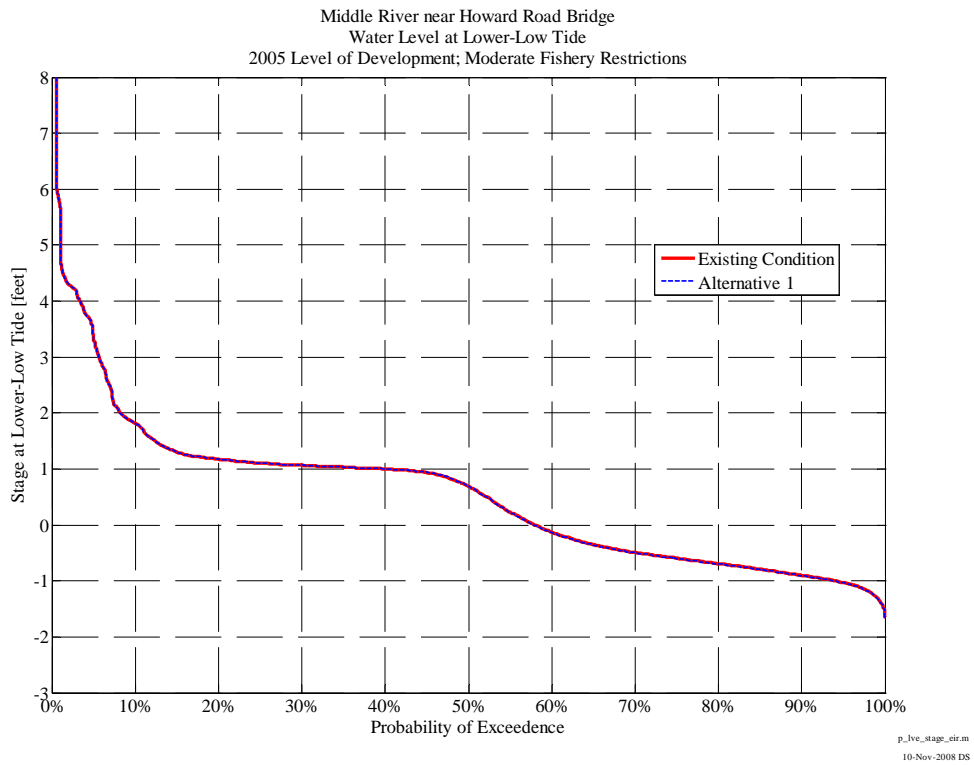
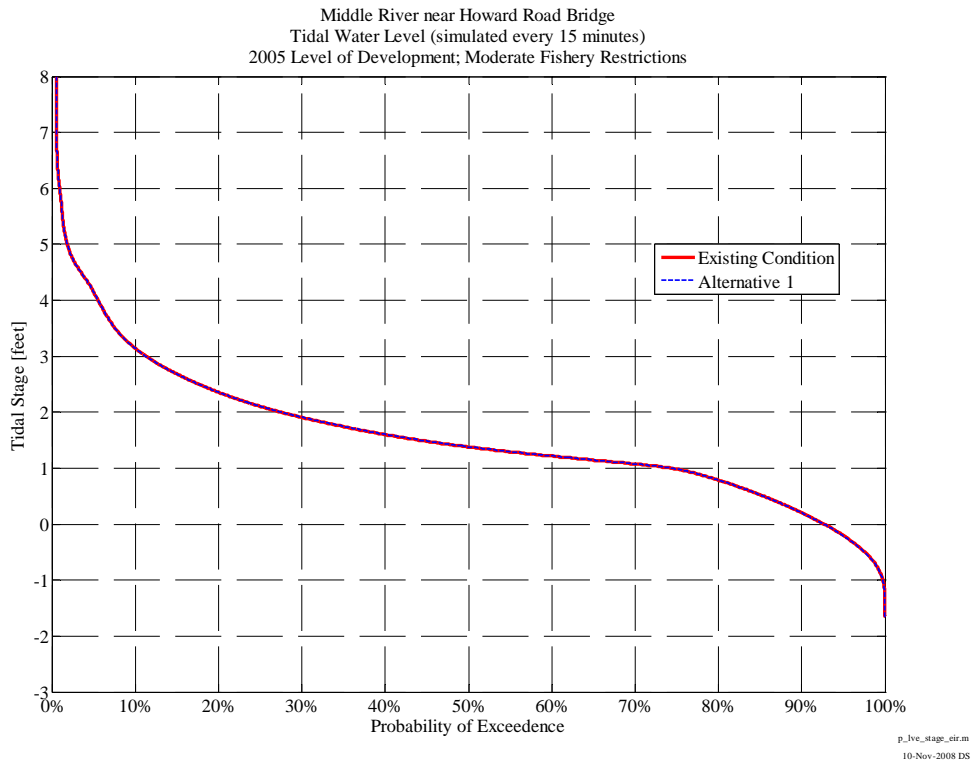
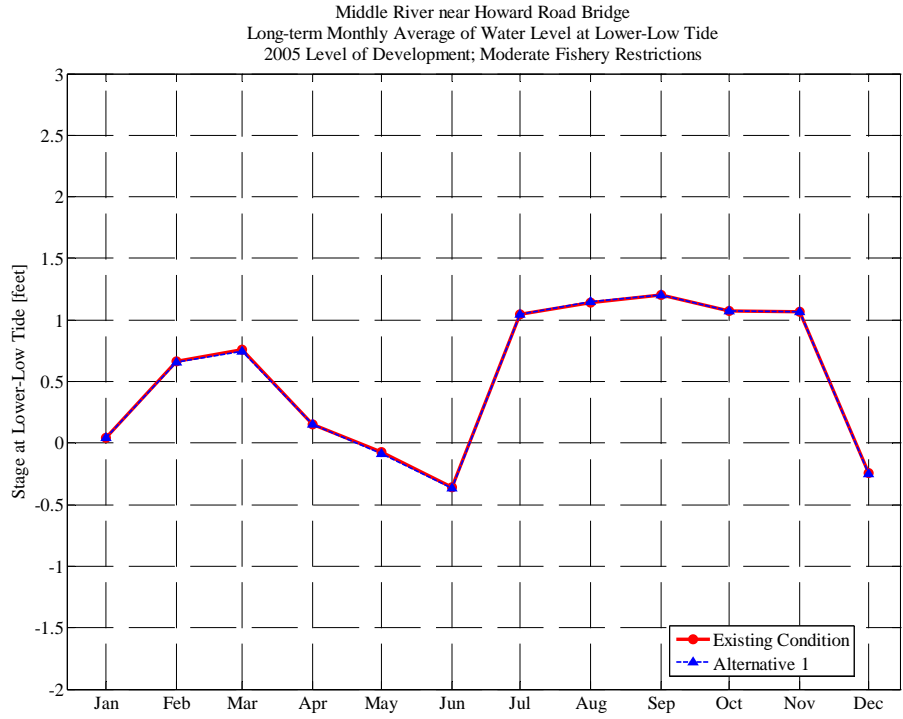


## Water Level

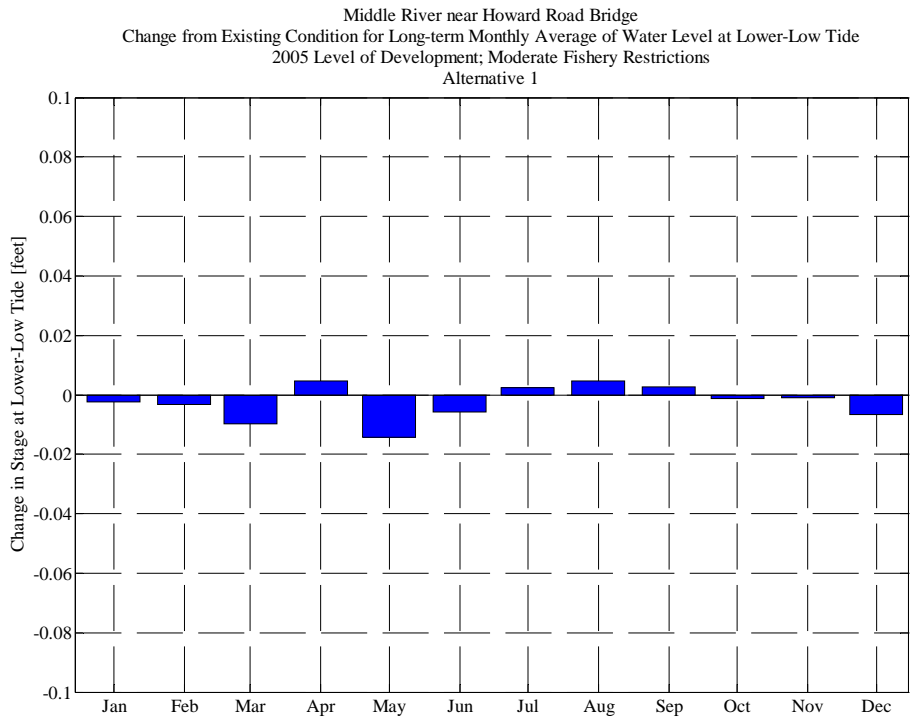
# Middle River near Howard Road Bridge

## Alternative 1



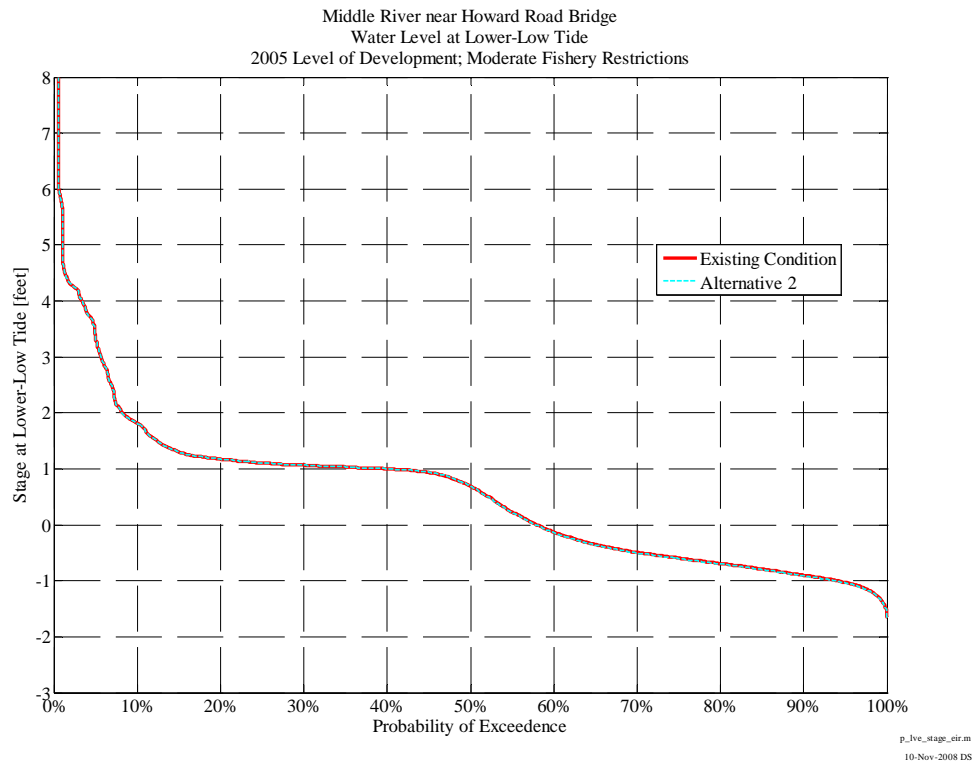
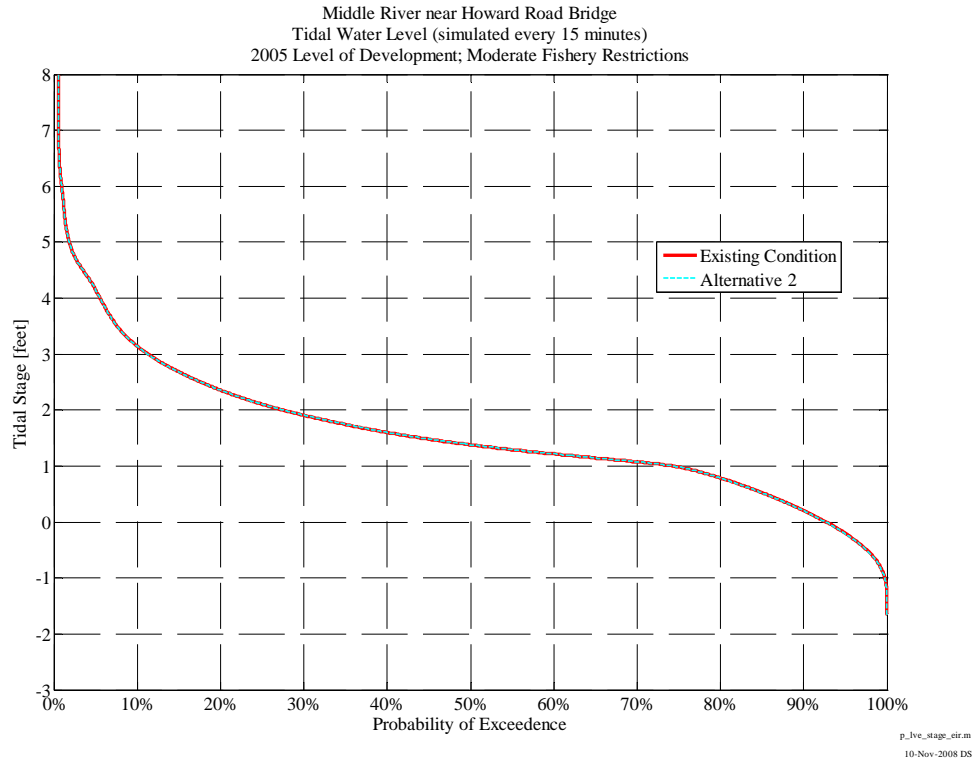


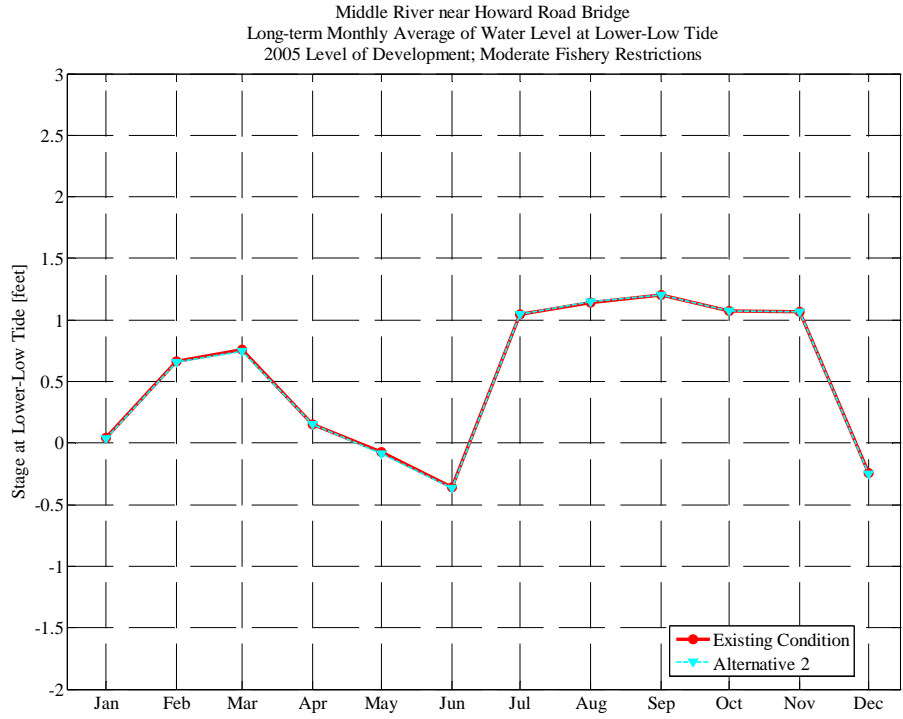
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



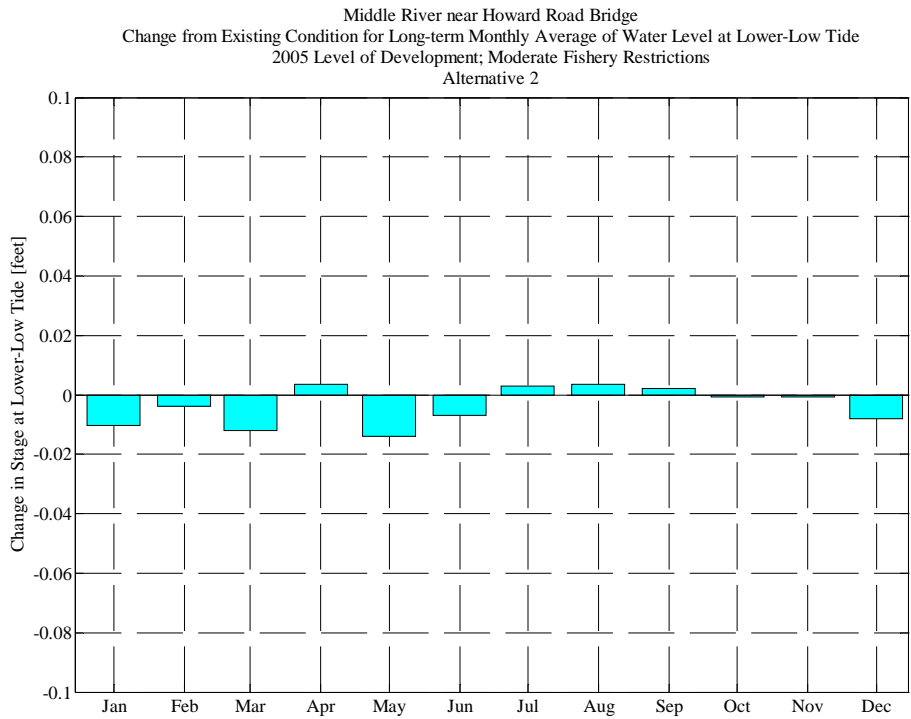
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

## Alternative 2



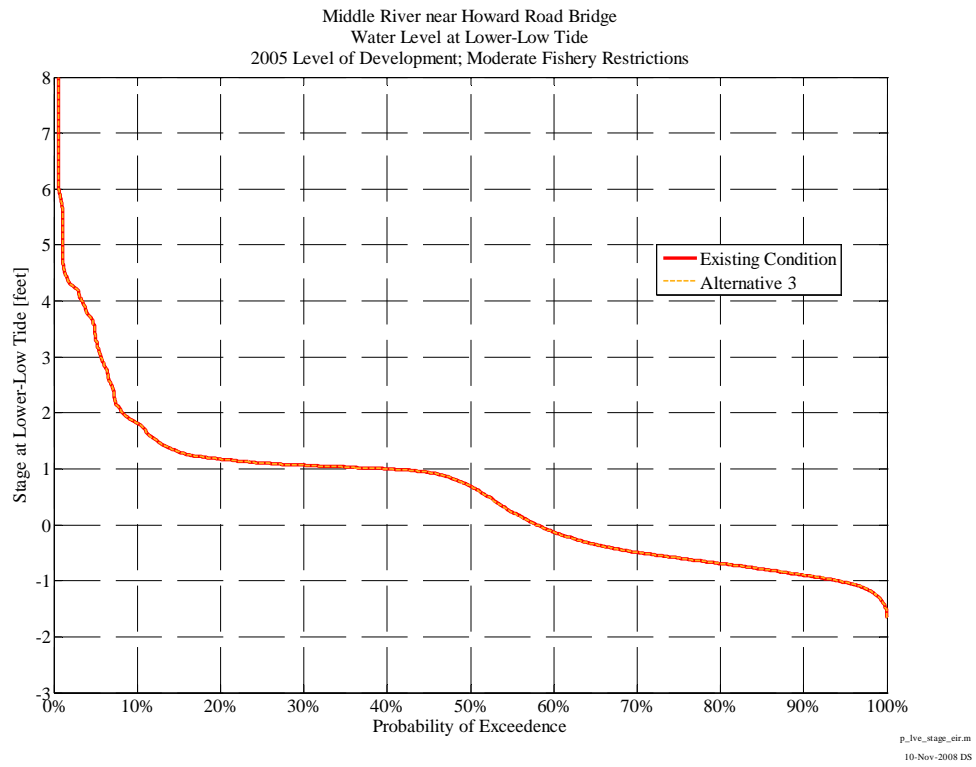
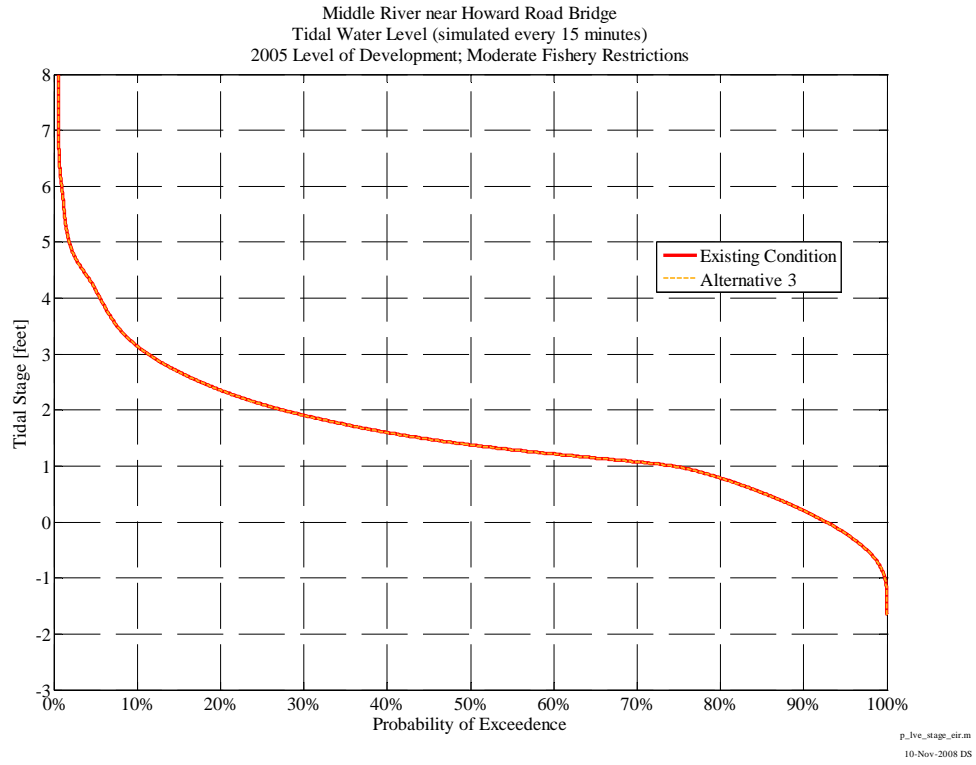


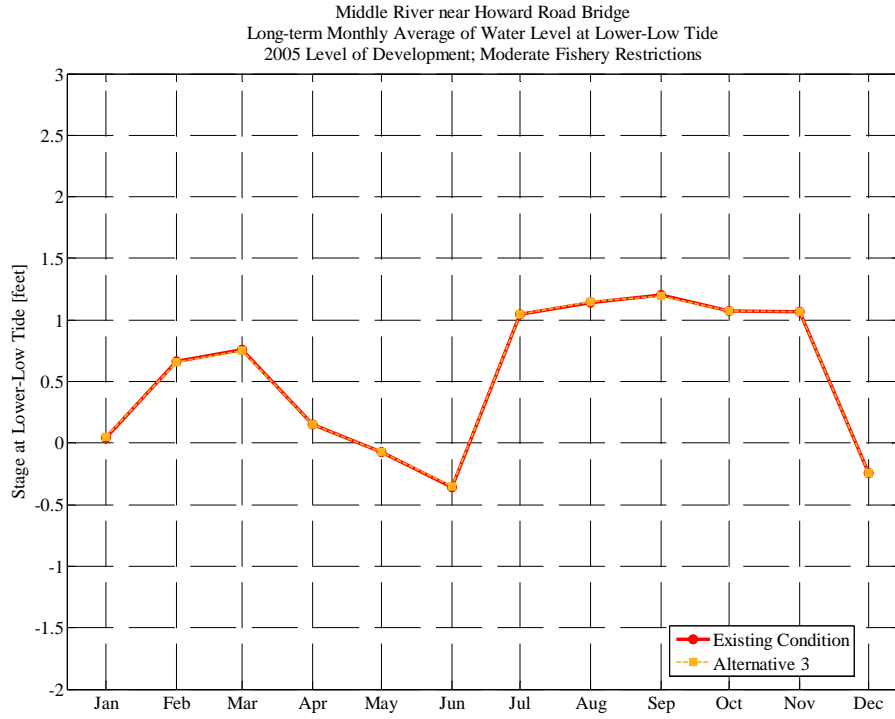
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



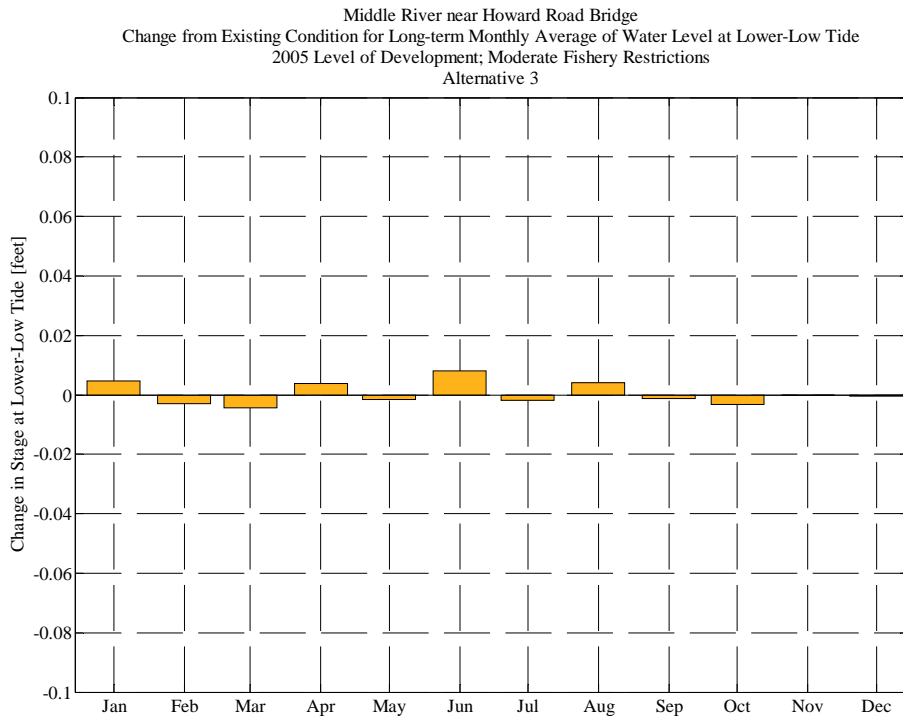
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



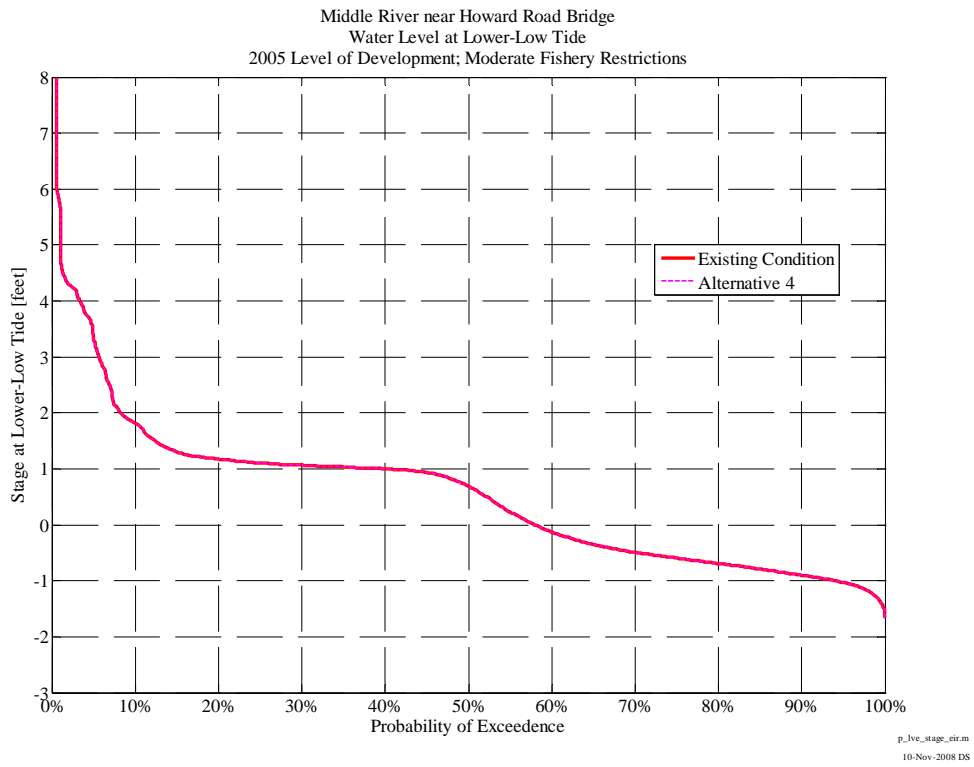
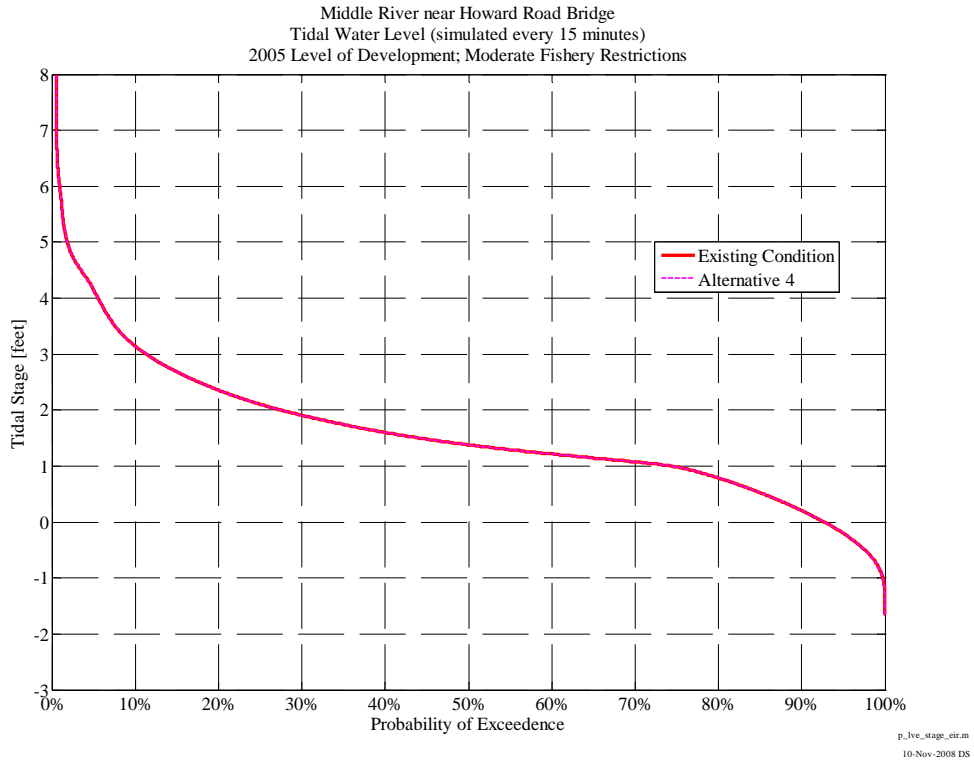


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

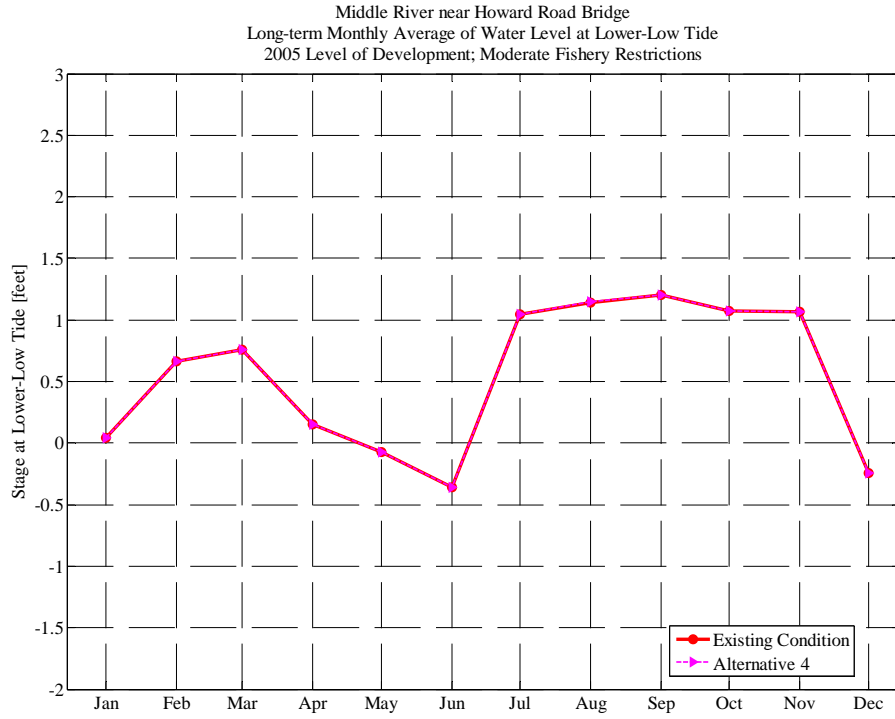


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

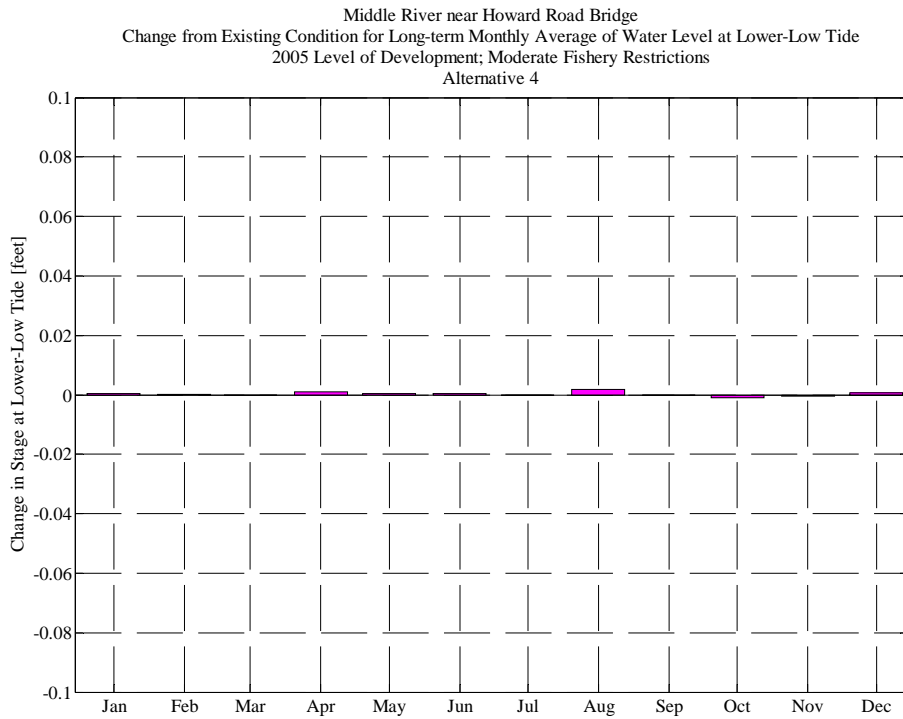
### Alternative 4







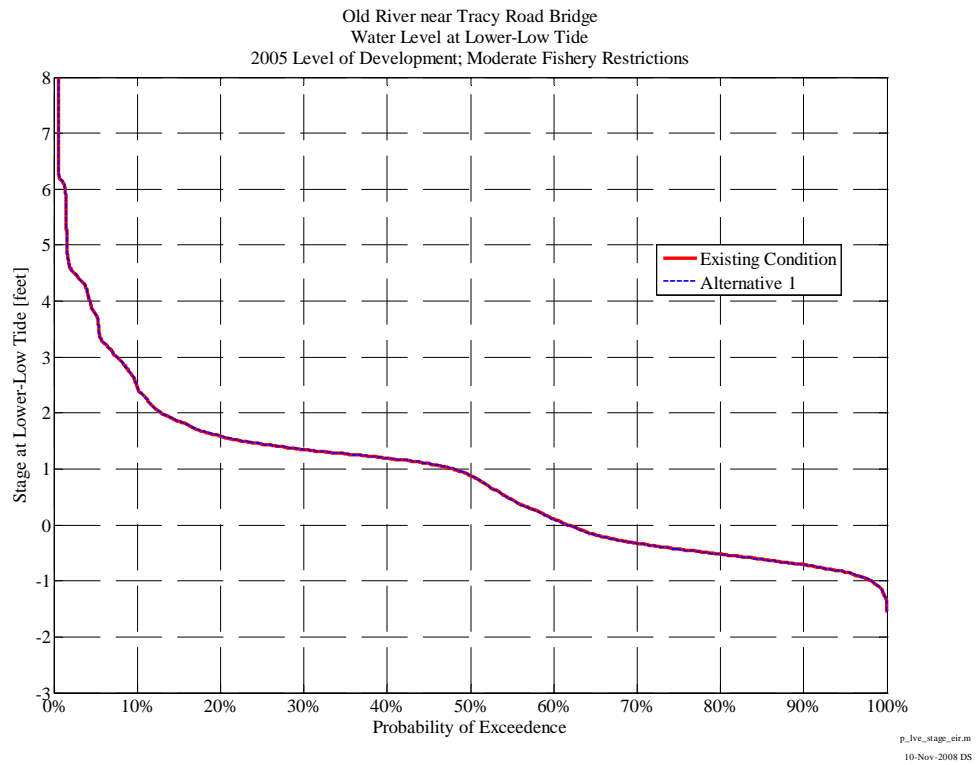
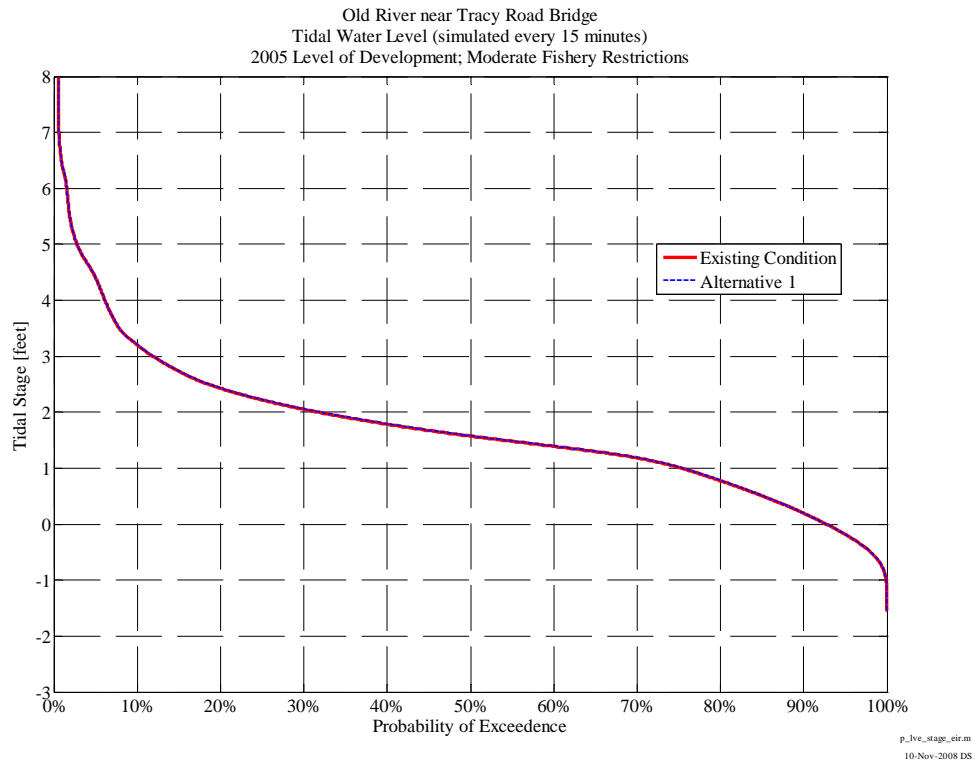
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

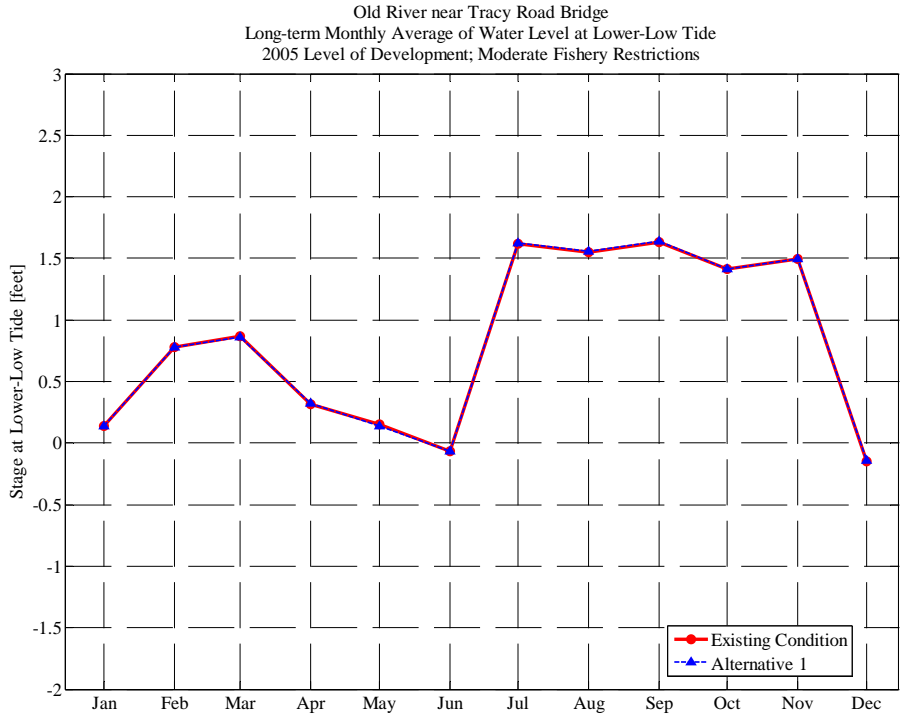


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

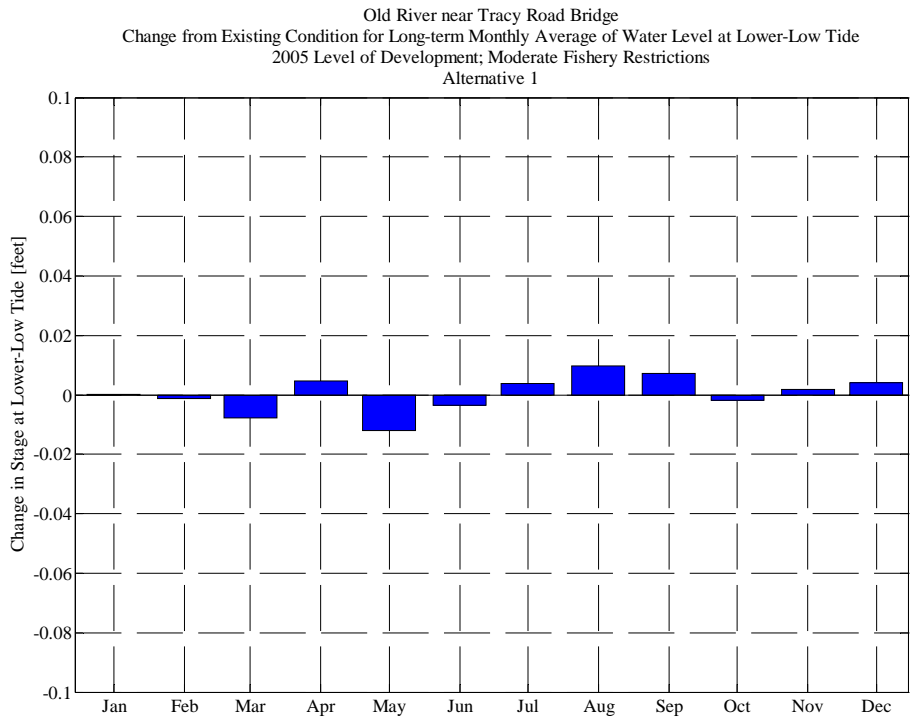
# Old River near Tracy Road Bridge

## Alternative 1



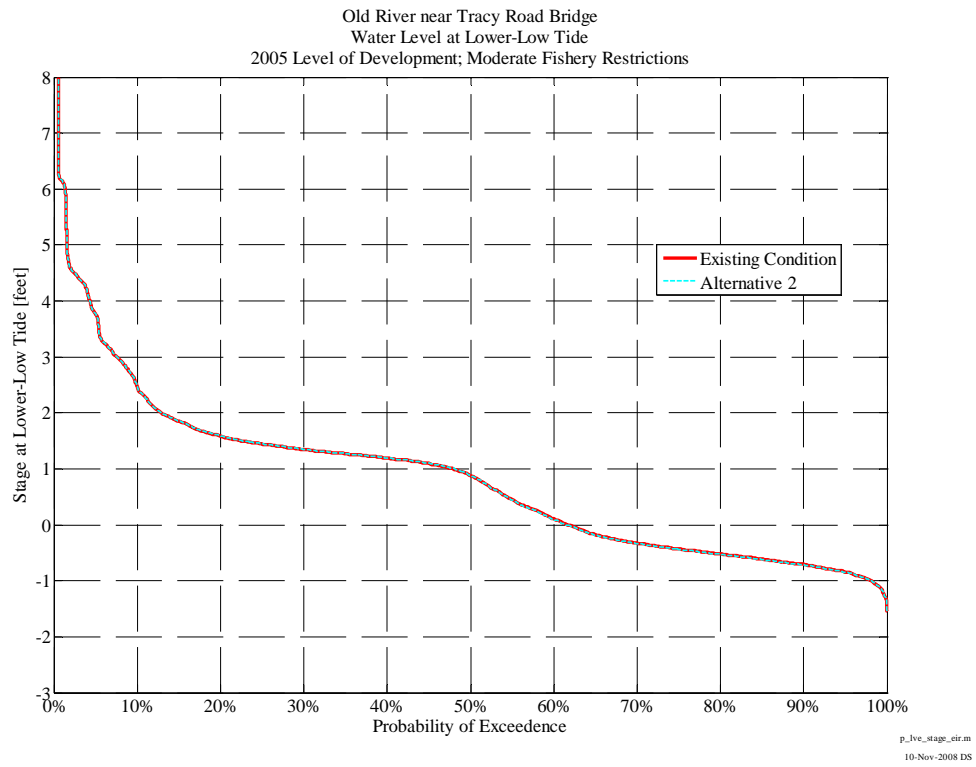
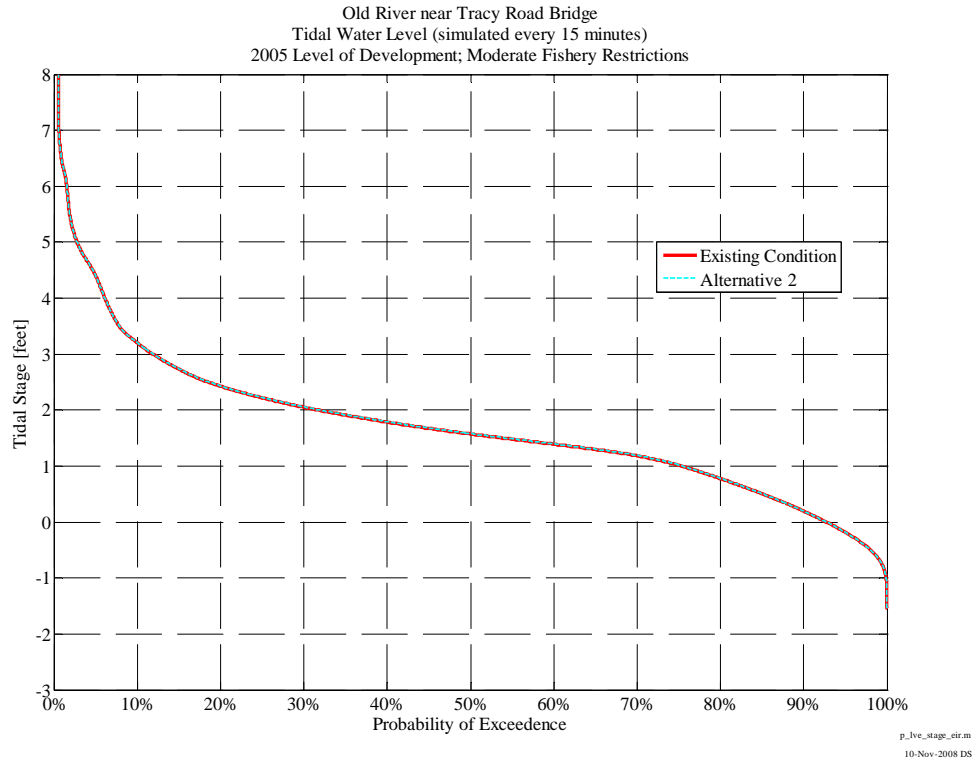


