227	149	139	359	362	252	66.0	39.7	45.0	87.7	226
13	215	238	136	185	360	419	237	64.0	39.3	48.7	86.3	180
14	175	214	126	189	352	335	222	62.0	38.7	57.3	78.7	161
15	150	188	121	173	364	305	204	62.3	38.0	60.7	77.7	153
16	169	173	116	181	405	294	188	60.3	37.3	60.3	80.7	145
17	231	163	111	220	470	306	180	58.7	36.3	55.3	74.0	137
18	298	154	105	246	535	298	174	58.0	36.0	57.0	68.7	137
19	264	146	101	263	548	285	159	57.0	35.0	76.3	68.7	202
20	209	160	97.7	259	507	276	147	56.0	35.0	136	67.0	289
21	181	174	92.7	241	451	262	140	54.0	34.7	111	71.3	223
22	198	164	90.7	248	408	244	136	53.0	34.0	101	111	182
23	251	149	91.7	262	399	231	130	53.0	34.3	145	102	157
24	219	149	113	260	399	224	124	52.3	34.0	119	94.0	140
25	200	147	125	269	390	221	119	51.7	36.3	96.3	107	126
26	171	140	130	320	373	220	112	51.3	34.7	83.7	144	116
27	151	131	133	359	365	225	108	53.3	34.3	78.7	160	107
28	142	124	129	371	372	226	105	54.3	38.7	77.7	162	112
29	144	86.0	124	314	370	234	103	51.7	37.0	87.0	151	107
30	169		120	271	342	265	100	50.3	54.0	83.7	200	105
31	294		114		333		95.5	48.0		78.0		99.7

1 -- Available period of record may be less than value shown for certain days of the year.

**USGS 14230000 JOHNSON CREEK NEAR PACKWOOD, WASH.**

Lewis, Washington Hydrologic Unit Code 17080004 Latitude 46°34'30", Longitude 121°42'00" NAD27 Drainage area 50.00 square miles Gage datum 1,000.00 feet above sea level NGVD29	<b>Output formats</b> <input type="button" value="HTML table of all data"/> <input type="button" value="Tab-separated data"/> <input type="button" value="Reselect output format"/>
---	--



# Fish Management Consultants



8137 Rainier Road

Olympia, WA 98513

(360) 456-3826

2-407 0290  
 2-407 0290

To Don Davidson - ph 360 407 0275  
 From Harry Senn Fax 407 0284

Subject Water Right Approval for  
 Hall Creek Lewis Co. Wa  
 Packwood  
 T 13N R 9E S 33

Final Hydraulic Project Approval  
 We understand with this final  
 water right approval can be made.  
 The only change is reduced  
 withdrawal now 4.5 cfs requested

Please contact Mr. Dick Miller  
 of Cowlitz Game and Anglers For  
 further communications -

Tel 360 274 7564  
 274 7616

Thank You Harry



**HYDRAULIC PROJECT APPROVAL**  
 RCW 77.55.100 - appeal pursuant to Chapter 34.05 RCW

State of Washington  
 Department of Fish and Wildlife  
 Region 5 Office  
 2108 Southeast Grand Boulevard  
 Vancouver, Washington 98661

**DATE OF ISSUE:** March 20, 2002

**LOG NUMBER:** 00-F0449-02

<u>PERMITEE</u>	<u>AUTHORIZED AGENT OR CONTRACTOR</u>
Cowlitz Game and Angler ATTENTION: Richard A. Miller 1709 Tower Road Castle Rock, WA 98611 (360) 274-7564 Fax: (360) 274-7617	Not Applicable

**PROJECT DESCRIPTION:** Install Water Intake/Outlet and Divert Water for Fish Rearing and Conditioning Pond

**PROJECT LOCATION:** Hall Creek near Mile Post 129 Hwy 12; See Legal

#	WRIA	WATER BODY	TRIBUTARY TO	1/4 SEC.	SEC.	TOWNSHIP	RANGE	COUNTY
1	26.1174	Hall Creek	Cowlitz River	33	13	North	09 East	Lewis

**NOTE:** This Hydraulic Project Approval pertains only to the provisions of the Washington State Fisheries and Wildlife Codes. It is the permittee's responsibility to apply for and obtain any additional authorization from other public agencies (local, state and/or federal) that may be necessary for this project.

This Hydraulic Project Approval (HPA) authorizes Work Related to Construction of the Ponds only. Any additional work below the ordinary high water line shall require a separate HPA from Washington Department of Fish and Wildlife including Routine Maintenance or Emergency Work below the Ordinary High Water Line.

The Department of Fish and Wildlife (WDFW) discourages the use of pilings, lumber, and other materials treated with creosote and other wood preservatives and recommends instead the use of steel, concrete, or recycled plastic.

**PROVISIONS**

1. **TIMING LIMITATIONS:** The project may begin July 15, 2002 and shall be completed by September 30, 2002, provided:
  - a. Revegetation shall be completed no later than April 30, 2003, and shall be monitored through April 30, 2006.
2. **NOTIFICATION REQUIREMENT:** The permittee or contractor shall notify the Area Habitat Biologist (AHB) listed below of the project start date. Notification shall be received by the AHB at least three working days prior to the start of construction activities. The notification shall include the permittee's name, project location, starting date for work, and the control number for this Hydraulic Project Approval.
3. Work shall be accomplished per plans and specifications entitled, Biological Assessment for Hall Creek and Conditioning Ponds Lewis County, Washington, dated December 12, 2001, and Lewis County SEPA MDNS, dated





Washington  
Department of  
**FISH and  
WILDLIFE**

## HYDRAULIC PROJECT APPROVAL

RCW 77.55.100 - appeal pursuant to Chapter 34.05 RCW

State of Washington  
Department of Fish and Wildlife  
Region 5 Office  
2106 Southeast Grand Boulevard  
Vancouver, Washington 98661

**DATE OF ISSUE:** March 20, 2002

**LOG NUMBER:** 00-F0449-02

March 9, 1998, and Cowlitz Game and Angler Letter to Steve Bell, dated March 18, 2002, and submitted to the Washington Department of Fish and Wildlife, except as modified by this Hydraulic Project Approval. These plans reflect design criteria per Chapter 220-110 WAC. These plans reflect mitigation procedures to significantly reduce or eliminate impacts to fish resources. A copy of these plans shall be available on site during construction.