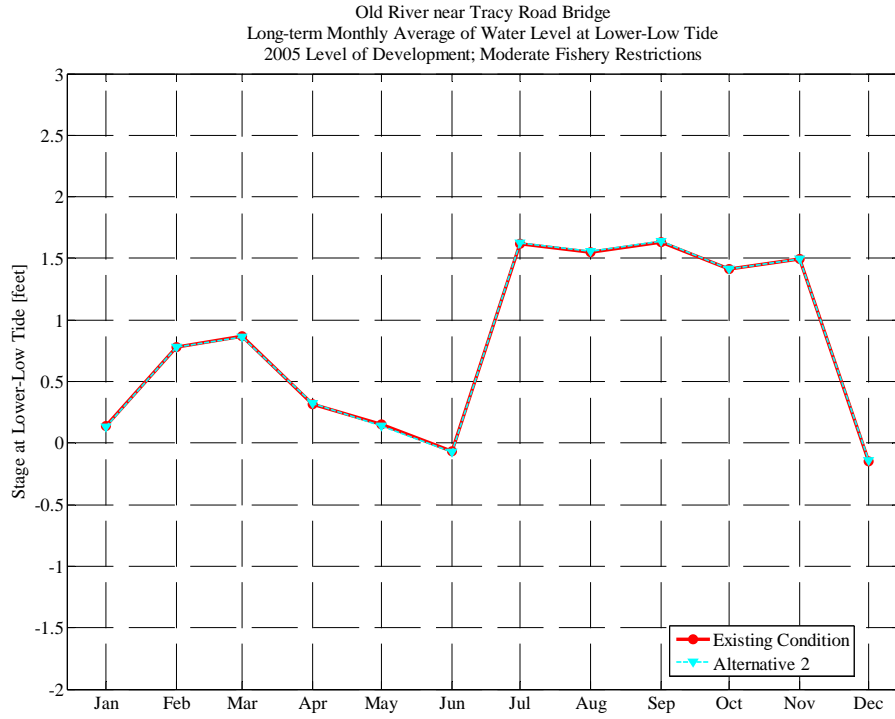
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



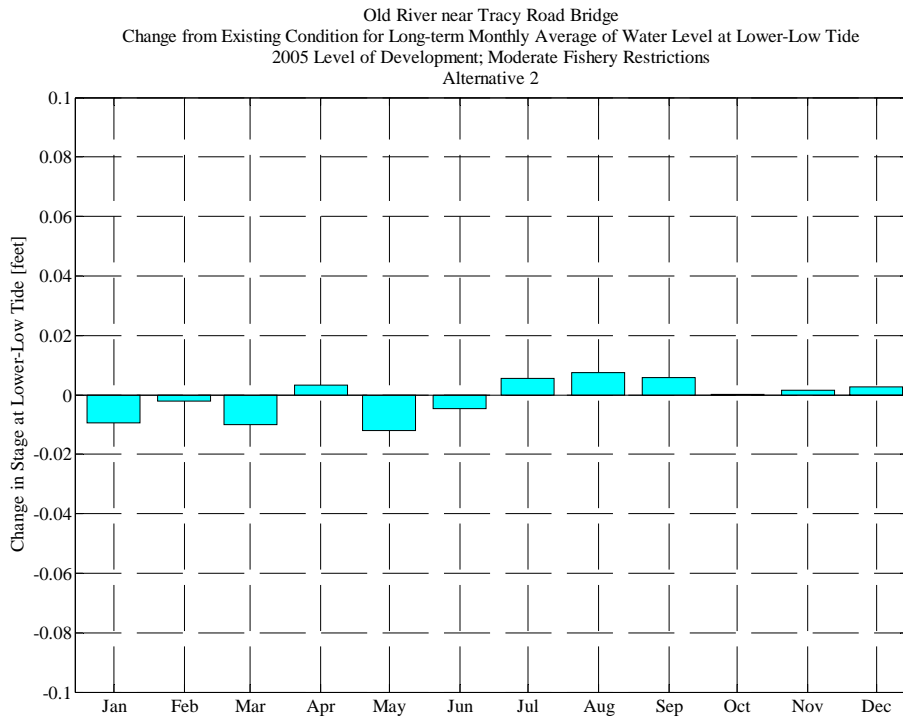
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

## Alternative 2



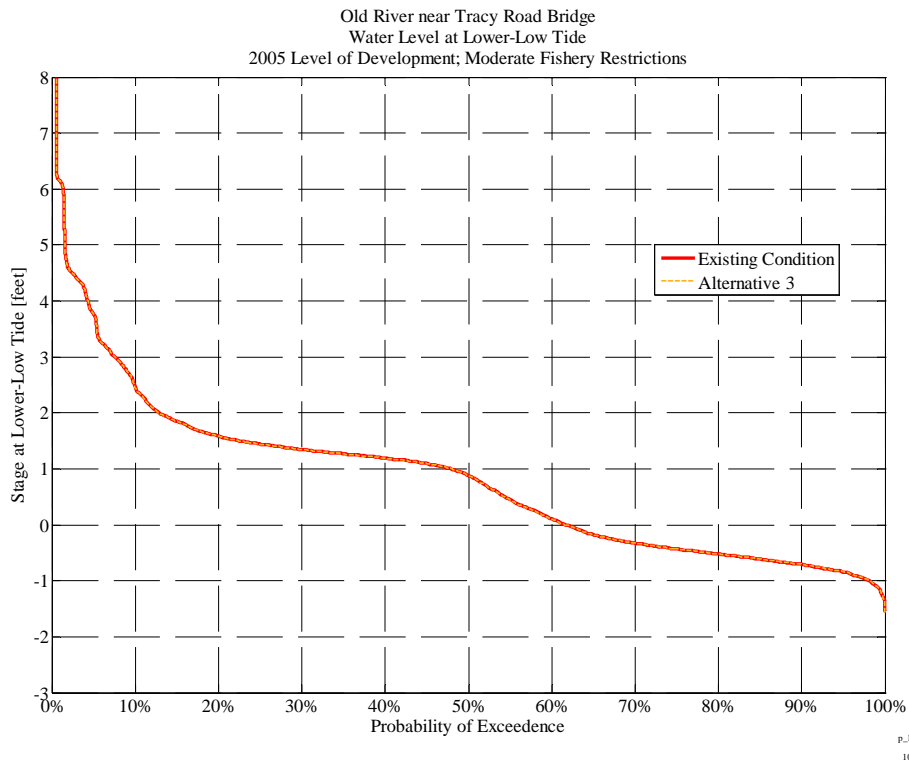
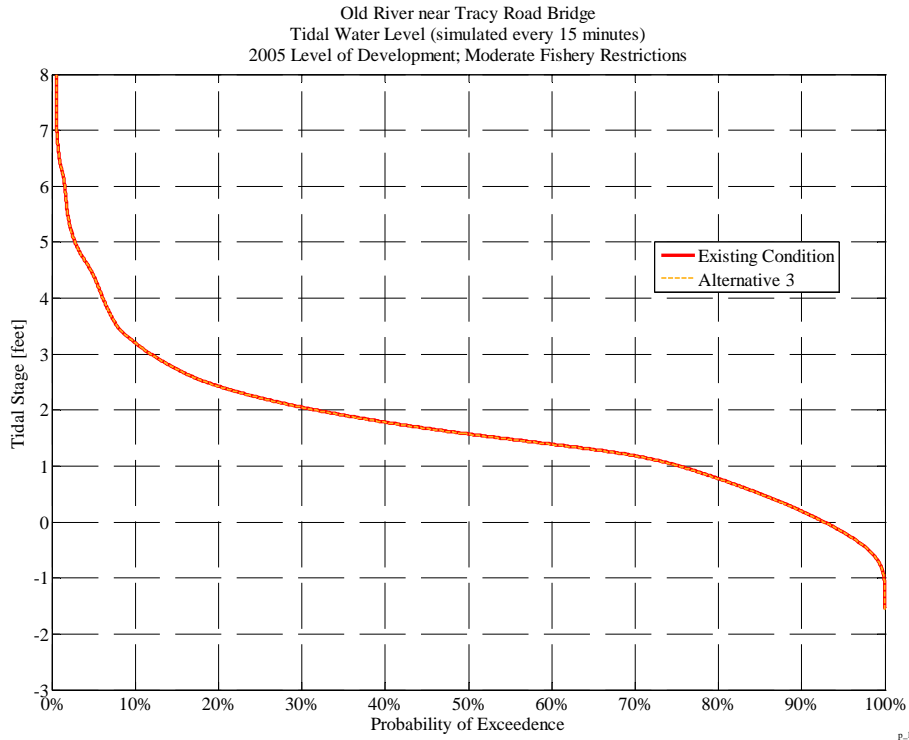


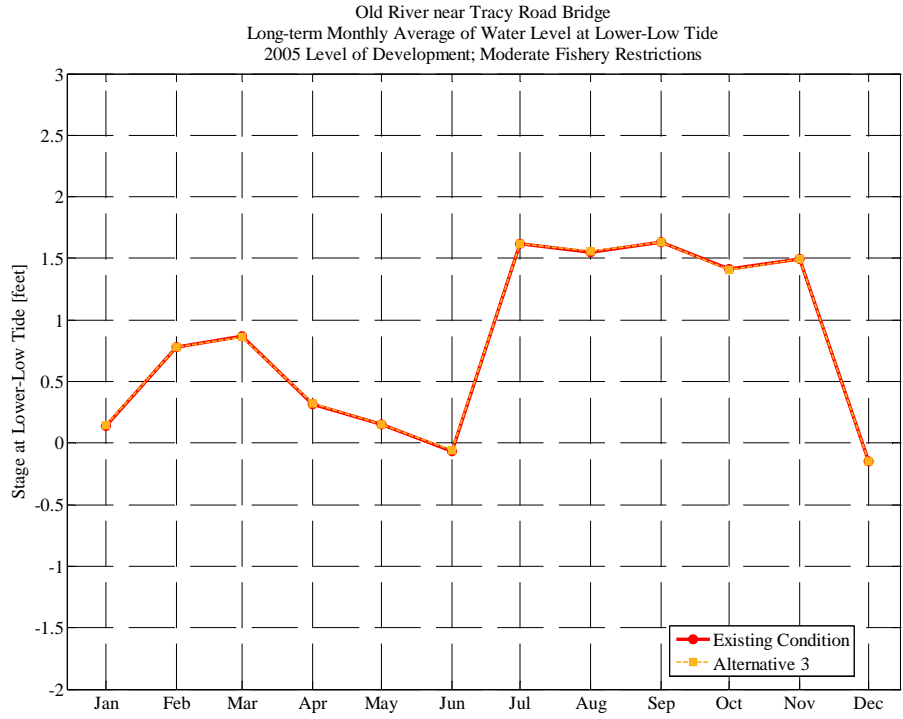
p\_lve\_stage\_eir.m  
 10-Nov-2008 DS



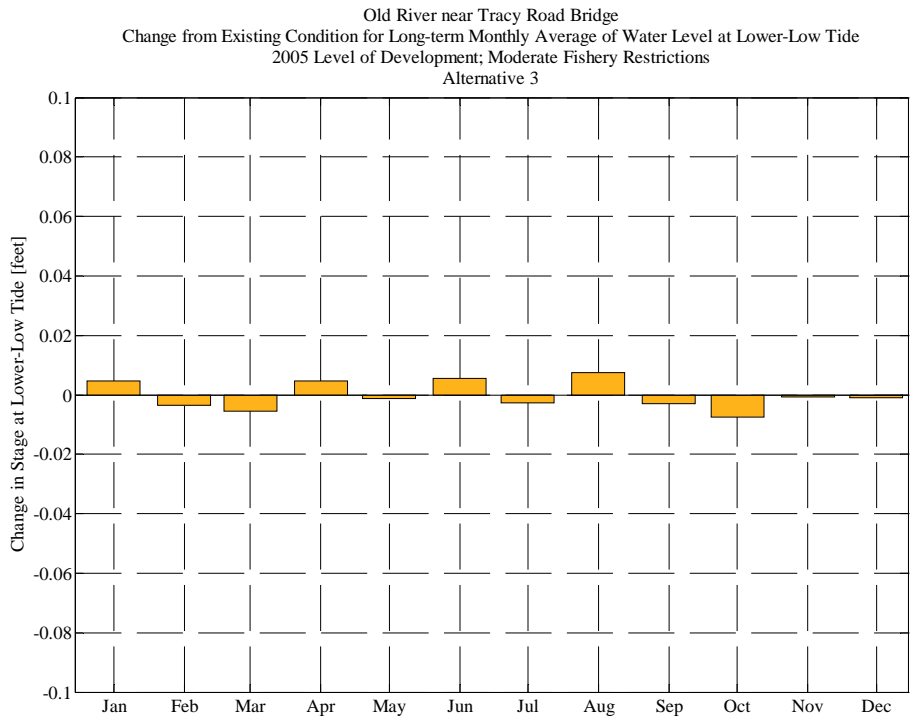
p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

### Alternative 3



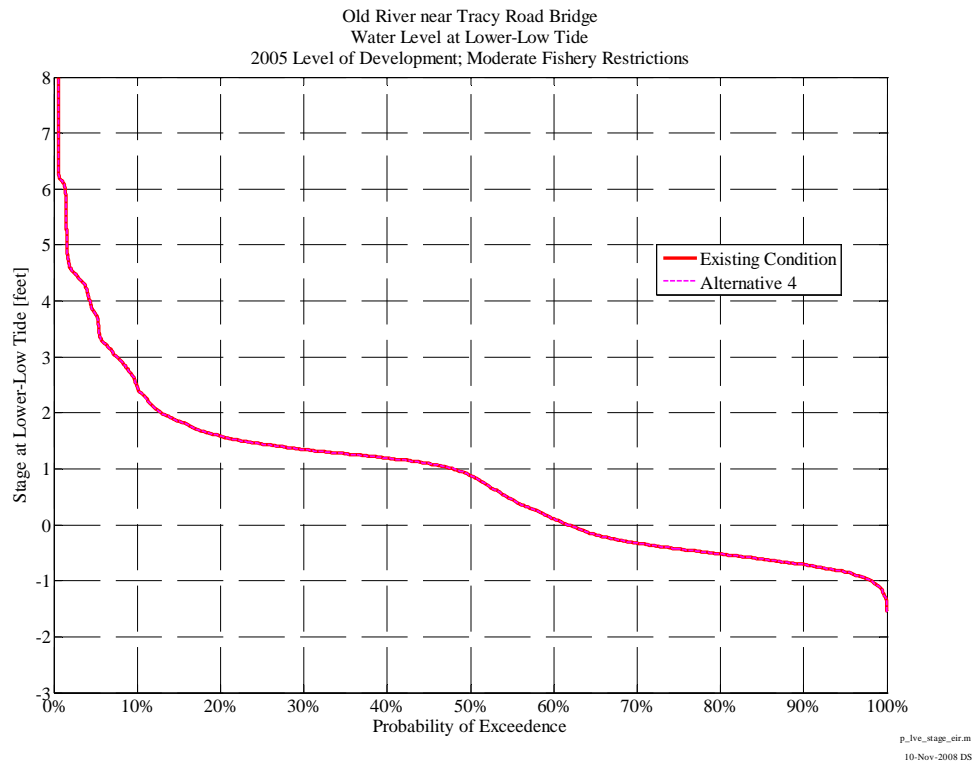
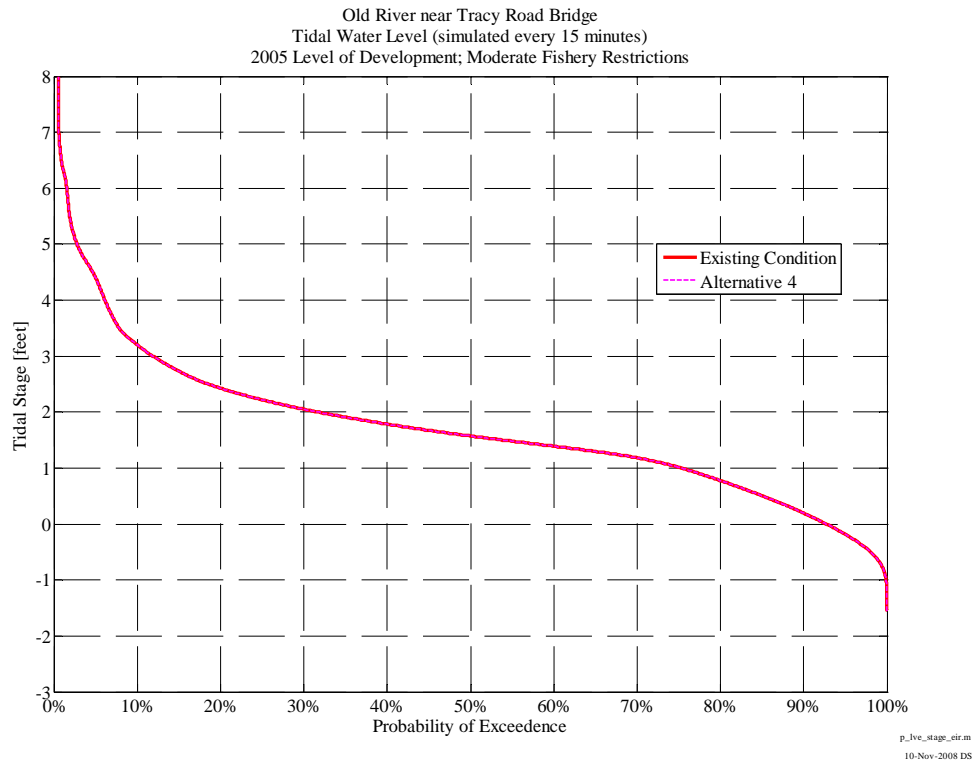


p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

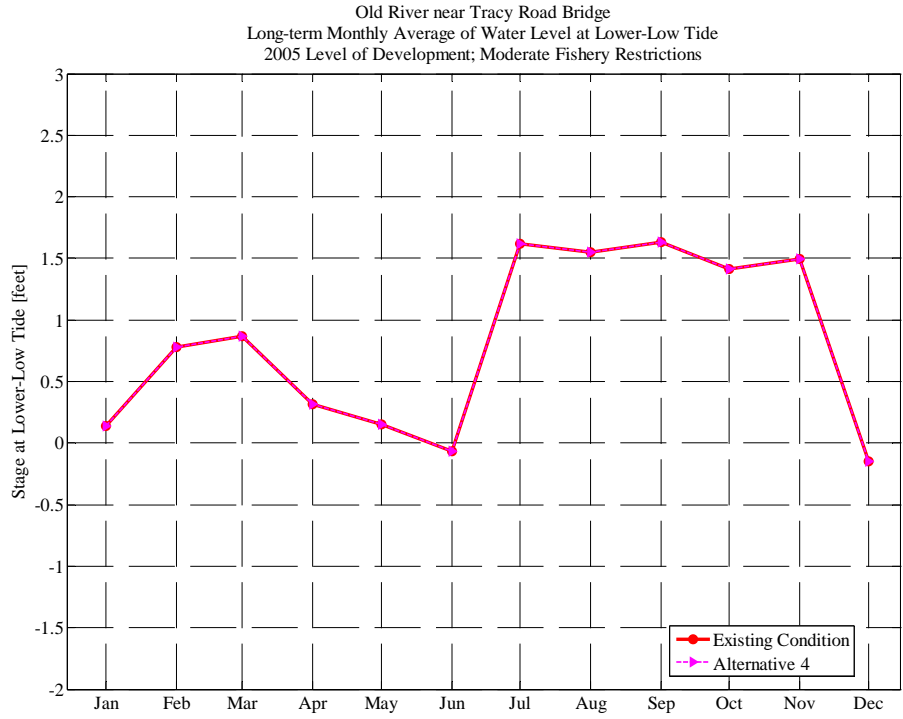


p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

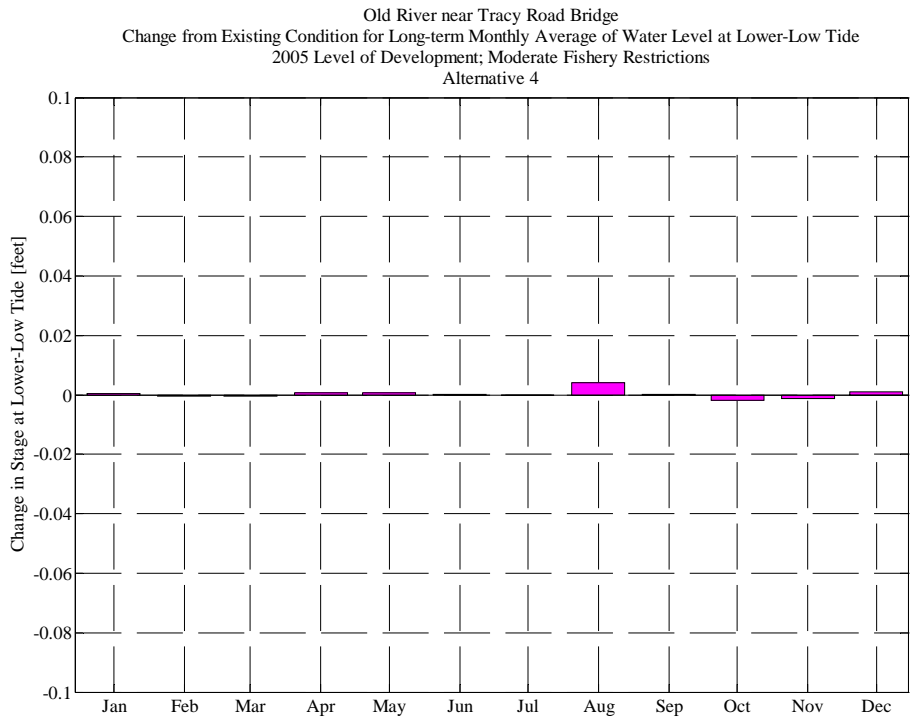
### Alternative 4







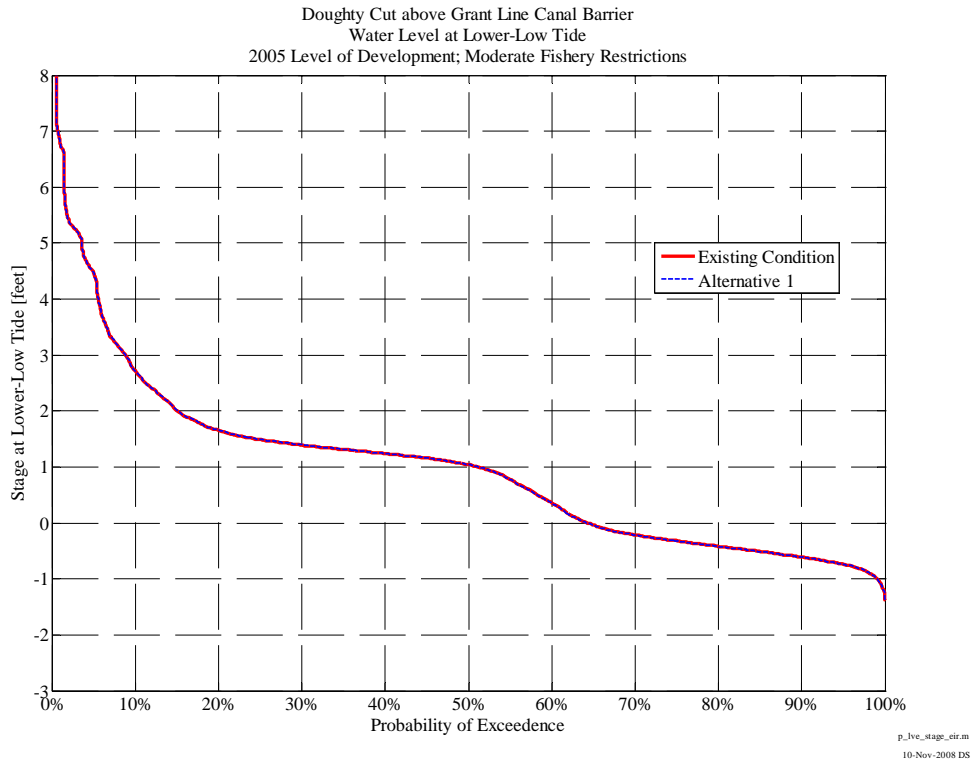
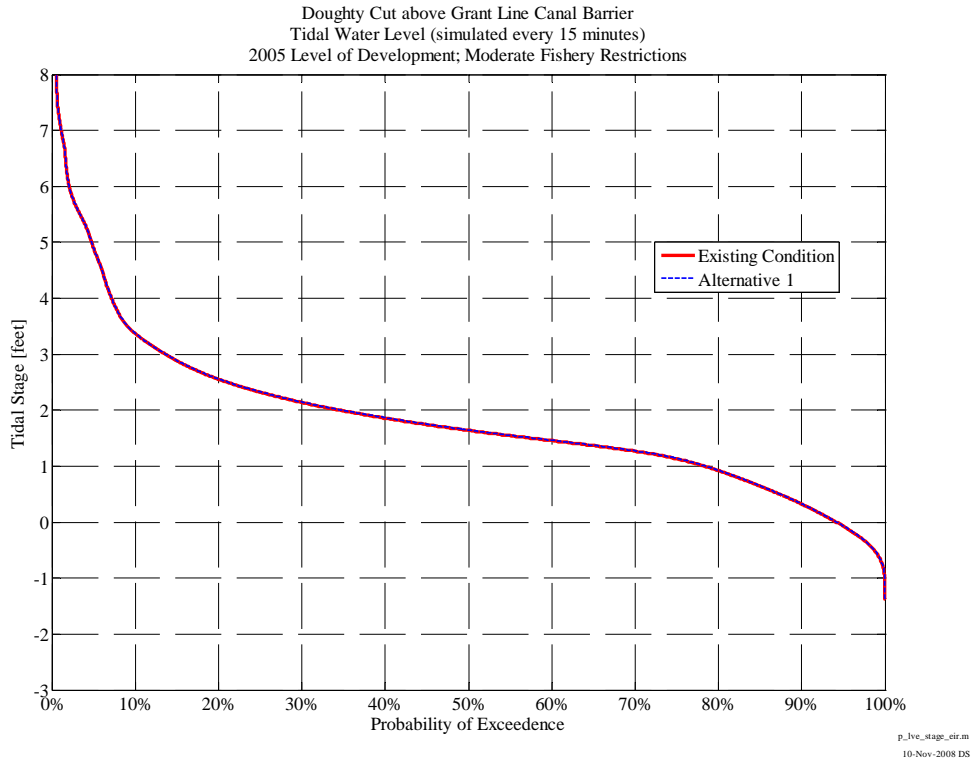
p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

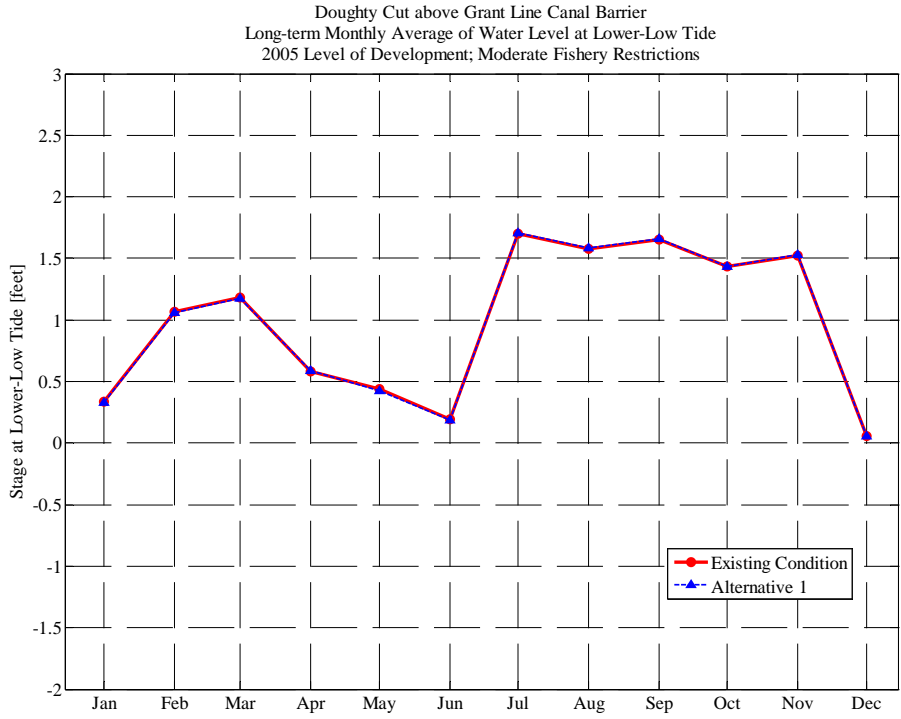


p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

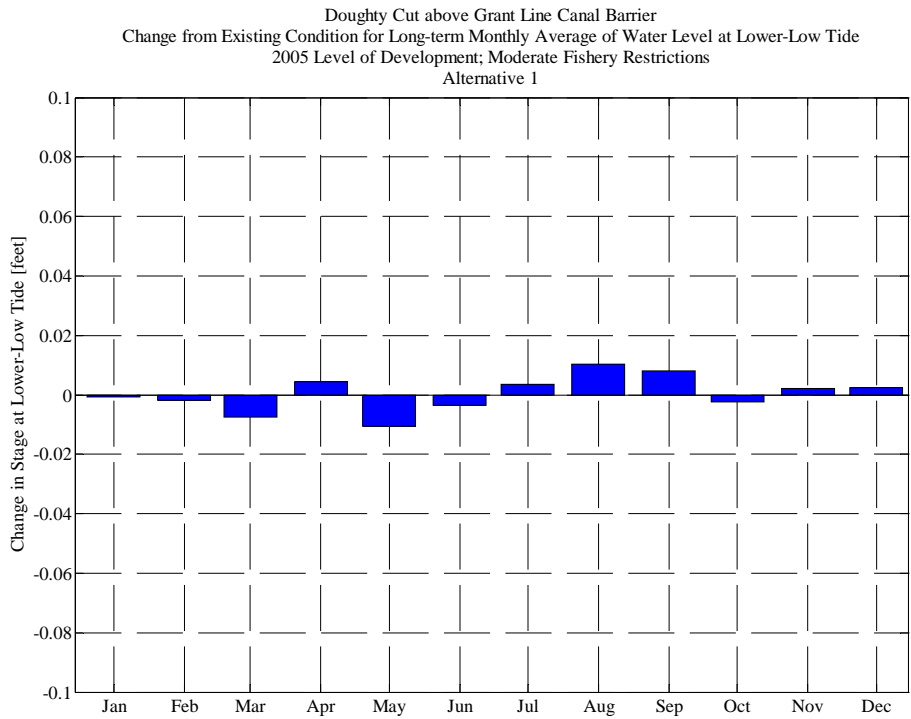
# Doughty Cut above Grant Line Canal Barrier

## Alternative 1



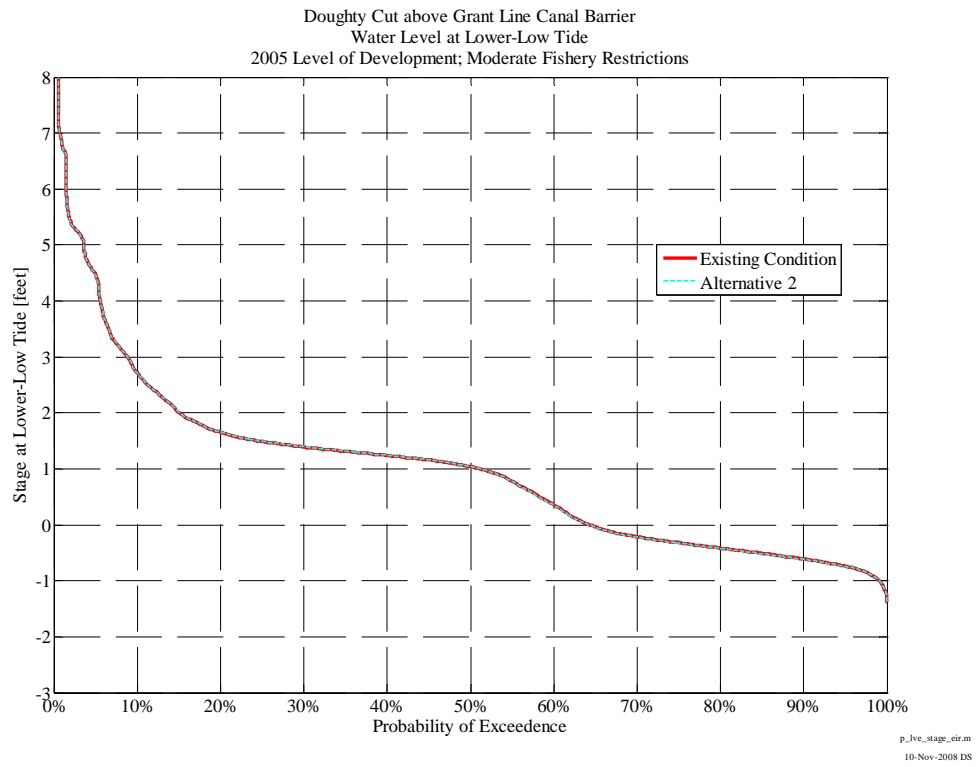
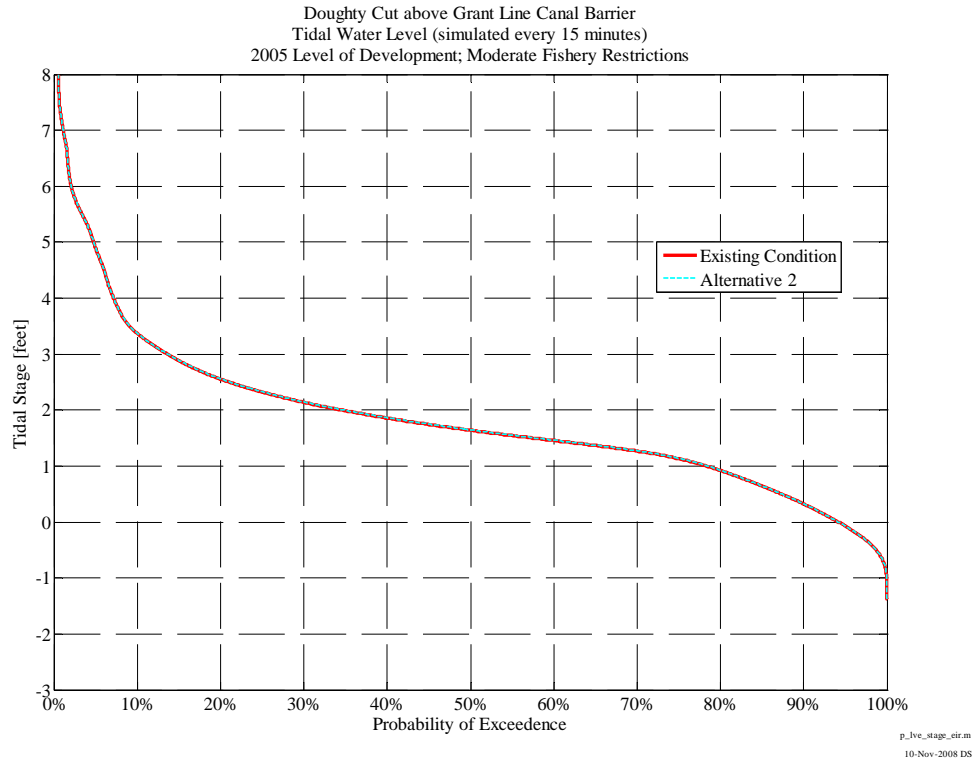


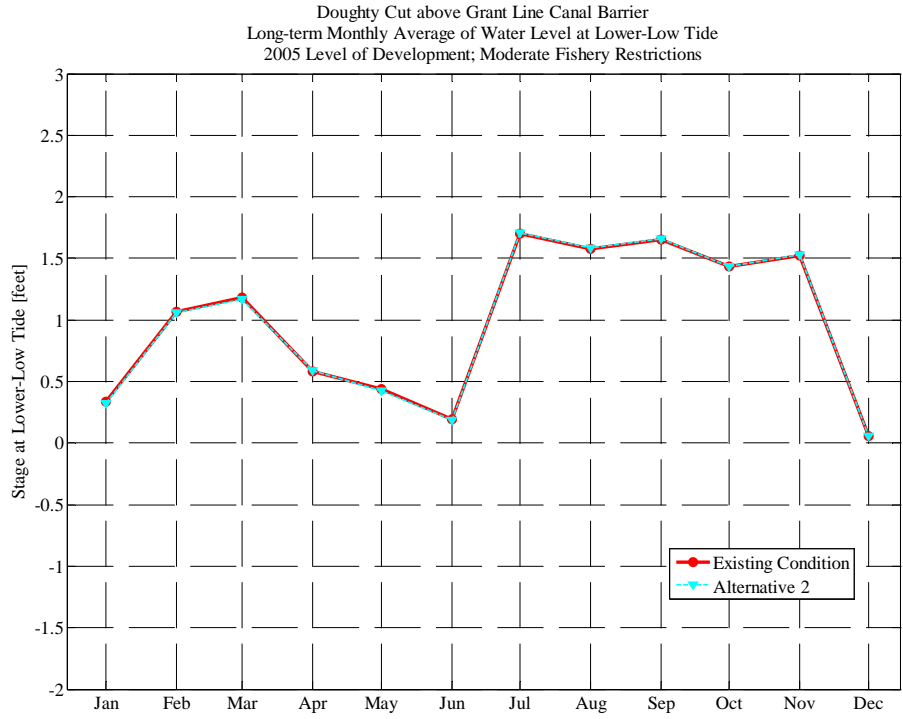
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



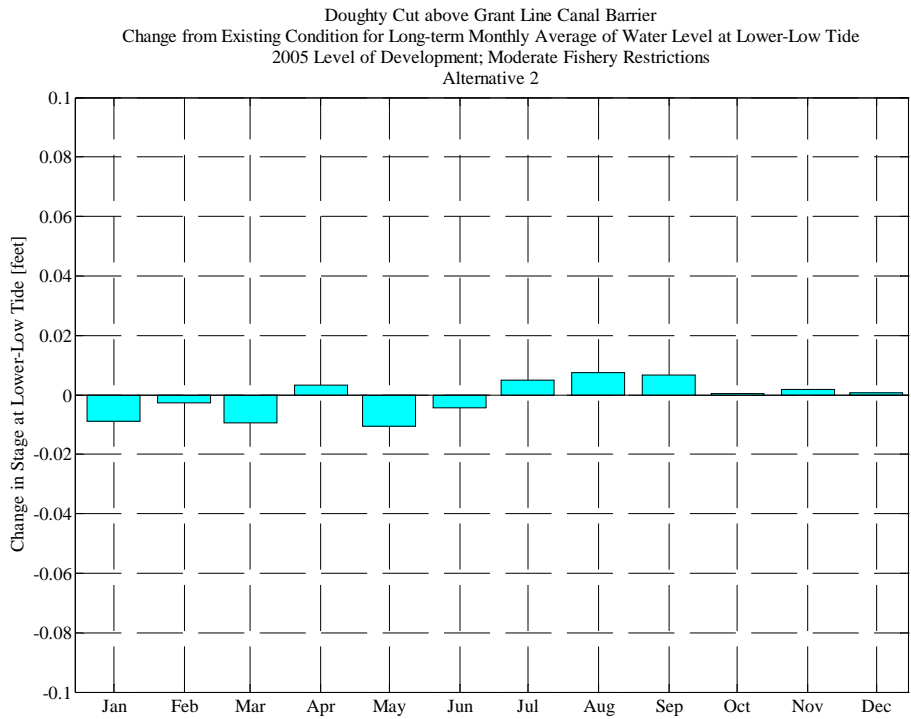
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

## Alternative 2



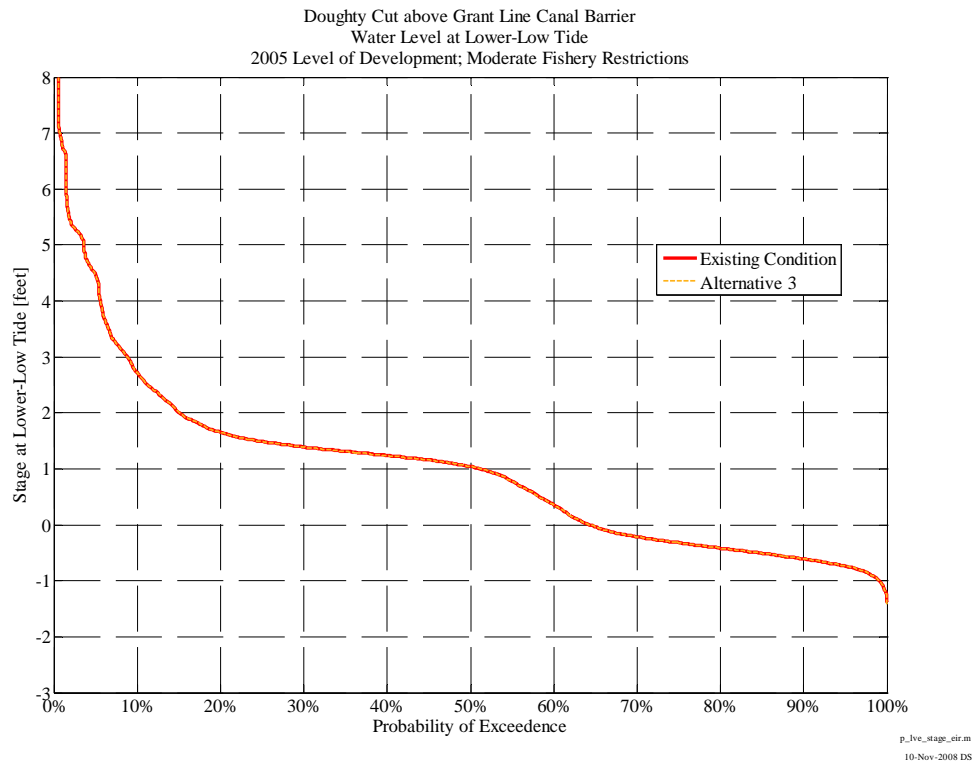
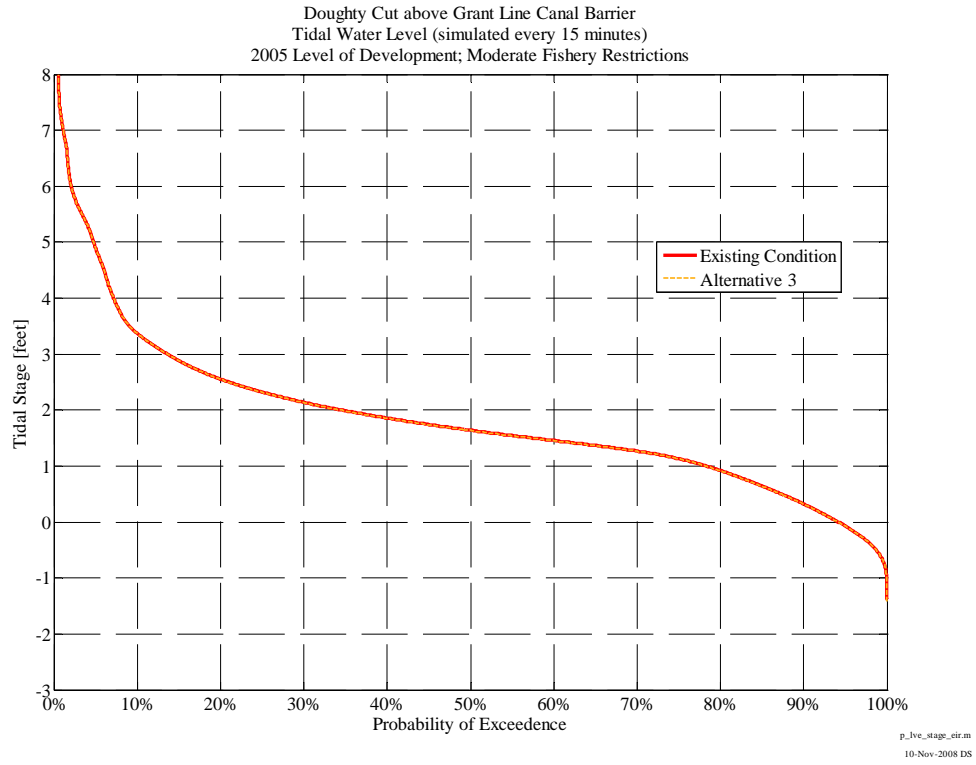


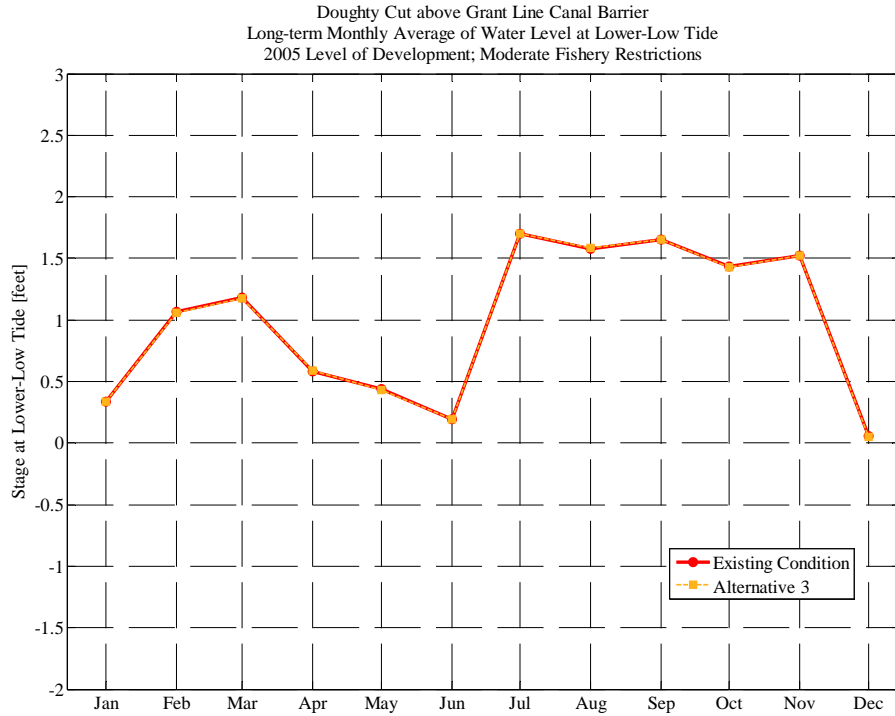
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



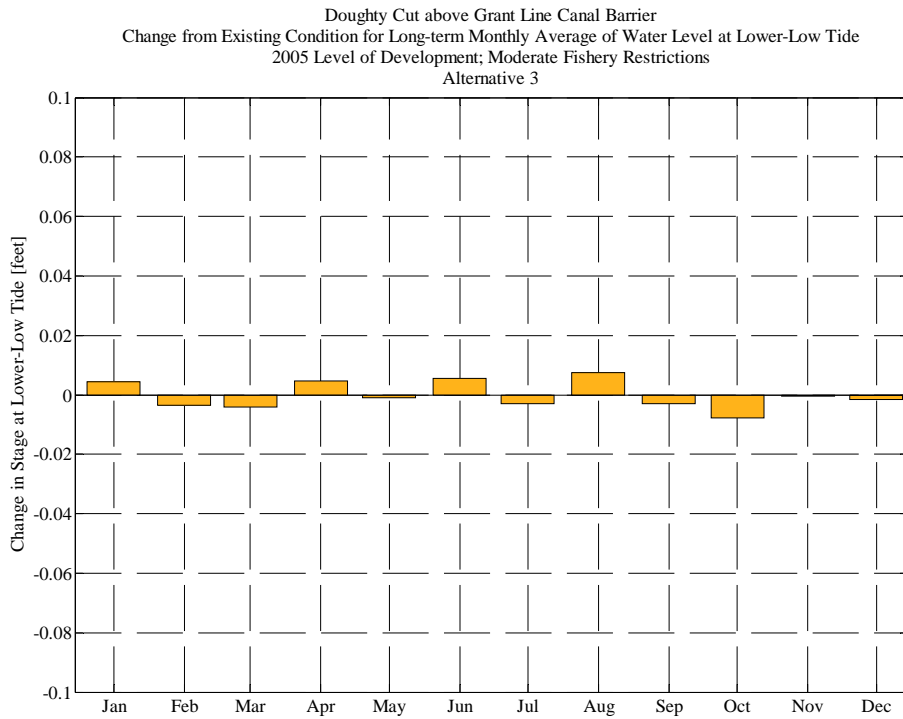
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