4. Streambed disturbance shall be limited to the minimum necessary to achieve the provisions of the water right issued by Washington Department of Ecology.
5. At pump stations, screens and headgate areas, a backhoe or suction dredge may be used to remove accumulated silts and gravel from the pumping sump. Material removed shall be placed so it will not re-enter state waters.
6. The drive mechanisms (wheels, tracks, tires, etc.) shall not enter or operate below the ordinary high water line.
7. Equipment crossings of the stream are not authorized by this HPA.
8. Alteration or disturbance of the bank and bank vegetation shall be limited to that necessary to construct the project. Within seven calendar days of project completion, all disturbed areas shall be protected from erosion using vegetation or other means. Within one year of project completion, the banks, including riprap areas, shall be revegetated with native or other approved woody species. Vegetative cuttings shall be planted at a maximum interval of three feet (on center) and maintained as necessary for three years to ensure 80 percent survival.
9. Aquatic vegetation shall not be removed or disturbed.
10. Existing shoreline vegetation shall not be removed or disturbed.
11. Wooden components which will be in contact with the water shall not contain creosote or pentachlorophenol. This shall include pilings, beams, structural supports, and decking. These components shall remain free of these toxic substances for the duration of their functional lives.
12. If at any time, as a result of project activities, fish are observed in distress, a fish kill occurs, or water quality problems develop (including equipment leaks or spills), operations shall cease and the Washington Department of Fish and Wildlife at (360) 983-8326 and Washington Department of Ecology at (360) 407-6000 shall be contacted immediately. Work shall not resume until further approval is given by the Washington Department of Fish and Wildlife.
13. Every effort shall be taken during all phases of this project to ensure that sediment-laden water is not allowed to enter the stream. This may be accomplished by placing a series of low gravel bag dams downstream of the project. The gravel bag dams shall consist of burlap bags filled with pea gravel. The streambed and dams shall be overlain with filter fabric on the upstream side of the dams. Accumulated silt shall be removed with the filter fabric upon completion of the project and the burlap bags shall be slit to allow the pea gravel to disperse downstream. Where necessary, hand tools may be used to ensure stream flow and fish passage are not impeded by the gravel.
14. Wastewater from project activities and water removed from within the work area shall be routed to an area landward of the ordinary high water line to allow removal of fine sediment and other contaminants prior to being discharged to the stream.

Page 2 of 5

**S**



Washington  
Department of

**HYDRAULIC PROJECT APPROVAL**  
RCW 77.55.100 - appeal pursuant to Chapter 34.05 RCW

State of Washington  
Department of Fish and Wildlife



**DATE OF ISSUE:** March 20, 2002

**LOG NUMBER:** 00-F0449-02

- 15. All waste material such as construction debris, silt, excess dirt or overburden resulting from this project shall be deposited above the limits of flood water in an approved upland disposal site.
- 16. If high flow conditions that may cause siltation are encountered during this project, work shall stop until the flow subsides.
- 17. Extreme care shall be taken to ensure that no petroleum products, hydraulic fluid, fresh cement, sediments, sediment-laden water, chemicals, or any other toxic or deleterious materials are allowed to enter or leach into the stream.
- 18. Fresh concrete or concrete by-products shall not be allowed to enter the stream at any time during this project. All forms used for concrete shall be completely sealed to prevent the possibility of fresh concrete from getting into the stream.
- 19. Any siltation in excess of state water quality standards resulting from this project shall be considered damaging to fish life, causing operations to be terminated and the Hydraulic Project Approval may be revoked.

**SEPA:** MDNS by Lewis County final on March 9, 1998.

**APPLICATION ACCEPTED:** March 20, 2002

**ENFORCEMENT OFFICER:** Jeschke 129 [P1]

Steven W. Bell (360)-983-8326  
Area Habitat Biologist

for Director  
WDFW

cc: Steve Manlow, WDFW Habitat Program  
WRIA 26 File, Olympia  
Wolf Dammers, WDFW Fish Program  
Scott Swanson, Lewis Co. Shorelines  
Jo Sohneronnc, DOE Shorelines

**GENERAL PROVISIONS**

This Hydraulic Project Approval (HPA) pertains only to the provisions of the Fisheries Code (RCW 77.55 - formerly RCW 75.20). Additional authorization from other public agencies may be necessary for this project.

This HPA shall be available on the job site at all times and all its provisions followed by the permittee and operator(s) performing the work.

This HPA does not authorize trespass.

S



## HYDRAULIC PROJECT APPROVAL

RCW 77.55.100 - appeal pursuant to Chapter 34.05 RCW

State of Washington  
Department of Fish and Wildlife  
Region 5 Office  
2100 Southeast Grand Boulevard  
Vancouver, Washington 98661

**DATE OF ISSUE:** March 20, 2002

**LOG NUMBER:** 00-F0449-02

The person(s) to whom this HPA is issued may be held liable for any loss or damage to fish life or fish habitat which results from failure to comply with the provisions of this HPA.

Failure to comply with the provisions of this Hydraulic Project Approval could result in a civil penalty of up to one hundred dollars per day or a gross misdemeanor charge, possibly punishable by fine and/or imprisonment.

All HPAs issued pursuant to RCW 77.55.100 or 77.55.200 are subject to additional restrictions, conditions or revocation if the Department of Fish and Wildlife determines that new biological or physical information indicates the need for such action. The permittee has the right pursuant to Chapter 34.04 RCW to appeal such decisions. All HPAs issued pursuant to RCW 77.55.110 may be modified by the Department of Fish and Wildlife due to changed conditions after consultation with the permittee: PROVIDED HOWEVER, that such modifications shall be subject to appeal to the Hydraulic Appeals Board established in RCW 77.55.170.

### APPEALS - GENERAL INFORMATION

IF YOU WISH TO APPEAL A DENIAL OF OR CONDITIONS PROVIDED IN A HYDRAULIC PROJECT APPROVAL, THERE ARE INFORMAL AND FORMAL APPEAL PROCESSES AVAILABLE.

**A. INFORMAL APPEALS (WAC 220-110-340) OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.100, 77.55.110, 77.55.140, 77.55.190, 77.55.200, and 77.55.290:**

A person who is aggrieved or adversely affected by the following Department actions may request an informal review of:

- (A) The denial or issuance of a HPA, or the conditions or provisions made part of a HPA; or
- (B) An order imposing civil penalties.

It is recommended that an aggrieved party contact the Area Habitat Biologist and discuss the concerns. Most problems are resolved at this level, but if not, you may elevate your concerns to his/her supervisor. A request for an INFORMAL REVIEW shall be in WRITING to the Department of Fish and Wildlife, 600 Capitol Way North, Olympia, Washington 98501-1091 and shall be RECEIVED by the Department within 30-days of the denial or issuance of a HPA or receipt of an order imposing civil penalties. The 30-day time requirement may be stayed by the Department if negotiations are occurring between the aggrieved party and the Area Habitat Biologist and/or his/her supervisor. The Habitat Protection Services Division Manager or his/her designee shall conduct a review and recommend a decision to the Director or its designee. If you are not satisfied with the results of this informal appeal, a formal appeal may be filed.

**B. FORMAL APPEALS (WAC 220-110-350) OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.100 OR 77.55.140:**

A person who is aggrieved or adversely affected by the following Department actions may request a formal review of:

- (A) The denial or issuance of a HPA, or the conditions or provisions made part of a HPA;
- (B) An order imposing civil penalties; or
- (C) Any other "agency action" for which an adjudicative proceeding is required under the Administrative Procedure Act, Chapter 34.05 RCW.

A request for a FORMAL APPEAL shall be in WRITING to the Department of Fish and Wildlife, 600 Capitol Way North, Olympia, Washington 98501-1091, shall be plainly labeled as "REQUEST FOR FORMAL APPEAL" and shall be RECEIVED DURING OFFICE HOURS by the Department within 30-days of the Department action that is being challenged. The time period for requesting a formal appeal is suspended during consideration of a timely informal

To Don Davidson - for 407 0284 5-1-00  
 From Harry Senn  
 Subject Hael Cr -

Rich Kolb's # is 360 576 0135

WDFW issued a request for a water right  
 & volunteers helped - To my knowledge  
 legal dealings have been between DO  
 & WDFW & correctly so - Volunteers  
 have been trying to push the process  
 along without being pushy -

In July, 10 months ago, you  
 were in the process of writing up the  
 permit but when no one heard in August  
 late we called & you mentioned  
 you hadn't had time to visit the site  
 - True you said someone in DOE  
 needed something about water quality  
 & WDFW was in the mix somehow  
 - which of course was none of our  
 deal was - I did relate that we'd be going <sup>forward</sup> <sub>monday</sub>

Also we did however document a  
 note to Chuck Johnson of WDFW in Sept so  
 we also offer help if needed - Chuck was  
 see what DOE needed to move the process  
 along quickly - as we gave written  
NOTICE of work for Oct last year -

You were faxed a document  
of intent to continue work about  
30 days ago - Requesting immediate  
Response of continued work  
Should stop - FAXED TO # 4107 0284

If we can be of further  
help let us know - Please  
pass along any documented  
communication you may  
have sent to a volunteer - if  
I haven't heard from anyone in 7 months.  
Thanks  
A

S

4/7/00

To WDFW Lee Van Tussen brook  
DOE Don Davidson  
From HALL CR. Volunteers -

Subject Continuation of HALL CR  
Activities :

Should there be any REASON  
to cease work activities at HALL CR  
let us know immediately. For your  
information - Lewis Co. PLANNING  
Re confirmed that in their area  
(ARRA) of responsibility all is OK to  
continue - (P.C. Rick Turnbull 4:45 pm 4/7/00)

Direct Response to Dick Miller  
Cawltz GAME & Anglers  
FAX No 360 274 7617

S

Fax 407 0284

7/6/99

To Don Davidson  
From Harry Senn

Ref: Hill Water Right  
Signature - Wa FAW

Likely it was Elyse KANE

she also has changed positions  
& to contact her VOICE mail!

Dial 902 1111

a recorder will tell you to  
contact 902 2402 for voice mail  
(you can't just dial 902 2402)

I left message for her to  
contact you at 407 0275

Thanks

Harry

S

**INTRODUCTION**

This project is part of *FISH I*, a Cowlitz River watershed plan developed by a coalition of local volunteer fisheries organizations in Southwest Washington. The Hall Creek project is proposed as one of several acclimation sites where salmon and steelhead will be reared.

**OWNERSHIP**

The Hall Creek site is owned by the Washington Department of Fish & Wildlife (WDFW) and was originally purchased in the early 1950's for future hatchery construction. Construction plans for the hatchery were halted due to the construction of the Cowlitz River Hydroelectric projects.