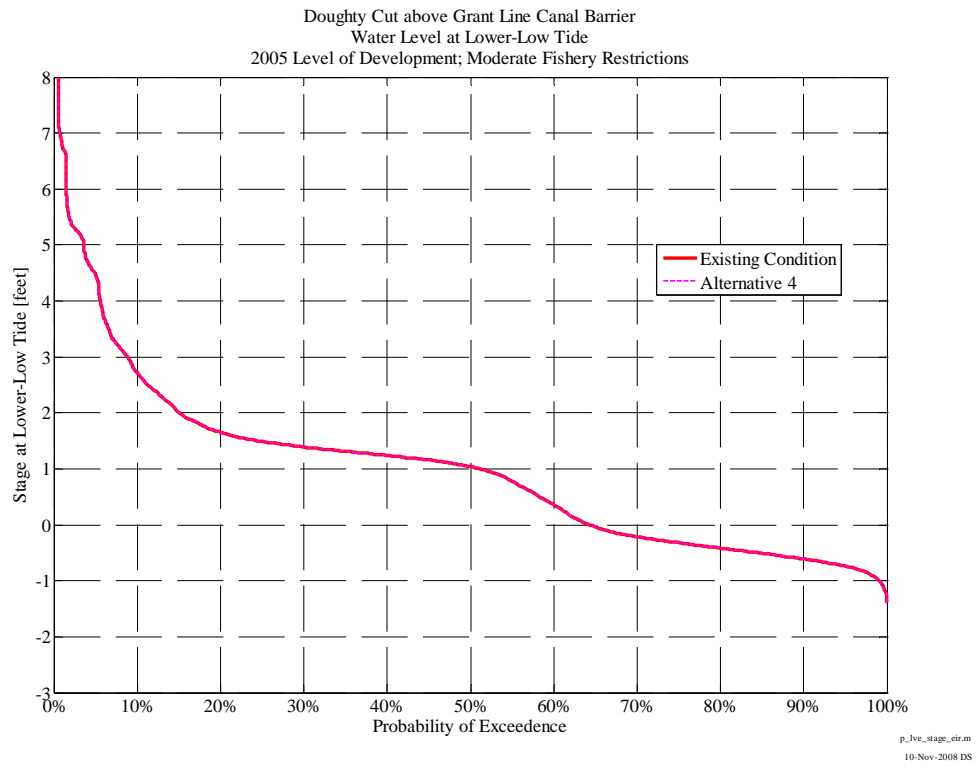
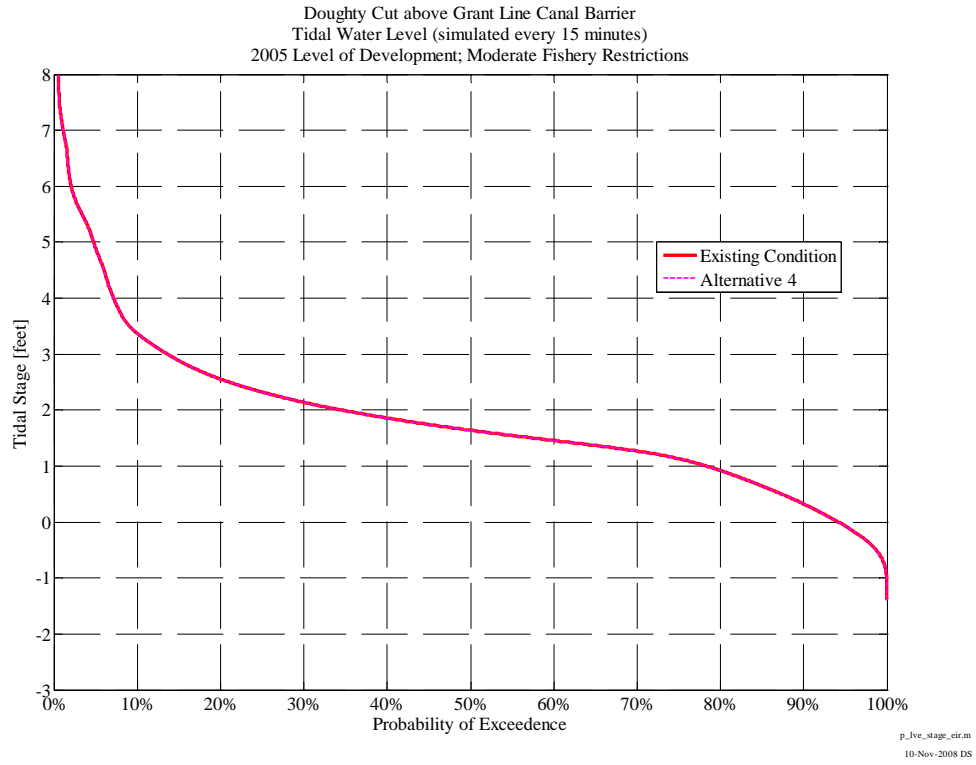


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

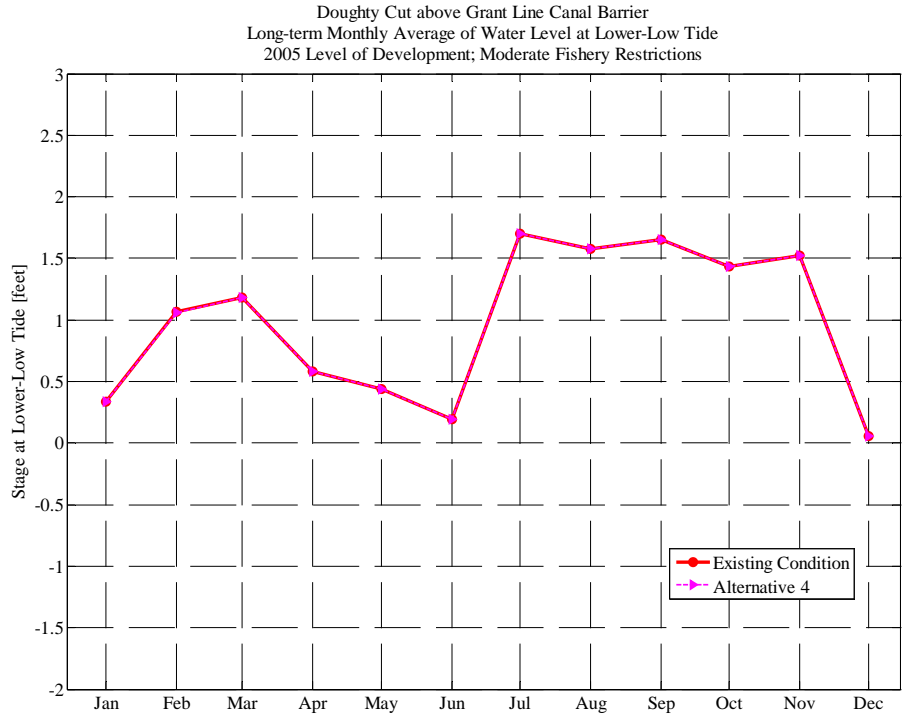


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

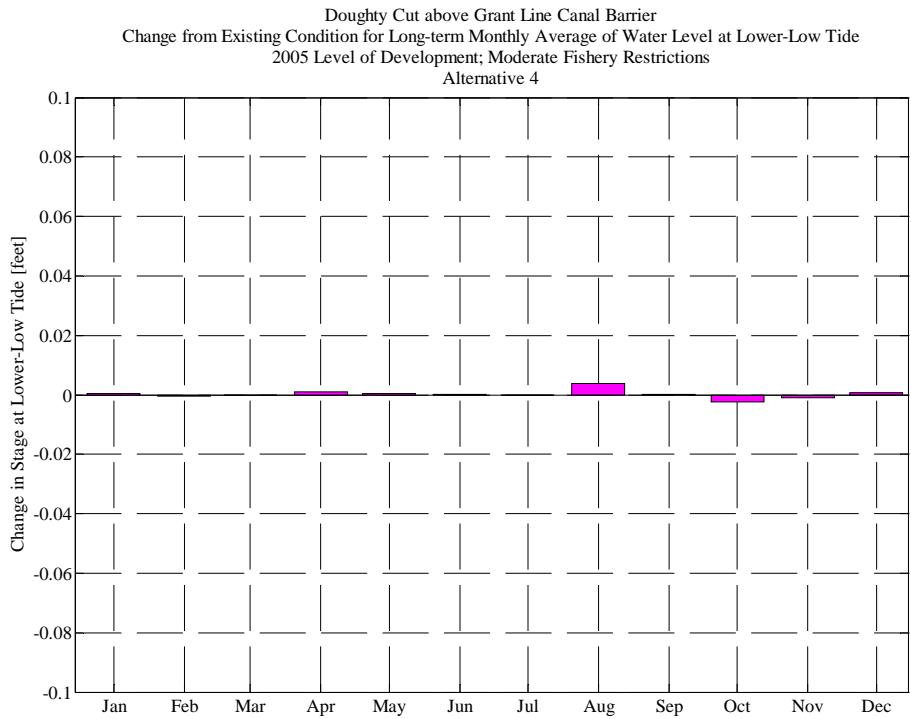
### Alternative 4







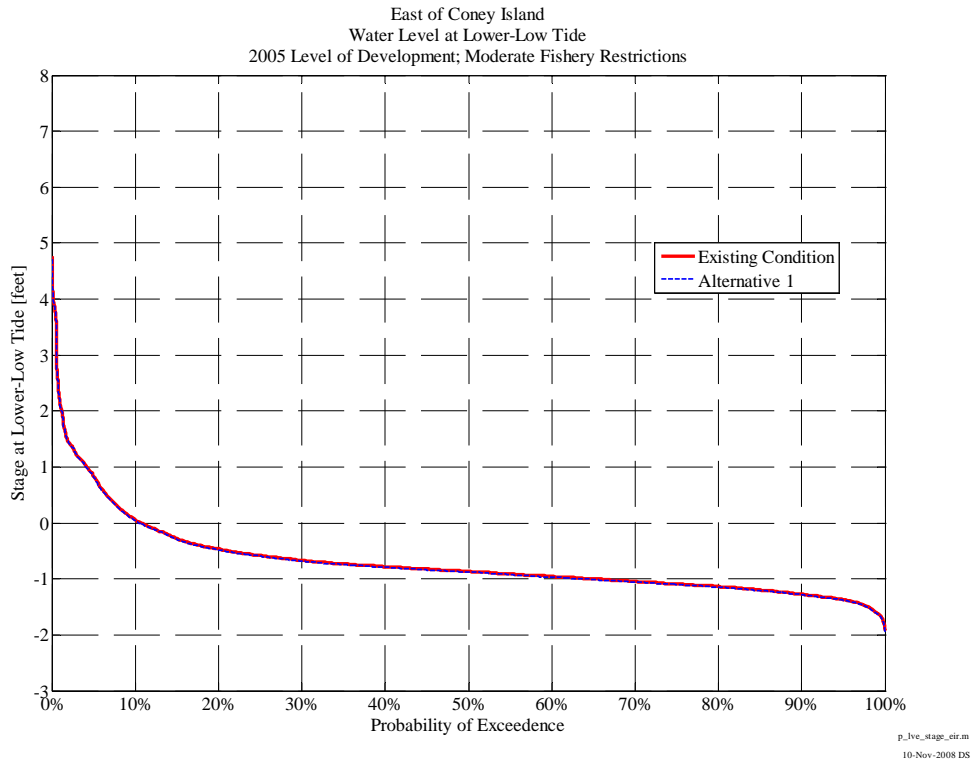
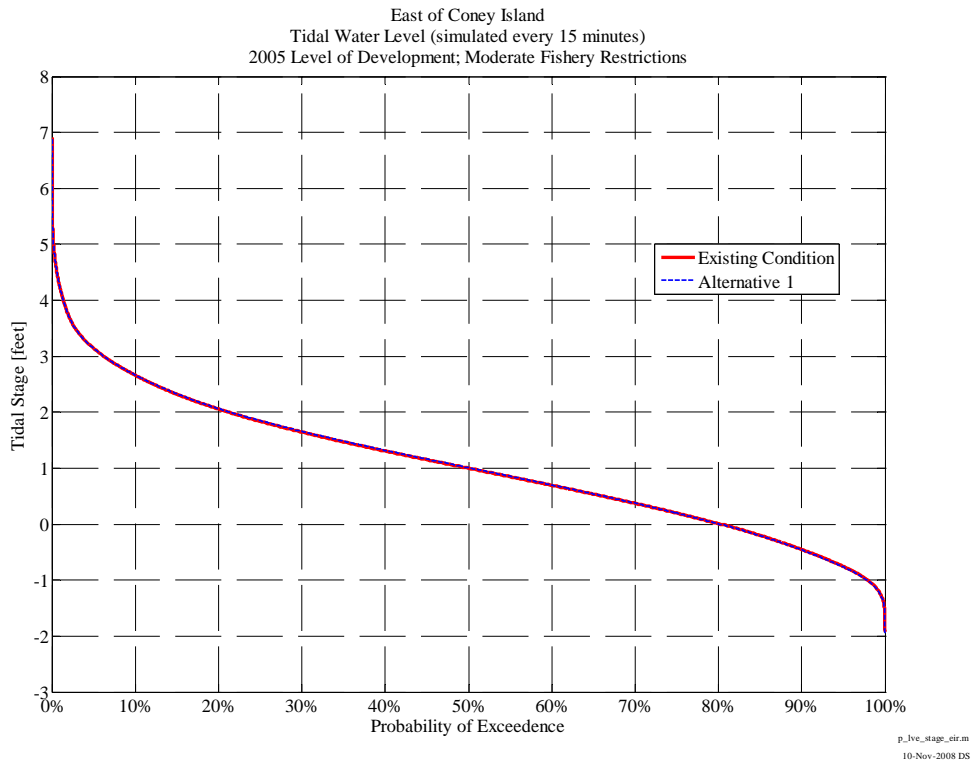
p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

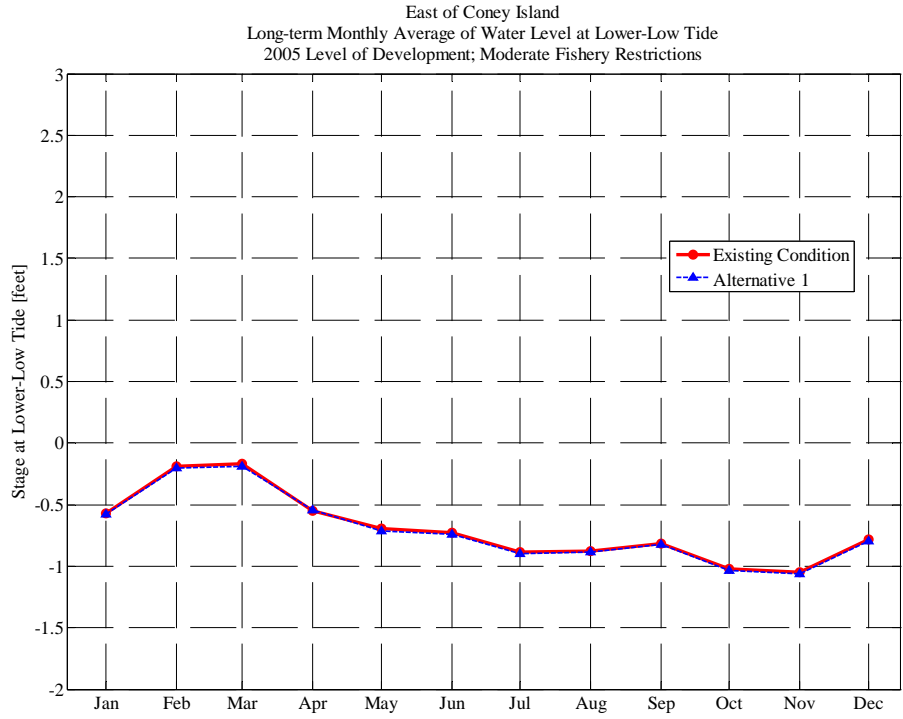


p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

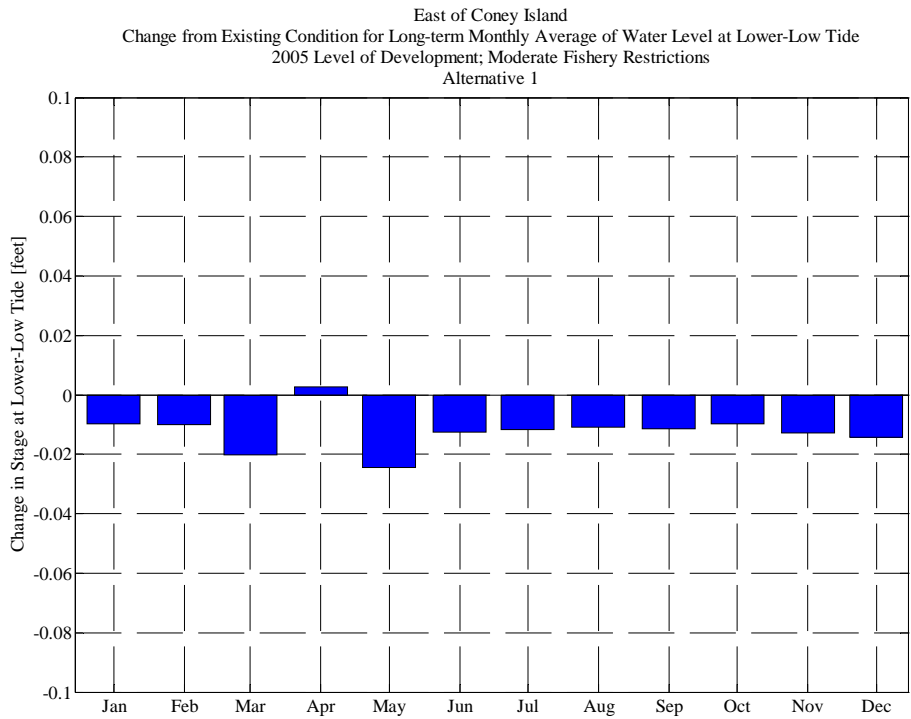
# East of Coney Island

## Alternative 1



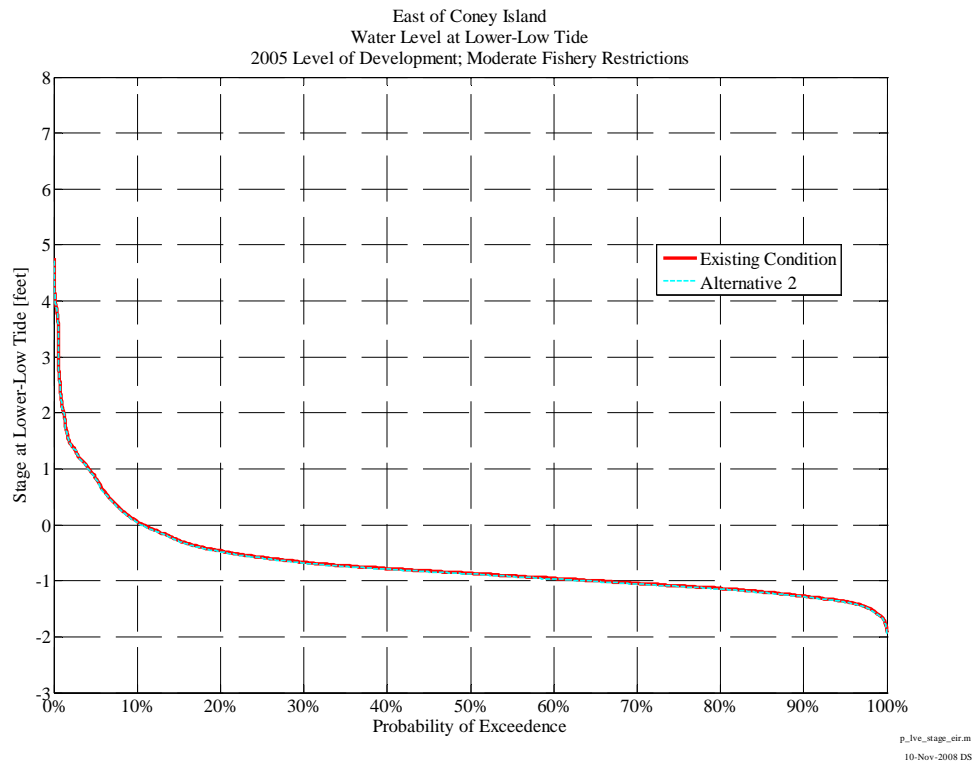
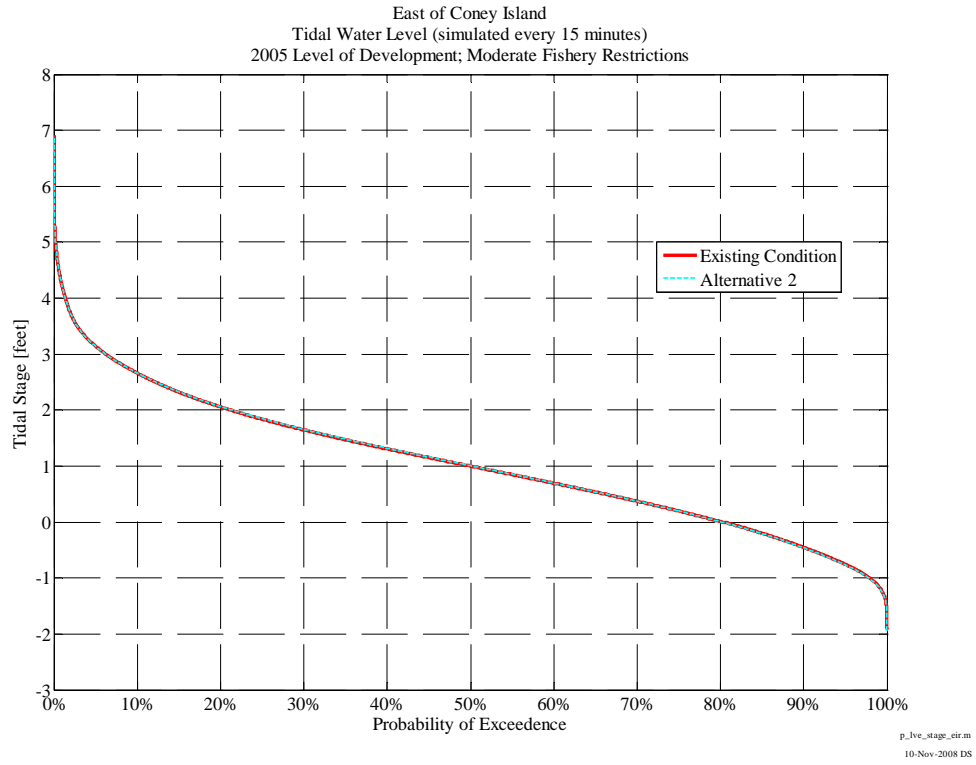


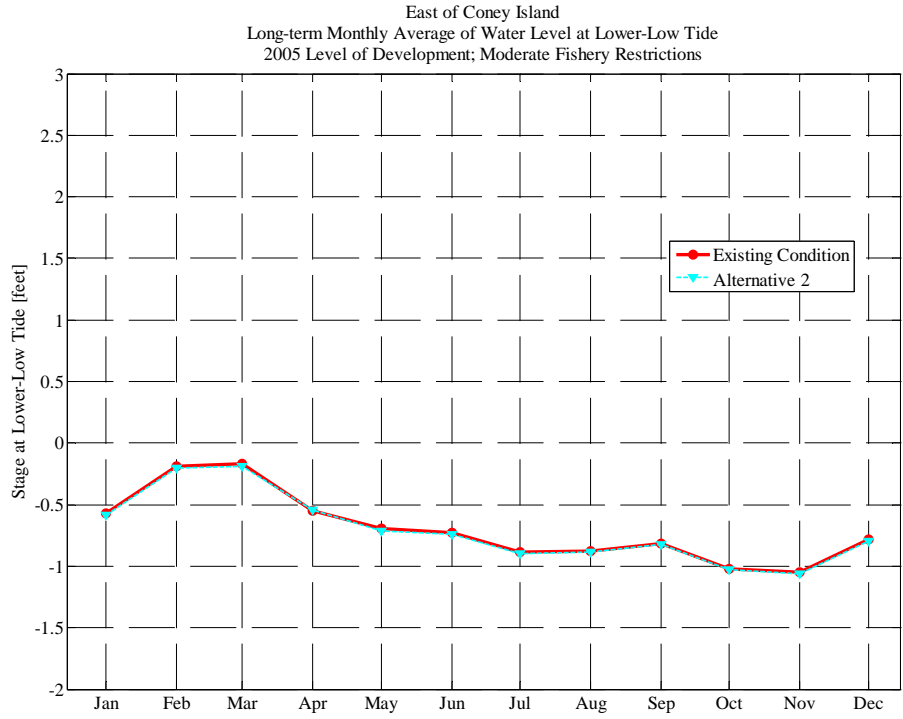
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



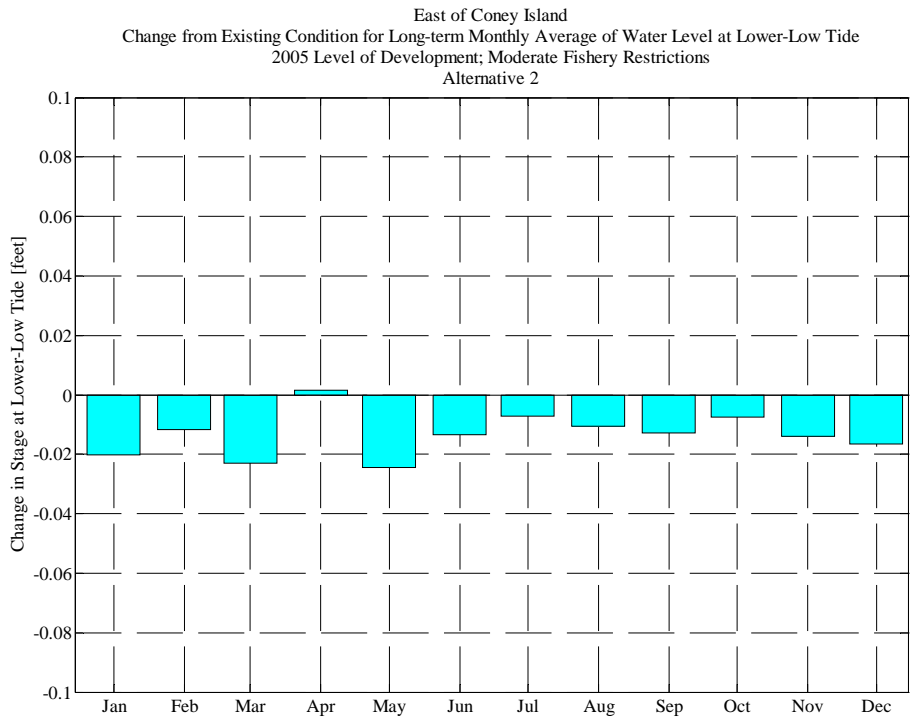
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

## Alternative 2



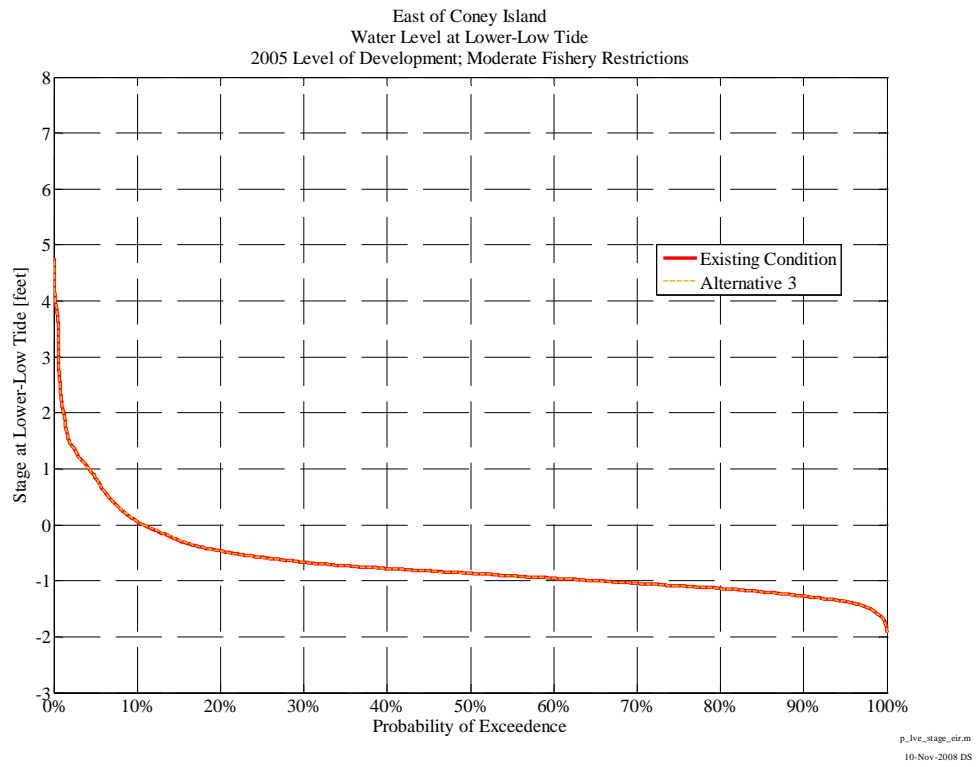
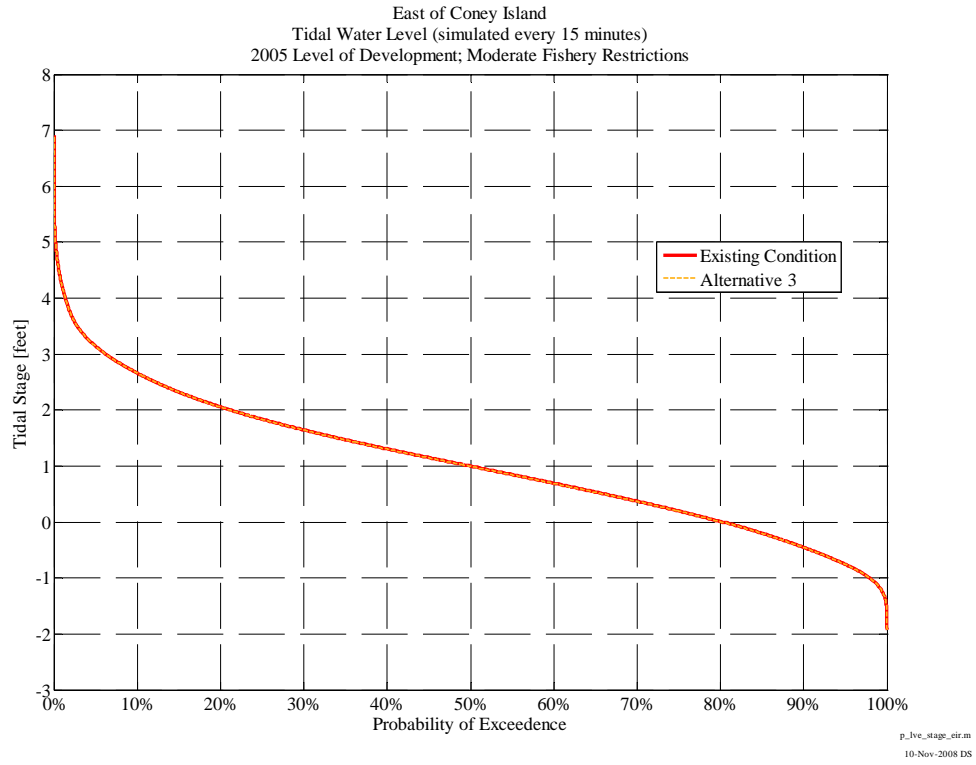


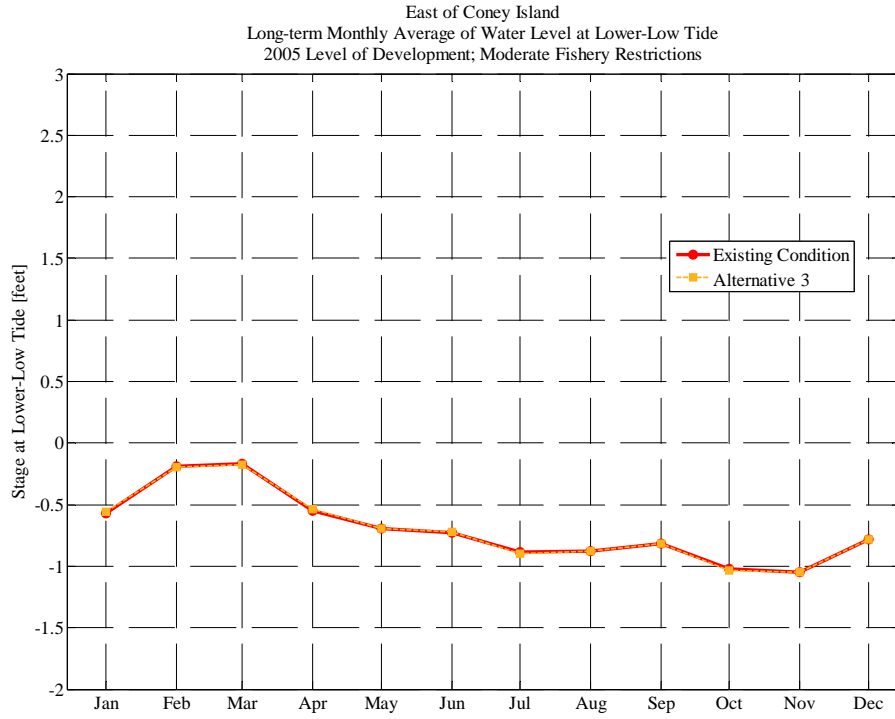
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



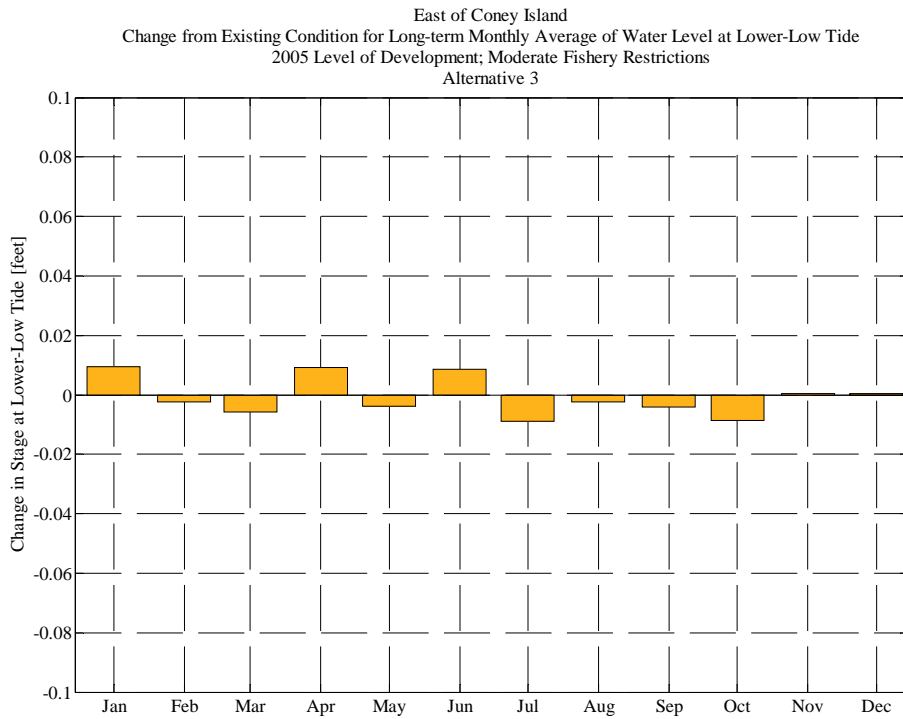
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



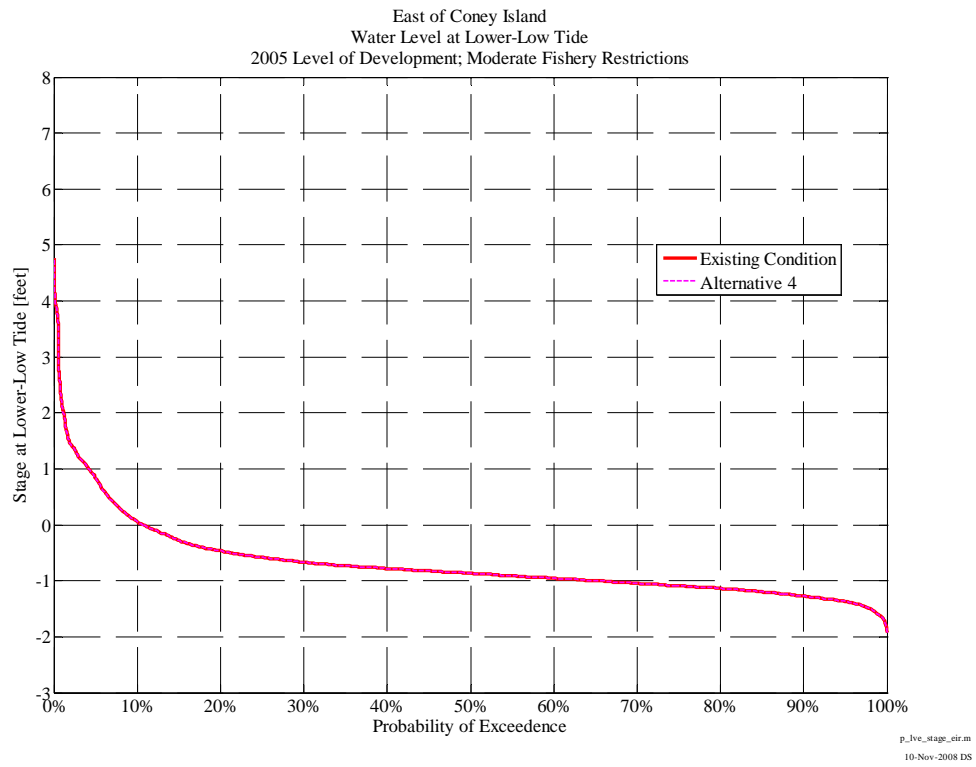
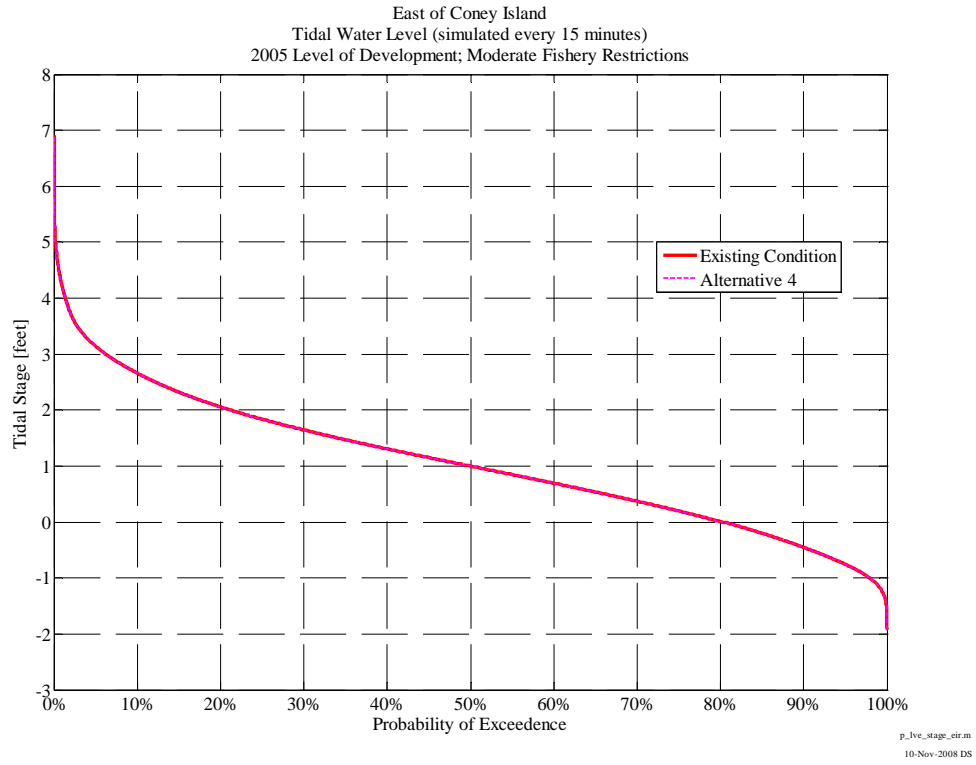


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

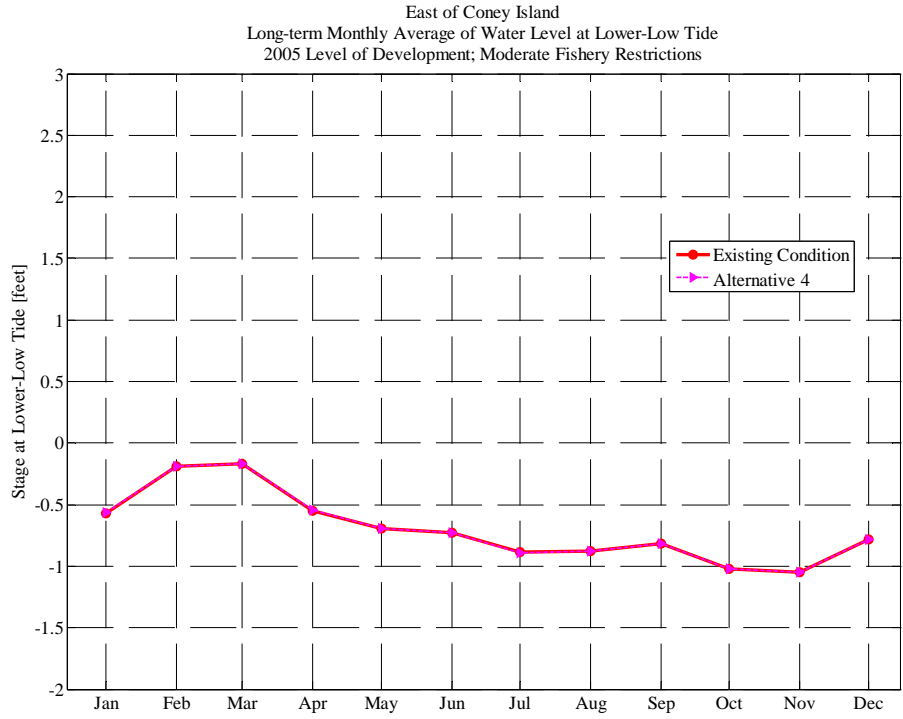


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

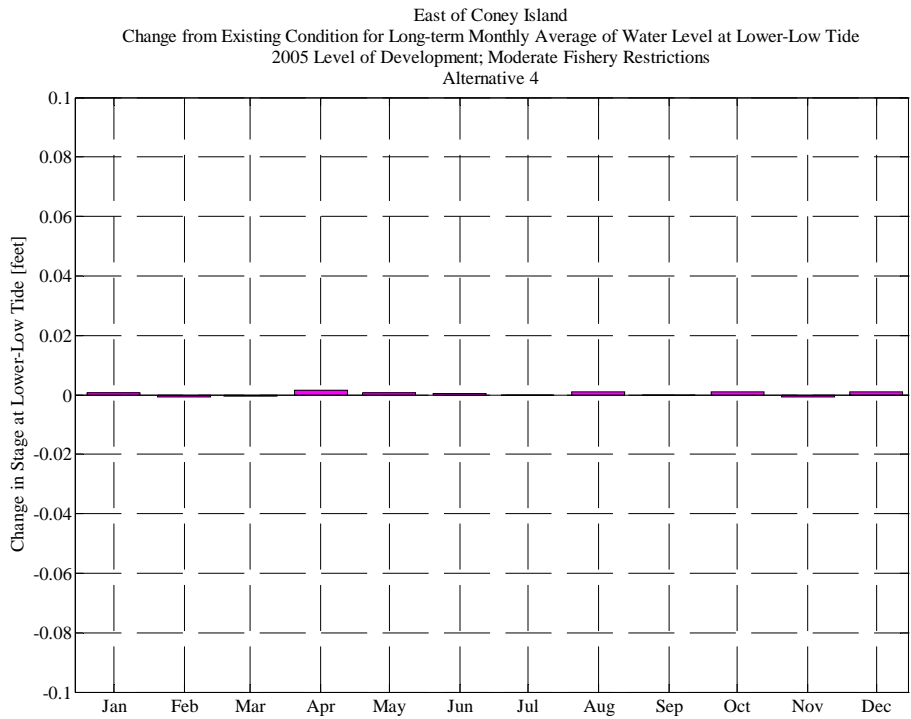
### Alternative 4







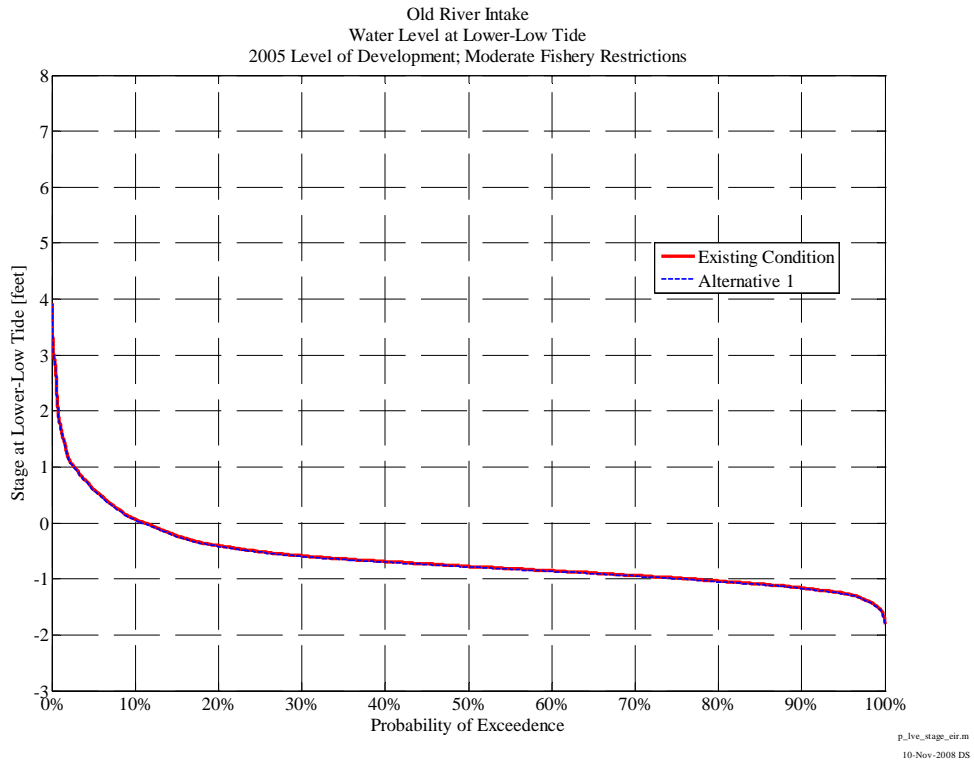
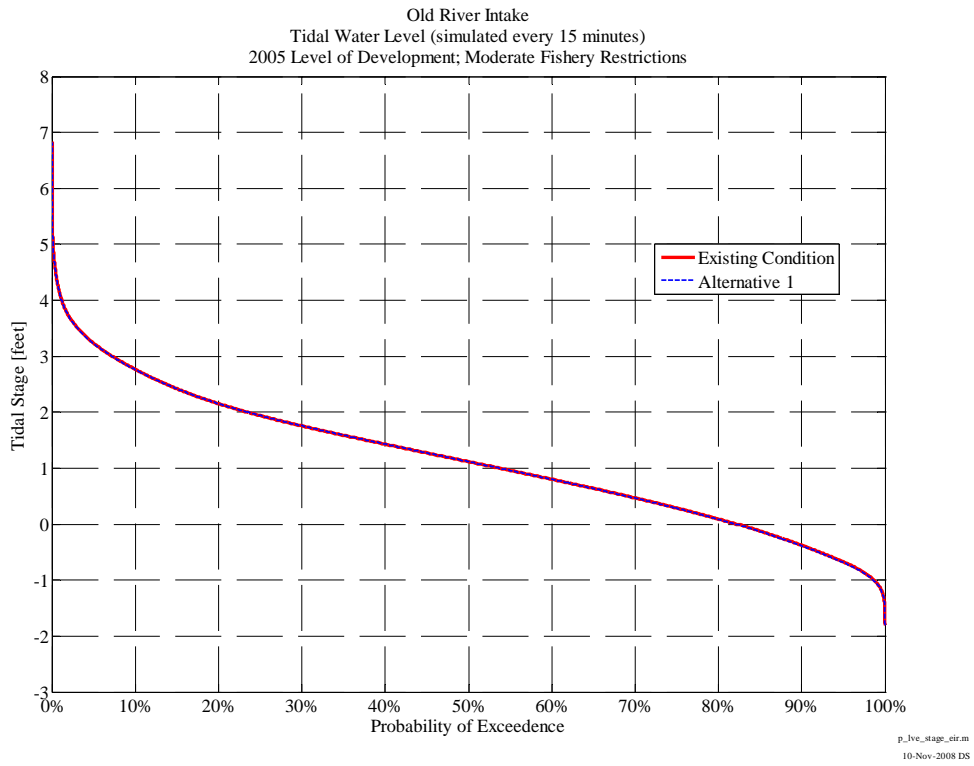
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