**FACILITIES DESCRIPTION****Water Supply System**

Water will be pumped from Hall Creek. Initial design calls for two, 5 hp pumps delivering 3 cubic feet per second (cfs) of flow. A 20 kW generator will provide backup power. A sloped intake screen, constructed of perforated plate, will have a minimum of 8 square feet of area and 3/32" diameter openings. An air backwash system will help flush debris off the screen. Plastic, low-pressure pipe (10") will deliver water to the rearing units. Water right applications have been submitted to the Washington State Department of Ecology.

**Rearing / Acclimation / Adult Holding Units**

All 4 ponds will be lined with an impermeable plastic membrane and will be constructed with a 1% bottom slope. The ponds will have a drain pipe system installed under the liners for water removal. The smolt acclimation pond will measure 50' wide by 140' long by 4' (3' water depth) deep, yielding 17,000 cubic feet of rearing volume. Water will be delivered through a pipe manifold, which will spread flow across the head end of the pond. Discharge will be through a pre-cast concrete structure that will support screen and dam boards for water level control. The outlet will allow volitional release and complete drainage of the pond. Migrating smolts will be collected in a smolt collection pond, measuring 50' long by 20' wide by 3' deep. The adult holding pond will measure 90' by 30' by 4' and will have a separate water supply. The waste pond will measure 50' long by 20' wide by 3' deep. Waste material vacuumed from the smolt acclimation pond and the adult holding pond will be stored here until full and then the waste material will be moved off-site to an appropriate area for deposit.

**Support Systems**

Fish wastes will be vacuumed off the pond bottoms periodically using a portable trash pump. Vacuumed wastes will be stored in a waste pond where they will be concentrated and removed as

**S**

needed. The site will have an 8' high, chain link, security fence around the circumference. Predator netting will cover the fishponds and will require a support structure. An alarm system will consist of float switches and an automatic phone dialer which will activate in the event of interruption of water flow. The 20 kW generator, air tank, compressor, and alarm system will be housed in a 24' by 24' metal building which will also provide storage for fish food and electrical service. Power and alarm wiring will be run throughout the site in underground conduit. The discharge pipe will be large diameter, (15"), low pressure, PVC plastic pipe and will be constructed with large radius sweeps where used by fish for volitional release. The access road from Highway 12, the maintenance roads to all of the ponds on site and the intake structure, as well as the four (4) to five (5) car parking lot will all be surfaced with crushed rock.

### **CONSTRUCTION DETAILS**

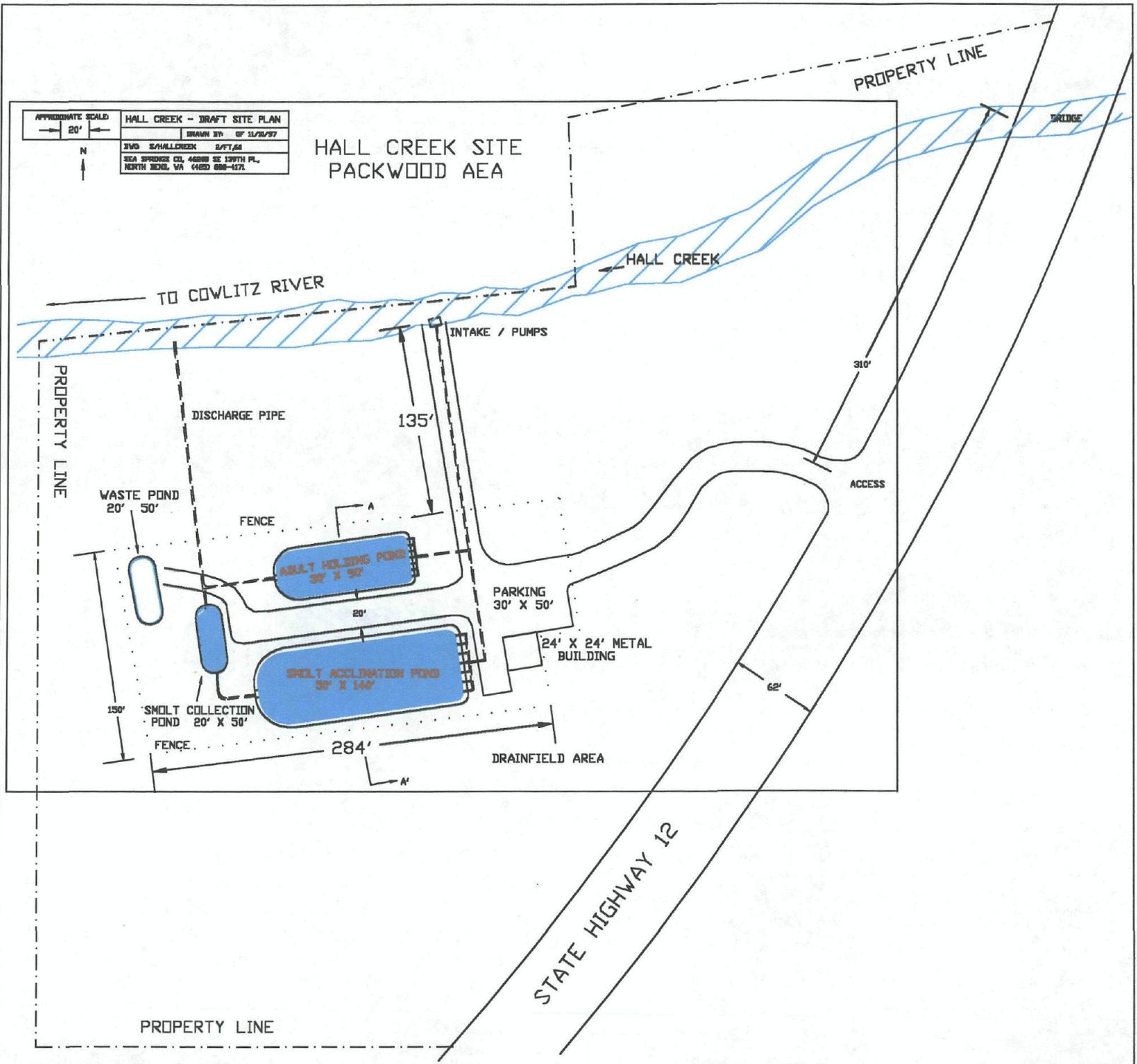
Ponds will be formed by balancing cut and fill. No material will be removed from the site. The smolt acclimation pond and the adult holding pond bottoms will average 2.5' below original grade, with a 20' wide area around each pond being raised 1.5' above original grade. Approximately 10 cubic yards of material will be excavated below water level from the banks of Hall Creek for placement of the water intake structure. The construction area will be surrounded by a watertight barrier and de-watered during placement. Fill will be deposited on-site and rip-rap / crushed rock will be used as fill to stabilize the pre-cast intake structure. Approximately ten (10) yards of material will be excavated at the stream bank for placement of the outlet pipe. This area will be filled with rip-rap / crushed rock to stabilize the outlet pie. Soils investigations will determine the type of equipment needed for excavations. During construction, disturbed areas will be covered with erosion control materials such as silt fences or straw / hay bales. Cross sections for all ponds are similar although the ponds will vary in depth, length and width. All ponds and buildings on site with the exception of the intake structure and the intake / outlet pipes, will maintain a one hundred foot (100') buffer zone from Hall Creek.