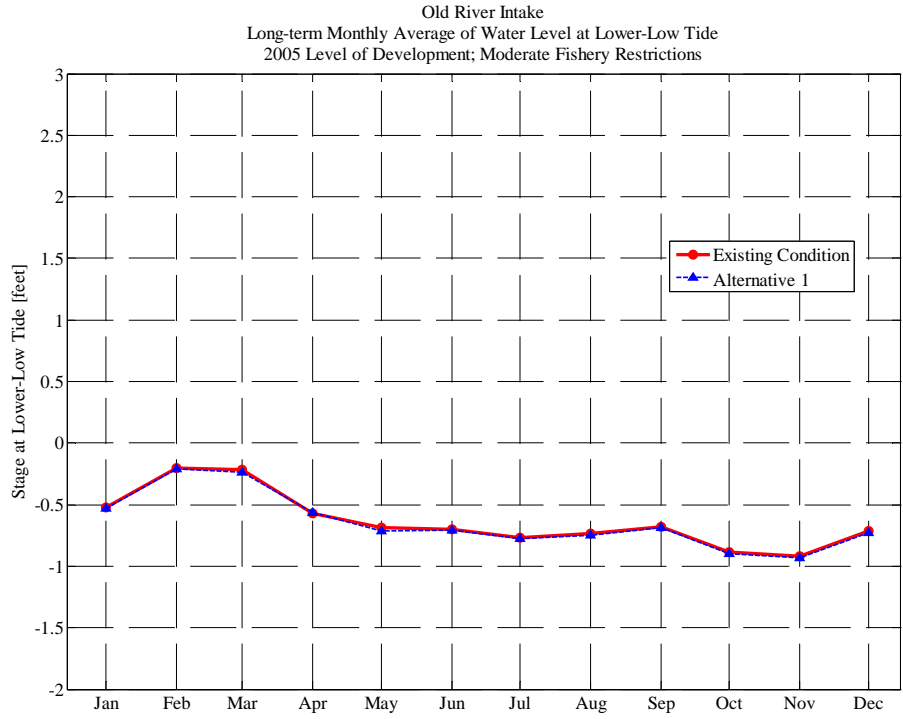


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

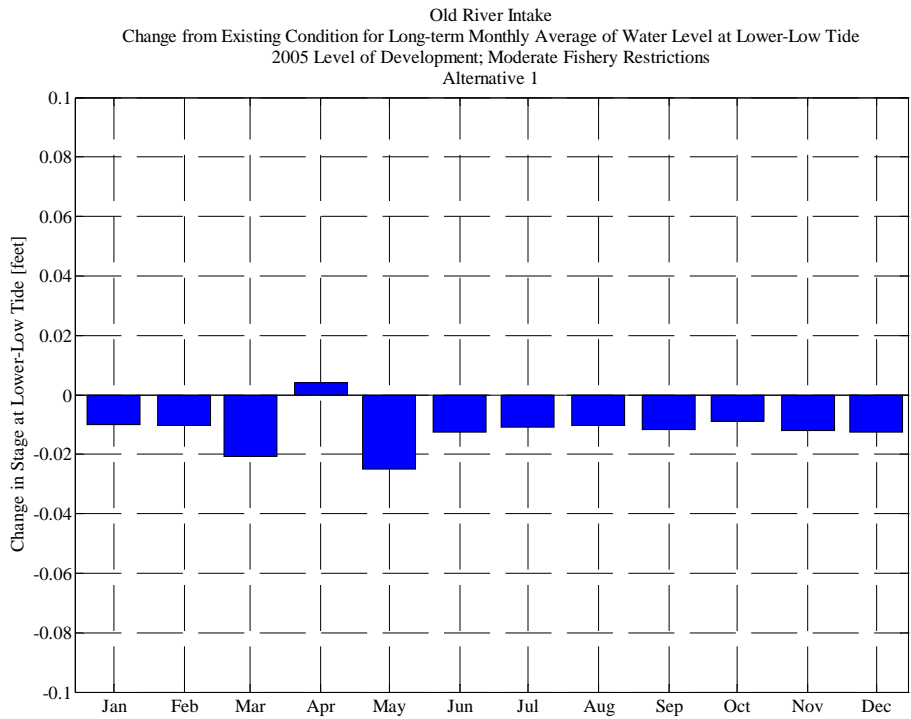
# Old River Intake

## Alternative 1



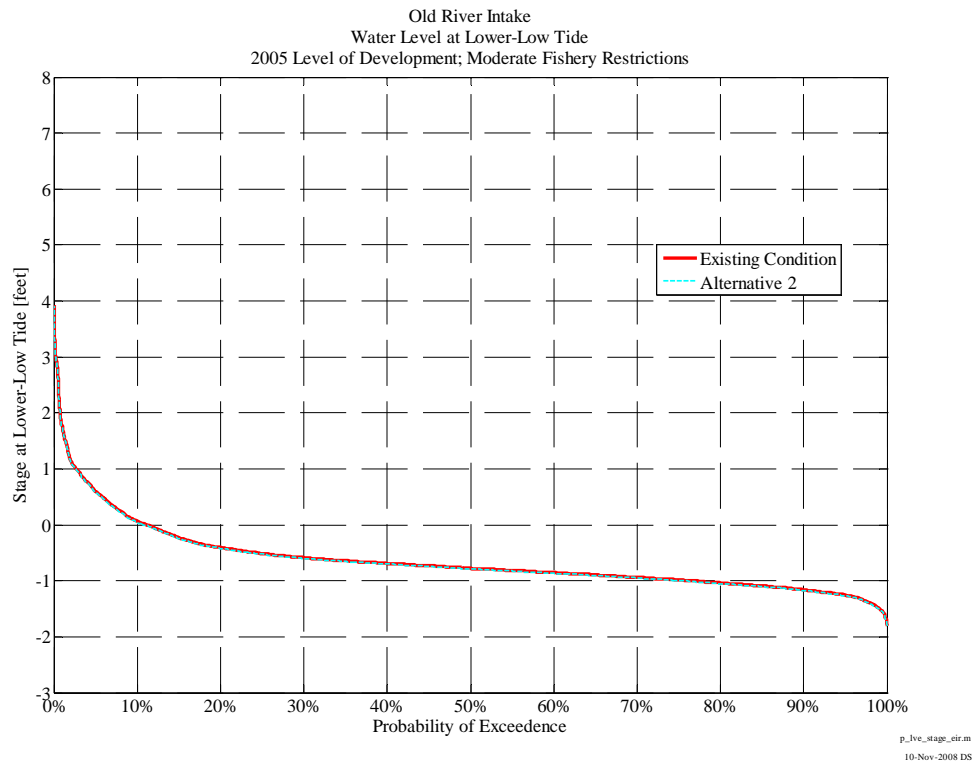
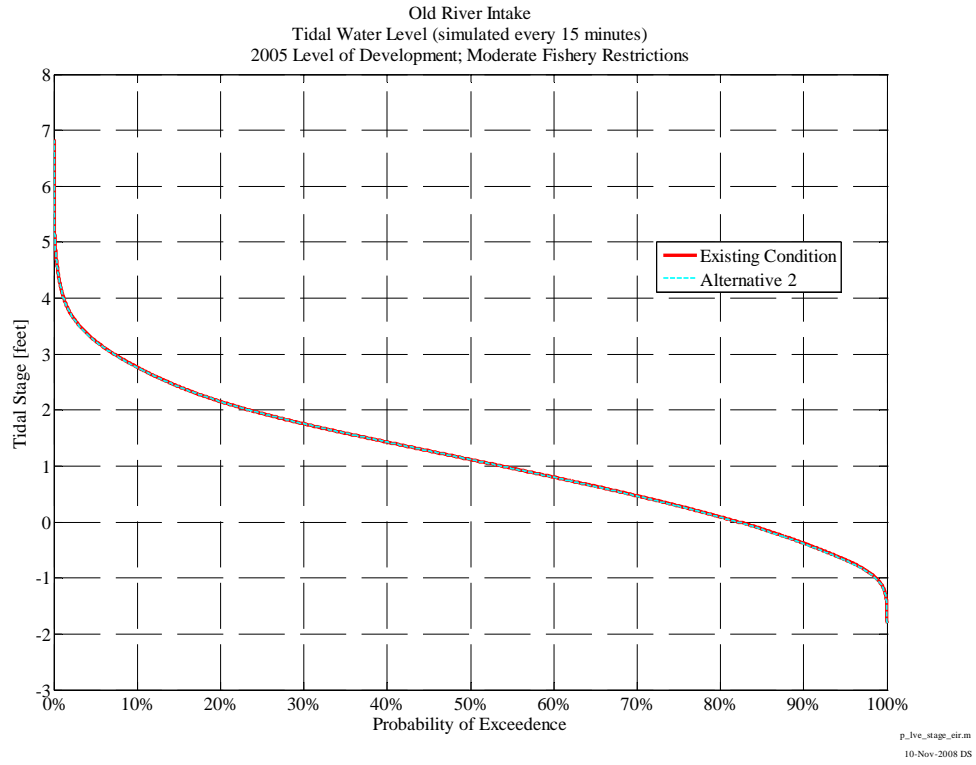


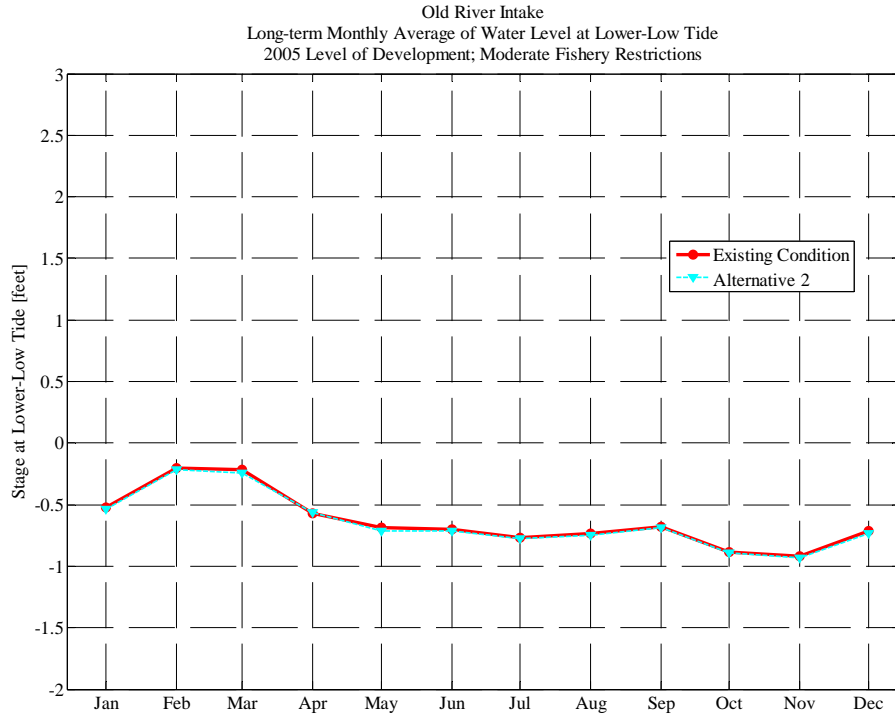
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



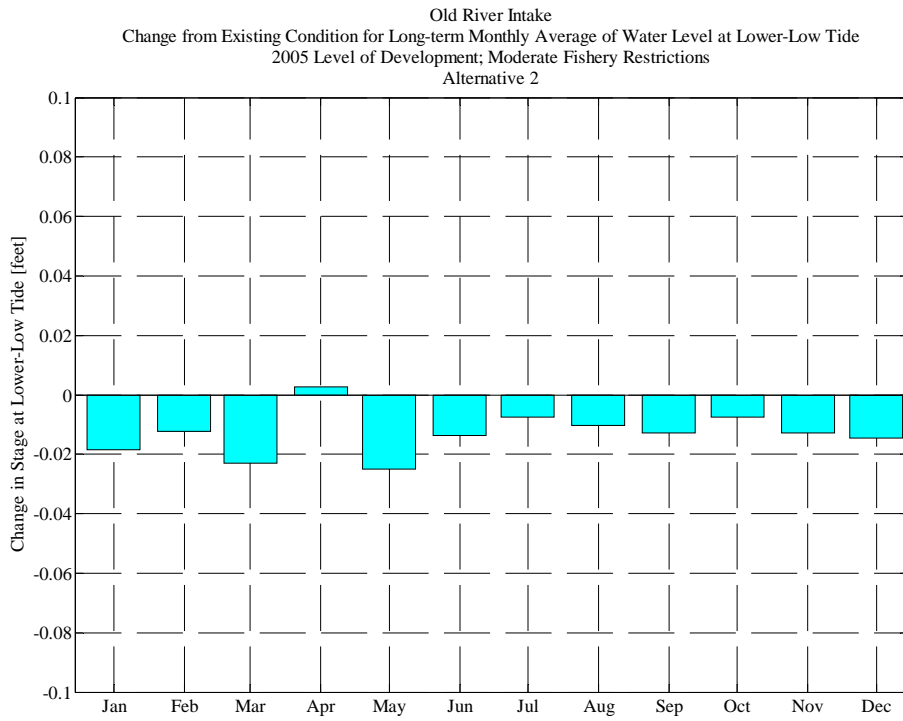
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

## Alternative 2



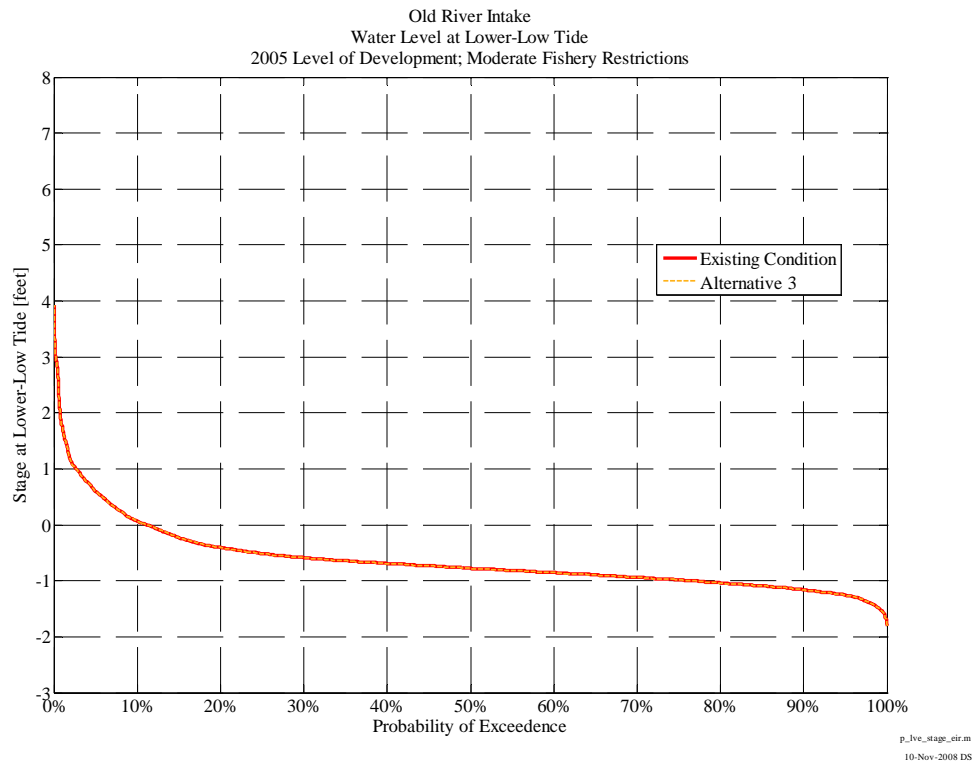
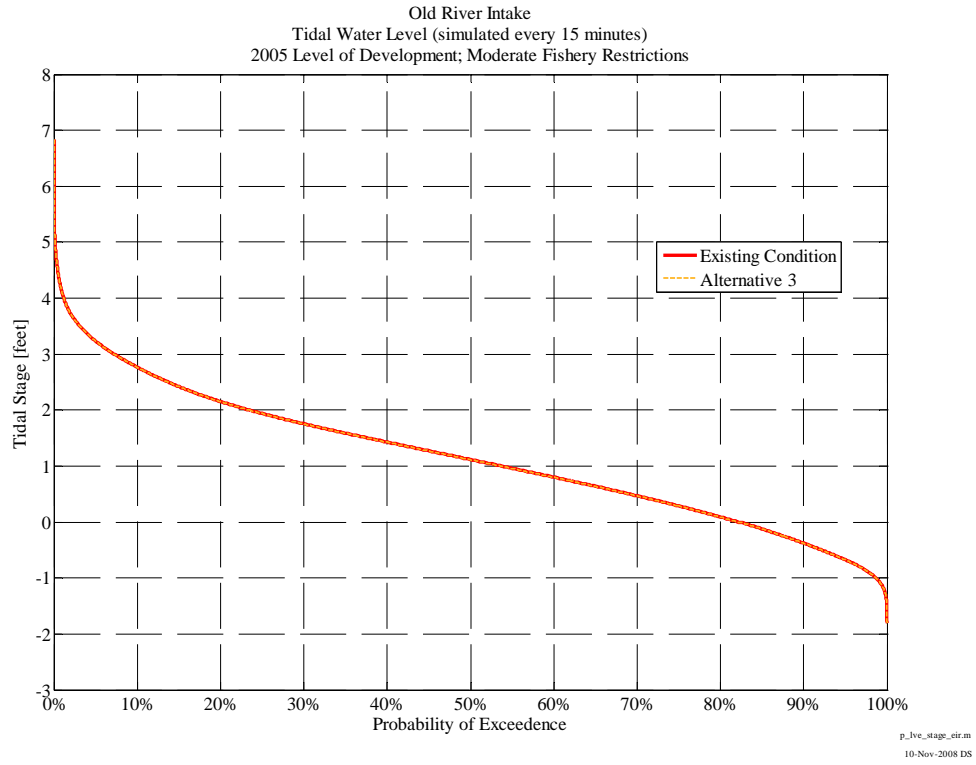


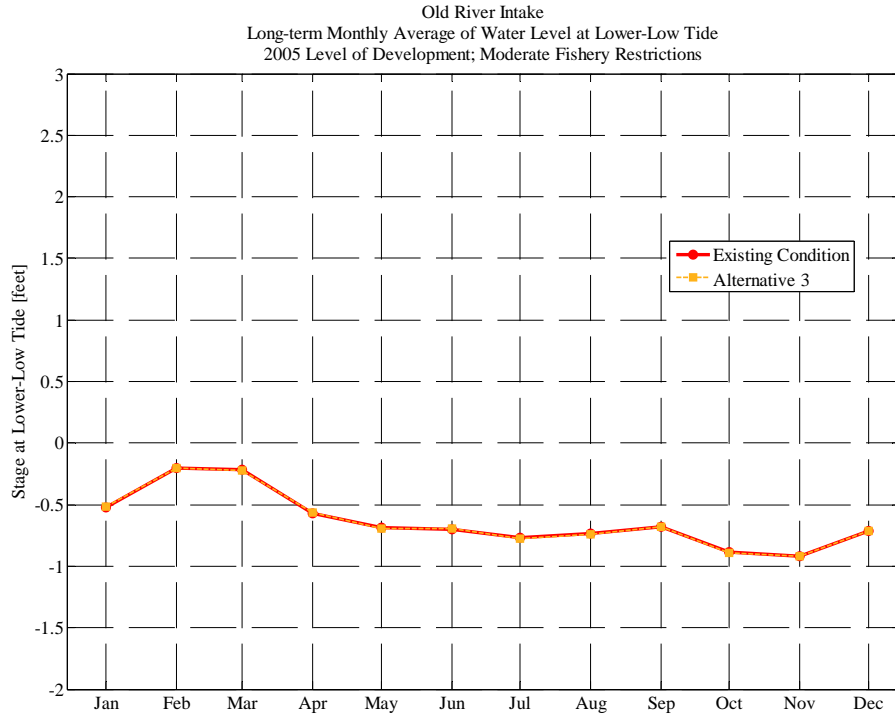
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



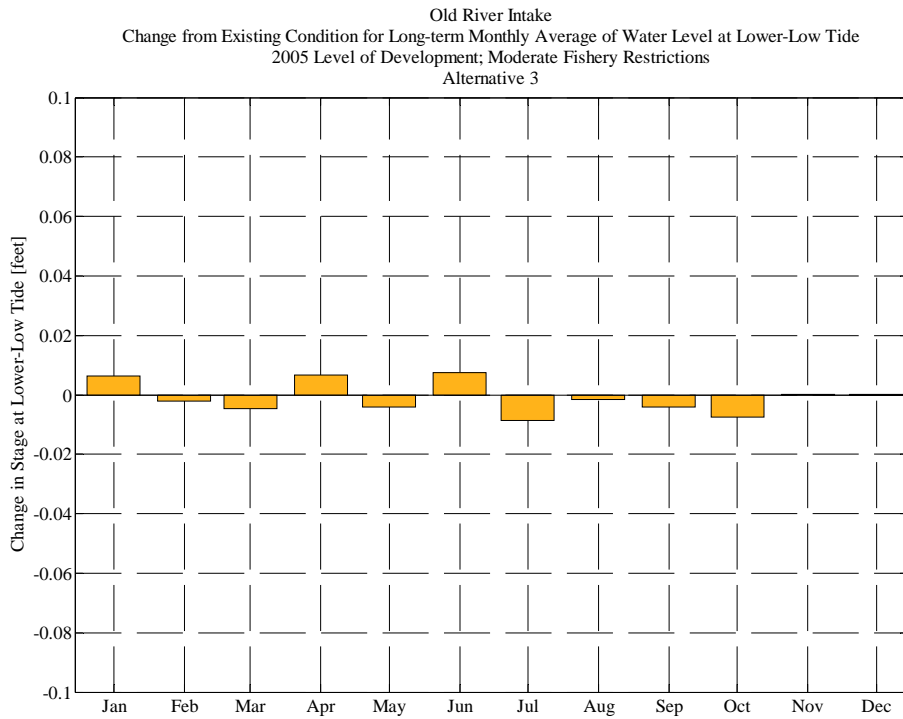
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



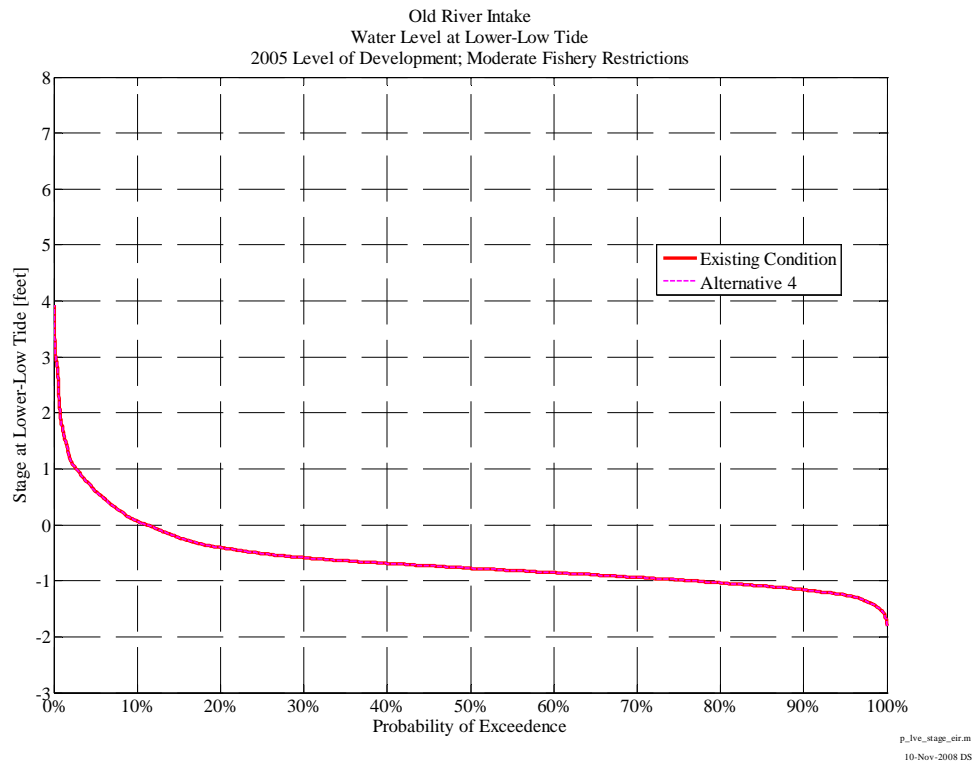
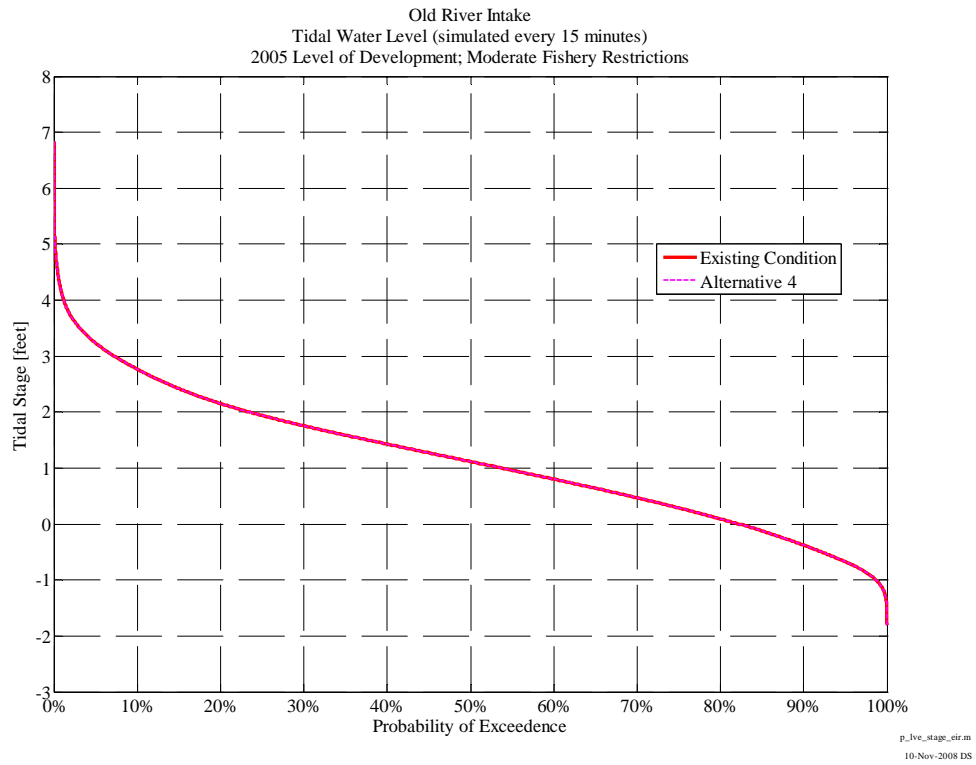


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

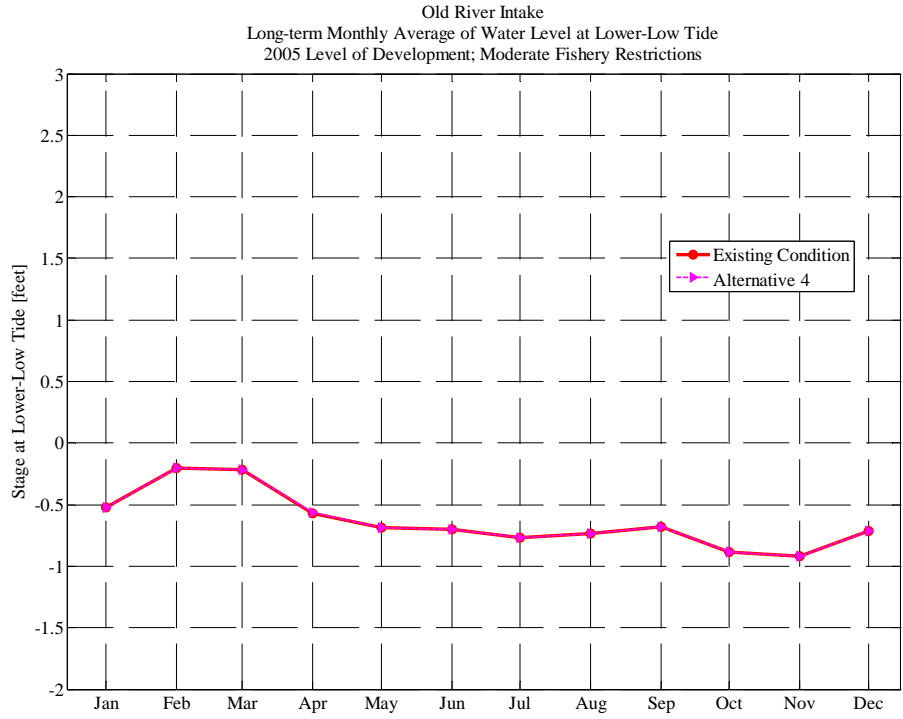


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

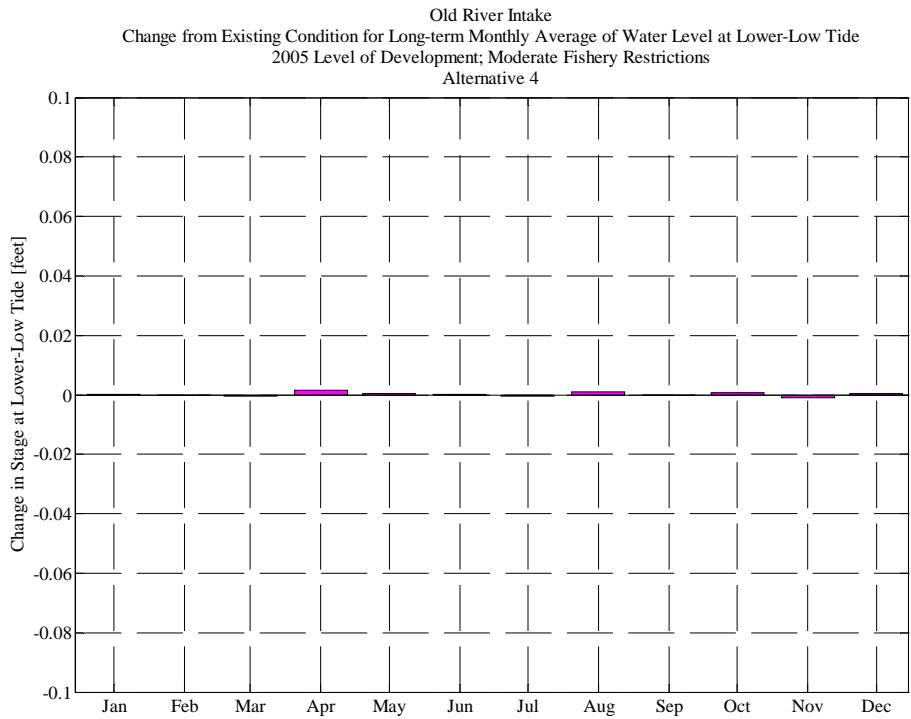
## Alternative 4







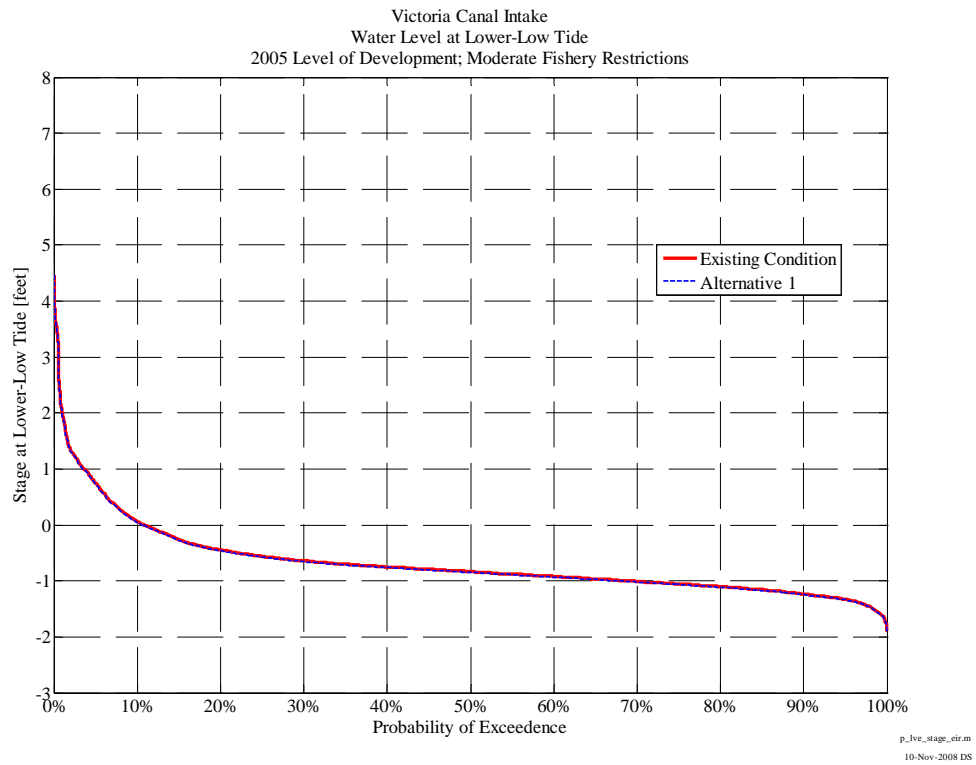
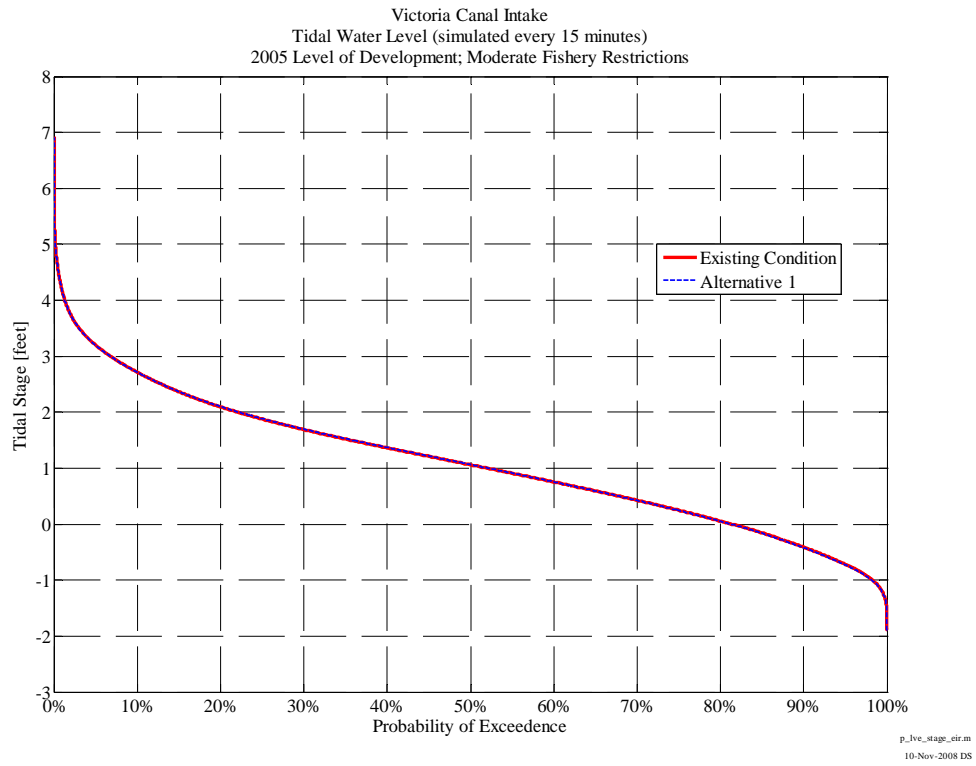
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

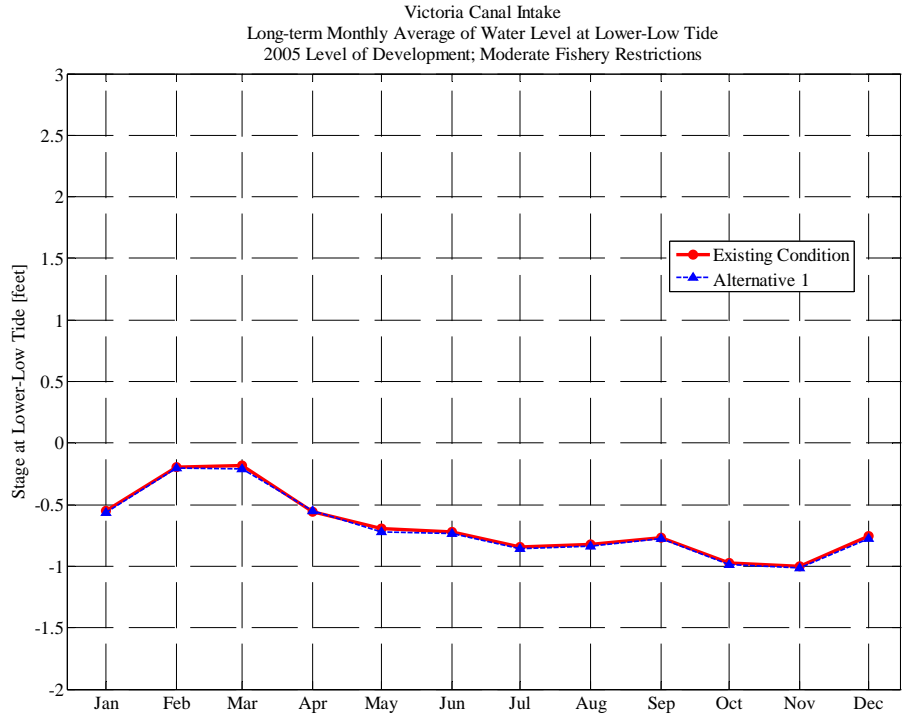


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

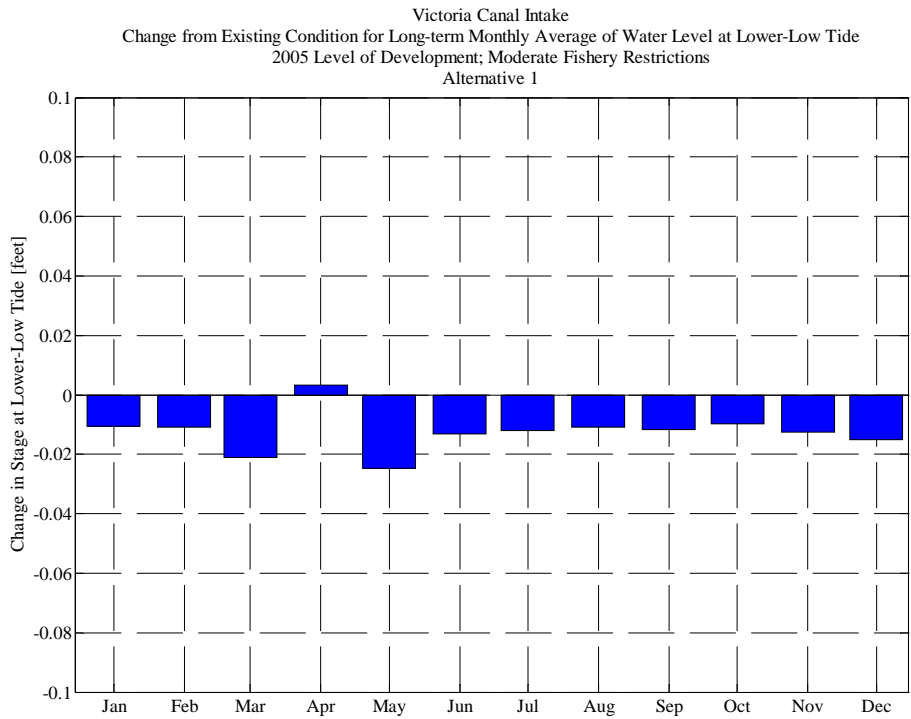
# Victoria Canal Intake

## Alternative 1



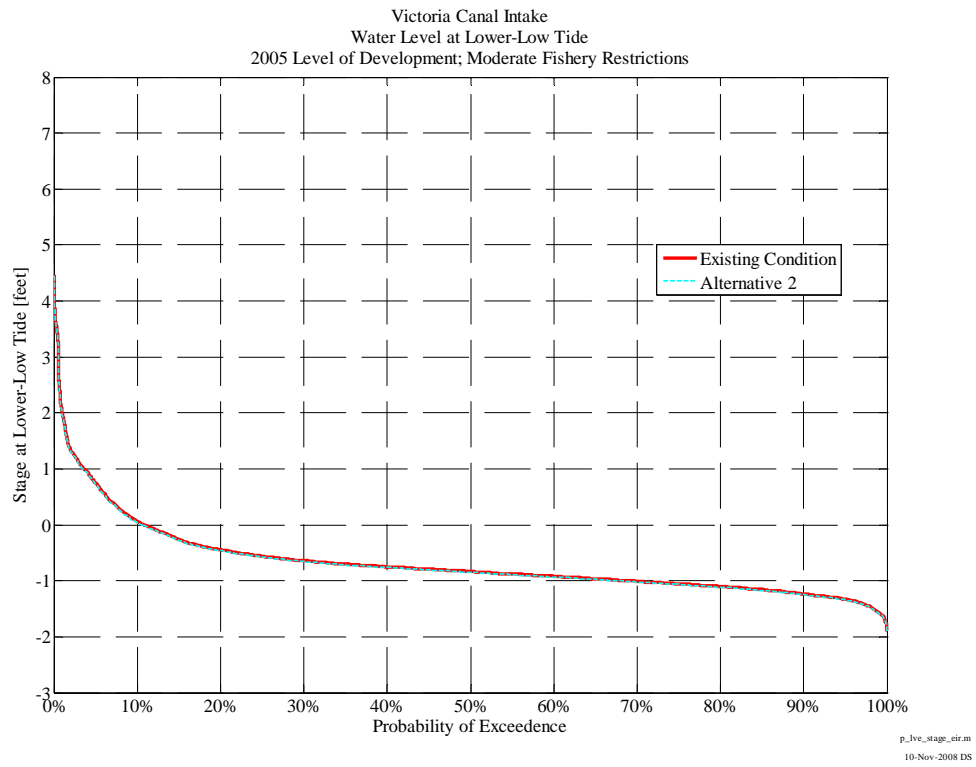
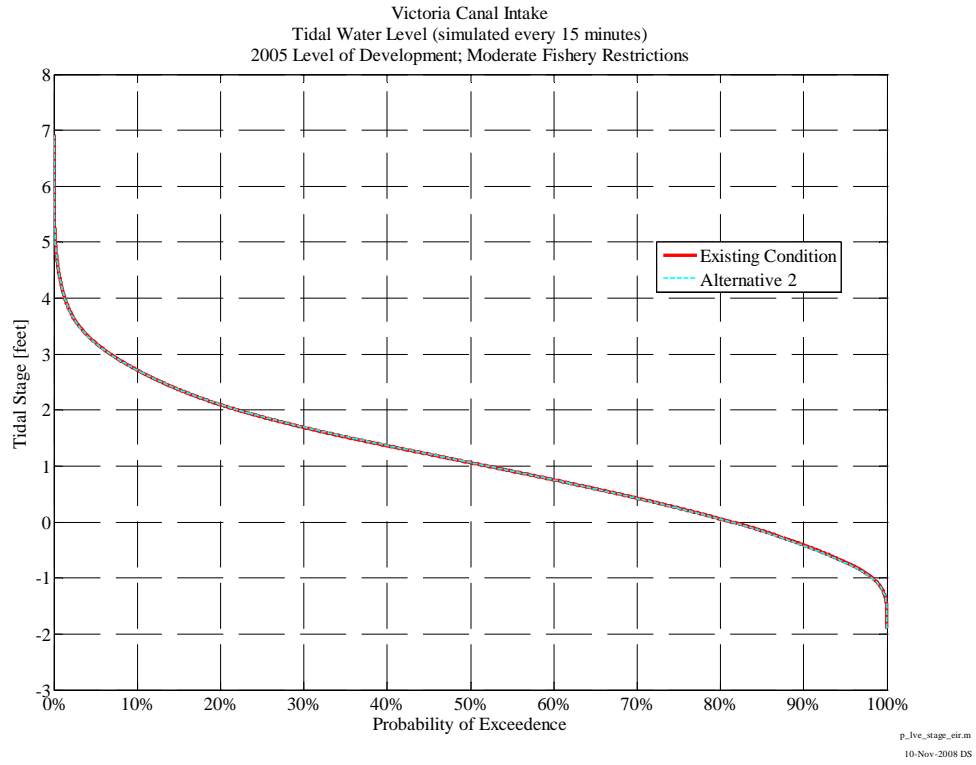


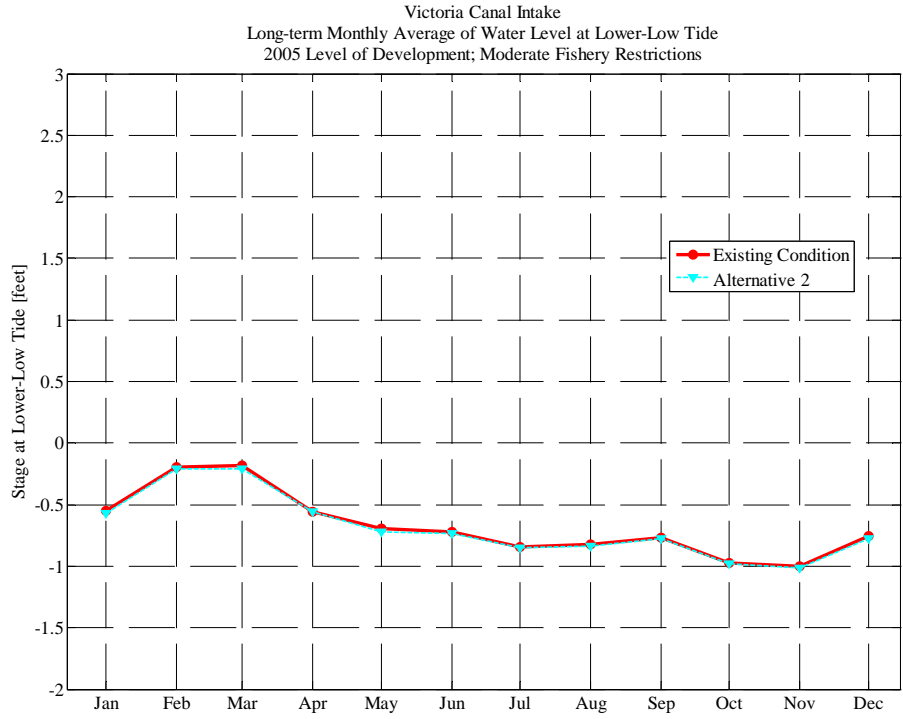
p\_lvc\_stage\_eir.m  
10-Nov-2008 DS



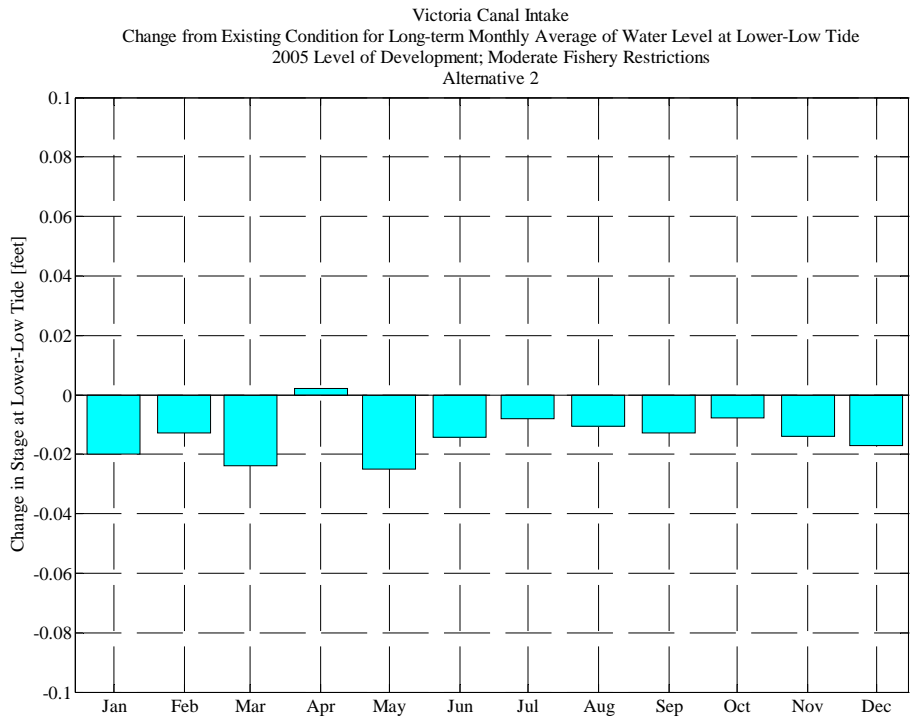
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10-Nov-2008 DS

## Alternative 2



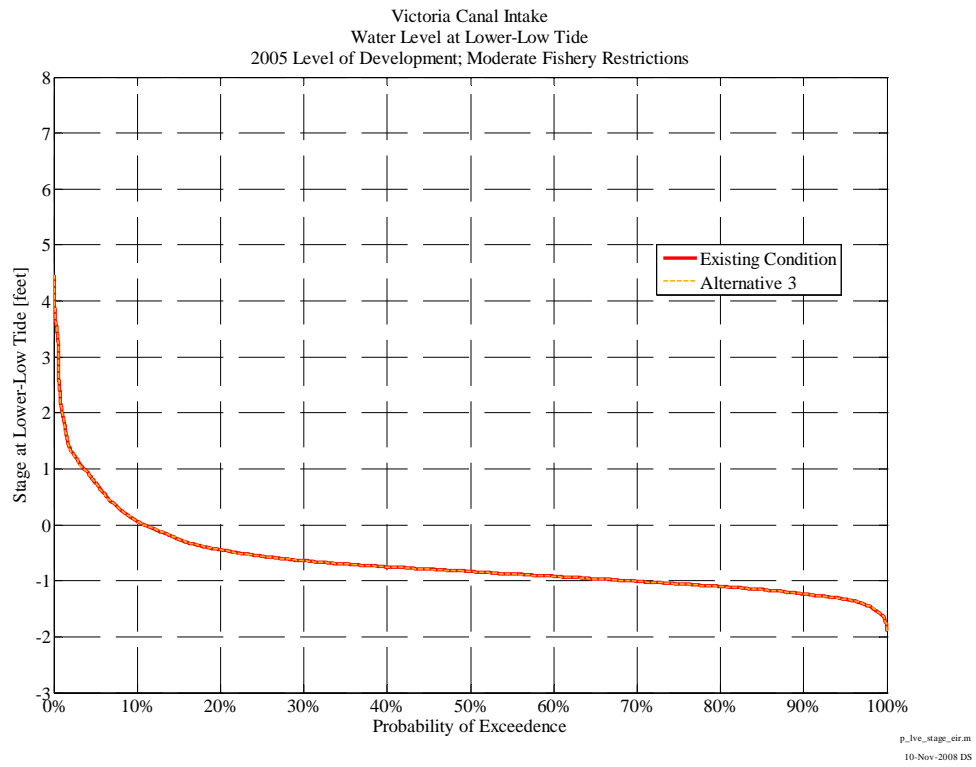
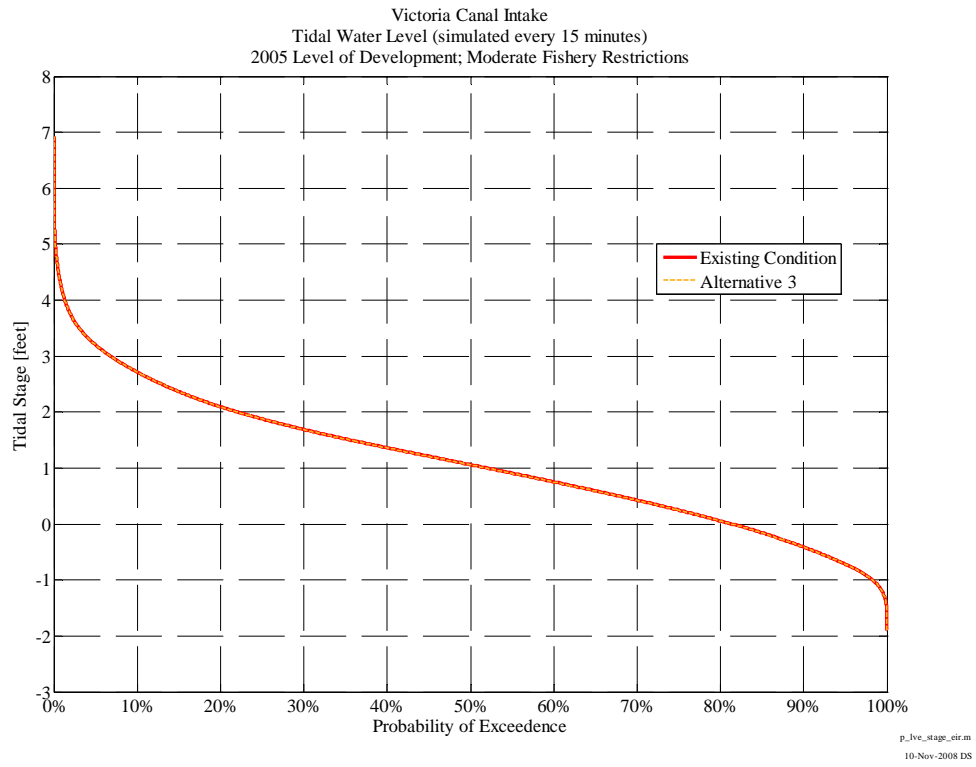