### **RE-VEGETATION PLAN**

After construction has been completed, the site will be graded. Disturbed areas outside the perimeter fence will be planted with native grasses. Inside the fence, areas not surfaced with gravel will be planted with commercial grass seed. Some planting of evergreen shrubs/ trees will most likely take place for landscaping purposes.

**S**





APPROXIMATE SCALE:  
→ 20' ←

HALL CREEK - ELEVATIONS

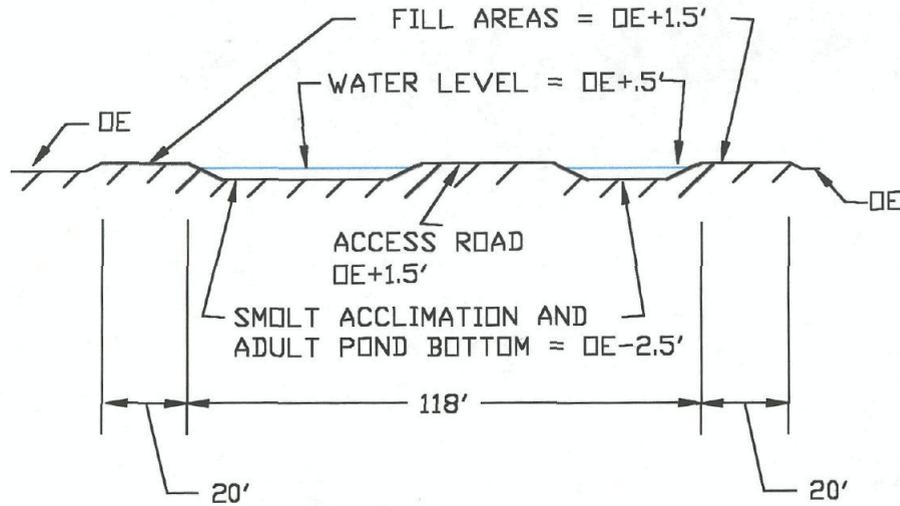
DRAWN BY: GF 2/24/98

DWG: S/HALLCREEK

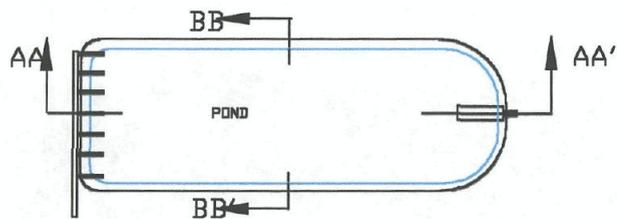
SEA SPRINGS CO, 46208 SE 139TH PL,  
NORTH BEND, WA (425) 888-4171

CROSSECTION AA'

OE = ORIGINAL GROUND ELEVATION



CROSSECTION AA'