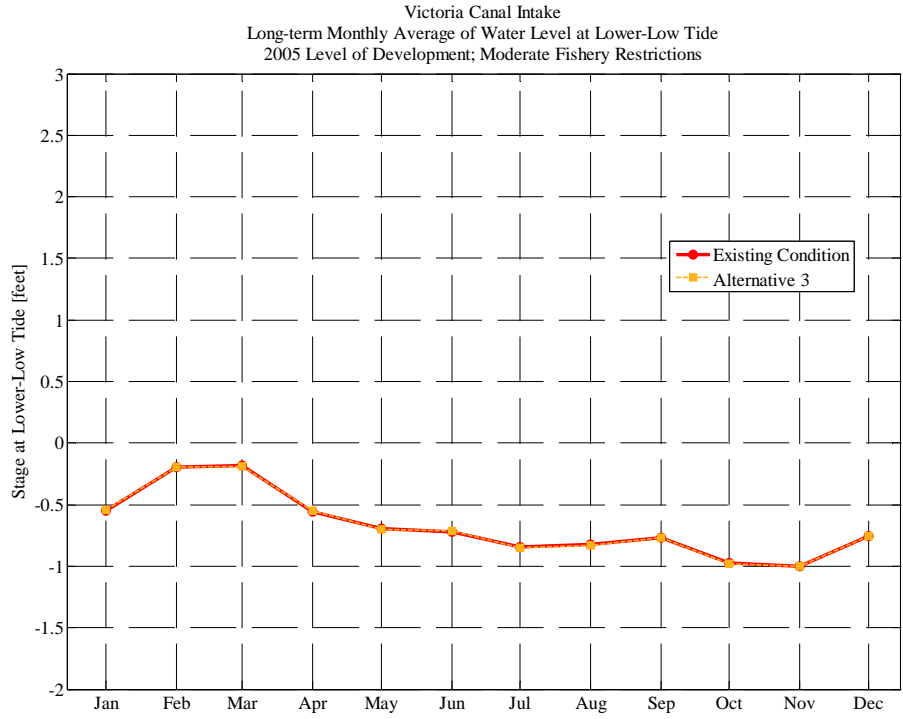
p\_lvc\_stage\_eir.m  
10-Nov-2008 DS



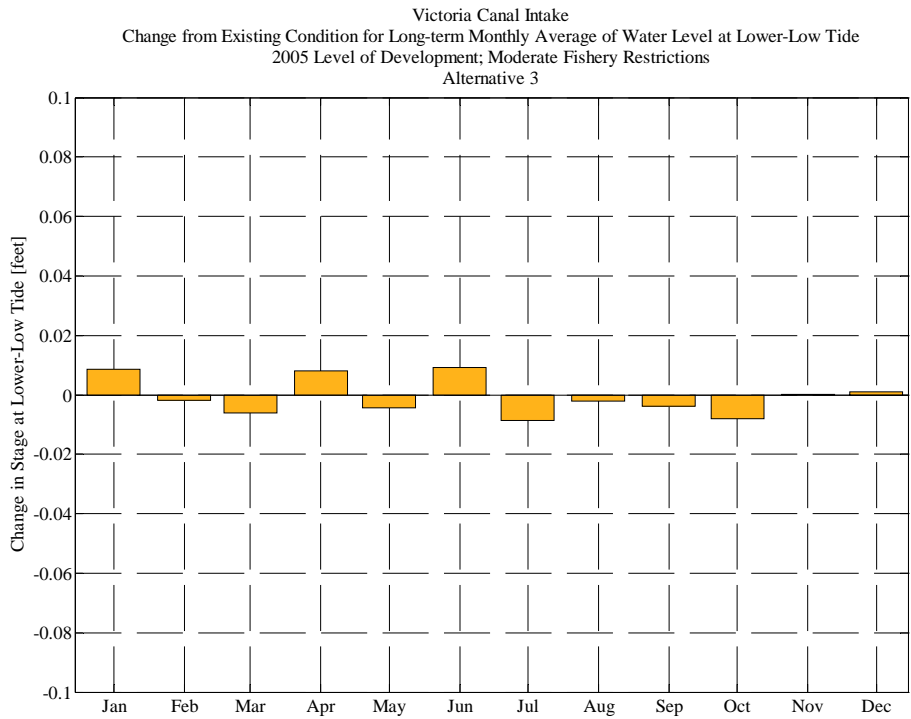
p\_lvc\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



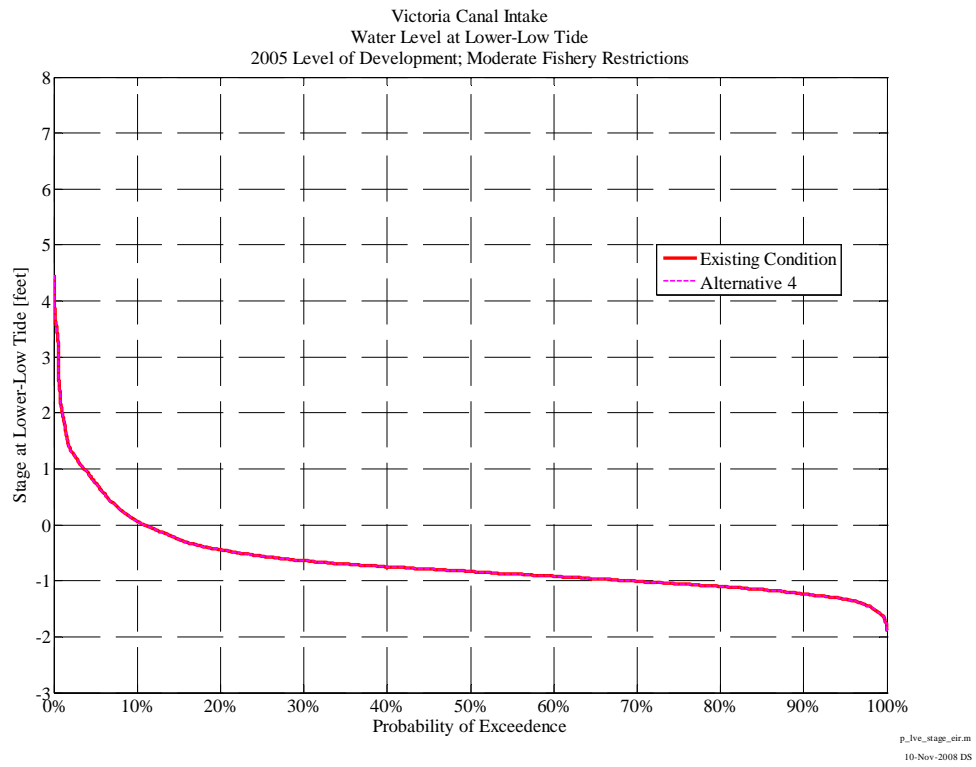
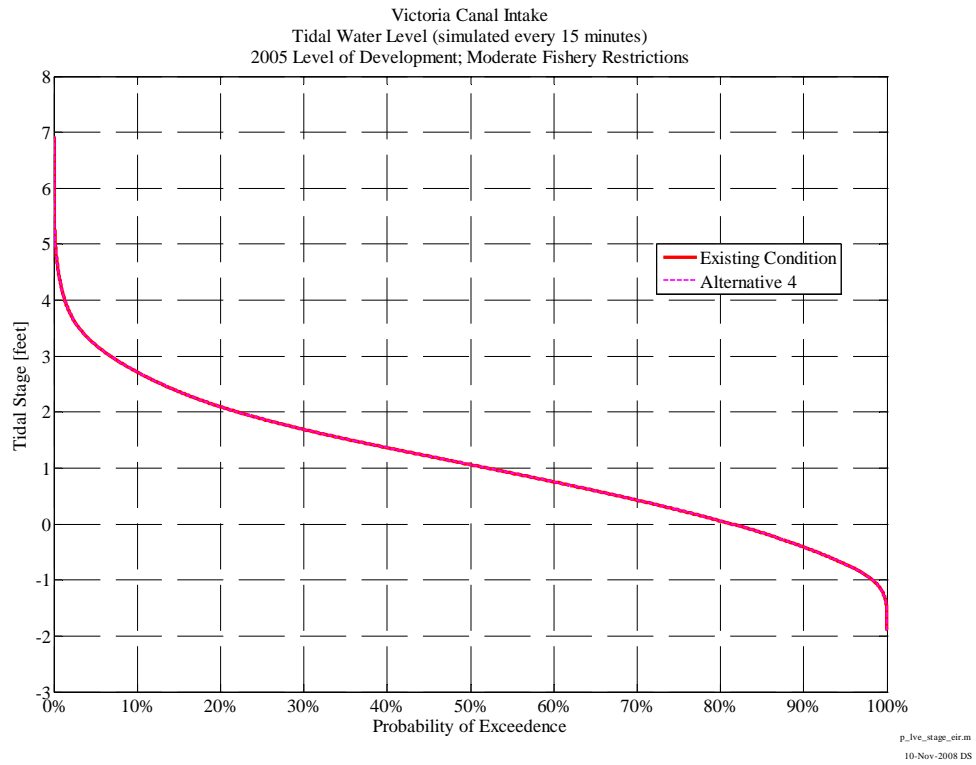


p\_lvc\_stage\_eir.m  
10-Nov-2008 DS

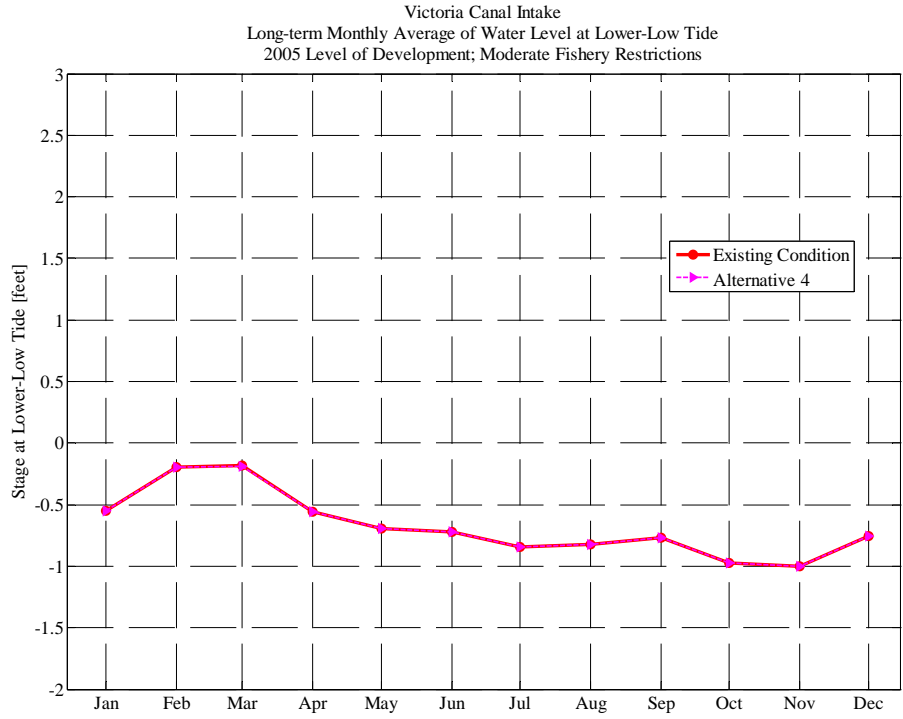


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10-Nov-2008 DS

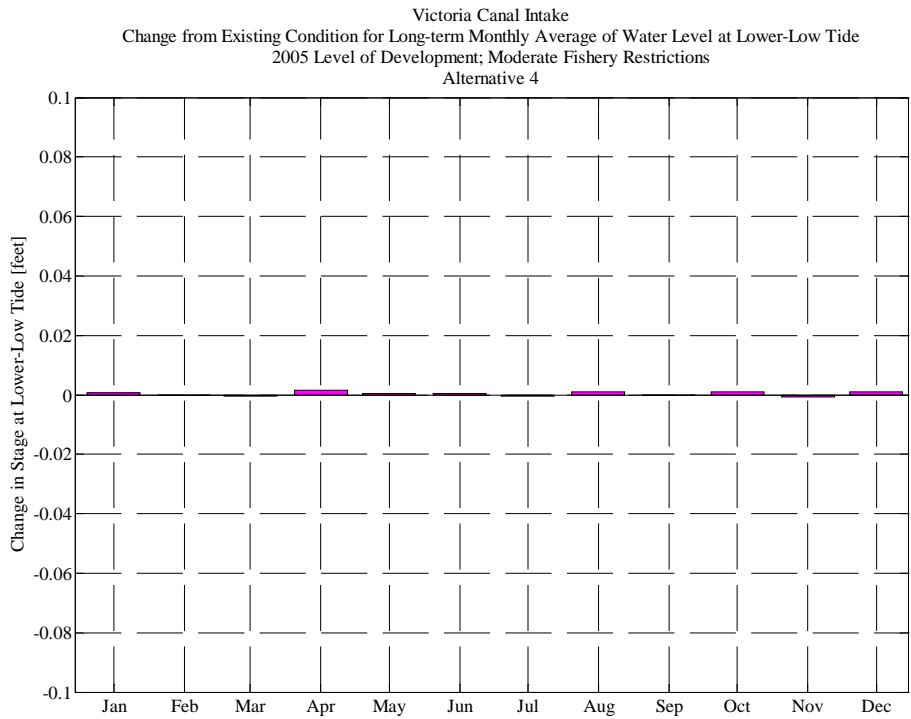
## Alternative 4







p\_lvc\_stage\_eir.m  
10-Nov-2008 DS



p\_lvc\_stage\_eir.m  
10-Nov-2008 DS

## 2030 Level of Development; Severe Fishery Restrictions

### Water Quality

#### Chippis Island

##### *Future Without Project*

**Chippis Island Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Future Without Project**  
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	6,570	7,537	8,816	9,202	5,742	2,186	3,733	8,285	11,634	12,007	12,122	13,824
1977	15,074	14,950	14,038	13,352	11,376	9,527	9,265	11,084	11,722	12,222	13,405	14,488
1978	14,814	14,790	10,353	484	213	213	235	591	1,854	4,687	8,796	11,638
1979	13,132	13,578	12,747	3,401	289	292	929	1,621	3,282	6,484	9,905	12,805
1980	13,404	10,534	6,235	306	213	215	597	1,336	2,410	4,797	8,715	11,778
1981	13,329	13,556	12,070	3,169	600	343	1,398	3,435	7,080	8,874	10,224	12,710
1982	14,067	2,398	184	201	193	204	191	216	619	3,490	8,423	3,532
1983	1,347	353	199	228	217	204	202	197	195	303	1,238	937
1984	2,365	301	193	203	232	228	961	2,254	4,693	5,997	8,906	12,351
1985	12,459	2,287	1,677	3,715	2,100	1,131	2,205	3,679	7,208	8,751	9,848	12,519
1986	13,246	12,694	9,583	3,544	209	208	412	1,430	3,430	5,560	8,913	11,139
1987	12,635	13,226	13,248	8,934	2,564	503	2,674	5,716	8,144	8,747	10,414	12,932
1988	14,175	13,864	8,017	1,457	2,670	5,440	5,680	6,871	8,536	10,507	11,411	13,193
1989	15,385	14,021	13,793	10,701	8,785	861	386	1,488	6,259	7,991	9,567	12,508
1990	13,942	13,934	13,584	6,693	3,963	3,857	4,784	7,072	10,066	11,635	11,847	13,412
1991	15,187	14,439	14,324	14,097	12,177	1,911	2,190	6,193	9,750	11,912	12,928	14,493
<b>Avg</b>	11,946	10,154	8,691	4,981	3,221	1,708	2,240	3,842	6,055	7,748	9,791	11,516
<b>W/AN/BN</b>	10,339	7,807	5,642	1,195	224	224	504	1,092	2,355	4,474	7,842	9,169
<b>D/C</b>	13,195	11,979	11,063	7,925	5,553	2,862	3,591	5,980	8,933	10,294	11,307	13,342

**Alternative 1**

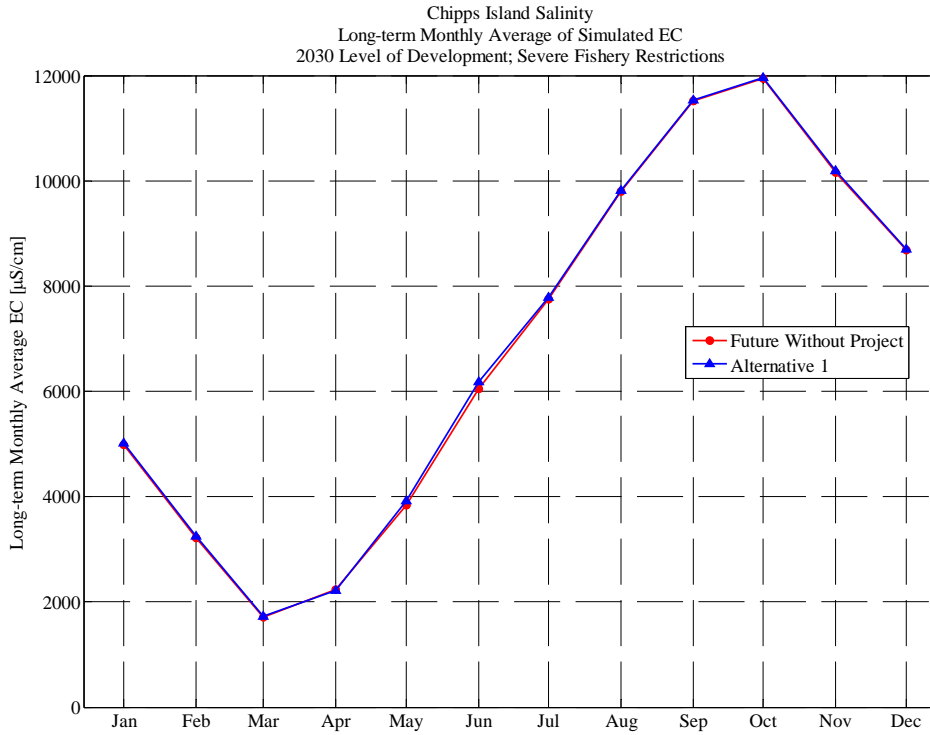
**Chippis Island Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )  
Alternative 1**

**2030 Level of Development; Severe Fishery Restrictions**

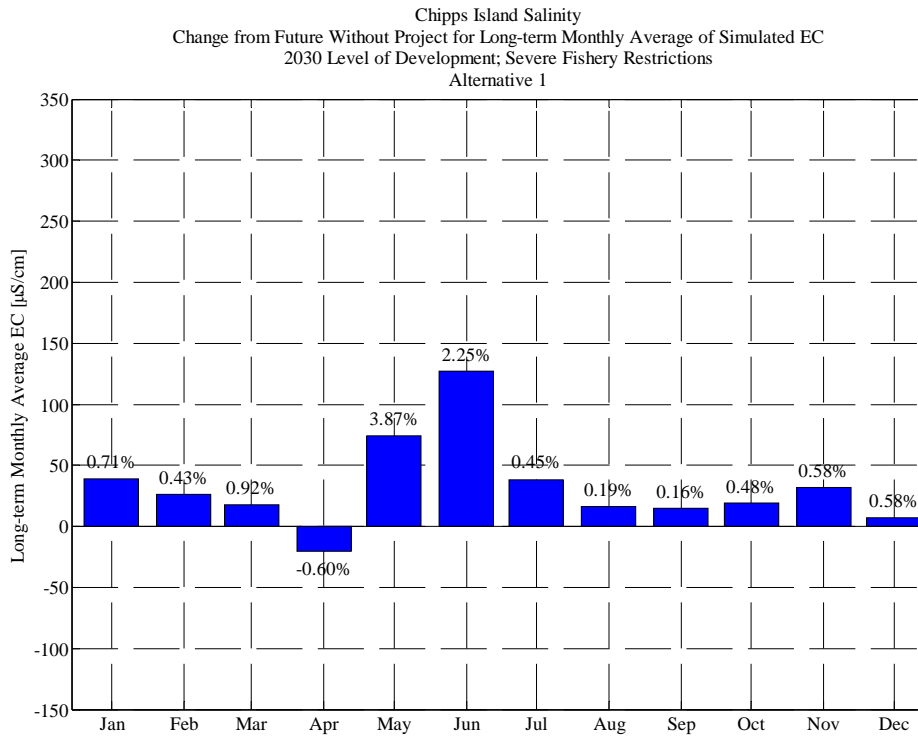
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	6,944	7,970	9,069	9,303	5,791	2,269	3,733	8,262	11,649	12,090	12,142	13,715
1977	14,886	14,791	13,844	13,239	11,279	9,508	9,140	10,886	12,067	12,700	13,475	14,433
1978	14,896	14,751	10,242	481	213	213	234	627	2,037	4,956	9,109	11,914
1979	13,266	13,633	12,729	3,523	296	301	924	1,810	3,383	6,420	9,849	12,810
1980	13,317	10,664	6,215	301	212	215	588	1,434	2,389	4,762	8,713	11,770
1981	13,317	13,525	12,028	3,179	593	345	1,398	3,829	7,645	8,862	10,312	12,919
1982	14,155	2,434	185	201	193	204	191	218	608	3,483	8,431	3,540
1983	1,381	357	199	228	217	204	202	196	195	303	1,241	940
1984	2,366	301	192	203	232	229	960	2,438	4,759	5,976	8,914	12,348
1985	12,473	2,278	1,785	3,800	2,115	1,147	2,191	3,900	7,330	8,695	9,872	12,565
1986	13,279	13,056	9,880	3,592	210	207	402	1,582	3,669	5,534	8,778	11,065
1987	12,601	13,207	13,242	8,921	2,544	505	2,676	5,783	8,375	8,820	10,408	12,951
1988	14,200	13,899	8,276	1,496	2,663	5,457	5,454	6,901	8,818	10,610	11,425	13,087
1989	15,187	13,768	13,433	10,972	9,140	871	383	1,492	6,155	7,969	9,558	12,507
1990	13,969	13,940	13,596	6,734	4,001	3,996	4,841	7,093	10,078	11,481	11,772	13,439
1991	15,196	14,391	14,264	14,142	12,262	1,942	2,194	6,201	9,756	11,919	12,924	14,491
<b>Avg</b>	11,965	10,185	8,699	5,020	3,248	1,726	2,219	3,916	6,182	7,786	9,808	11,531
<b>W/AN/BN</b>	10,380	7,885	5,663	1,218	225	225	500	1,186	2,434	4,491	7,862	9,198
<b>D/C</b>	13,197	11,974	11,060	7,976	5,599	2,893	3,557	6,039	9,097	10,350	11,321	13,345

**Percent (%) Change from Future Without Project for Chippis Island Salinity  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

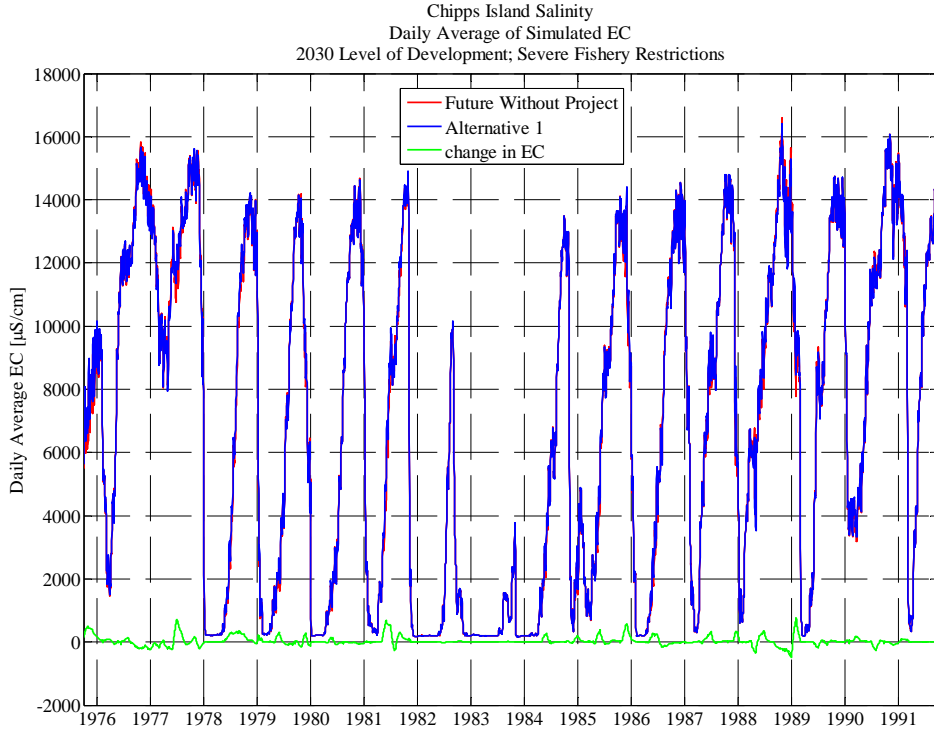
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	5.7%	5.7%	2.9%	1.1%	0.9%	3.8%	0.0%	-0.3%	0.1%	0.7%	0.2%	-0.8%
1977	-1.2%	-1.1%	-1.4%	-0.8%	-0.9%	-0.2%	-1.3%	-1.8%	2.9%	3.9%	0.5%	-0.4%
1978	0.6%	-0.3%	-1.1%	-0.6%	-0.1%	0.0%	0.0%	6.1%	9.9%	5.7%	3.6%	2.4%
1979	1.0%	0.4%	-0.1%	3.6%	2.5%	2.8%	-0.5%	11.7%	3.1%	-1.0%	-0.6%	0.0%
1980	-0.7%	1.2%	-0.3%	-1.6%	-0.2%	-0.1%	-1.4%	7.3%	-0.9%	-0.7%	0.0%	-0.1%
1981	-0.1%	-0.2%	-0.3%	0.3%	-1.1%	0.4%	0.0%	11.5%	8.0%	-0.1%	0.9%	1.6%
1982	0.6%	1.5%	0.1%	-0.1%	0.0%	0.0%	0.0%	0.8%	-1.8%	-0.2%	0.1%	0.2%
1983	2.5%	1.4%	-0.1%	-0.1%	0.0%	0.0%	0.1%	-0.5%	0.0%	0.1%	0.2%	0.3%
1984	0.1%	0.1%	-0.1%	0.0%	0.1%	0.1%	-0.1%	8.2%	1.4%	-0.3%	0.1%	0.0%
1985	0.1%	-0.4%	6.5%	2.3%	0.7%	1.5%	-0.7%	6.0%	1.7%	-0.6%	0.2%	0.4%
1986	0.2%	2.8%	3.1%	1.4%	0.3%	-0.7%	-2.3%	10.6%	7.0%	-0.5%	-1.5%	-0.7%
1987	-0.3%	-0.1%	0.0%	-0.1%	-0.8%	0.3%	0.1%	1.2%	2.8%	0.8%	-0.1%	0.1%
1988	0.2%	0.3%	3.2%	2.7%	-0.3%	0.3%	-4.0%	0.4%	3.3%	1.0%	0.1%	-0.8%
1989	-1.3%	-1.8%	-2.6%	2.5%	4.0%	1.2%	-0.8%	0.3%	-1.7%	-0.3%	-0.1%	0.0%
1990	0.2%	0.0%	0.1%	0.6%	1.0%	3.6%	1.2%	0.3%	0.1%	-1.3%	-0.6%	0.2%
1991	0.1%	-0.3%	-0.4%	0.3%	0.7%	1.6%	0.2%	0.1%	0.1%	0.1%	0.0%	0.0%
<b>Avg</b>	0.5%	0.6%	0.6%	0.7%	0.4%	0.9%	-0.6%	3.9%	2.3%	0.4%	0.2%	0.2%
<b>W/AN/BN</b>	0.6%	1.0%	0.2%	0.4%	0.4%	0.3%	-0.6%	6.3%	2.7%	0.4%	0.3%	0.3%
<b>D/C</b>	0.4%	0.2%	0.9%	1.0%	0.5%	1.4%	-0.6%	2.0%	1.9%	0.5%	0.1%	0.0%



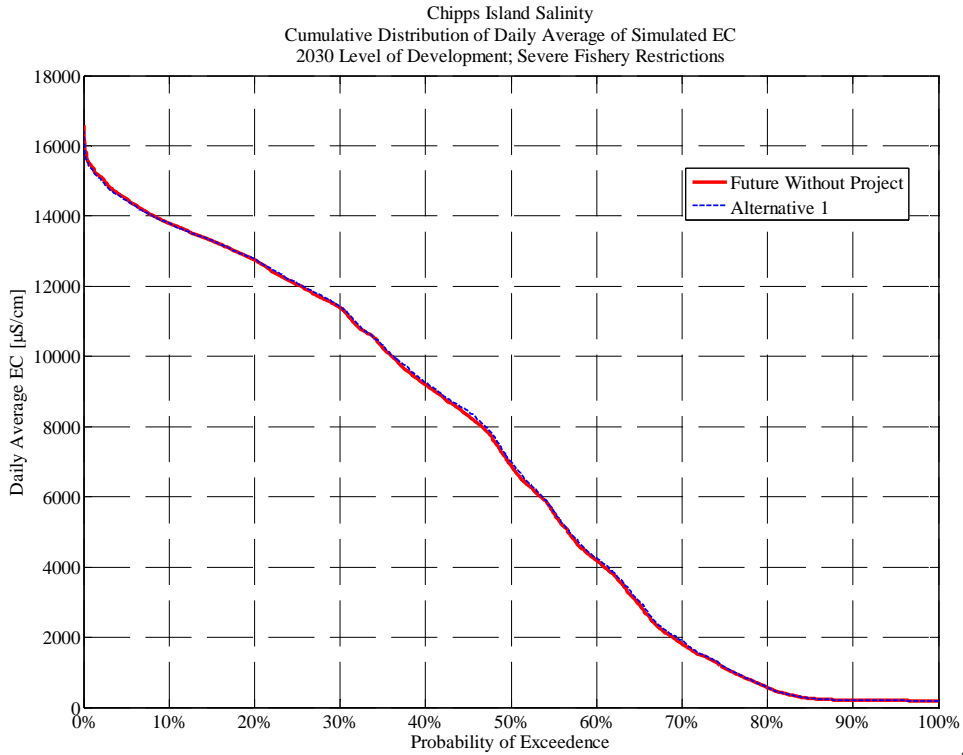
p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 2**

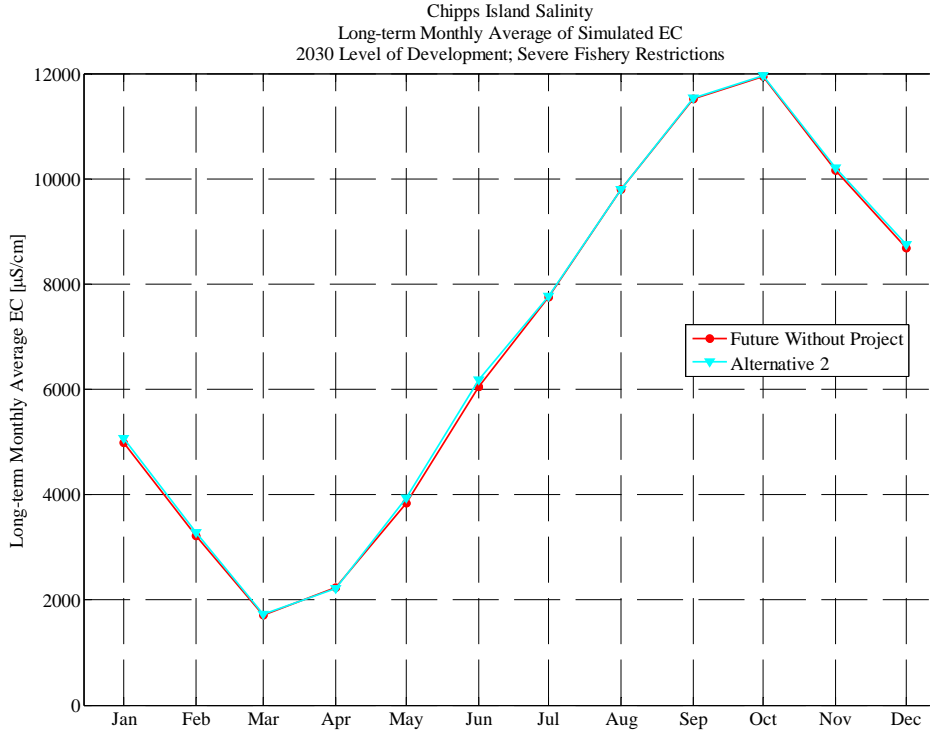
**Chippis Island Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )**  
**Alternative 2**

**2030 Level of Development; Severe Fishery Restrictions**

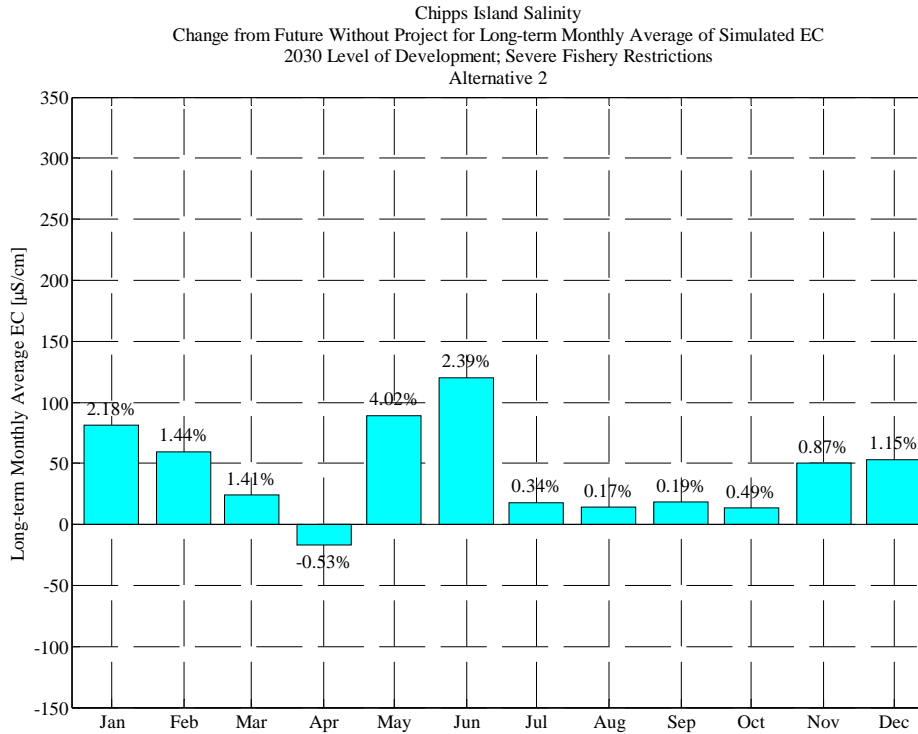
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	6,962	8,043	9,117	9,318	5,871	2,295	3,735	8,262	11,650	12,089	12,139	13,715
1977	14,888	14,790	13,847	13,233	11,270	9,508	9,197	11,056	11,754	12,257	13,416	14,486
1978	14,817	14,788	10,759	525	213	213	235	626	2,037	4,954	9,108	11,915
1979	13,265	13,633	12,723	3,626	299	300	923	1,807	3,389	6,424	9,850	12,814
1980	13,288	10,781	6,290	302	212	214	588	1,434	2,389	4,762	8,714	11,770
1981	13,317	13,525	12,030	3,197	603	345	1,398	3,829	7,644	8,861	10,311	12,918
1982	14,154	2,468	185	200	192	204	191	218	608	3,483	8,431	3,540
1983	1,390	359	199	228	217	204	202	196	195	303	1,241	940
1984	2,366	301	192	203	232	229	960	2,438	4,759	5,976	8,914	12,349
1985	12,473	2,286	1,810	3,868	2,175	1,156	2,191	3,900	7,329	8,693	9,870	12,565
1986	13,280	13,057	9,877	3,684	211	207	402	1,582	3,813	5,639	8,788	11,058
1987	12,595	13,199	13,229	9,059	2,691	517	2,671	5,777	8,373	8,815	10,396	12,942
1988	14,196	13,928	8,345	1,529	2,666	5,454	5,453	6,983	8,869	10,617	11,448	13,106
1989	15,194	13,768	13,439	10,965	9,185	881	386	1,492	6,155	7,970	9,559	12,506
1990	13,968	13,938	13,596	6,909	4,059	3,999	4,842	7,094	10,078	11,492	11,777	13,437
1991	15,195	14,395	14,269	14,137	12,395	1,984	2,195	6,201	9,757	11,918	12,929	14,497
<b>Avg</b>	<b>11,959</b>	<b>10,204</b>	<b>8,744</b>	<b>5,061</b>	<b>3,281</b>	<b>1,732</b>	<b>2,223</b>	<b>3,931</b>	<b>6,175</b>	<b>7,766</b>	<b>9,806</b>	<b>11,535</b>
<b>W/AN/BN</b>	<b>10,366</b>	<b>7,912</b>	<b>5,746</b>	<b>1,253</b>	<b>225</b>	<b>225</b>	<b>500</b>	<b>1,186</b>	<b>2,456</b>	<b>4,506</b>	<b>7,863</b>	<b>9,198</b>
<b>D/C</b>	<b>13,199</b>	<b>11,986</b>	<b>11,076</b>	<b>8,024</b>	<b>5,657</b>	<b>2,904</b>	<b>3,563</b>	<b>6,066</b>	<b>9,068</b>	<b>10,301</b>	<b>11,316</b>	<b>13,352</b>

**Percent (%) Change from Future Without Project for Chippis Island Salinity**  
**(Alternative 2 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Severe Fishery Restrictions**

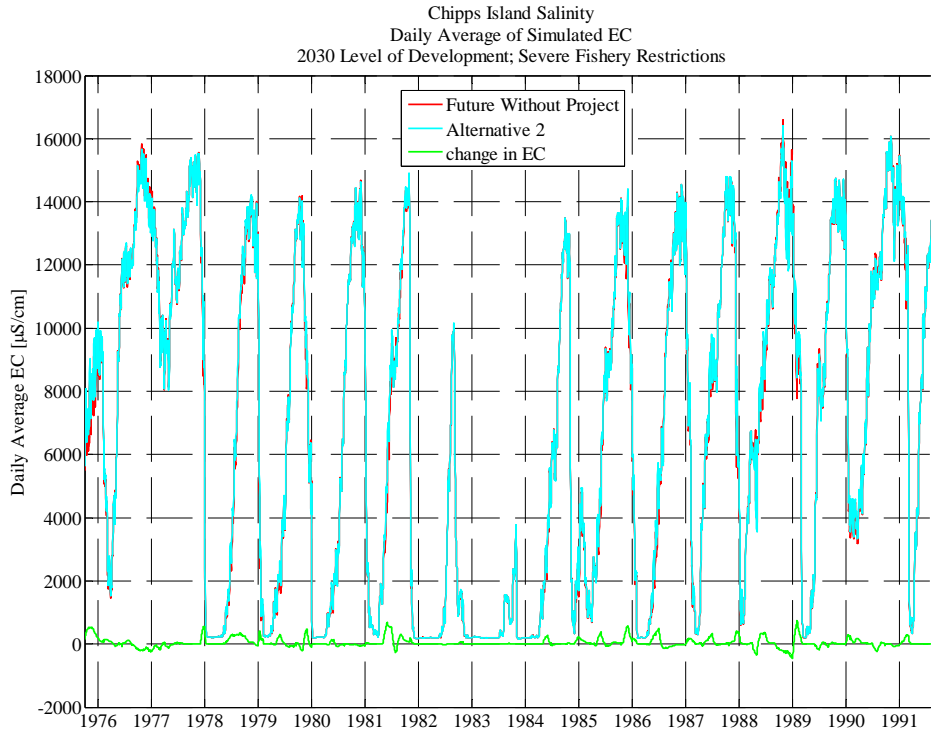
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	6.0%	6.7%	3.4%	1.3%	2.3%	5.0%	0.1%	-0.3%	0.1%	0.7%	0.1%	-0.8%
1977	-1.2%	-1.1%	-1.4%	-0.9%	-0.9%	-0.2%	-0.7%	-0.2%	0.3%	0.3%	0.1%	0.0%
1978	0.0%	0.0%	3.9%	8.4%	0.0%	0.0%	0.0%	6.0%	9.9%	5.7%	3.5%	2.4%
1979	1.0%	0.4%	-0.2%	6.6%	3.7%	2.8%	-0.6%	11.5%	3.3%	-0.9%	-0.6%	0.1%
1980	-0.9%	2.3%	0.9%	-1.3%	-0.3%	-0.1%	-1.4%	7.3%	-0.9%	-0.7%	0.0%	-0.1%
1981	-0.1%	-0.2%	-0.3%	0.9%	0.5%	0.6%	0.0%	11.5%	8.0%	-0.2%	0.9%	1.6%
1982	0.6%	3.0%	0.2%	-0.3%	-0.1%	0.0%	0.0%	0.8%	-1.8%	-0.2%	0.1%	0.2%
1983	3.2%	1.7%	-0.1%	-0.2%	-0.1%	-0.1%	0.2%	-0.4%	0.0%	0.1%	0.2%	0.3%
1984	0.1%	0.1%	-0.1%	0.0%	0.1%	0.2%	-0.1%	8.2%	1.4%	-0.3%	0.1%	0.0%
1985	0.1%	-0.1%	8.0%	4.1%	3.6%	2.2%	-0.6%	6.0%	1.7%	-0.7%	0.2%	0.4%
1986	0.3%	2.9%	3.1%	4.0%	0.8%	-0.7%	-2.3%	10.6%	11.2%	1.4%	-1.4%	-0.7%
1987	-0.3%	-0.2%	-0.1%	1.4%	5.0%	2.8%	-0.1%	1.1%	2.8%	0.8%	-0.2%	0.1%
1988	0.1%	0.5%	4.1%	5.0%	-0.1%	0.3%	-4.0%	1.6%	3.9%	1.1%	0.3%	-0.7%
1989	-1.2%	-1.8%	-2.6%	2.5%	4.6%	2.4%	-0.1%	0.3%	-1.7%	-0.3%	-0.1%	0.0%
1990	0.2%	0.0%	0.1%	3.2%	2.4%	3.7%	1.2%	0.3%	0.1%	-1.2%	-0.6%	0.2%
1991	0.1%	-0.3%	-0.4%	0.3%	1.8%	3.8%	0.2%	0.1%	0.1%	0.0%	0.0%	0.0%
<b>Avg</b>	<b>0.5%</b>	<b>0.9%</b>	<b>1.2%</b>	<b>2.2%</b>	<b>1.4%</b>	<b>1.4%</b>	<b>-0.5%</b>	<b>4.0%</b>	<b>2.4%</b>	<b>0.3%</b>	<b>0.2%</b>	<b>0.2%</b>
<b>W/AN/BN</b>	<b>0.6%</b>	<b>1.5%</b>	<b>1.1%</b>	<b>2.5%</b>	<b>0.6%</b>	<b>0.3%</b>	<b>-0.6%</b>	<b>6.3%</b>	<b>3.3%</b>	<b>0.7%</b>	<b>0.3%</b>	<b>0.3%</b>
<b>D/C</b>	<b>0.4%</b>	<b>0.4%</b>	<b>1.2%</b>	<b>2.0%</b>	<b>2.1%</b>	<b>2.3%</b>	<b>-0.5%</b>	<b>2.3%</b>	<b>1.7%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>



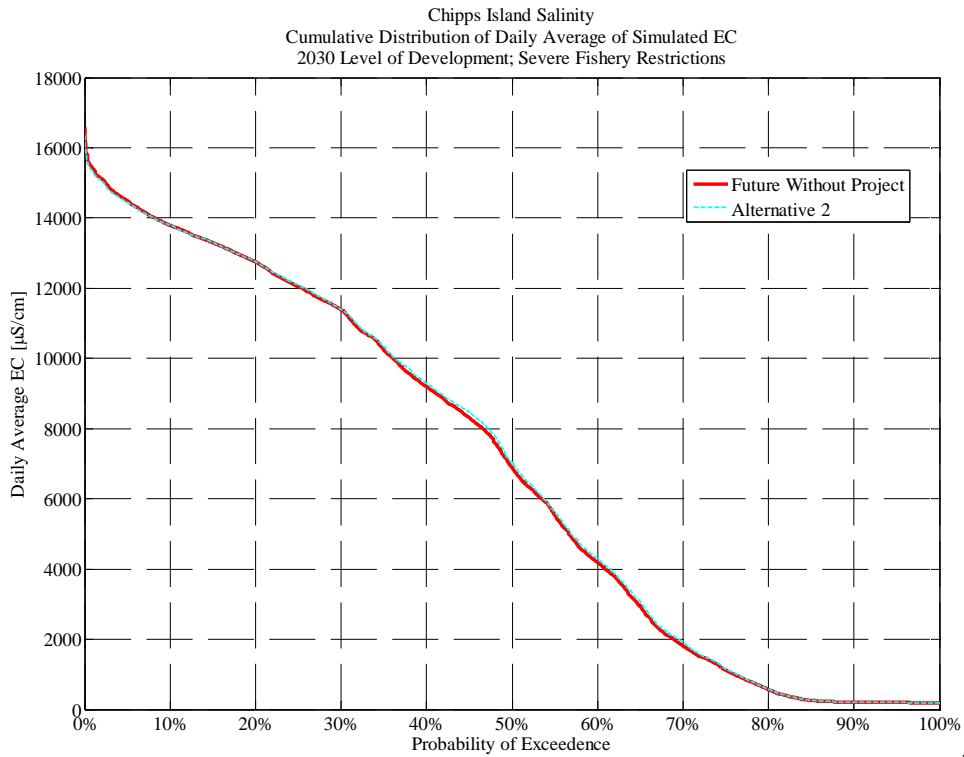
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04-Nov-2008 DS



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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
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**Alternative 3**

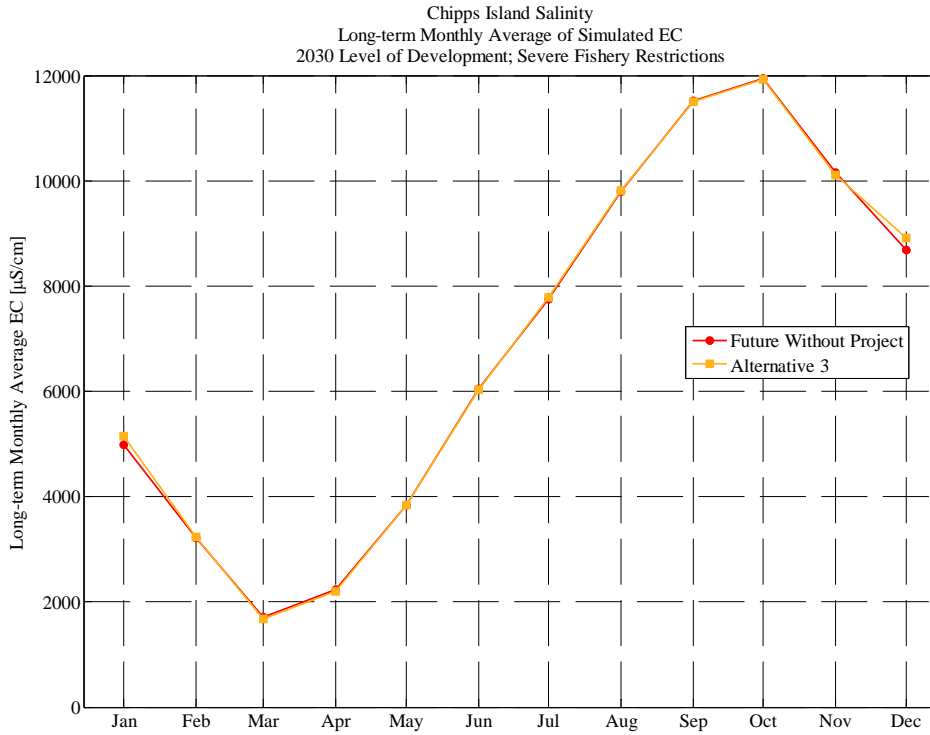
**Chippis Island Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**