NOTES:  
 SIDE SLOPES 2:1  
 BOTTOM SLOPE 1%

TYPICAL POND CROSSECTIONS

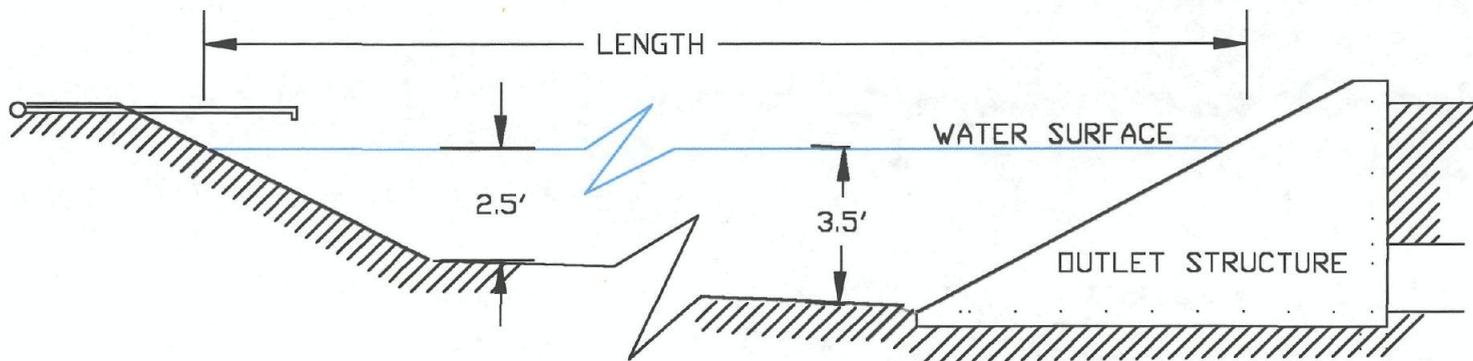
DRAWN BY: GF 1/28/98

DRWG: S/CROSSECTIONS.DWG

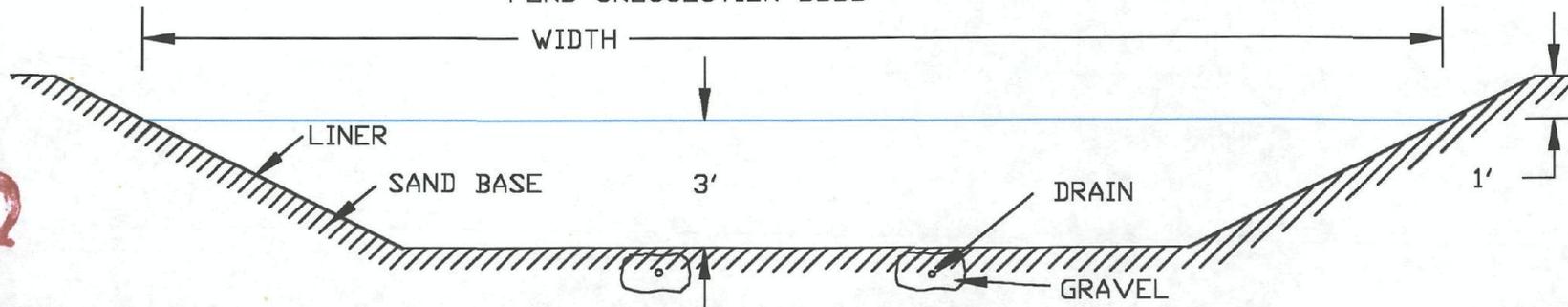
SEA SPRINGS CD, 46208 SE 139TH PL,  
 NORTH BEND, WA (206) 888-4171



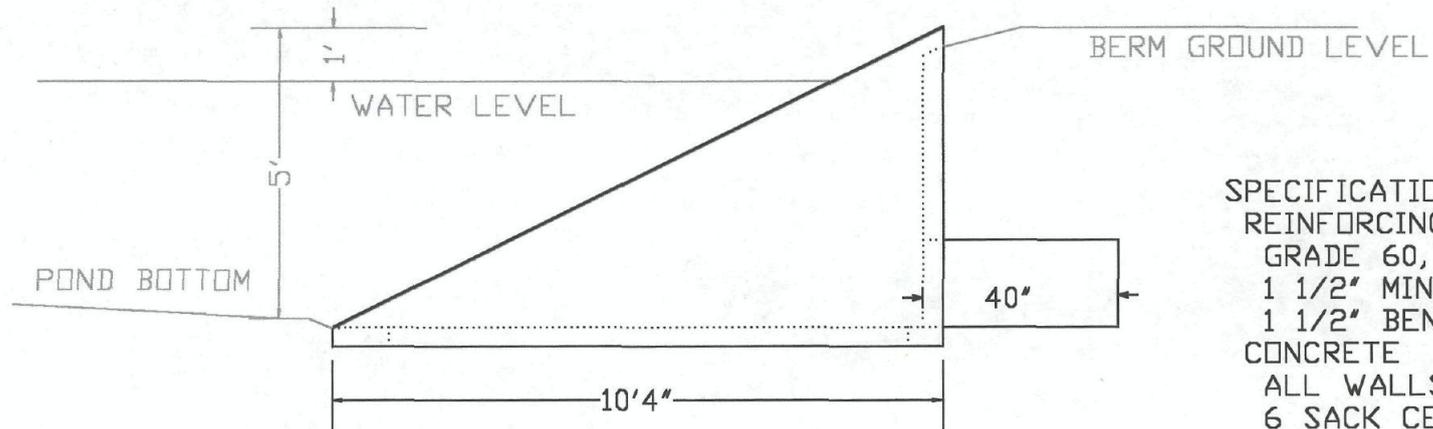
POND CROSSECTION AAAA'



POND CROSSECTION BBBB'

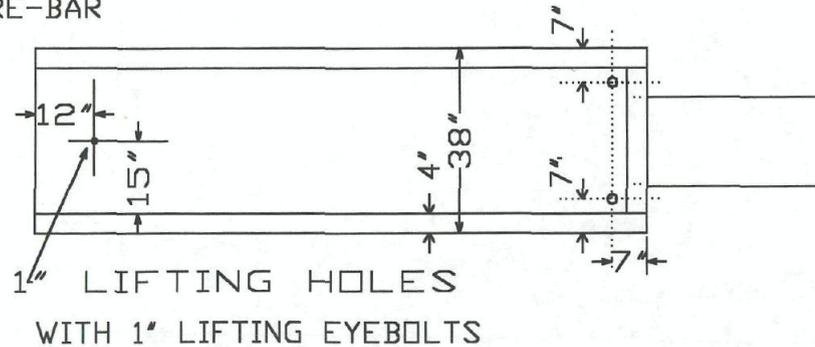
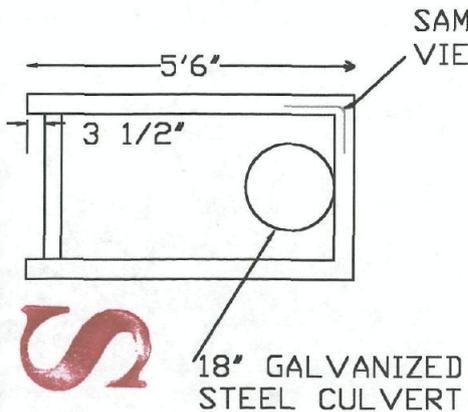


# POND OUTLET STRUCTURE



**SPECIFICATIONS**  
 REINFORCING STEEL  
 GRADE 60, ROUND, 1/4"  
 1 1/2" MINIMUM COVER  
 1 1/2" BENDING RADIUS  
 CONCRETE  
 ALL WALLS 4"  
 6 SACK CEMENT  
 HAND VIBRATED TO  
 ELIMINATE VOIDS

**NOTES:**  
 SCREEN CHANNEL AND  
 DAM BOARD CHANNEL  
 ATTACHED AFTER DELIVERY



SCALE 1" = 4'  
 2/24/98  
 GF OUTLET

<b>SEA SPRINGS Co.</b>		Phone:	(425) 888-4171		
46208 SE 139th Pl		Fax:	(425) 888-3895		
North Bend, WA 98045		Email:	ghf@halcyon.com		
<b>HALL CREEK SITE</b>			2/24/98		
<b>PRELIMINARY CONSTRUCTION COST ESTIMATES</b>					
<b>Component</b>	<b>Description</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Cost</b>	<b>Cost</b>
SITE WORK	Initial grading, access roads, parking	50000	sft	\$ 0.20	\$ 10,000
STAND-BY GENERATOR	20 kw, propane, with transfer switch, building	1	ea	\$ 17,500	\$ 17,500
WATER PUMPS	5 hp, centrifugal, with motor starters	2	ea	\$ 5,500	\$ 11,000
ELECTRICAL SERVICE	Connection of generator, transfer switch, pumps, alarms	1	ea	\$ 7,500	\$ 7,500
WATER INTAKE SCREENS	Precast concrete structure	1	ea	\$ 1,750	\$ 1,750
WATER SUPPLY PIPELINE	Trench excavation and backfill	200	ft	\$ 7.50	\$ 1,500
WATER SUPPLY PIPE	10", CL200 PVC, with valves, fittings, installed	200	ft	\$ 7.00	\$ 1,400
SMOLT POND	Excavation, compaction	1000	cyd	\$ 2.50	\$ 2,500
POND LINER	Polyolefin, installed	12000	sft	\$ 0.35	\$ 4,200
POND OUTLET STRUCTURE	Precast concrete, dam boards, screens, delivery, installation	1	ea	\$ 700	\$ 700
ADULT POND	Excavation, compaction	400	cyd	\$ 2.50	\$ 1,000
POND LINER	Polyolefin, installed	3500	sft	\$ 0.45	\$ 1,575
POND OUTLET STRUCTURE	Precast concrete, dam boards, screens, delivery, installation	1	ea	\$ 700	\$ 700
SMOLT CAPTURE POND	Excavation, compaction	2000	cyd	\$ 3.50	\$ 7,000
POND LINER	Polyolefin, 2 at 12,000 sft, installed	24000	sft	\$ 0.45	\$ 10,800
POND OUTLET STRUCTURE	Precast concrete, dam boards, screens, delivery, installation	2	ea	\$ 700	\$ 1,400
DISCHARGE PIPELINE	Trench excavation and backfill	2000	ft	\$ 2.00	\$ 4,000
DISCHARGE PIPE	15" PVC sewer pipe, with valves, fittings, installed	2000	ft	\$ 9.00	\$ 18,000
ALARM SYSTEM	Autodialer, low flow, power sensors	1	ea	\$ 1,500	\$ 1,500
WASTE POND	Excavation, liner	100	cyd	\$ 12.50	\$ 1,250
24' X 24' METAL BUILDING	Excavation, foundation, construction	1	ea	\$ 25,000	\$ 25,000
FINAL SITE WORK	Cleanup, landscaping, gravel roads and parking, fencing	1	ea	\$ 20,000	\$ 20,000
	<b>TOTAL</b>				<b>\$ 150,275</b>
<b>NOTES:</b>					
Costs estimates are preliminary and subject to final engineering design.					
Permit costs, engineering design not included.					
<b>ASSUMPTIONS:</b>					
Three phase power is delivered to the site at no capital cost.					
Excavated earth can be spread on site.					
Excavations are above the water table and include no large rock removal.					
Pipeline spoil can be piled adjacent to the trench.					

# AFFIDAVIT OF PUBLICATION

STATE OF WASHINGTON }  
COUNTY OF LEWIS } ss

The undersigned, on oath state that he/she is an authorized representative of The East County Journal, a weekly newspaper, which newspaper is a legal newspaper of general circulation and it is now and has been for more than six months prior to the date of publication hereinafter referred to, published in the English language continuously as a weekly newspaper in Morton, Lewis County, Washington, and it is now and during all of said time was printed in an office maintained at the aforesaid place of publication of this newspaper.

The notice in the exact form annexed, was published in regular issues of The East County Journal which was regularly distributed to its subscribers during the below stated period.

The annexed notice, a

Department of Fish and Wildlife

Application No. S2-29604

was published on May 26 and June 2, 1999

The amount of the fee charged for the foregoing publication is the sum of \$ 45.00

Subscribed and sworn to before me this 25 day of June 19 99

Kathryn A Lyons

Notary Public in and for the State of Washington  
Residing at Morton

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY  
NOTICE OF APPLICATION TO  
APPROPRIATE PUBLIC WATERS:

TAKE NOTICE:

That Department of Fish and Wildlife of Vancouver, Washington on March 4, 1998, under Application No. S2-29604 filed for permit to appropriate public waters, subject to existing rights, from Hall Creek tributary to Johnson Creek then to the Cowlitz River in the amount of 12.0 cubic feet per second as needed each year, for fish propagation/Cowlitz River restoration. The source of the proposed appropriate is located within NE1/4NW1/4, Section 33, Township 13N., Range 9 E.W.M., in Lewis County.