**Alternative 3****2030 Level of Development; Severe Fishery Restrictions**

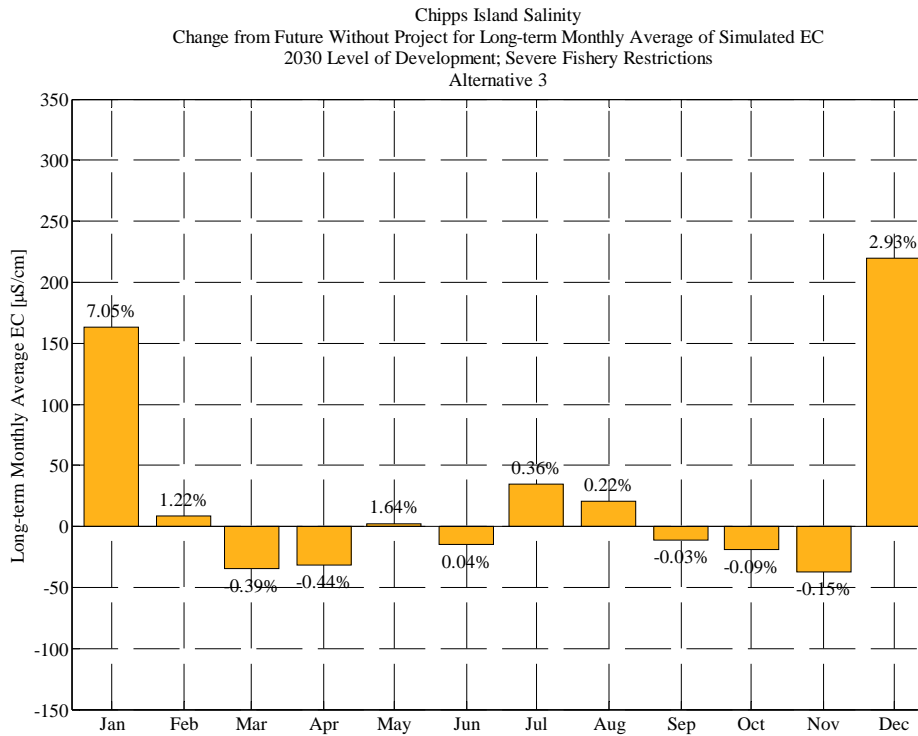
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	6,594	7,555	8,823	9,191	5,724	2,174	3,727	8,100	11,429	11,984	12,019	13,584
1977	14,838	14,716	13,885	13,160	11,128	9,194	9,008	10,819	12,031	12,703	13,469	14,435
1978	14,897	14,752	10,213	478	213	213	234	619	1,996	4,898	9,043	11,934
1979	13,308	13,645	12,802	3,480	293	299	936	1,789	3,389	6,432	9,854	12,818
1980	13,413	10,550	6,306	310	213	215	597	1,380	2,366	4,761	8,721	11,798
1981	13,341	13,565	12,092	3,178	600	343	1,398	3,575	7,057	8,838	10,202	12,672
1982	14,055	2,398	184	202	193	204	191	217	607	3,485	8,430	3,538
1983	1,349	353	199	228	217	204	202	197	195	303	1,241	940
1984	2,367	301	193	203	238	233	962	2,323	4,642	5,969	8,925	12,362
1985	12,515	2,329	1,683	3,717	2,101	1,131	2,206	3,805	7,159	8,713	9,822	12,475
1986	13,225	12,703	9,596	3,547	209	207	415	1,481	3,370	5,477	8,835	11,110
1987	12,643	13,227	13,284	10,397	3,061	506	2,664	5,696	7,934	8,858	10,419	12,778
1988	14,085	13,853	11,972	2,865	2,650	5,241	5,433	6,749	8,274	10,470	11,609	13,205
1989	15,204	13,720	13,564	10,617	8,717	838	383	1,489	6,381	8,041	9,605	12,543
1990	13,813	13,740	13,444	6,643	3,959	3,856	4,784	7,072	10,064	11,672	11,876	13,412
1991	15,187	14,457	14,335	14,088	12,165	1,910	2,190	6,193	9,754	11,918	12,918	14,481
<b>Avg</b>	<b>11,927</b>	<b>10,116</b>	<b>8,911</b>	<b>5,144</b>	<b>3,230</b>	<b>1,673</b>	<b>2,208</b>	<b>3,844</b>	<b>6,041</b>	<b>7,783</b>	<b>9,812</b>	<b>11,505</b>
<b>W/AN/BN</b>	<b>10,373</b>	<b>7,814</b>	<b>5,642</b>	<b>1,207</b>	<b>225</b>	<b>225</b>	<b>505</b>	<b>1,144</b>	<b>2,367</b>	<b>4,475</b>	<b>7,864</b>	<b>9,214</b>
<b>D/C</b>	<b>13,136</b>	<b>11,907</b>	<b>11,453</b>	<b>8,206</b>	<b>5,567</b>	<b>2,799</b>	<b>3,533</b>	<b>5,944</b>	<b>8,898</b>	<b>10,355</b>	<b>11,327</b>	<b>13,287</b>

**Percent (%) Change from Future Without Project for Chippis Island Salinity****(Alternative 3 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

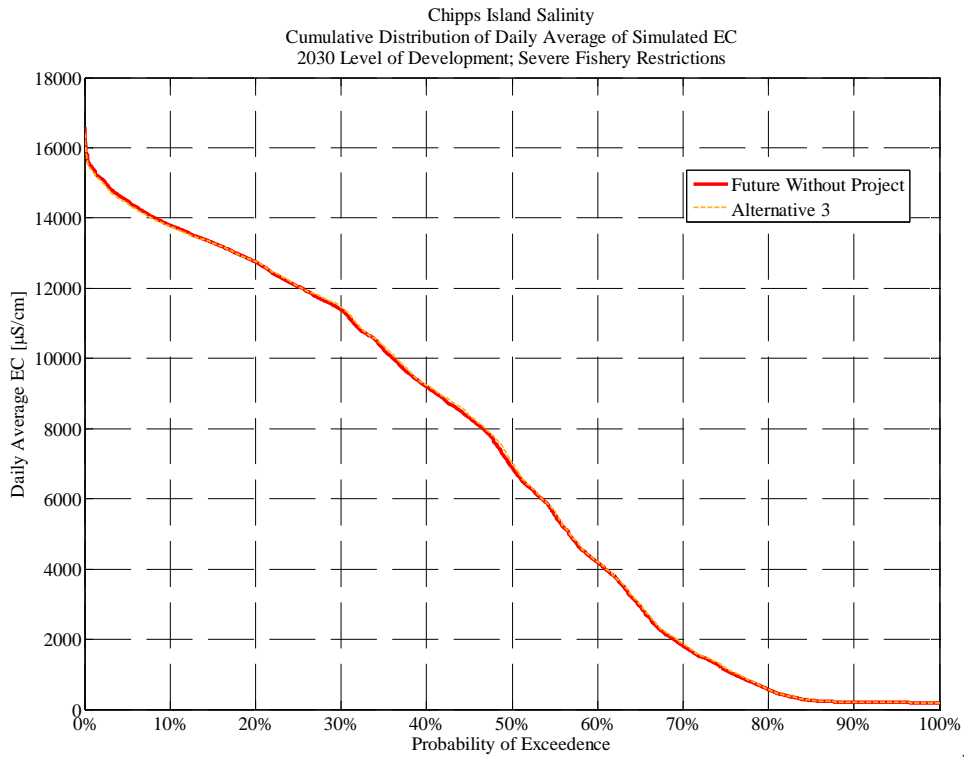
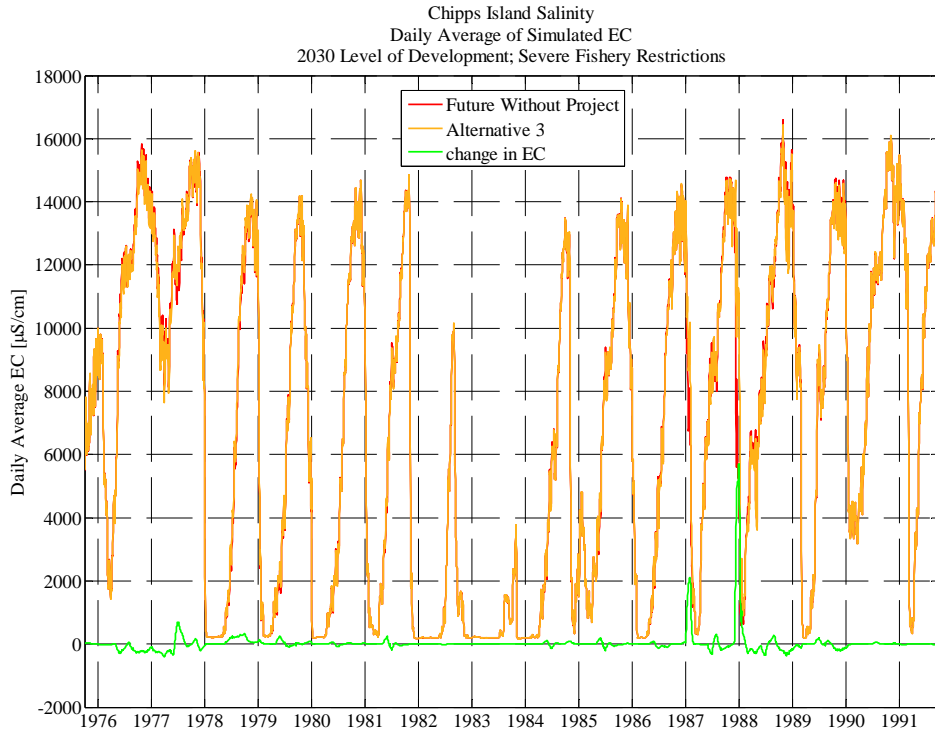
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.4%	0.2%	0.1%	-0.1%	-0.3%	-0.6%	-0.1%	-2.2%	-1.8%	-0.2%	-0.9%	-1.7%
1977	-1.6%	-1.6%	-1.1%	-1.4%	-2.2%	-3.5%	-2.8%	-2.4%	2.6%	3.9%	0.5%	-0.4%
1978	0.6%	-0.3%	-1.4%	-1.2%	-0.1%	-0.1%	-0.2%	4.8%	7.7%	4.5%	2.8%	2.5%
1979	1.3%	0.5%	0.4%	2.3%	1.4%	2.3%	0.8%	10.4%	3.3%	-0.8%	-0.5%	0.1%
1980	0.1%	0.1%	1.1%	1.1%	0.0%	0.1%	-0.1%	3.3%	-1.8%	-0.8%	0.1%	0.2%
1981	0.1%	0.1%	0.2%	0.3%	0.1%	0.0%	0.0%	4.1%	-0.3%	-0.4%	-0.2%	-0.3%
1982	-0.1%	0.0%	0.0%	0.3%	0.2%	0.0%	0.0%	0.4%	-1.9%	-0.2%	0.1%	0.2%
1983	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.1%	0.1%	0.3%	0.3%
1984	0.1%	0.1%	0.0%	0.0%	2.8%	1.9%	0.1%	3.1%	-1.1%	-0.5%	0.2%	0.1%
1985	0.4%	1.8%	0.4%	0.1%	0.0%	0.0%	0.0%	3.4%	-0.7%	-0.4%	-0.3%	-0.4%
1986	-0.2%	0.1%	0.1%	0.1%	0.0%	-0.7%	0.7%	3.6%	-1.7%	-1.5%	-0.9%	-0.3%
1987	0.1%	0.0%	0.3%	16.4%	19.4%	0.5%	-0.4%	-0.3%	-2.6%	1.3%	0.0%	-1.2%
1988	-0.6%	-0.1%	49.3%	96.6%	-0.8%	-3.6%	-4.3%	-1.8%	-3.1%	-0.3%	1.7%	0.1%
1989	-1.2%	-2.1%	-1.7%	-0.8%	-0.8%	-2.7%	-0.7%	0.1%	1.9%	0.6%	0.4%	0.3%
1990	-0.9%	-1.4%	-1.0%	-0.8%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.3%	0.2%	0.0%
1991	0.0%	0.1%	0.1%	-0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%
<b>Avg</b>	<b>-0.1%</b>	<b>-0.1%</b>	<b>2.9%</b>	<b>7.0%</b>	<b>1.2%</b>	<b>-0.4%</b>	<b>-0.4%</b>	<b>1.6%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.2%</b>	<b>0.0%</b>
<b>W/AN/BN</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.2%</b>	<b>3.6%</b>	<b>0.6%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.4%</b>
<b>D/C</b>	<b>-0.4%</b>	<b>-0.3%</b>	<b>5.2%</b>	<b>12.2%</b>	<b>1.7%</b>	<b>-1.1%</b>	<b>-0.9%</b>	<b>0.1%</b>	<b>-0.4%</b>	<b>0.5%</b>	<b>0.2%</b>	<b>-0.4%</b>



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**Alternative 4**

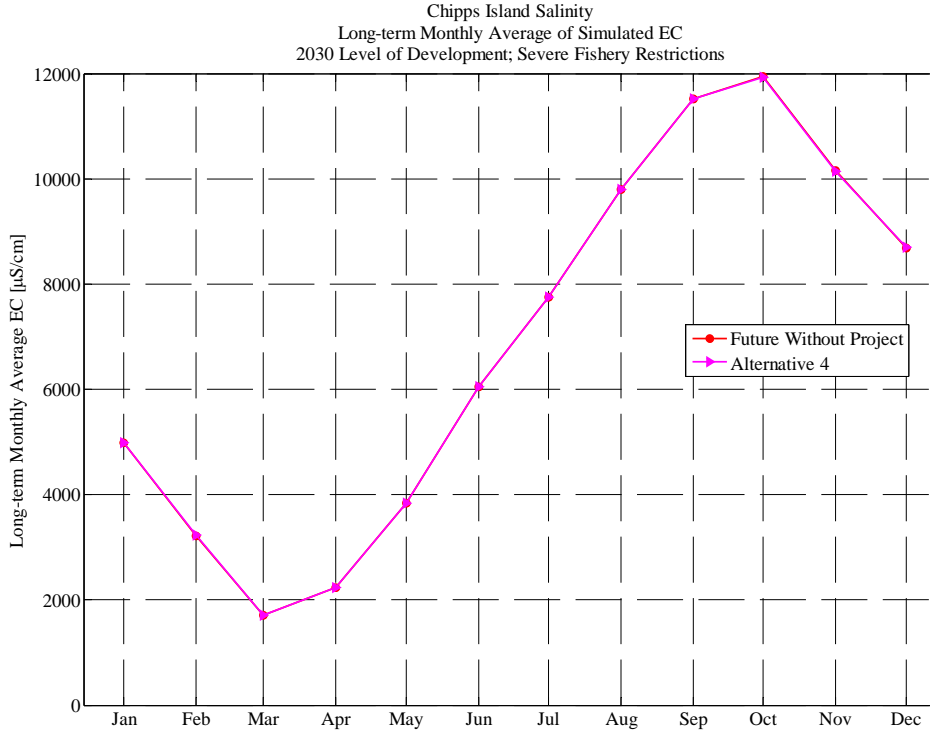
**Chippis Island Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 4**

**2030 Level of Development; Severe Fishery Restrictions**

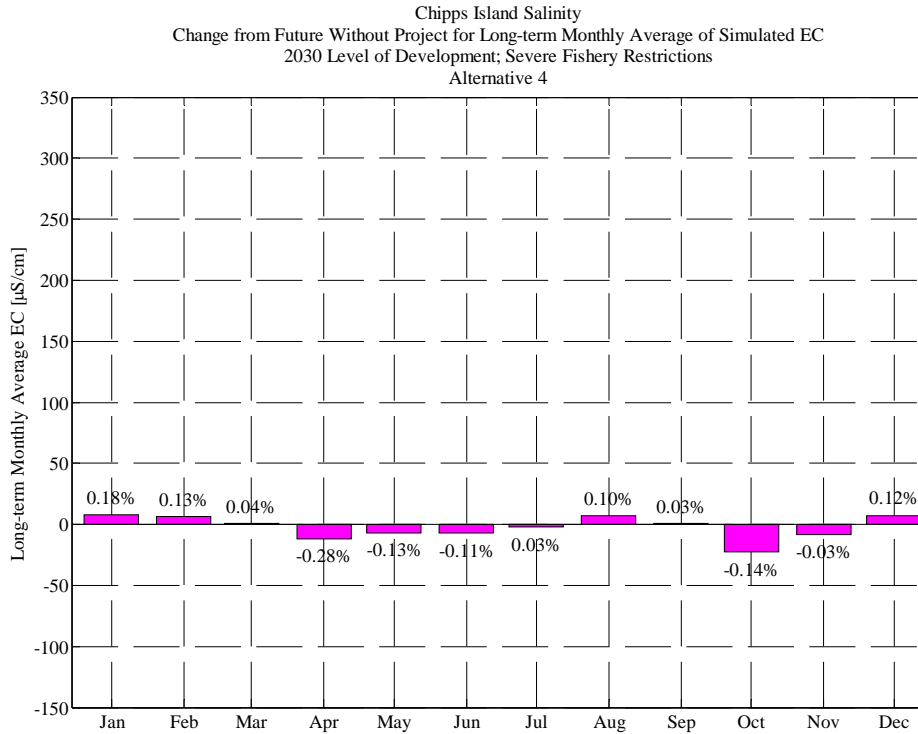
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	6,573	7,538	8,817	9,201	5,740	2,185	3,733	8,284	11,632	12,002	12,062	13,682
1977	14,874	14,749	13,874	13,308	11,388	9,532	9,268	11,084	11,725	12,224	13,406	14,488
1978	14,814	14,790	10,359	484	213	213	235	590	1,854	4,688	8,796	11,637
1979	13,133	13,580	12,756	3,388	288	292	929	1,622	3,282	6,484	9,982	12,871
1980	13,288	10,447	6,219	306	212	214	596	1,336	2,411	4,853	8,822	11,845
1981	13,344	13,561	12,180	3,280	609	343	1,398	3,435	7,080	8,870	10,234	12,730
1982	14,084	2,406	184	201	193	204	191	216	620	3,493	8,427	3,535
1983	1,348	353	199	228	217	204	202	197	195	303	1,239	938
1984	2,366	301	193	203	232	228	961	2,254	4,700	6,001	8,907	12,352
1985	12,455	2,289	1,677	3,716	2,100	1,131	2,205	3,679	7,208	8,754	9,851	12,522
1986	13,247	13,018	9,861	3,586	209	208	408	1,423	3,426	5,561	8,944	11,216
1987	12,717	13,265	13,259	8,937	2,580	505	2,674	5,715	8,143	8,746	10,412	12,929
1988	14,174	13,870	8,024	1,439	2,666	5,441	5,491	6,761	8,518	10,505	11,402	13,073
1989	15,171	13,807	13,703	10,720	8,818	862	386	1,487	6,152	7,984	9,556	12,538
1990	13,986	13,941	13,586	6,696	3,963	3,857	4,784	7,072	10,068	11,545	11,800	13,427
1991	15,193	14,410	14,290	14,127	12,220	1,916	2,190	6,193	9,750	11,914	12,928	14,494
<b>Avg</b>	<b>11,923</b>	<b>10,145</b>	<b>8,699</b>	<b>4,989</b>	<b>3,228</b>	<b>1,709</b>	<b>2,228</b>	<b>3,834</b>	<b>6,048</b>	<b>7,745</b>	<b>9,798</b>	<b>11,517</b>
<b>W/AN/BN</b>	<b>10,326</b>	<b>7,842</b>	<b>5,682</b>	<b>1,199</b>	<b>223</b>	<b>223</b>	<b>503</b>	<b>1,091</b>	<b>2,355</b>	<b>4,483</b>	<b>7,874</b>	<b>9,199</b>
<b>D/C</b>	<b>13,165</b>	<b>11,937</b>	<b>11,046</b>	<b>7,936</b>	<b>5,565</b>	<b>2,864</b>	<b>3,570</b>	<b>5,968</b>	<b>8,920</b>	<b>10,283</b>	<b>11,295</b>	<b>13,320</b>

**Percent (%) Change from Future Without Project for Chippis Island Salinity  
(Alternative 4 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

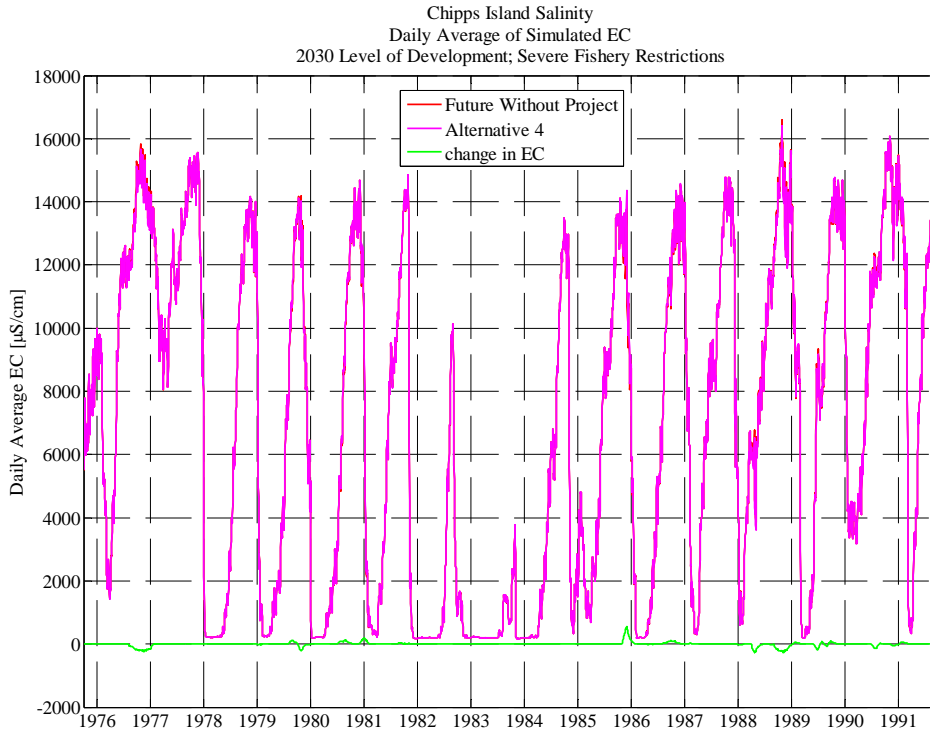
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.5%	-1.0%
1977	-1.3%	-1.3%	-1.2%	-0.3%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.1%	-0.4%	-0.2%	0.0%	0.1%	0.1%	0.0%	0.0%	0.8%	0.5%
1980	-0.9%	-0.8%	-0.3%	-0.2%	-0.5%	-0.3%	-0.1%	0.0%	0.0%	1.2%	1.2%	0.6%
1981	0.1%	0.0%	0.9%	3.5%	1.4%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.1%	0.2%
1982	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	0.0%	0.0%
1985	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	2.6%	2.9%	1.2%	0.1%	0.0%	-1.1%	-0.5%	-0.1%	0.0%	0.3%	0.7%
1987	0.6%	0.3%	0.1%	0.0%	0.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.1%	-1.3%	-0.2%	0.0%	-3.3%	-1.6%	-0.2%	0.0%	-0.1%	-0.9%
1989	-1.4%	-1.5%	-0.7%	0.2%	0.4%	0.1%	-0.1%	0.0%	-1.7%	-0.1%	-0.1%	0.2%
1990	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.8%	-0.4%	0.1%
1991	0.0%	-0.2%	-0.2%	0.2%	0.4%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>-0.3%</b>	<b>-0.1%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>
<b>W/AN/BN</b>	<b>-0.1%</b>	<b>0.3%</b>	<b>0.4%</b>	<b>0.1%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>-0.2%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.4%</b>	<b>0.3%</b>
<b>D/C</b>	<b>-0.2%</b>	<b>-0.3%</b>	<b>-0.1%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>-0.4%</b>	<b>-0.2%</b>	<b>-0.2%</b>	<b>-0.1%</b>	<b>-0.1%</b>	<b>-0.2%</b>



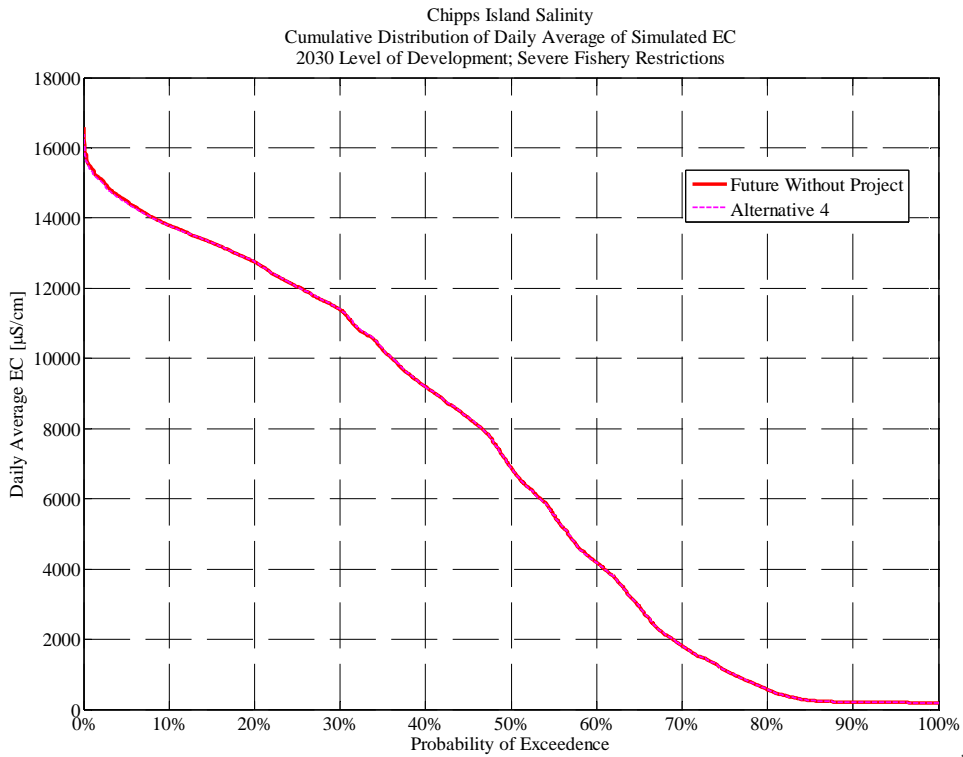
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04-Nov-2008 DS



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04-Nov-2008 DS



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04-Nov-2008 DS



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05-Nov-2008 DS

## Collinsville

### Future Without Project

**Collinsville Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Future Without Project**  
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	2,917	3,660	4,560	4,878	2,424	646	1,417	4,612	7,452	7,288	7,364	9,207
1977	10,466	10,371	9,263	8,501	6,624	4,975	4,899	6,776	7,349	7,668	8,765	9,909
1978	10,231	10,163	5,655	299	206	209	218	261	586	1,950	4,770	7,081
1979	8,446	8,864	7,946	1,498	227	213	321	508	1,183	3,008	5,646	8,209
1980	8,752	5,799	2,620	222	200	209	265	408	771	1,991	4,699	7,181
1981	8,737	8,827	7,095	1,204	245	202	459	1,254	3,655	4,577	5,658	8,190
1982	9,556	1,035	183	200	189	201	184	189	245	1,400	4,540	1,416
1983	376	202	196	220	196	184	197	193	193	207	392	278
1984	771	205	184	200	199	189	331	696	1,964	2,625	4,912	7,953
1985	7,717	864	538	1,379	625	340	725	1,343	3,780	4,439	5,290	7,975
1986	8,655	7,798	4,869	1,274	185	193	239	460	1,278	2,438	4,895	6,597
1987	8,103	8,634	8,517	4,577	846	232	1,044	2,608	4,408	4,453	5,925	8,461
1988	9,551	9,214	3,955	472	971	2,397	2,451	3,334	4,587	5,951	6,700	8,653
1989	10,959	9,231	9,019	5,868	4,566	409	207	460	3,246	3,831	5,099	8,023
1990	9,257	9,235	8,968	2,993	1,399	1,387	1,938	3,567	6,095	6,973	7,144	8,820
1991	10,691	9,802	9,775	9,431	7,403	914	810	3,006	5,821	7,432	8,288	9,967
<b>Avg</b>	<b>7,824</b>	<b>6,494</b>	<b>5,209</b>	<b>2,701</b>	<b>1,657</b>	<b>806</b>	<b>982</b>	<b>1,855</b>	<b>3,288</b>	<b>4,139</b>	<b>5,630</b>	<b>7,370</b>
<b>W/AN/BN</b>	<b>6,684</b>	<b>4,867</b>	<b>3,093</b>	<b>559</b>	<b>200</b>	<b>200</b>	<b>251</b>	<b>388</b>	<b>888</b>	<b>1,946</b>	<b>4,265</b>	<b>5,531</b>
<b>D/C</b>	<b>8,711</b>	<b>7,760</b>	<b>6,854</b>	<b>4,367</b>	<b>2,789</b>	<b>1,278</b>	<b>1,550</b>	<b>2,996</b>	<b>5,155</b>	<b>5,846</b>	<b>6,692</b>	<b>8,800</b>

**Alternative 1**

**Collinsville Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 1**

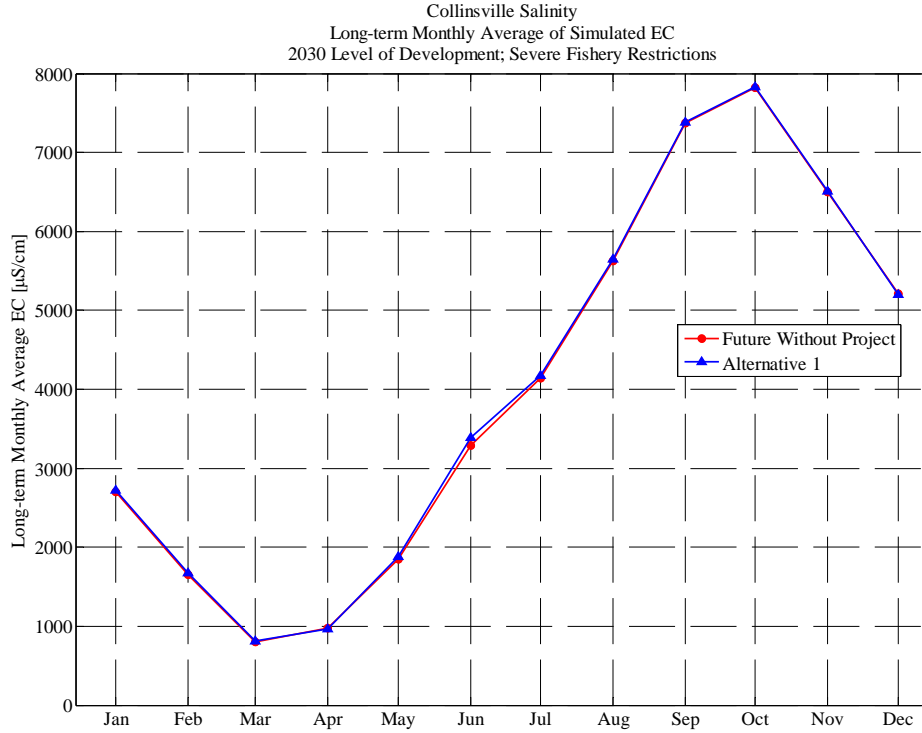
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	3,190	4,007	4,766	4,956	2,455	674	1,413	4,599	7,476	7,381	7,391	9,056
1977	10,215	10,148	9,014	8,353	6,509	4,944	4,779	6,547	7,676	8,093	8,792	9,833
1978	10,317	10,113	5,554	297	206	209	217	266	658	2,126	5,064	7,403
1979	8,580	8,920	7,924	1,546	227	212	318	581	1,227	2,960	5,584	8,218
1980	8,648	5,903	2,623	220	200	209	263	439	756	1,971	4,700	7,173
1981	8,721	8,790	7,051	1,203	244	202	459	1,491	4,149	4,575	5,765	8,398
1982	9,642	1,048	183	199	189	201	184	188	242	1,398	4,547	1,420
1983	385	203	195	220	196	184	197	193	193	207	392	279
1984	772	205	184	200	199	189	330	775	1,996	2,606	4,926	7,949
1985	7,731	862	582	1,423	630	344	719	1,478	3,879	4,389	5,313	8,015
1986	8,694	8,149	5,103	1,297	185	192	238	519	1,410	2,406	4,764	6,517
1987	8,066	8,612	8,517	4,565	838	232	1,043	2,661	4,637	4,539	5,922	8,484
1988	9,587	9,259	4,141	494	968	2,413	2,303	3,385	4,871	6,080	6,719	8,530
1989	10,682	8,914	8,616	6,042	4,817	412	207	463	3,150	3,806	5,077	8,008
1990	9,305	9,250	8,989	3,020	1,420	1,464	1,971	3,585	6,108	6,810	7,072	8,855
1991	10,701	9,750	9,715	9,482	7,484	928	810	3,012	5,827	7,444	8,283	9,965
<b>Avg</b>	<b>7,827</b>	<b>6,508</b>	<b>5,197</b>	<b>2,720</b>	<b>1,673</b>	<b>813</b>	<b>966</b>	<b>1,886</b>	<b>3,391</b>	<b>4,174</b>	<b>5,644</b>	<b>7,381</b>
<b>W/AN/BN</b>	<b>6,720</b>	<b>4,935</b>	<b>3,110</b>	<b>569</b>	<b>200</b>	<b>199</b>	<b>250</b>	<b>423</b>	<b>926</b>	<b>1,953</b>	<b>4,282</b>	<b>5,565</b>
<b>D/C</b>	<b>8,689</b>	<b>7,732</b>	<b>6,821</b>	<b>4,393</b>	<b>2,818</b>	<b>1,290</b>	<b>1,523</b>	<b>3,025</b>	<b>5,308</b>	<b>5,902</b>	<b>6,704</b>	<b>8,794</b>

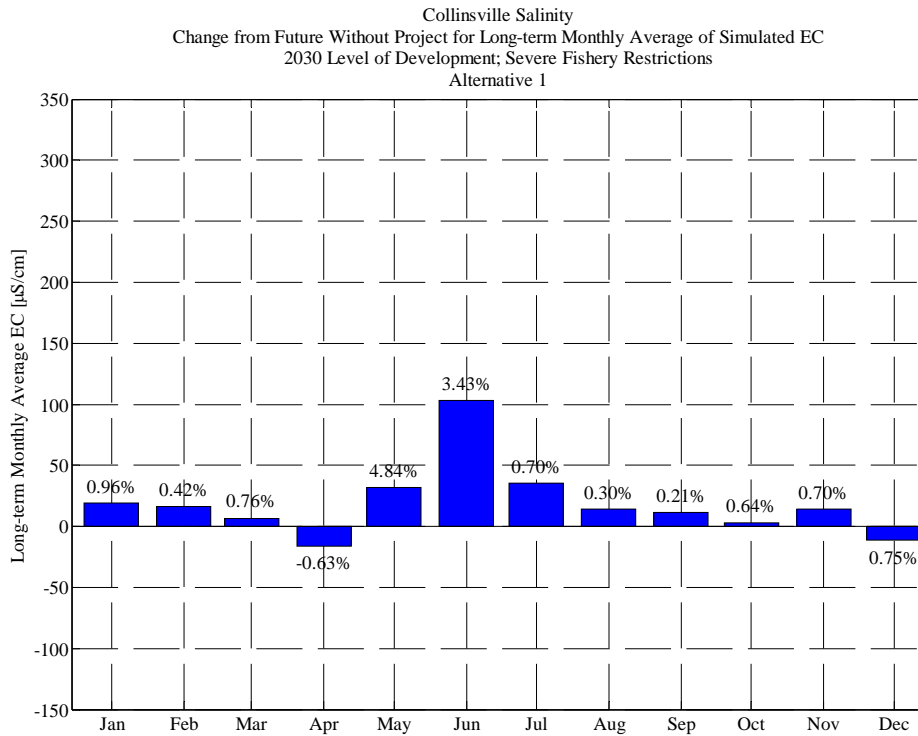
**Percent (%) Change from Future Without Project for Collinsville Salinity  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	9.4%	9.5%	4.5%	1.6%	1.3%	4.4%	-0.3%	-0.3%	0.3%	1.3%	0.4%	-1.6%
1977	-2.4%	-2.2%	-2.7%	-1.7%	-1.7%	-0.6%	-2.5%	-3.4%	4.4%	5.5%	0.3%	-0.8%
1978	0.8%	-0.5%	-1.8%	-0.5%	0.0%	0.0%	-0.2%	1.8%	12.3%	9.1%	6.2%	4.5%
1979	1.6%	0.6%	-0.3%	3.2%	-0.3%	-0.7%	-1.0%	14.3%	3.8%	-1.6%	-1.1%	0.1%
1980	-1.2%	1.8%	0.1%	-0.9%	-0.1%	-0.1%	-0.5%	7.5%	-1.9%	-1.0%	0.0%	-0.1%
1981	-0.2%	-0.4%	-0.6%	-0.1%	-0.4%	0.1%	-0.1%	18.9%	13.5%	0.0%	1.9%	2.5%
1982	0.9%	1.3%	0.0%	-0.1%	0.0%	0.0%	0.0%	-0.2%	-1.0%	-0.2%	0.2%	0.3%
1983	2.6%	0.4%	-0.1%	-0.1%	0.0%	0.0%	0.1%	-0.4%	0.0%	0.0%	0.2%	0.1%
1984	0.1%	0.1%	0.0%	0.0%	0.1%	0.0%	-0.2%	11.4%	1.6%	-0.7%	0.3%	0.0%
1985	0.2%	-0.2%	8.2%	3.2%	0.9%	1.1%	-0.8%	10.1%	2.6%	-1.1%	0.4%	0.5%
1986	0.5%	4.5%	4.8%	1.8%	0.1%	-0.5%	-0.3%	12.8%	10.4%	-1.3%	-2.7%	-1.2%
1987	-0.5%	-0.3%	0.0%	-0.2%	-0.9%	-0.2%	-0.2%	2.0%	5.2%	1.9%	-0.1%	0.3%
1988	0.4%	0.5%	4.7%	4.8%	-0.3%	0.7%	-6.0%	1.5%	6.2%	2.2%	0.3%	-1.4%
1989	-2.5%	-3.4%	-4.5%	3.0%	5.5%	0.9%	0.1%	0.6%	-2.9%	-0.6%	-0.4%	-0.2%
1990	0.5%	0.2%	0.2%	0.9%	1.5%	5.5%	1.7%	0.5%	0.2%	-2.3%	-1.0%	0.4%
1991	0.1%	-0.5%	-0.6%	0.5%	1.1%	1.5%	0.1%	0.2%	0.1%	0.2%	-0.1%	0.0%
<b>Avg</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>1.0%</b>	<b>0.4%</b>	<b>0.8%</b>	<b>-0.6%</b>	<b>4.8%</b>	<b>3.4%</b>	<b>0.7%</b>	<b>0.3%</b>	<b>0.2%</b>
<b>W/AN/BN</b>	<b>0.8%</b>	<b>1.2%</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>-0.2%</b>	<b>-0.3%</b>	<b>6.8%</b>	<b>3.6%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>0.5%</b>
<b>D/C</b>	<b>0.6%</b>	<b>0.3%</b>	<b>1.0%</b>	<b>1.3%</b>	<b>0.8%</b>	<b>1.5%</b>	<b>-0.9%</b>	<b>3.3%</b>	<b>3.3%</b>	<b>0.8%</b>	<b>0.2%</b>	<b>0.0%</b>

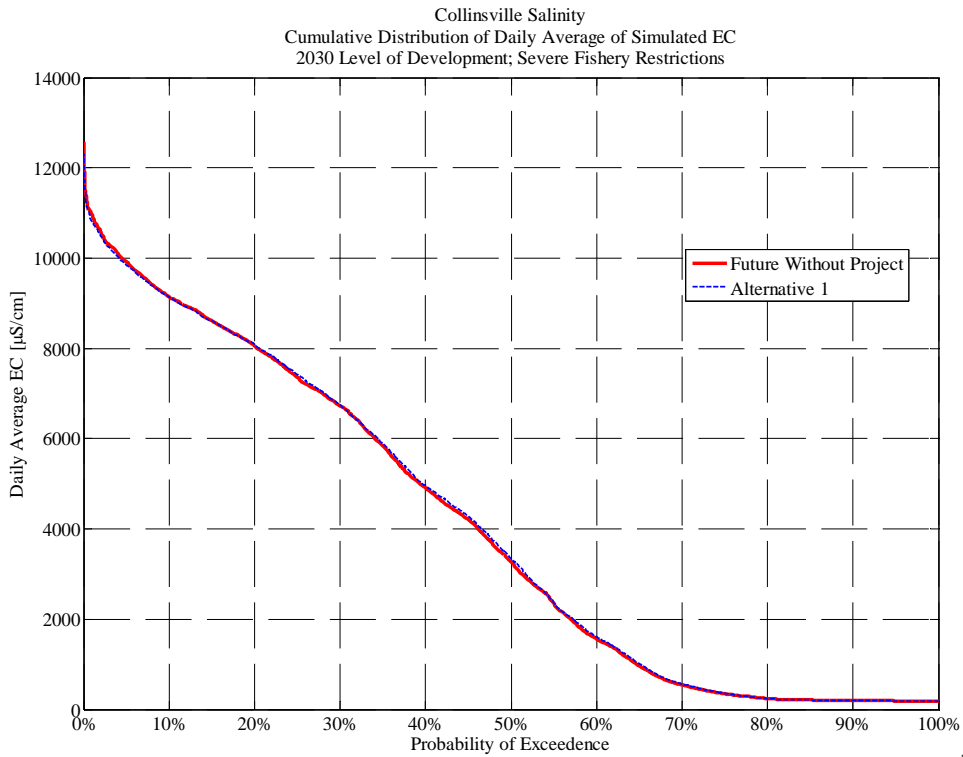
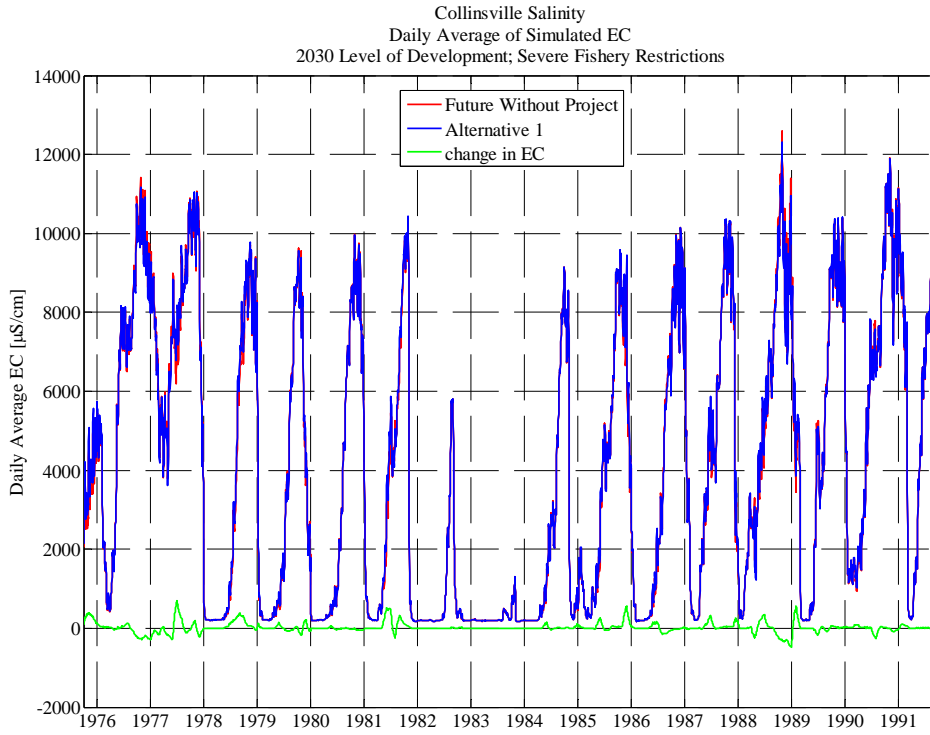




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**Alternative 2**

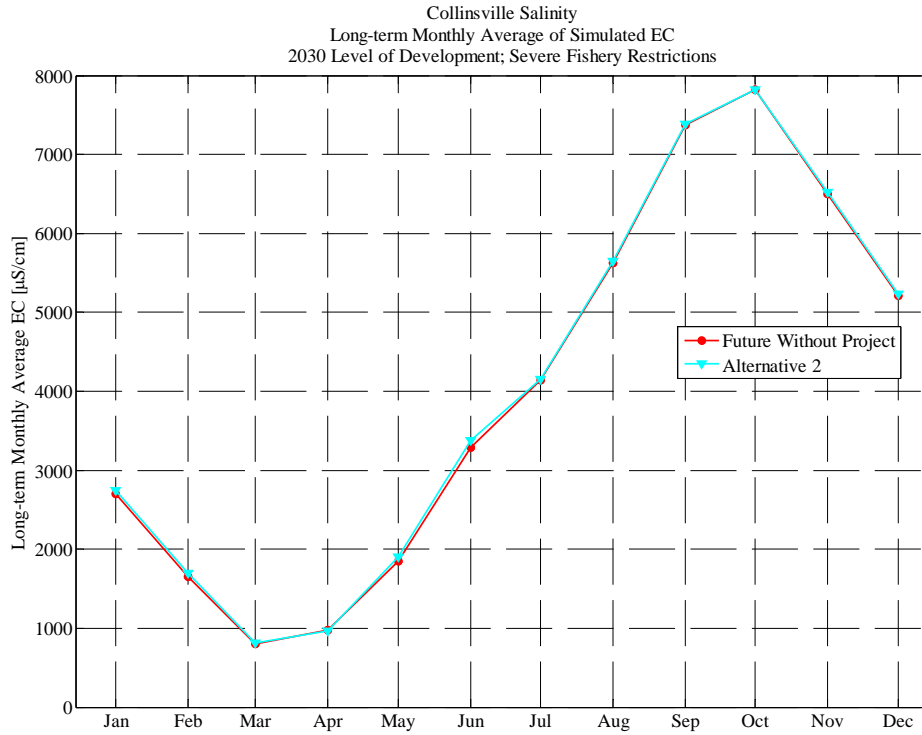
**Collinsville Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Alternative 2**

**2030 Level of Development; Severe Fishery Restrictions**

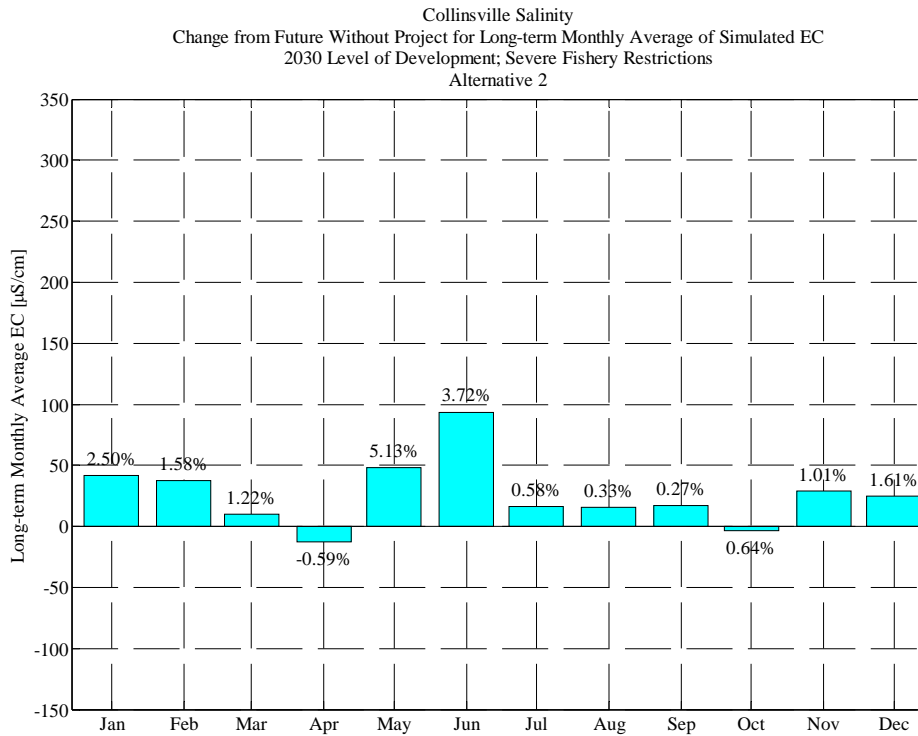
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	3,203	4,065	4,805	4,967	2,502	685	1,414	4,599	7,478	7,379	7,388	9,057
1977	10,217	10,147	9,018	8,348	6,501	4,945	4,832	6,742	7,382	7,704	8,775	9,906
1978	10,233	10,161	5,991	319	206	209	218	266	658	2,125	5,062	7,404
1979	8,580	8,920	7,919	1,588	227	212	317	580	1,231	2,963	5,585	8,221
1980	8,615	6,000	2,678	221	199	209	263	439	757	1,971	4,700	7,173
1981	8,720	8,789	7,053	1,209	245	202	459	1,491	4,148	4,574	5,764	8,397
1982	9,641	1,055	183	199	189	201	184	188	242	1,398	4,547	1,421
1983	388	203	195	220	196	184	197	193	193	207	392	279
1984	772	205	184	200	199	189	330	775	1,996	2,606	4,926	7,949
1985	7,730	864	592	1,461	654	346	719	1,478	3,879	4,387	5,311	8,014
1986	8,696	8,151	5,101	1,335	186	192	238	519	1,503	2,483	4,786	6,512
1987	8,060	8,600	8,496	4,673	901	234	1,039	2,657	4,636	4,535	5,909	8,474
1988	9,582	9,291	4,192	505	968	2,411	2,303	3,455	4,918	6,089	6,744	8,548
1989	10,689	8,913	8,622	6,036	4,861	418	207	461	3,151	3,806	5,076	8,011
1990	9,305	9,249	8,989	3,126	1,452	1,465	1,971	3,585	6,107	6,821	7,076	8,852
1991	10,700	9,754	9,719	9,477	7,620	957	811	3,013	5,829	7,441	8,289	9,970
<b>Avg</b>	<b>7,821</b>	<b>6,523</b>	<b>5,234</b>	<b>2,743</b>	<b>1,694</b>	<b>816</b>	<b>969</b>	<b>1,903</b>	<b>3,382</b>	<b>4,156</b>	<b>5,646</b>	<b>7,387</b>
<b>W/AN/BN</b>	<b>6,703</b>	<b>4,956</b>	<b>3,179</b>	<b>583</b>	<b>200</b>	<b>199</b>	<b>250</b>	<b>423</b>	<b>940</b>	<b>1,964</b>	<b>4,285</b>	<b>5,566</b>
<b>D/C</b>	<b>8,690</b>	<b>7,741</b>	<b>6,832</b>	<b>4,423</b>	<b>2,856</b>	<b>1,296</b>	<b>1,528</b>	<b>3,054</b>	<b>5,281</b>	<b>5,860</b>	<b>6,704</b>	<b>8,803</b>

**Percent (%) Change from Future Without Project for Collinsville Salinity**  
**(Alternative 2 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Severe Fishery Restrictions**