Protests or objections to approval of this application must include a detailed statement of the basis for objections; protests must be accompanied by a two dollar (\$2.00) recording fee and filed with the Department of Ecology, at the address shown below, within thirty (30) days from: June 2, 1999.

Department of Ecology  
P.O. Box 47775

Olympia, WA 98504-7775

Published in The East County Journal  
May 26 and June 2, 1999.

Received 1/1/99



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

P.O. Box 47775 • Olympia, Washington 98504-7775 • (360) 407-6300

March 29, 1999

Dept of Fish & Wildlife  
2108 Grand Blvd  
Vancouver WA 98661

Dear Sir or Madame:

Re: Water Right Application No. S2-29604

We have received your application for appropriation of water and it has been assigned the number referenced above. If you contact us in the future regarding this application, it will help us serve you more quickly if you refer to this application number.

Please complete the following two steps:

1. Enclosed is an amended notice of your application, which must be published once a week for two consecutive weeks in a newspaper published in Lewis County. The newspaper should have general circulation in the locality where the water is to be diverted and used, and must be qualified as a legal newspaper. Publishing the notice in a remote part of the county, when not necessary, may be cause for you to be required to republish the notice in a designated newspaper. The enclosed newspaper list may help you select an appropriate newspaper for the area.

Publication should start within 30 days from the date of this letter.

To assure accuracy, it is your responsibility to check the notice carefully before having it published. If you find an error, please contact this office for correction and/or resolution. If we later find an error in your public notice, you will be required to re-publish an amended notice at your expense.

2. After publication, the publishing newspaper should provide you with a notarized original Affidavit of Publication, which should be forwarded to our office as soon as possible. Please do not send a photocopy of the affidavit.

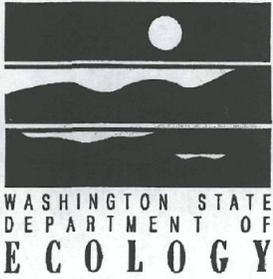
Community water systems are required to be approved by either the local health department or the Department of Health depending upon system size. If you have not already done so, we suggest that you contact either your local health department or the Department of Health, Southwest Drinking Water Operations, Thurston Airdustrial Center, Bldg 3, PO Box 47822, Olympia, Washington 98504-7822 for further information.

If you have any questions or concerns about any of this information, please call (360) 407-0240. Thank you for your attention to this matter.

Sincerely,

Sheri Carroll  
Water Resources Program

SC:th(publicnotice.doc)



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

**NOTICE OF APPLICATION TO APPROPRIATE PUBLIC WATERS**

**TAKE NOTICE:**

That Department of Fish & Wildlife of Vancouver, Washington on March 4, 1998, under Application No. S2-29604 filed for permit to appropriate public waters, subject to existing rights, from Hall Creek tributary to Johnson Creek then to the Cowlitz River in the amount of 12.0 cubic feet per second as needed each year, for fish propagation/Cowlitz River restoration. The source of the proposed appropriation is located within NE1/4NW1/4, Section 33, Township 13 N., Range 9 E.W.M., in Lewis County.

Protests or objections to approval of this application must include a detailed statement of the basis for objections; protests must be accompanied by a two dollar (\$2.00) recording fee and filed with the Department of Ecology, at the address shown below, within thirty (30) days  
from: \_\_\_\_\_ (Last date of publication to be entered above by publisher)

\* NOTICE MUST BE PUBLISHED ONCE A WEEK FOR TWO CONSECUTIVE WEEKS \*

Department of Ecology  
P.O. Box 47775  
Olympia, WA 98504-7775



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

P.O. Box 47775 • Olympia, Washington 98504-7775 • (360) 407-6300

April 3, 1998

Dear Water Right Applicant:

Re: Water Application No. S2-29604

We have received your application for a water right and have assigned the application number indicated above. It would help us if you referred to it by number in future correspondence.

Due to a shortage of staff to meet the demand for service, new applications are being accepted and filed for future processing, but a public notice will not be sent at this time. Because we have approximately 5,000 pending applications for water rights statewide, it may be some time before we can get to your application. When we begin processing your application, we'll prepare a public notice and send it to you with publication instructions. It is very important that you notify us of any change of address or ownership of the property; or, if your plans for water use change.

We are working on the oldest applications on file as quickly as we are able. We are also looking for ways to speed up decision making. Please keep in mind that filing an application for water use does not authorize use of the water. With the many complexities of water law, including issues such as senior rights, fish habitat, and instream flows, favorable permit decisions are not always possible. I regret that a decision on your application cannot be made sooner and strongly advise against investing further in your project unless you are issued a water right permit.

I apologize that this is the best we can do currently. To better manage limited staff time, we have set the following office hours:

Telephone Calls

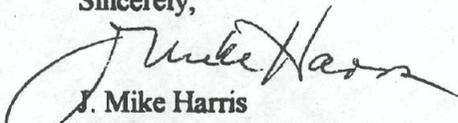
Mondays and Wednesdays  
8:00 am to 4:00 pm

Walk-ins

Tuesdays and Thursdays  
8:00 am to 12:00 (noon)

We will respond to your questions and concerns as soon as possible. Thank you for your continued patience.

Sincerely,

  
J. Mike Harris  
Water Resources Supervisor

JMH:th (ackapp.doc)

S