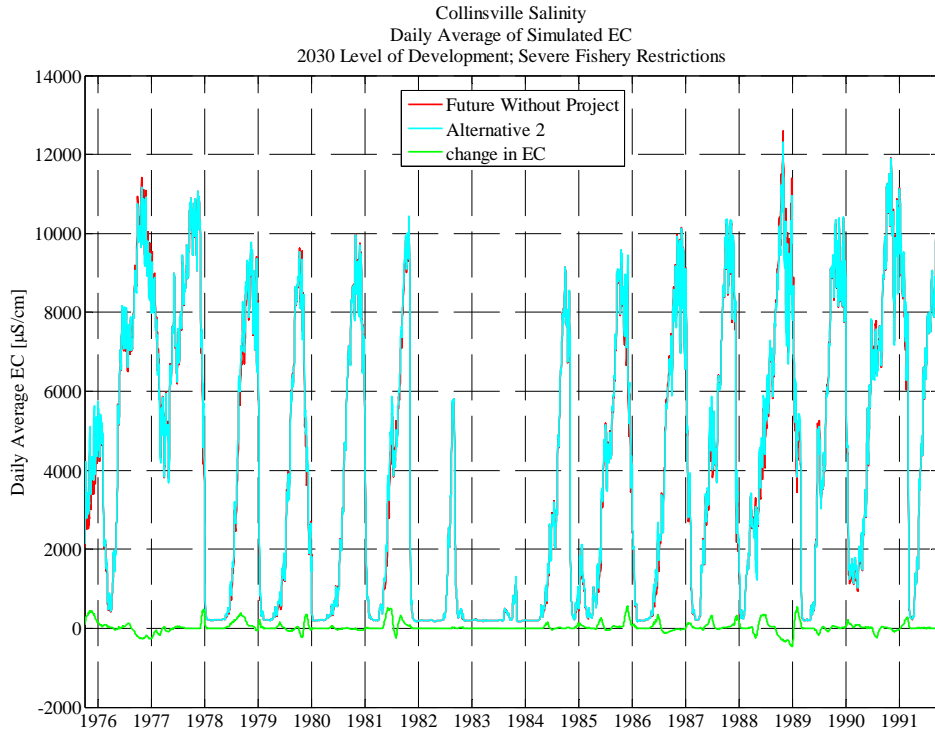
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	9.8%	11.1%	5.4%	1.8%	3.2%	6.1%	-0.2%	-0.3%	0.4%	1.3%	0.3%	-1.6%
1977	-2.4%	-2.2%	-2.7%	-1.8%	-1.8%	-0.6%	-1.4%	-0.5%	0.4%	0.5%	0.1%	0.0%
1978	0.0%	0.0%	5.9%	6.8%	0.0%	0.0%	0.0%	2.0%	12.3%	9.0%	6.1%	4.6%
1979	1.6%	0.6%	-0.3%	6.0%	-0.2%	-0.8%	-1.1%	14.1%	4.1%	-1.5%	-1.1%	0.1%
1980	-1.6%	3.5%	2.2%	-0.7%	-0.2%	-0.1%	-0.5%	7.6%	-1.9%	-1.0%	0.0%	-0.1%
1981	-0.2%	-0.4%	-0.6%	0.5%	0.1%	-0.1%	-0.2%	18.9%	13.5%	-0.1%	1.9%	2.5%
1982	0.9%	2.0%	0.1%	-0.2%	-0.1%	0.0%	0.0%	-0.2%	-1.0%	-0.2%	0.2%	0.3%
1983	3.4%	0.5%	-0.1%	-0.2%	0.0%	0.0%	0.1%	-0.4%	0.0%	0.0%	0.2%	0.1%
1984	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	11.4%	1.6%	-0.7%	0.3%	0.0%
1985	0.2%	-0.1%	10.1%	6.0%	4.7%	1.6%	-0.8%	10.0%	2.6%	-1.2%	0.4%	0.5%
1986	0.5%	4.5%	4.8%	4.8%	0.2%	-0.5%	-0.3%	12.8%	17.6%	1.8%	-2.2%	-1.3%
1987	-0.5%	-0.4%	-0.3%	2.1%	6.5%	1.0%	-0.5%	1.9%	5.2%	1.8%	-0.3%	0.2%
1988	0.3%	0.8%	6.0%	7.1%	-0.3%	0.6%	-6.0%	3.7%	7.2%	2.3%	0.7%	-1.2%
1989	-2.5%	-3.4%	-4.4%	2.9%	6.4%	2.2%	-0.2%	0.3%	-2.9%	-0.6%	-0.4%	-0.2%
1990	0.5%	0.1%	0.2%	4.5%	3.8%	5.6%	1.7%	0.5%	0.2%	-2.2%	-0.9%	0.4%
1991	0.1%	-0.5%	-0.6%	0.5%	2.9%	4.6%	0.2%	0.2%	0.1%	0.1%	0.0%	0.0%
<b>Avg</b>	<b>0.6%</b>	<b>1.0%</b>	<b>1.6%</b>	<b>2.5%</b>	<b>1.6%</b>	<b>1.2%</b>	<b>-0.6%</b>	<b>5.1%</b>	<b>3.7%</b>	<b>0.6%</b>	<b>0.3%</b>	<b>0.3%</b>
<b>W/AN/BN</b>	<b>0.7%</b>	<b>1.6%</b>	<b>1.8%</b>	<b>2.4%</b>	<b>0.0%</b>	<b>-0.2%</b>	<b>-0.3%</b>	<b>6.8%</b>	<b>4.7%</b>	<b>1.1%</b>	<b>0.5%</b>	<b>0.5%</b>
<b>D/C</b>	<b>0.6%</b>	<b>0.6%</b>	<b>1.5%</b>	<b>2.6%</b>	<b>2.8%</b>	<b>2.3%</b>	<b>-0.8%</b>	<b>3.9%</b>	<b>3.0%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.1%</b>



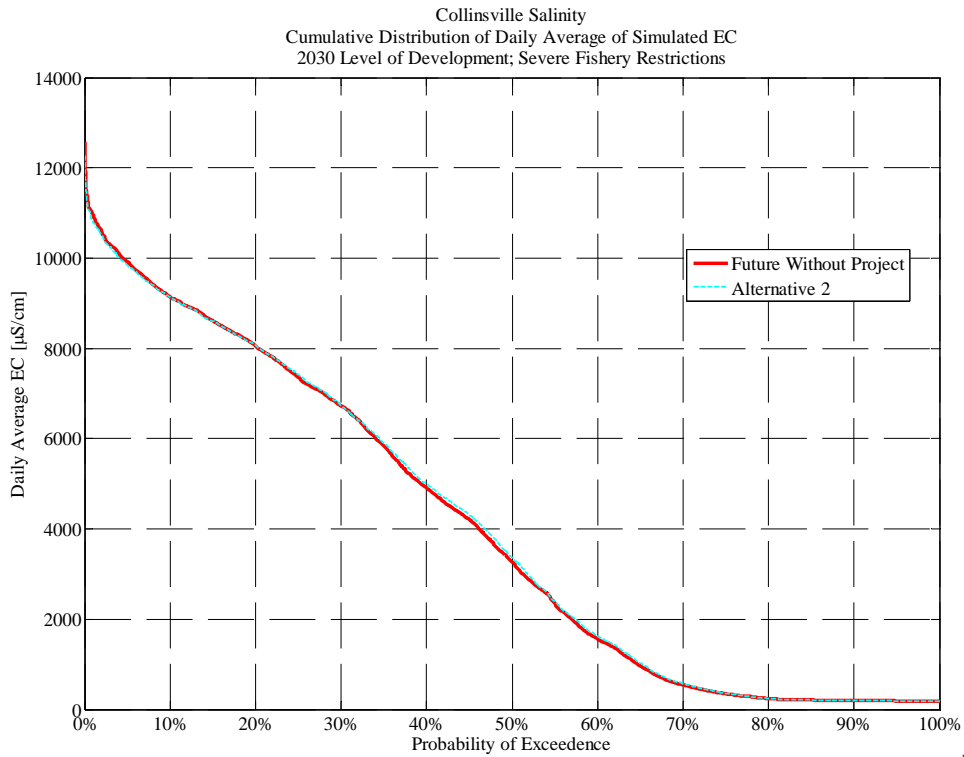
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



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04-Nov-2008 DS



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05-Nov-2008 DS

**Alternative 3**

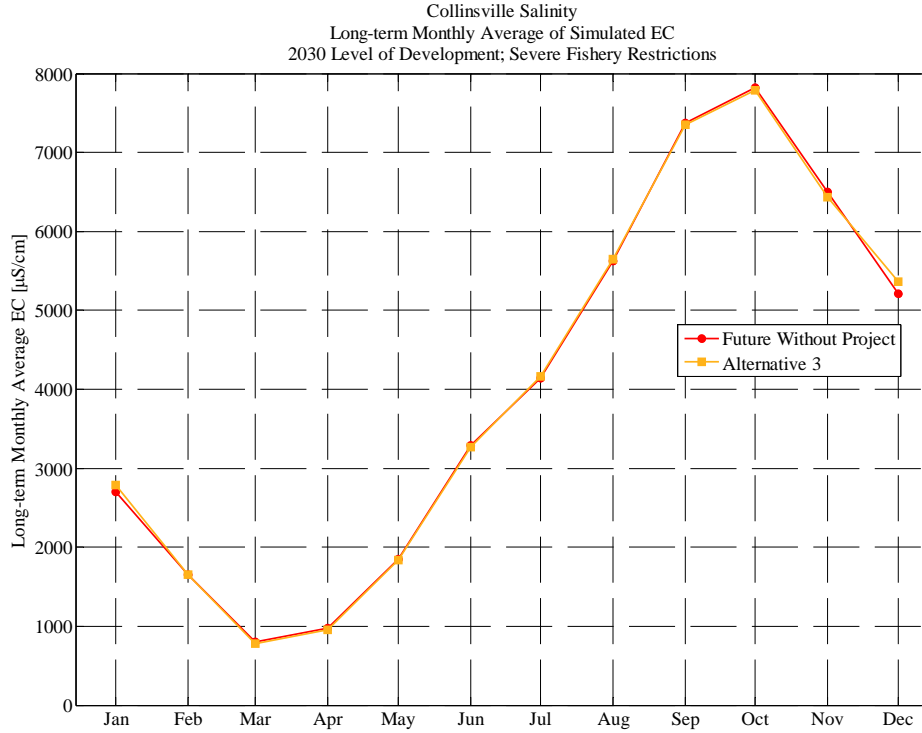
**Collinsville Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 3**

**2030 Level of Development; Severe Fishery Restrictions**

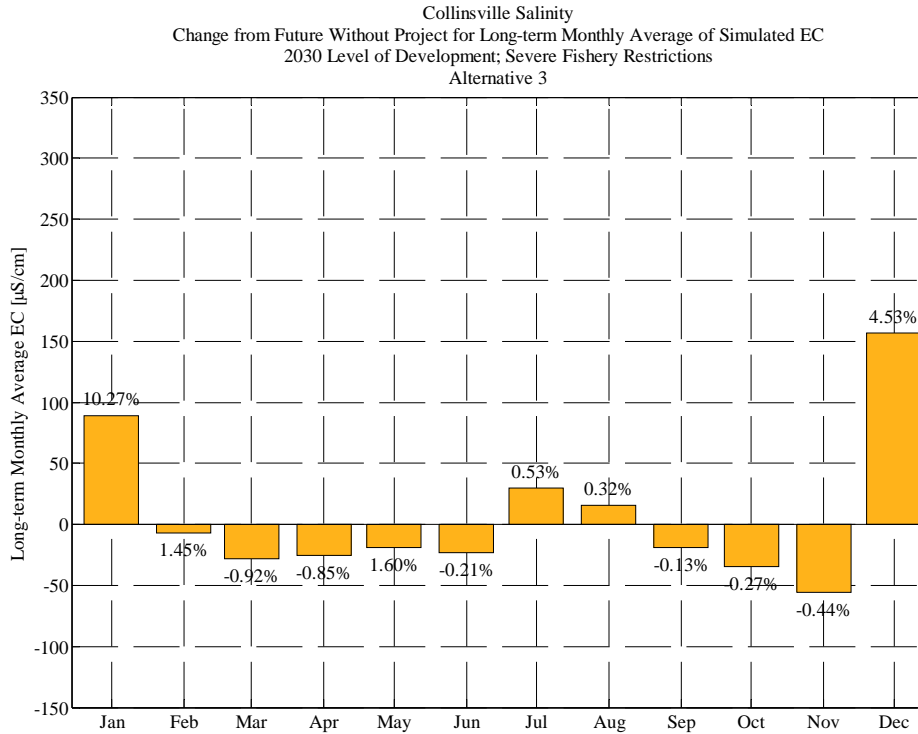
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	2,933	3,673	4,565	4,868	2,412	641	1,414	4,425	7,217	7,263	7,256	8,905
1977	10,158	10,054	9,059	8,270	6,367	4,671	4,671	6,475	7,636	8,091	8,784	9,836
1978	10,318	10,114	5,531	296	206	209	217	265	641	2,088	5,003	7,415
1979	8,625	8,929	7,995	1,535	227	212	321	572	1,234	2,969	5,589	8,226
1980	8,749	5,811	2,662	224	200	209	264	421	749	1,972	4,707	7,202
1981	8,749	8,836	7,115	1,209	245	202	460	1,336	3,621	4,541	5,631	8,152
1982	9,546	1,035	183	200	189	201	184	189	242	1,400	4,547	1,420
1983	376	202	196	220	196	184	197	193	193	207	392	279
1984	772	205	184	200	198	188	329	725	1,921	2,602	4,927	7,964
1985	7,770	882	540	1,380	625	341	725	1,417	3,722	4,402	5,261	7,931
1986	8,633	7,807	4,878	1,275	185	192	238	478	1,238	2,377	4,805	6,559
1987	8,110	8,634	8,579	5,677	1,124	237	1,038	2,596	4,197	4,539	5,916	8,281
1988	9,442	9,180	7,039	1,149	947	2,268	2,284	3,250	4,335	5,917	6,914	8,616
1989	10,666	8,848	8,747	5,767	4,481	397	208	461	3,369	3,885	5,152	8,064
1990	9,094	8,983	8,787	2,947	1,396	1,386	1,938	3,567	6,093	7,013	7,173	8,816
1991	10,690	9,824	9,787	9,420	7,391	914	810	3,006	5,825	7,439	8,278	9,954
<b>Avg</b>	<b>7,789</b>	<b>6,439</b>	<b>5,365</b>	<b>2,790</b>	<b>1,649</b>	<b>778</b>	<b>956</b>	<b>1,836</b>	<b>3,265</b>	<b>4,169</b>	<b>5,646</b>	<b>7,351</b>
<b>W/AN/BN</b>	<b>6,717</b>	<b>4,872</b>	<b>3,090</b>	<b>564</b>	<b>200</b>	<b>199</b>	<b>250</b>	<b>406</b>	<b>888</b>	<b>1,945</b>	<b>4,282</b>	<b>5,581</b>
<b>D/C</b>	<b>8,623</b>	<b>7,657</b>	<b>7,135</b>	<b>4,521</b>	<b>2,776</b>	<b>1,228</b>	<b>1,505</b>	<b>2,948</b>	<b>5,113</b>	<b>5,899</b>	<b>6,707</b>	<b>8,728</b>

**Percent (%) Change from Future Without Project for Collinsville Salinity  
(Alternative 3 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

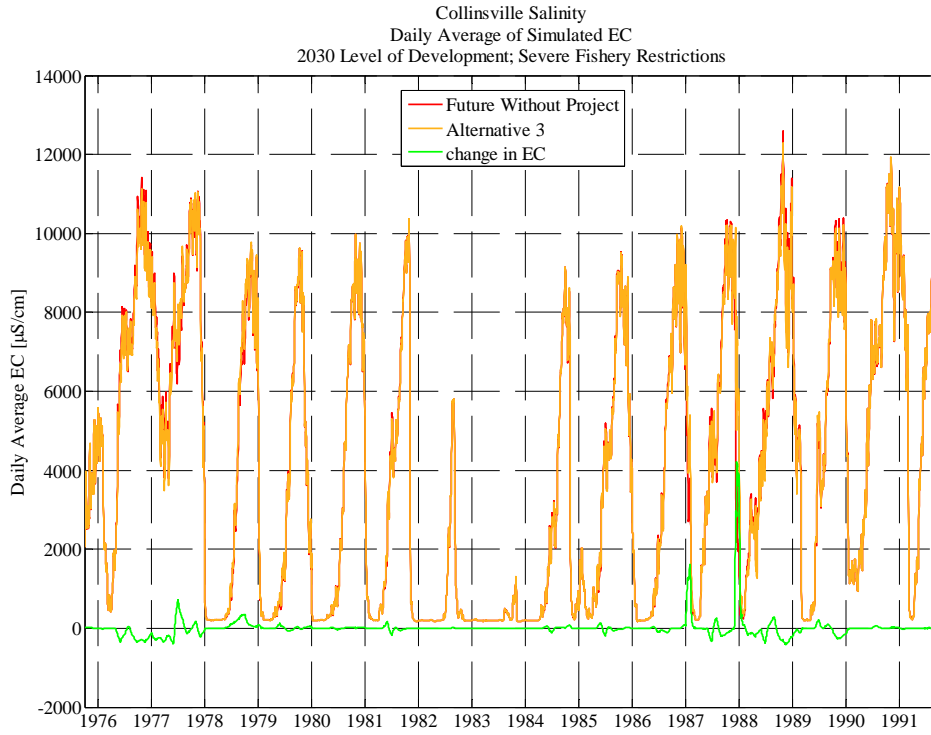
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.6%	0.3%	0.1%	-0.2%	-0.5%	-0.7%	-0.2%	-4.0%	-3.1%	-0.3%	-1.5%	-3.3%
1977	-2.9%	-3.1%	-2.2%	-2.7%	-3.9%	-6.1%	-4.7%	-4.4%	3.9%	5.5%	0.2%	-0.7%
1978	0.8%	-0.5%	-2.2%	-1.0%	-0.1%	-0.1%	-0.3%	1.4%	9.4%	7.1%	4.9%	4.7%
1979	2.1%	0.7%	0.6%	2.5%	-0.3%	-0.6%	0.0%	12.4%	4.4%	-1.3%	-1.0%	0.2%
1980	0.0%	0.2%	1.6%	0.7%	0.0%	0.1%	-0.2%	3.2%	-2.8%	-1.0%	0.2%	0.3%
1981	0.1%	0.1%	0.3%	0.4%	0.1%	0.0%	0.0%	6.5%	-0.9%	-0.8%	-0.5%	-0.5%
1982	-0.1%	0.0%	0.0%	0.3%	0.1%	0.0%	0.0%	-0.1%	-1.0%	0.0%	0.2%	0.2%
1983	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.1%	0.0%	0.2%	0.2%
1984	0.2%	0.0%	0.0%	0.0%	-0.6%	-0.6%	-0.6%	4.2%	-2.2%	-0.9%	0.3%	0.1%
1985	0.7%	2.0%	0.4%	0.1%	0.1%	0.0%	0.0%	5.6%	-1.5%	-0.8%	-0.6%	-0.5%
1986	-0.3%	0.1%	0.2%	0.1%	0.0%	-0.4%	-0.6%	3.8%	-3.1%	-2.5%	-1.8%	-0.6%
1987	0.1%	0.0%	0.7%	24.0%	32.8%	2.0%	-0.6%	-0.5%	-4.8%	1.9%	-0.2%	-2.1%
1988	-1.1%	-0.4%	78.0%	143.6%	-2.5%	-5.4%	-6.8%	-2.5%	-5.5%	-0.6%	3.2%	-0.4%
1989	-2.7%	-4.1%	-3.0%	-1.7%	-1.9%	-2.8%	0.2%	0.3%	3.8%	1.4%	1.0%	0.5%
1990	-1.8%	-2.7%	-2.0%	-1.6%	-0.3%	-0.1%	0.0%	0.0%	0.0%	0.6%	0.4%	0.0%
1991	0.0%	0.2%	0.1%	-0.1%	-0.2%	-0.1%	0.0%	0.0%	0.1%	0.1%	-0.1%	-0.1%
<b>Avg</b>	<b>-0.3%</b>	<b>-0.4%</b>	<b>4.5%</b>	<b>10.3%</b>	<b>1.4%</b>	<b>-0.9%</b>	<b>-0.8%</b>	<b>1.6%</b>	<b>-0.2%</b>	<b>0.5%</b>	<b>0.3%</b>	<b>-0.1%</b>
<b>W/AN/BN</b>	<b>0.4%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>-0.1%</b>	<b>-0.2%</b>	<b>-0.2%</b>	<b>3.5%</b>	<b>0.7%</b>	<b>0.2%</b>	<b>0.4%</b>	<b>0.7%</b>
<b>D/C</b>	<b>-0.8%</b>	<b>-0.8%</b>	<b>8.0%</b>	<b>18.0%</b>	<b>2.6%</b>	<b>-1.5%</b>	<b>-1.3%</b>	<b>0.1%</b>	<b>-0.9%</b>	<b>0.8%</b>	<b>0.2%</b>	<b>-0.8%</b>



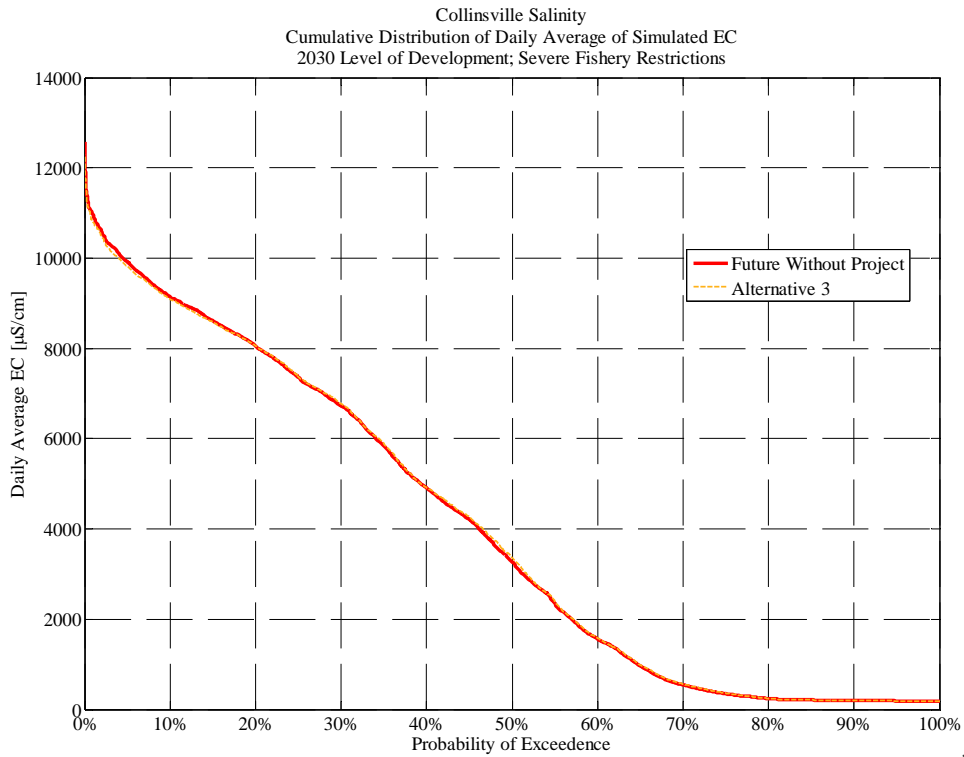
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04-Nov-2008 DS



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04-Nov-2008 DS



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**Alternative 4**

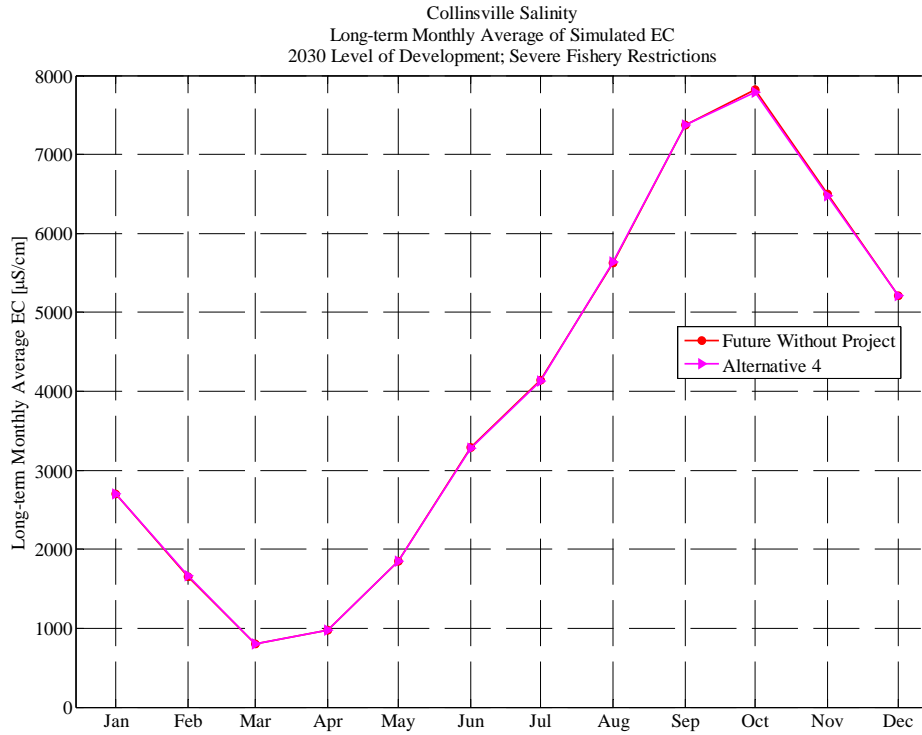
**Collinsville Salinity**  
**Monthly Average of Simulated Values (EC, µS/cm)**  
**Alternative 4**

**2030 Level of Development; Severe Fishery Restrictions**

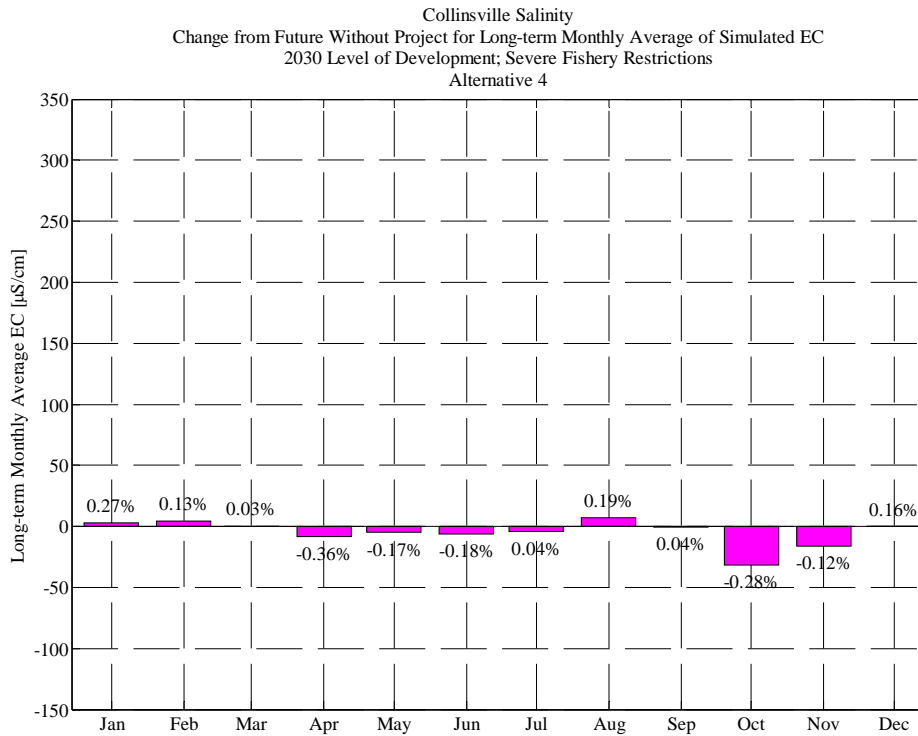
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	2,918	3,661	4,560	4,877	2,422	645	1,417	4,612	7,449	7,283	7,309	9,022
1977	10,199	10,096	9,048	8,437	6,628	4,977	4,900	6,776	7,352	7,670	8,766	9,910
1978	10,231	10,164	5,661	299	206	209	218	261	586	1,950	4,771	7,080
1979	8,449	8,867	7,954	1,494	227	213	321	509	1,183	3,008	5,726	8,292
1980	8,616	5,728	2,613	222	199	208	264	408	771	2,034	4,808	7,259
1981	8,750	8,832	7,212	1,255	246	202	460	1,255	3,655	4,571	5,670	8,212
1982	9,576	1,039	183	200	189	201	184	189	245	1,402	4,543	1,418
1983	376	202	196	220	196	184	197	193	192	207	392	279
1984	771	205	184	200	199	189	331	696	1,970	2,628	4,914	7,954
1985	7,714	864	538	1,379	625	340	725	1,343	3,780	4,441	5,294	7,978
1986	8,656	8,111	5,086	1,293	185	193	239	459	1,277	2,438	4,925	6,675
1987	8,194	8,677	8,527	4,579	852	232	1,044	2,608	4,408	4,453	5,923	8,457
1988	9,549	9,221	3,960	467	970	2,398	2,323	3,258	4,576	5,952	6,693	8,510
1989	10,658	8,958	8,911	5,877	4,591	409	207	460	3,148	3,817	5,082	8,060
1990	9,322	9,249	8,972	2,995	1,400	1,387	1,938	3,567	6,097	6,877	7,099	8,838
1991	10,698	9,770	9,742	9,465	7,443	917	810	3,006	5,821	7,436	8,288	9,967
<b>Avg</b>	<b>7,792</b>	<b>6,478</b>	<b>5,209</b>	<b>2,704</b>	<b>1,661</b>	<b>807</b>	<b>973</b>	<b>1,850</b>	<b>3,282</b>	<b>4,135</b>	<b>5,637</b>	<b>7,369</b>
<b>W/AN/BN</b>	<b>6,668</b>	<b>4,902</b>	<b>3,125</b>	<b>561</b>	<b>200</b>	<b>200</b>	<b>251</b>	<b>388</b>	<b>889</b>	<b>1,952</b>	<b>4,297</b>	<b>5,565</b>
<b>D/C</b>	<b>8,667</b>	<b>7,703</b>	<b>6,830</b>	<b>4,370</b>	<b>2,797</b>	<b>1,279</b>	<b>1,536</b>	<b>2,987</b>	<b>5,143</b>	<b>5,833</b>	<b>6,680</b>	<b>8,773</b>

**Percent (%) Change from Future Without Project for Collinsville Salinity**  
**(Alternative 4 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Severe Fishery Restrictions**

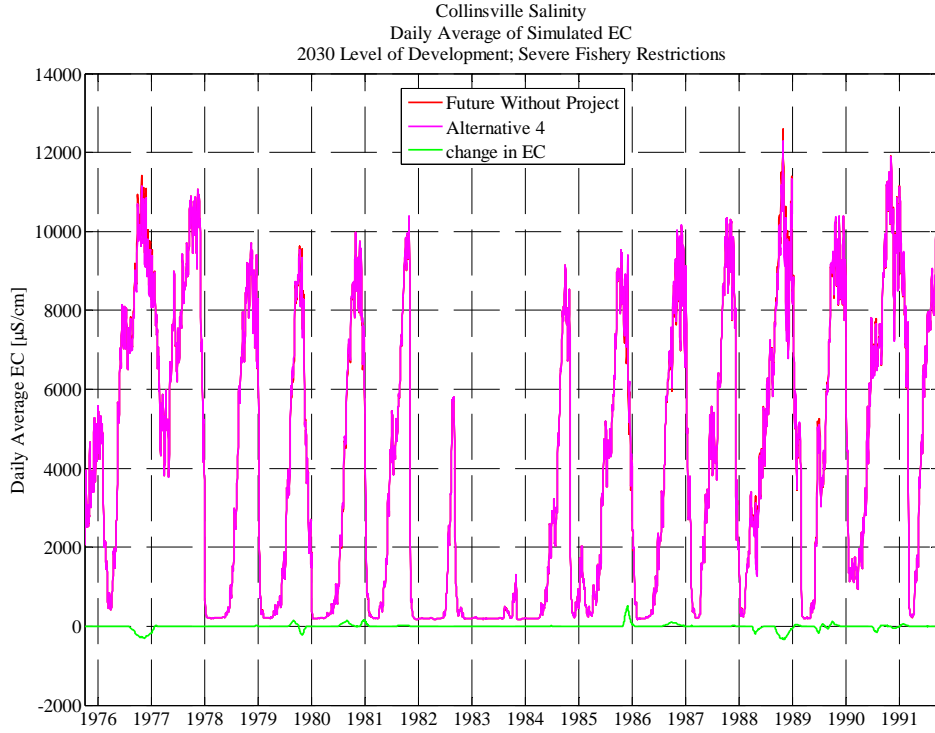
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%	-0.1%	-0.8%	-2.0%
1977	-2.5%	-2.7%	-2.3%	-0.8%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.1%	-0.3%	-0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	1.4%	1.0%
1980	-1.6%	-1.2%	-0.3%	-0.1%	-0.3%	-0.2%	-0.3%	0.0%	0.0%	2.1%	2.3%	1.1%
1981	0.1%	0.1%	1.7%	4.2%	0.7%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.2%	0.3%
1982	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
1984	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.1%	0.0%	0.0%
1985	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
1986	0.0%	4.0%	4.5%	1.5%	0.0%	0.0%	-0.1%	-0.3%	-0.1%	0.0%	0.6%	1.2%
1987	1.1%	0.5%	0.1%	0.0%	0.7%	0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.1%	0.1%	-0.9%	-0.1%	0.0%	-5.2%	-2.3%	-0.2%	0.0%	-0.1%	-1.6%
1989	-2.7%	-3.0%	-1.2%	0.2%	0.5%	0.2%	-0.1%	0.0%	-3.0%	-0.3%	-0.3%	0.5%
1990	0.7%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.4%	-0.6%	0.2%
1991	0.1%	-0.3%	-0.3%	0.4%	0.5%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	<b>-0.3%</b>	<b>-0.1%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>-0.4%</b>	<b>-0.2%</b>	<b>-0.2%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>
<b>W/AN/BN</b>	<b>-0.2%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>-0.1%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.7%</b>	<b>0.5%</b>
<b>D/C</b>	<b>-0.4%</b>	<b>-0.6%</b>	<b>-0.2%</b>	<b>0.4%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>-0.6%</b>	<b>-0.3%</b>	<b>-0.4%</b>	<b>-0.2%</b>	<b>-0.2%</b>	<b>-0.3%</b>



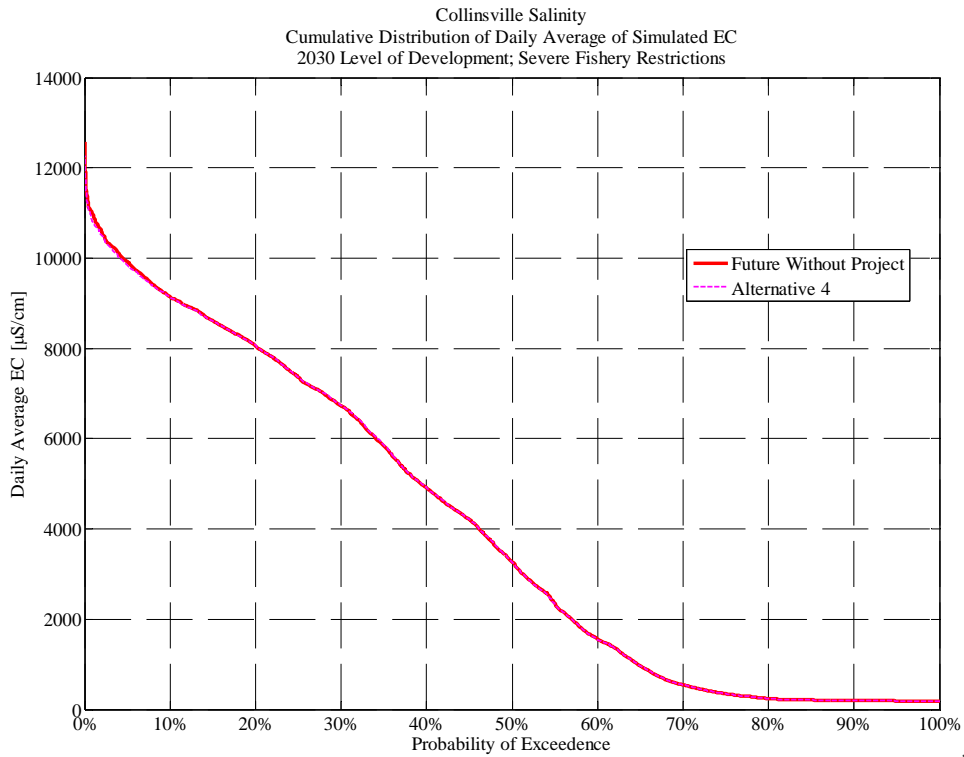
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## Emmaton

### *Future Without Project*

**Emmaton Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Future Without Project**  
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	521	672	930	1,079	473	218	332	1,310	2,770	2,053	2,172	3,412
1977	3,866	3,824	2,981	2,552	1,848	1,246	1,154	2,186	2,524	2,531	3,067	3,976
1978	4,172	4,059	1,346	207	194	194	194	200	221	407	1,192	2,066
1979	2,576	2,705	2,325	402	206	193	206	215	297	608	1,549	2,662
1980	2,934	1,383	528	188	190	189	205	209	245	441	1,193	2,123
1981	2,892	2,682	1,726	352	195	187	214	302	975	1,004	1,446	2,976
1982	3,653	304	179	192	181	192	179	181	188	359	1,139	326
1983	185	184	184	196	186	181	185	181	182	189	192	180
1984	216	178	180	187	187	183	205	238	445	493	1,283	2,647
1985	2,110	262	203	283	213	203	243	303	1,012	940	1,275	2,670
1986	3,042	2,267	1,081	333	182	184	202	210	317	527	1,257	1,793
1987	2,581	2,720	2,506	1,064	245	192	294	531	1,197	937	1,568	3,106
1988	3,317	3,044	829	213	258	516	463	694	1,215	1,465	1,835	3,196
1989	4,428	2,985	2,776	1,366	1,104	197	186	196	901	788	1,221	2,837
1990	2,978	2,955	2,952	592	298	298	372	825	2,037	1,885	2,064	3,180
1991	4,234	3,688	3,547	3,378	2,035	286	254	682	1,913	2,309	2,768	3,991
<b>Avg</b>	2,732	2,120	1,517	786	500	291	306	529	1,027	1,059	1,576	2,571
<b>W/AN/BN</b>	2,397	1,583	832	243	189	188	197	205	271	432	1,115	1,685
<b>D/C</b>	2,992	2,537	2,050	1,209	741	371	390	781	1,616	1,546	1,935	3,260

**Alternative 1**

**Emmaton Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )**  
**Alternative 1**

**2030 Level of Development; Severe Fishery Restrictions**

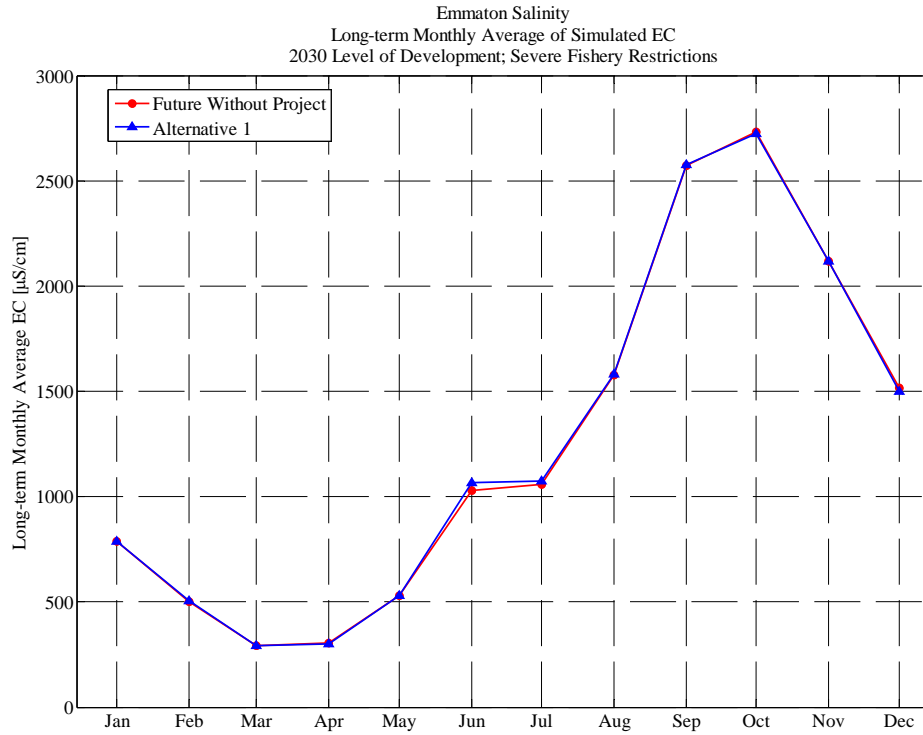
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	581	771	999	1,107	479	219	329	1,307	2,783	2,106	2,200	3,317
1977	3,719	3,686	2,830	2,463	1,818	1,229	1,133	2,092	2,769	2,731	3,052	3,920
1978	4,222	4,029	1,310	207	194	194	194	199	226	439	1,305	2,263
1979	2,634	2,739	2,317	410	205	192	205	218	300	596	1,515	2,672
1980	2,853	1,416	537	187	190	189	205	210	242	438	1,194	2,119
1981	2,883	2,663	1,707	351	195	187	214	332	1,156	1,012	1,508	3,085
1982	3,701	308	179	192	181	192	179	181	188	359	1,142	327
1983	186	183	184	196	186	181	185	181	182	189	192	180
1984	216	178	180	187	187	183	205	244	450	488	1,298	2,642
1985	2,115	263	206	291	214	203	242	318	1,049	923	1,283	2,684
1986	3,074	2,427	1,166	338	182	183	202	214	339	517	1,206	1,754
1987	2,560	2,707	2,513	1,059	244	191	294	545	1,273	973	1,567	3,118
1988	3,344	3,072	869	217	259	520	440	714	1,307	1,528	1,847	3,135
1989	4,224	2,808	2,559	1,380	1,199	198	186	197	865	776	1,207	2,786
1990	3,017	2,968	2,966	598	301	306	376	829	2,043	1,801	2,033	3,208
1991	4,241	3,662	3,511	3,403	2,070	288	253	683	1,916	2,322	2,763	3,990
<b>Avg</b>	2,723	2,118	1,502	787	506	291	303	529	1,068	1,075	1,582	2,575
<b>W/AN/BN</b>	2,412	1,611	839	245	189	188	197	207	275	432	1,122	1,708
<b>D/C</b>	2,965	2,511	2,018	1,208	753	371	385	780	1,685	1,575	1,940	3,249

**Percent (%) Change from Future Without Project for Emmatton Salinity**

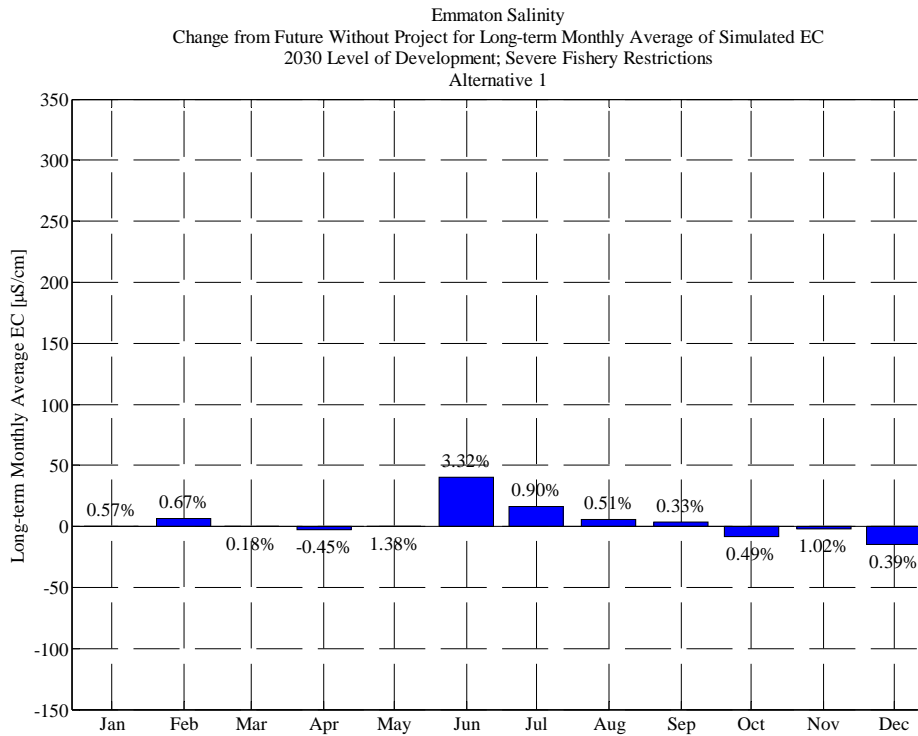
**(Alternative 1 - Future Without Project) / Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

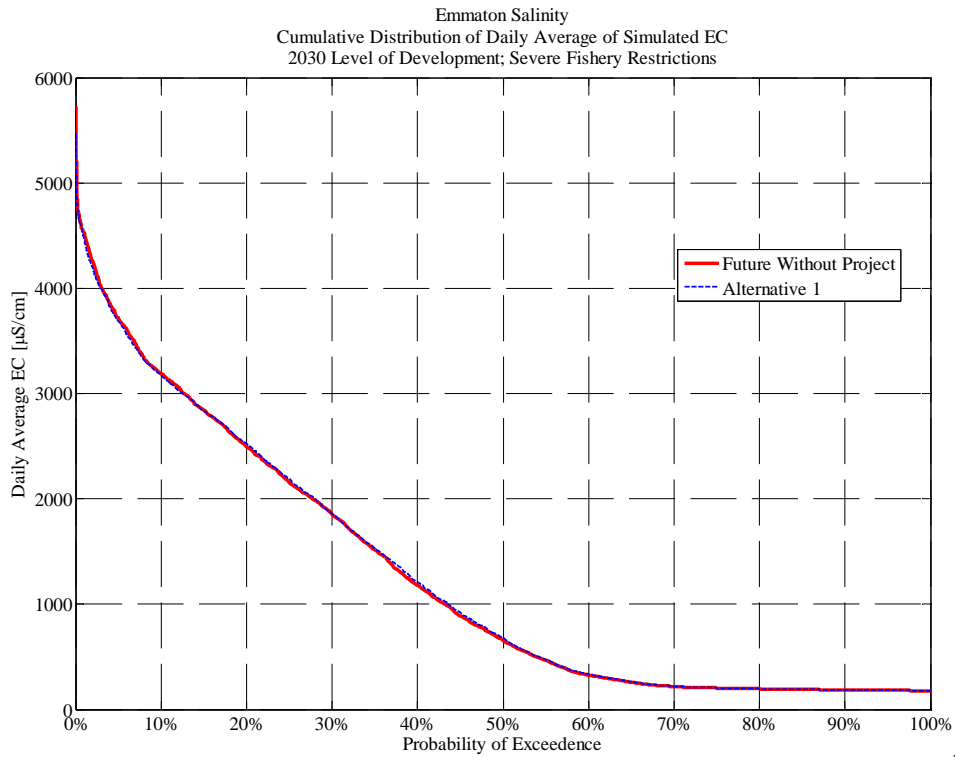
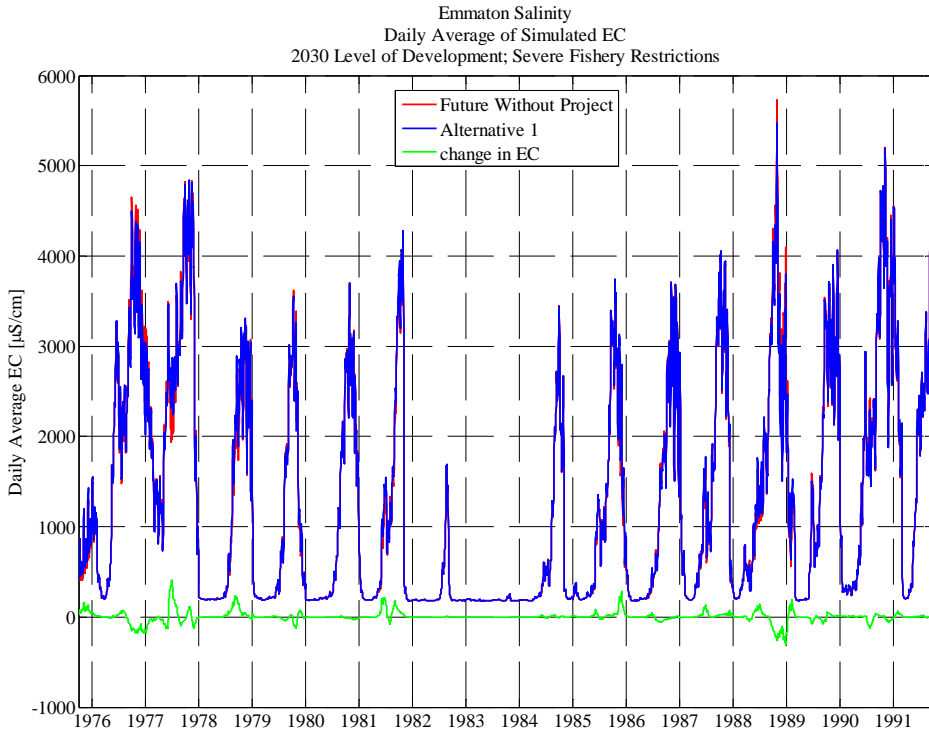
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	11.5%	14.8%	7.5%	2.7%	1.3%	0.5%	-0.7%	-0.2%	0.5%	2.6%	1.3%	-2.8%
1977	-3.8%	-3.6%	-5.1%	-3.5%	-1.6%	-1.4%	-1.9%	-4.3%	9.7%	7.9%	-0.5%	-1.4%
1978	1.2%	-0.7%	-2.7%	-0.1%	0.0%	0.0%	0.0%	-0.7%	2.1%	7.7%	9.4%	9.5%
1979	2.2%	1.2%	-0.3%	2.0%	-0.3%	-0.5%	-0.3%	1.6%	0.9%	-1.9%	-2.2%	0.3%
1980	-2.7%	2.3%	1.7%	-0.2%	0.0%	0.0%	0.1%	0.2%	-1.0%	-0.8%	0.1%	-0.2%
1981	-0.3%	-0.7%	-1.1%	-0.3%	0.0%	0.0%	-0.2%	9.9%	18.6%	0.8%	4.3%	3.7%
1982	1.3%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.1%	0.1%	0.3%	0.3%
1983	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	-0.2%	2.3%	1.2%	-1.0%	1.1%	-0.2%
1985	0.2%	0.3%	1.6%	3.0%	0.4%	-0.1%	-0.3%	4.8%	3.6%	-1.8%	0.6%	0.5%
1986	1.1%	7.1%	7.9%	1.7%	0.0%	-0.2%	0.2%	2.0%	7.2%	-1.9%	-4.1%	-2.2%
1987	-0.8%	-0.4%	0.3%	-0.5%	-0.5%	-0.1%	0.2%	2.6%	6.4%	3.8%	0.0%	0.4%
1988	0.8%	0.9%	4.8%	1.9%	0.1%	0.7%	-5.0%	2.9%	7.6%	4.4%	0.7%	-1.9%
1989	-4.6%	-5.9%	-7.8%	1.0%	8.5%	0.4%	0.2%	0.5%	-4.0%	-1.5%	-1.1%	-1.8%
1990	1.3%	0.4%	0.5%	1.0%	1.0%	2.9%	1.1%	0.6%	0.3%	-4.5%	-1.5%	0.9%
1991	0.2%	-0.7%	-1.0%	0.7%	1.7%	0.6%	-0.3%	0.2%	0.2%	0.5%	-0.2%	0.0%
<b>Avg</b>	0.5%	1.0%	0.4%	0.6%	0.7%	0.2%	-0.4%	1.4%	3.3%	0.9%	0.5%	0.3%
<b>W/AN/BN</b>	0.5%	1.6%	0.9%	0.5%	0.0%	-0.1%	0.0%	0.7%	1.5%	0.3%	0.7%	1.1%
<b>D/C</b>	0.5%	0.6%	0.0%	0.7%	1.2%	0.4%	-0.8%	1.9%	4.7%	1.4%	0.4%	-0.3%



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



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04-Nov-2008 DS



**Alternative 2**

**Emmaton Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Alternative 2**

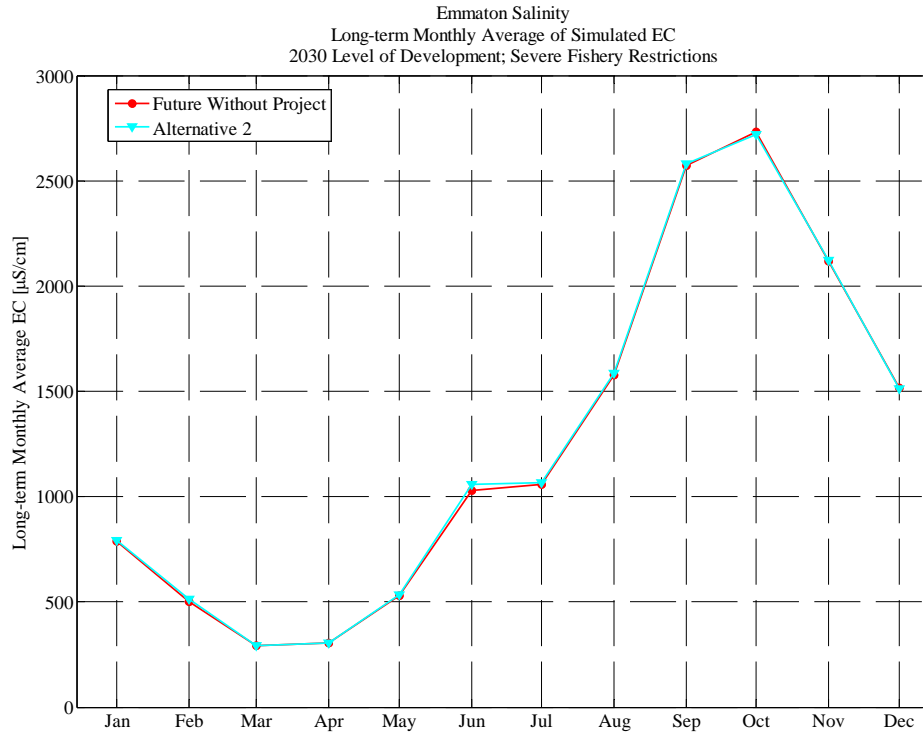
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	584	787	1,013	1,111	487	219	329	1,308	2,784	2,104	2,198	3,318
1977	3,720	3,686	2,833	2,461	1,814	1,229	1,140	2,167	2,542	2,549	3,072	3,974
1978	4,173	4,058	1,453	209	194	194	194	199	226	438	1,304	2,264
1979	2,631	2,738	2,315	415	205	192	205	218	300	597	1,515	2,672
1980	2,830	1,449	554	187	189	189	205	210	243	438	1,194	2,119
1981	2,883	2,663	1,708	352	195	187	214	332	1,156	1,012	1,508	3,084
1982	3,700	312	179	192	181	192	179	181	188	359	1,142	327
1983	186	183	184	196	186	181	185	181	182	189	192	180
1984	216	178	180	187	187	183	205	244	450	488	1,298	2,642
1985	2,114	264	207	297	216	203	242	317	1,049	923	1,282	2,684
1986	3,075	2,428	1,166	343	182	183	202	214	358	531	1,227	1,751
1987	2,557	2,691	2,496	1,085	251	191	293	544	1,273	971	1,561	3,112
1988	3,336	3,089	882	218	258	519	440	733	1,327	1,534	1,860	3,146
1989	4,228	2,807	2,561	1,379	1,211	199	186	196	865	777	1,206	2,792
1990	3,017	2,967	2,966	617	308	307	376	829	2,043	1,807	2,035	3,207
1991	4,240	3,665	3,513	3,400	2,123	294	253	683	1,917	2,319	2,768	3,994
<b>Avg</b>	<b>2,718</b>	<b>2,123</b>	<b>1,513</b>	<b>791</b>	<b>512</b>	<b>291</b>	<b>303</b>	<b>535</b>	<b>1,056</b>	<b>1,065</b>	<b>1,585</b>	<b>2,579</b>
<b>W/AN/BN</b>	<b>2,402</b>	<b>1,621</b>	<b>862</b>	<b>247</b>	<b>189</b>	<b>188</b>	<b>197</b>	<b>207</b>	<b>278</b>	<b>434</b>	<b>1,125</b>	<b>1,708</b>
<b>D/C</b>	<b>2,964</b>	<b>2,513</b>	<b>2,020</b>	<b>1,213</b>	<b>763</b>	<b>372</b>	<b>386</b>	<b>790</b>	<b>1,662</b>	<b>1,555</b>	<b>1,943</b>	<b>3,257</b>

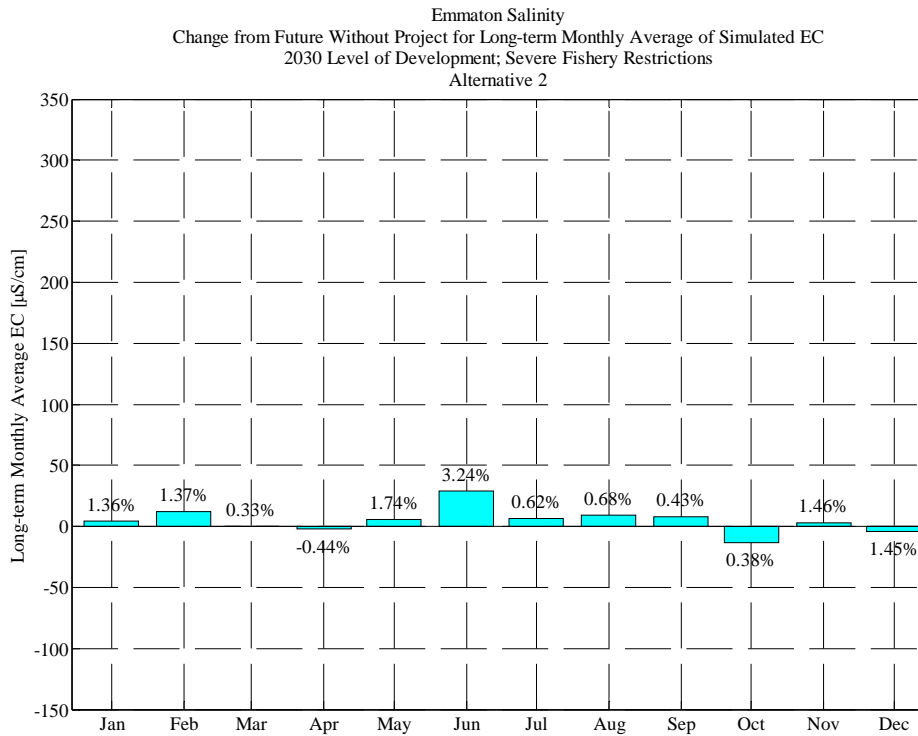
**Percent (%) Change from Future Without Project for Emmatton Salinity**  
**(Alternative 2 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	12.1%	17.2%	9.0%	3.0%	2.8%	0.8%	-0.7%	-0.2%	0.5%	2.5%	1.2%	-2.7%
1977	-3.8%	-3.6%	-5.0%	-3.6%	-1.8%	-1.4%	-1.2%	-0.9%	0.7%	0.7%	0.2%	0.0%
1978	0.0%	0.0%	7.9%	1.2%	0.0%	0.0%	0.0%	-0.5%	2.1%	7.5%	9.3%	9.6%
1979	2.1%	1.2%	-0.4%	3.1%	-0.3%	-0.5%	-0.3%	1.5%	1.1%	-1.8%	-2.2%	0.4%
1980	-3.6%	4.7%	5.0%	-0.2%	0.0%	0.0%	0.1%	0.2%	-1.0%	-0.8%	0.1%	-0.2%
1981	-0.3%	-0.7%	-1.1%	0.0%	0.0%	-0.1%	-0.2%	9.9%	18.6%	0.7%	4.2%	3.6%
1982	1.3%	2.7%	0.1%	-0.1%	0.0%	0.0%	0.0%	-0.1%	0.1%	0.1%	0.3%	0.3%
1983	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	-0.2%	2.3%	1.2%	-1.0%	1.1%	-0.2%
1985	0.2%	0.6%	2.0%	5.0%	1.6%	-0.2%	-0.3%	4.8%	3.6%	-1.8%	0.6%	0.5%
1986	1.1%	7.1%	7.9%	3.1%	0.0%	-0.2%	0.2%	2.0%	13.0%	0.7%	-2.4%	-2.4%
1987	-0.9%	-1.1%	-0.4%	1.9%	2.4%	-0.1%	-0.1%	2.4%	6.3%	3.6%	-0.4%	0.2%
1988	0.6%	1.5%	6.4%	2.5%	0.0%	0.6%	-5.0%	5.7%	9.2%	4.7%	1.4%	-1.6%
1989	-4.5%	-6.0%	-7.8%	0.9%	9.7%	0.6%	-0.1%	-0.1%	-4.1%	-1.5%	-1.2%	-1.6%
1990	1.3%	0.4%	0.5%	4.2%	3.3%	3.1%	1.1%	0.6%	0.3%	-4.1%	-1.4%	0.8%
1991	0.1%	-0.6%	-1.0%	0.7%	4.3%	2.7%	-0.2%	0.2%	0.2%	0.4%	0.0%	0.1%
<b>Avg</b>	<b>0.4%</b>	<b>1.5%</b>	<b>1.4%</b>	<b>1.4%</b>	<b>1.4%</b>	<b>0.3%</b>	<b>-0.4%</b>	<b>1.7%</b>	<b>3.2%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.4%</b>
<b>W/AN/BN</b>	<b>0.2%</b>	<b>2.2%</b>	<b>2.9%</b>	<b>1.0%</b>	<b>0.0%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.8%</b>	<b>2.4%</b>	<b>0.7%</b>	<b>0.9%</b>	<b>1.1%</b>
<b>D/C</b>	<b>0.5%</b>	<b>0.9%</b>	<b>0.3%</b>	<b>1.6%</b>	<b>2.5%</b>	<b>0.7%</b>	<b>-0.7%</b>	<b>2.5%</b>	<b>3.9%</b>	<b>0.6%</b>	<b>0.5%</b>	<b>-0.1%</b>

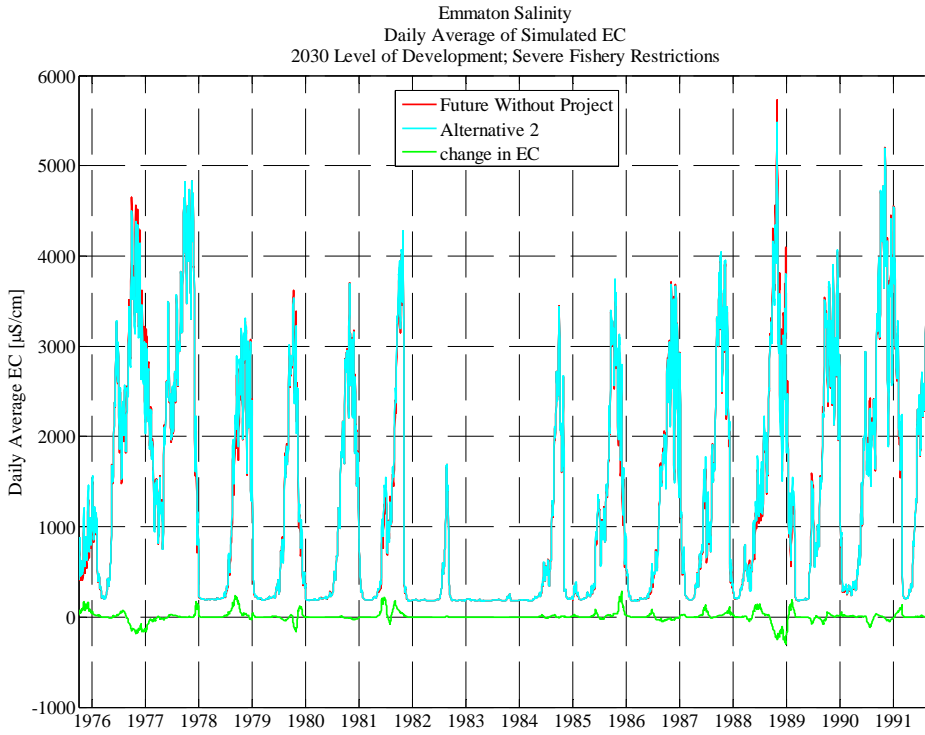




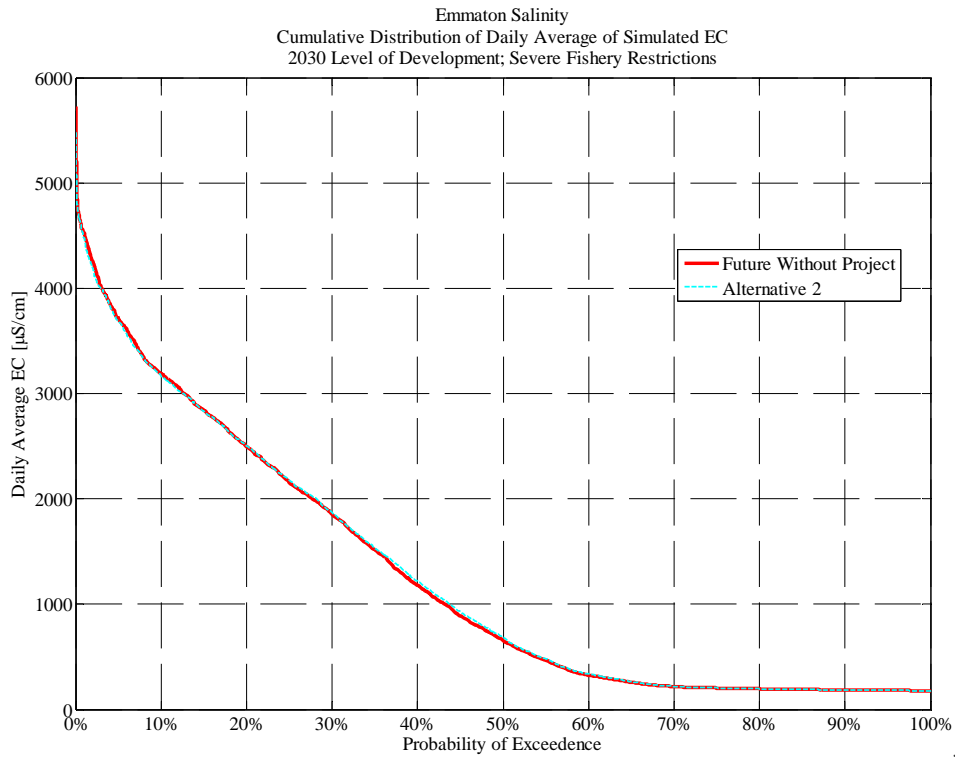
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04-Nov-2008 DS



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04-Nov-2008 DS



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04-Nov-2008 DS



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05-Nov-2008 DS

**Alternative 3**

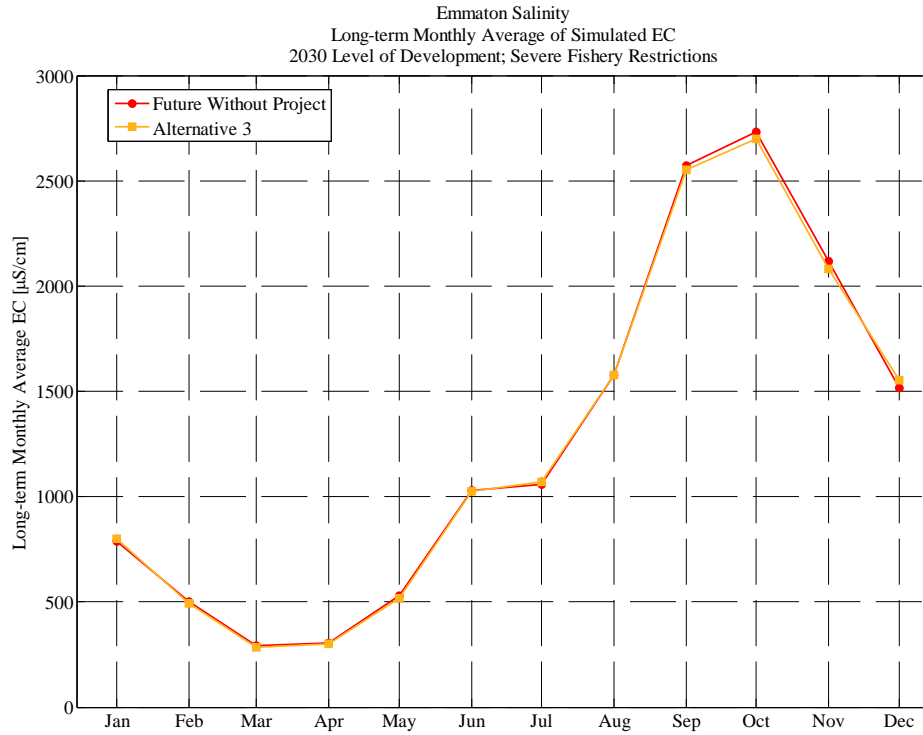
**Emmaton Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**

**Alternative 3****2030 Level of Development; Severe Fishery Restrictions**

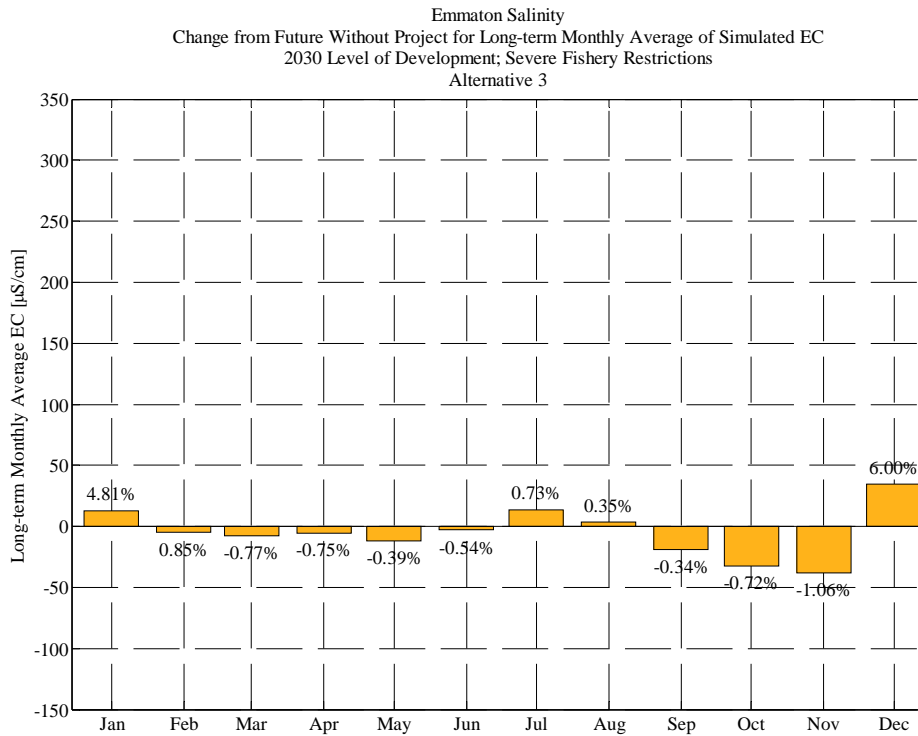
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	525	675	931	1,076	471	217	332	1,244	2,634	2,044	2,126	3,214
1977	3,691	3,627	2,863	2,426	1,756	1,146	1,099	2,057	2,749	2,724	3,043	3,921
1978	4,222	4,029	1,303	207	194	194	194	199	224	432	1,283	2,263
1979	2,659	2,743	2,345	410	205	192	205	217	301	598	1,518	2,679
1980	2,914	1,388	536	188	190	189	204	209	242	438	1,197	2,134
1981	2,900	2,686	1,734	353	195	187	214	311	962	989	1,431	2,955
1982	3,647	304	179	193	181	192	179	181	188	359	1,142	326
1983	185	184	184	196	186	181	185	181	182	189	192	180
1984	216	178	180	187	186	182	204	240	435	487	1,288	2,653
1985	2,132	266	203	283	213	203	243	310	989	925	1,261	2,648
1986	3,026	2,270	1,084	333	182	183	201	211	309	520	1,211	1,774
1987	2,583	2,719	2,560	1,329	295	193	293	529	1,131	961	1,553	2,941
1988	3,212	2,963	1,714	343	266	498	438	676	1,147	1,454	1,949	3,119
1989	4,160	2,764	2,620	1,318	1,071	196	186	197	944	812	1,248	2,877
1990	2,886	2,802	2,835	577	296	297	372	824	2,036	1,907	2,077	3,170
1991	4,233	3,702	3,557	3,373	2,030	286	254	682	1,915	2,313	2,759	3,984
<b>Avg</b>	<b>2,699</b>	<b>2,081</b>	<b>1,552</b>	<b>799</b>	<b>495</b>	<b>284</b>	<b>300</b>	<b>517</b>	<b>1,024</b>	<b>1,072</b>	<b>1,580</b>	<b>2,552</b>
<b>W/AN/BN</b>	<b>2,410</b>	<b>1,585</b>	<b>830</b>	<b>245</b>	<b>189</b>	<b>188</b>	<b>196</b>	<b>206</b>	<b>269</b>	<b>432</b>	<b>1,119</b>	<b>1,716</b>
<b>D/C</b>	<b>2,925</b>	<b>2,467</b>	<b>2,113</b>	<b>1,231</b>	<b>733</b>	<b>358</b>	<b>381</b>	<b>759</b>	<b>1,612</b>	<b>1,570</b>	<b>1,939</b>	<b>3,203</b>

**Percent (%) Change from Future Without Project for Emmatton Salinity****(Alternative 3 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

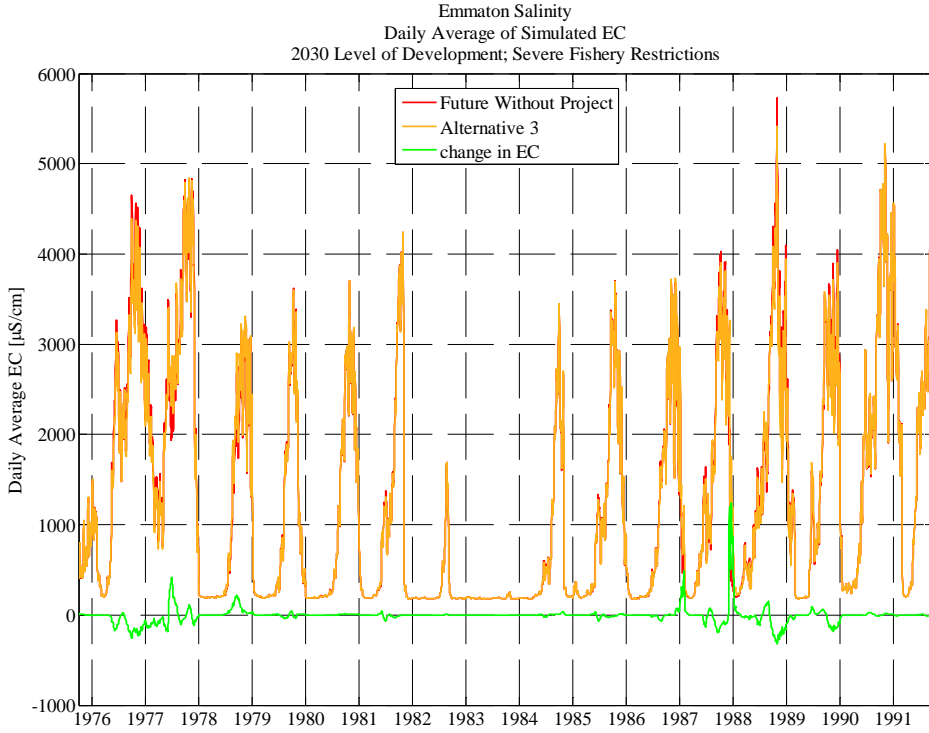
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.7%	0.5%	0.2%	-0.3%	-0.5%	-0.1%	0.0%	-5.1%	-4.9%	-0.5%	-2.1%	-5.8%
1977	-4.5%	-5.1%	-4.0%	-4.9%	-5.0%	-8.1%	-4.8%	-5.9%	8.9%	7.6%	-0.8%	-1.4%
1978	1.2%	-0.7%	-3.2%	-0.2%	0.0%	-0.1%	-0.1%	-0.5%	1.5%	6.1%	7.6%	9.5%
1979	3.2%	1.4%	0.9%	2.0%	-0.2%	-0.4%	-0.3%	1.2%	1.3%	-1.6%	-2.0%	0.6%
1980	-0.7%	0.3%	1.6%	0.1%	0.0%	0.1%	-0.2%	0.0%	-1.1%	-0.8%	0.3%	0.5%
1981	0.3%	0.2%	0.5%	0.3%	0.0%	0.0%	0.0%	3.1%	-1.3%	-1.5%	-1.0%	-0.7%
1982	-0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.3%	0.2%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.1%	0.0%	0.0%	0.0%	-0.2%	-0.3%	-0.7%	0.8%	-2.3%	-1.2%	0.3%	0.3%
1985	1.1%	1.3%	0.2%	0.1%	0.0%	0.0%	0.0%	2.4%	-2.3%	-1.6%	-1.1%	-0.8%
1986	-0.5%	0.2%	0.3%	0.2%	0.0%	-0.2%	-0.3%	0.5%	-2.4%	-1.3%	-3.7%	-1.1%
1987	0.1%	0.0%	2.2%	24.9%	20.3%	0.9%	-0.3%	-0.5%	-5.5%	2.5%	-1.0%	-5.3%
1988	-3.2%	-2.7%	106.8%	61.1%	2.9%	-3.6%	-5.5%	-2.6%	-5.5%	-0.7%	6.2%	-2.4%
1989	-6.0%	-7.4%	-5.6%	-3.5%	-3.0%	-0.5%	0.3%	0.4%	4.8%	3.0%	2.3%	1.4%
1990	-3.1%	-5.2%	-4.0%	-2.6%	-0.5%	-0.1%	0.0%	0.0%	0.0%	1.1%	0.6%	-0.3%
1991	0.0%	0.4%	0.3%	-0.1%	-0.2%	-0.1%	0.0%	0.0%	0.1%	0.2%	-0.3%	-0.2%
<b>Avg</b>	<b>-0.7%</b>	<b>-1.1%</b>	<b>6.0%</b>	<b>4.8%</b>	<b>0.9%</b>	<b>-0.8%</b>	<b>-0.7%</b>	<b>-0.4%</b>	<b>-0.5%</b>	<b>0.7%</b>	<b>0.4%</b>	<b>-0.3%</b>
<b>W/AN/BN</b>	<b>0.4%</b>	<b>0.2%</b>	<b>-0.1%</b>	<b>0.3%</b>	<b>-0.1%</b>	<b>-0.1%</b>	<b>-0.2%</b>	<b>0.3%</b>	<b>-0.4%</b>	<b>0.2%</b>	<b>0.4%</b>	<b>1.4%</b>
<b>D/C</b>	<b>-1.6%</b>	<b>-2.0%</b>	<b>10.7%</b>	<b>8.3%</b>	<b>1.6%</b>	<b>-1.3%</b>	<b>-1.2%</b>	<b>-0.9%</b>	<b>-0.6%</b>	<b>1.1%</b>	<b>0.3%</b>	<b>-1.7%</b>



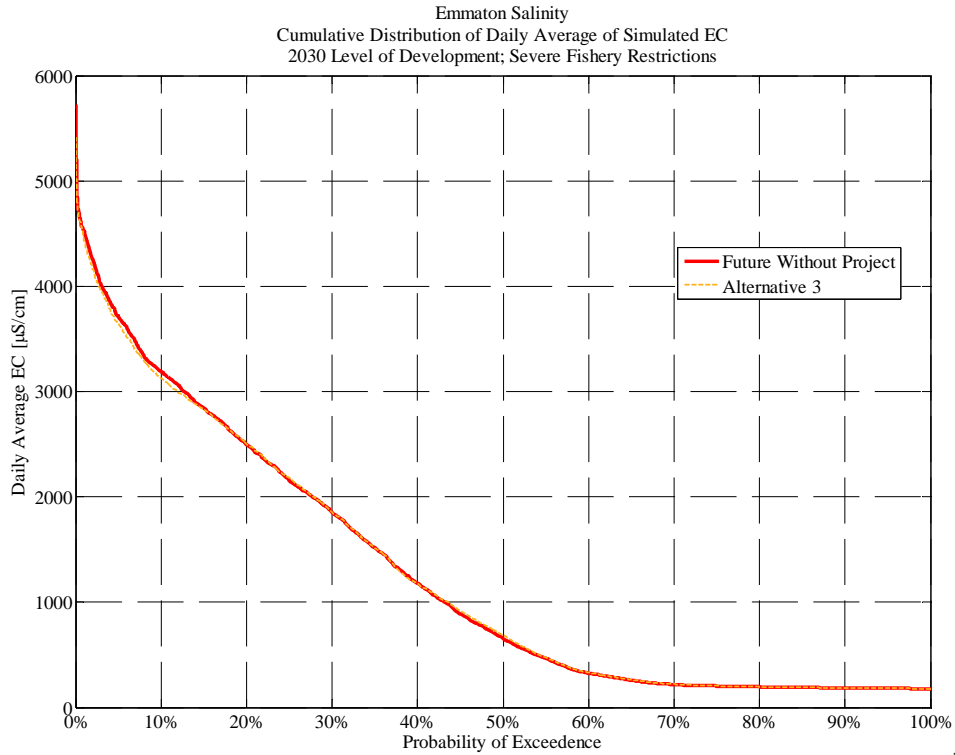
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04-Nov-2008 DS



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**Alternative 4**

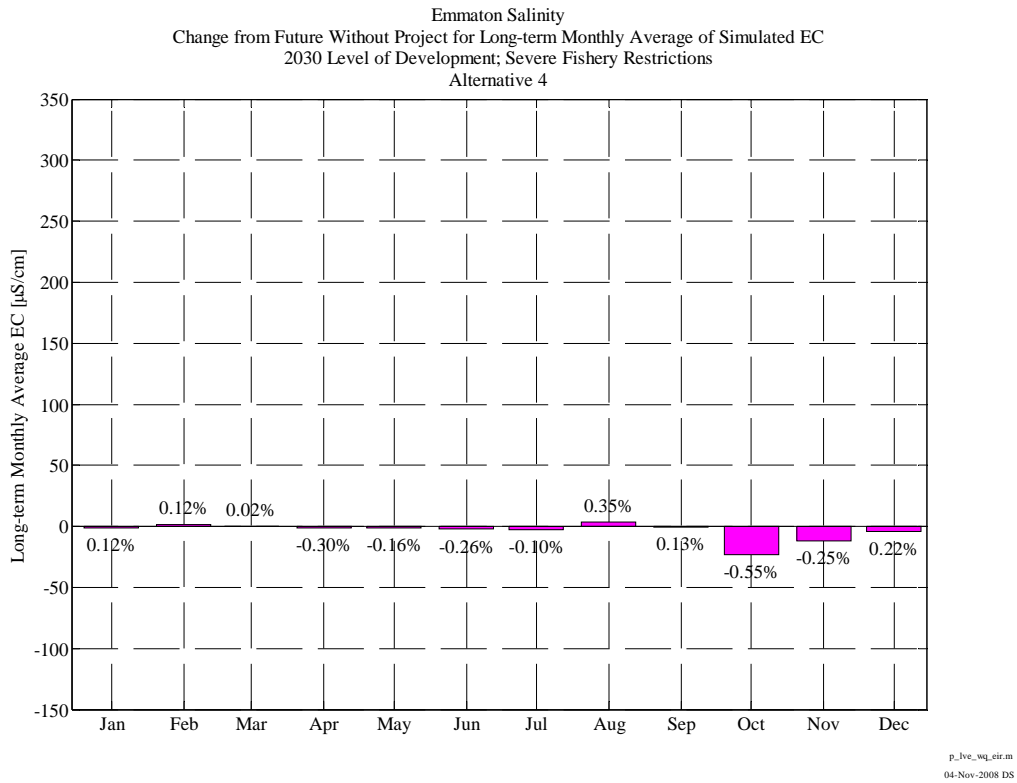
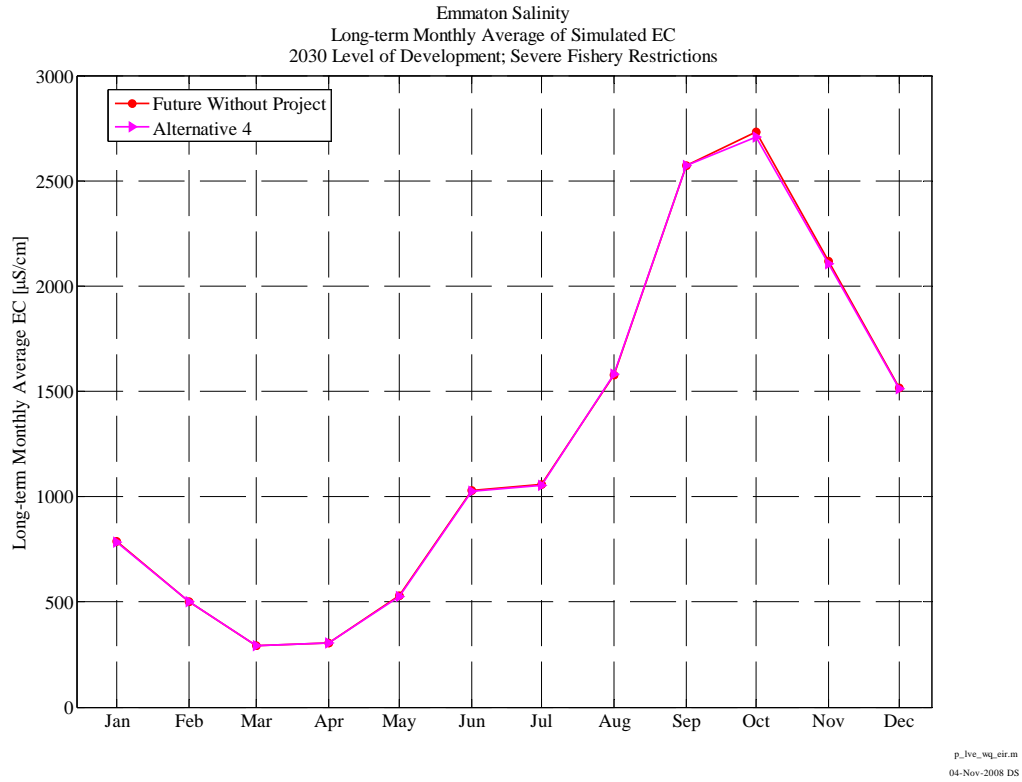
**Emmaton Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Alternative 4**

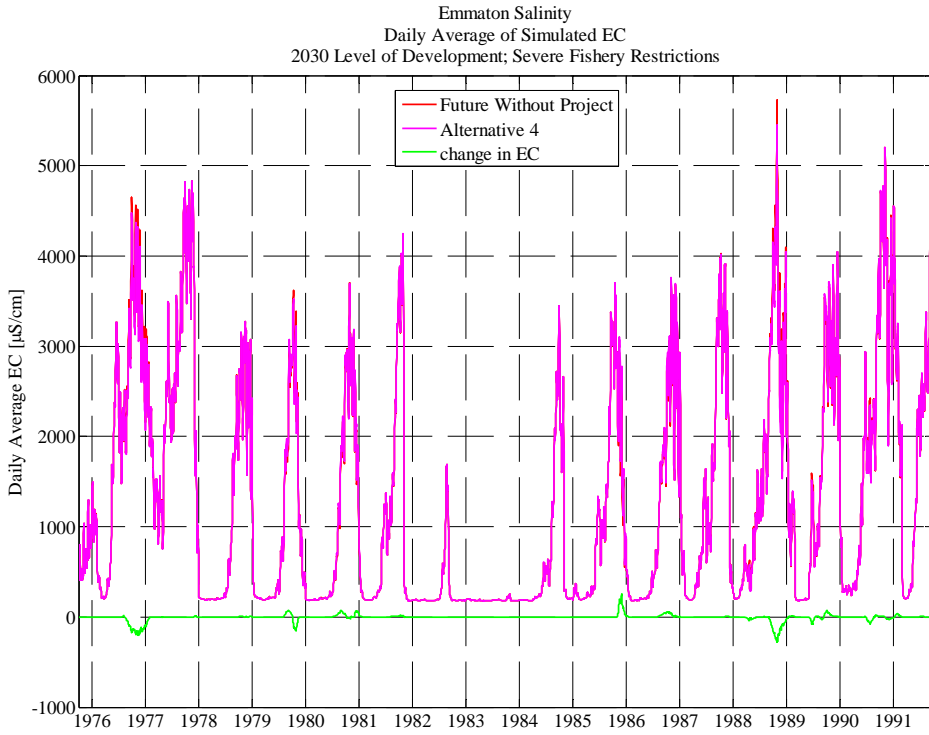
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	521	672	930	1,078	473	218	332	1,310	2,769	2,051	2,157	3,302
1977	3,710	3,653	2,849	2,507	1,846	1,246	1,154	2,186	2,526	2,532	3,068	3,976
1978	4,172	4,059	1,349	207	194	194	195	200	221	408	1,194	2,066
1979	2,580	2,708	2,328	401	206	193	206	215	297	608	1,586	2,715
1980	2,829	1,359	527	188	189	189	204	209	245	449	1,238	2,165
1981	2,887	2,683	1,778	359	195	187	214	302	975	1,002	1,453	2,986
1982	3,665	305	179	192	181	192	179	181	188	359	1,140	326
1983	185	184	184	196	186	181	185	181	182	189	192	180
1984	216	178	180	187	187	183	205	238	446	494	1,284	2,648
1985	2,108	262	203	283	213	203	243	303	1,012	940	1,277	2,671
1986	3,042	2,408	1,160	338	182	184	202	210	317	527	1,270	1,830
1987	2,632	2,740	2,511	1,066	246	192	293	531	1,197	937	1,566	3,103
1988	3,315	3,048	830	213	259	517	442	677	1,212	1,465	1,834	3,129
1989	4,205	2,827	2,712	1,363	1,113	197	186	196	863	780	1,212	2,851
1990	3,023	2,966	2,956	593	298	298	372	824	2,038	1,836	2,045	3,193
1991	4,239	3,672	3,527	3,394	2,053	287	254	682	1,913	2,313	2,767	3,991
<b>Avg</b>	<b>2,708</b>	<b>2,108</b>	<b>1,513</b>	<b>785</b>	<b>501</b>	<b>291</b>	<b>304</b>	<b>528</b>	<b>1,025</b>	<b>1,056</b>	<b>1,580</b>	<b>2,571</b>
<b>W/AN/BN</b>	<b>2,384</b>	<b>1,600</b>	<b>844</b>	<b>244</b>	<b>189</b>	<b>188</b>	<b>197</b>	<b>205</b>	<b>271</b>	<b>433</b>	<b>1,129</b>	<b>1,704</b>
<b>D/C</b>	<b>2,960</b>	<b>2,503</b>	<b>2,033</b>	<b>1,206</b>	<b>744</b>	<b>372</b>	<b>388</b>	<b>779</b>	<b>1,612</b>	<b>1,539</b>	<b>1,931</b>	<b>3,245</b>

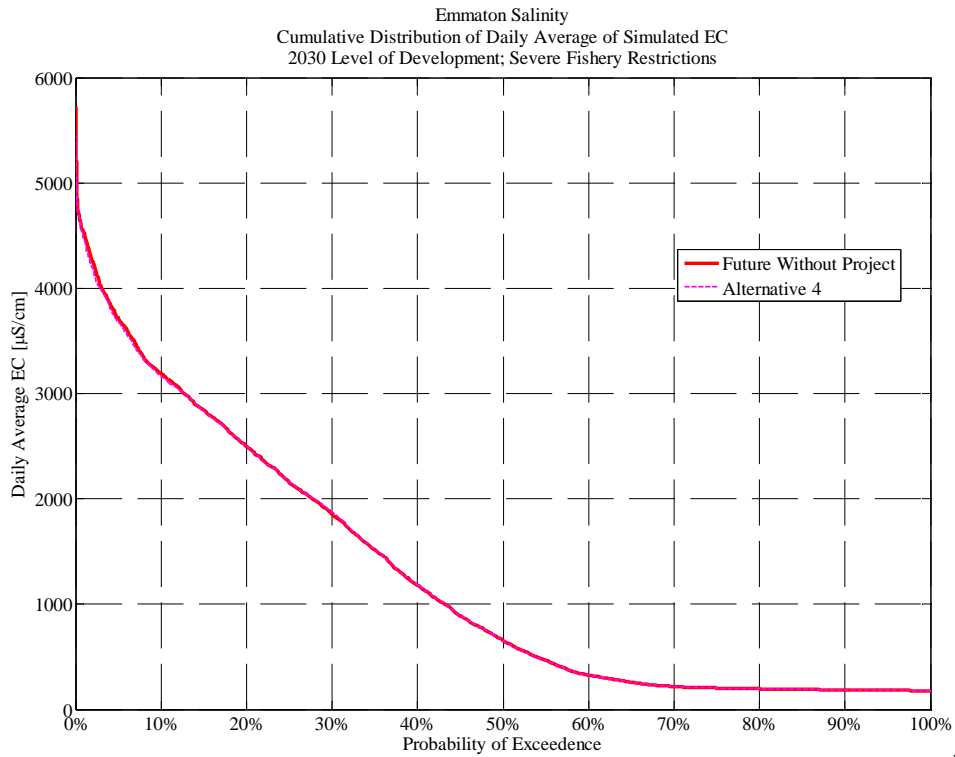
**Percent (%) Change from Future Without Project for Emmatton Salinity**  
**(Alternative 4 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.7%	-3.2%
1977	-4.0%	-4.5%	-4.4%	-1.8%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.1%	0.1%	0.0%
1979	0.2%	0.1%	0.1%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.4%	2.0%
1980	-3.6%	-1.8%	-0.3%	-0.1%	-0.1%	0.0%	-0.3%	0.0%	0.0%	1.7%	3.8%	2.0%
1981	-0.2%	0.0%	3.0%	2.0%	0.1%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.5%	0.4%
1982	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.1%	0.1%	0.0%
1985	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%
1986	0.0%	6.2%	7.3%	1.5%	0.0%	0.0%	0.1%	0.1%	0.0%	0.1%	1.0%	2.1%
1987	2.0%	0.8%	0.2%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%
1988	-0.1%	0.1%	0.2%	-0.1%	0.1%	0.1%	-4.5%	-2.4%	-0.2%	0.1%	0.0%	-2.1%
1989	-5.0%	-5.3%	-2.3%	-0.2%	0.7%	0.0%	-0.1%	0.0%	-4.2%	-1.1%	-0.7%	0.5%
1990	1.5%	0.4%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	-2.6%	-0.9%	0.4%
1991	0.1%	-0.4%	-0.6%	0.5%	0.9%	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
<b>Avg</b>	<b>-0.5%</b>	<b>-0.3%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>-0.3%</b>	<b>-0.2%</b>	<b>-0.3%</b>	<b>-0.1%</b>	<b>0.4%</b>	<b>0.1%</b>
<b>W/AN/BN</b>	<b>-0.4%</b>	<b>0.7%</b>	<b>1.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>1.1%</b>	<b>0.9%</b>
<b>D/C</b>	<b>-0.6%</b>	<b>-1.0%</b>	<b>-0.4%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>-0.5%</b>	<b>-0.3%</b>	<b>-0.5%</b>	<b>-0.4%</b>	<b>-0.2%</b>	<b>-0.4%</b>





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## Jersey Point

### *Future Without Project*

<b>Jersey Point Salinity</b>												
<b>Monthly Average of Simulated Values (EC, <math>\mu\text{S/cm}</math>)</b>												
<b>Future Without Project</b>												
<b>2030 Level of Development; Severe Fishery Restrictions</b>												
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	565	842	1,543	1,469	643	263	271	751	1,596	2,426	2,311	2,836
1977	3,199	2,852	2,644	2,474	1,515	828	784	1,209	1,582	1,811	2,386	2,899
1978	2,998	2,996	1,698	347	261	288	281	249	227	319	1,160	2,336
1979	2,565	2,828	2,239	547	280	241	240	243	238	625	1,404	2,781
1980	2,919	2,038	1,022	278	284	271	258	242	236	292	989	2,289
1981	2,342	2,417	2,844	982	249	223	250	296	542	1,650	1,927	2,291
1982	2,777	1,016	205	237	225	242	216	196	203	259	991	404
1983	187	200	241	307	296	259	238	223	218	212	197	187
1984	202	192	234	246	225	207	236	259	294	508	1,101	2,530
1985	2,360	810	250	329	259	241	275	302	569	1,600	1,922	2,606
1986	2,424	2,311	1,848	547	264	271	248	220	239	330	970	2,008
1987	2,056	2,240	2,899	1,247	346	240	266	398	692	1,593	2,025	2,447
1988	2,539	2,342	1,040	294	246	327	364	467	702	2,144	2,308	2,398
1989	3,222	2,402	2,900	1,845	870	294	217	215	501	1,542	1,975	2,550
1990	2,816	2,661	2,509	842	313	265	298	478	1,129	2,363	2,353	2,703
1991	3,144	2,454	2,566	2,408	1,806	503	263	431	1,049	2,042	2,331	2,907
<b>Avg</b>	2,270	1,913	1,668	900	505	310	294	386	626	1,232	1,647	2,261
<b>W/AN/BN</b>	2,010	1,655	1,070	359	262	254	245	233	236	363	973	1,791
<b>D/C</b>	2,471	2,113	2,133	1,321	694	354	332	505	929	1,908	2,171	2,627

**Alternative 1**

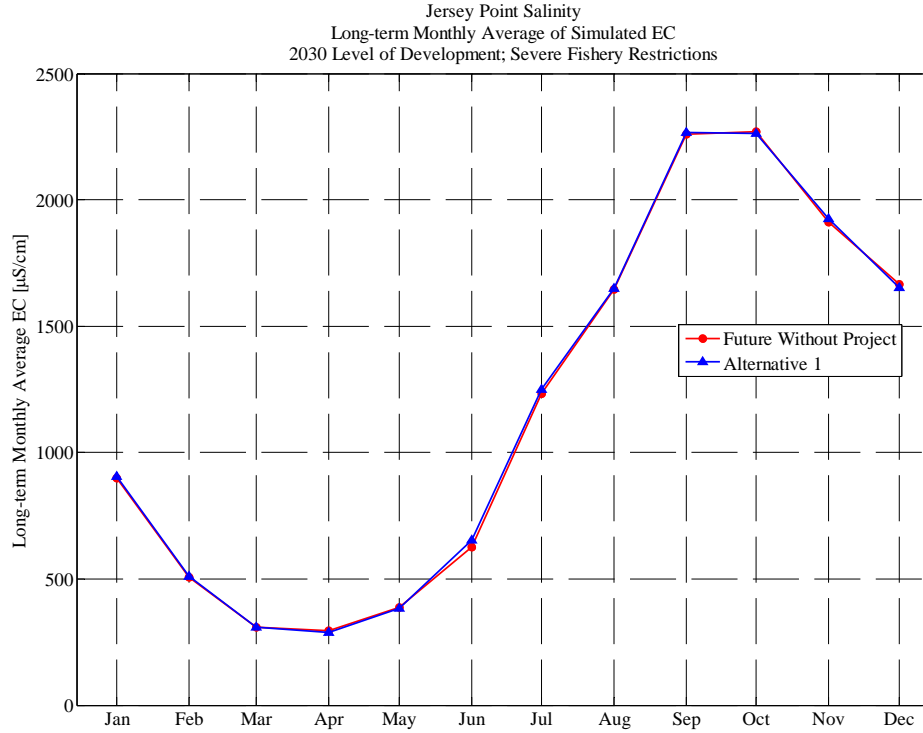
**Jersey Point Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 1**

**2030 Level of Development; Severe Fishery Restrictions**

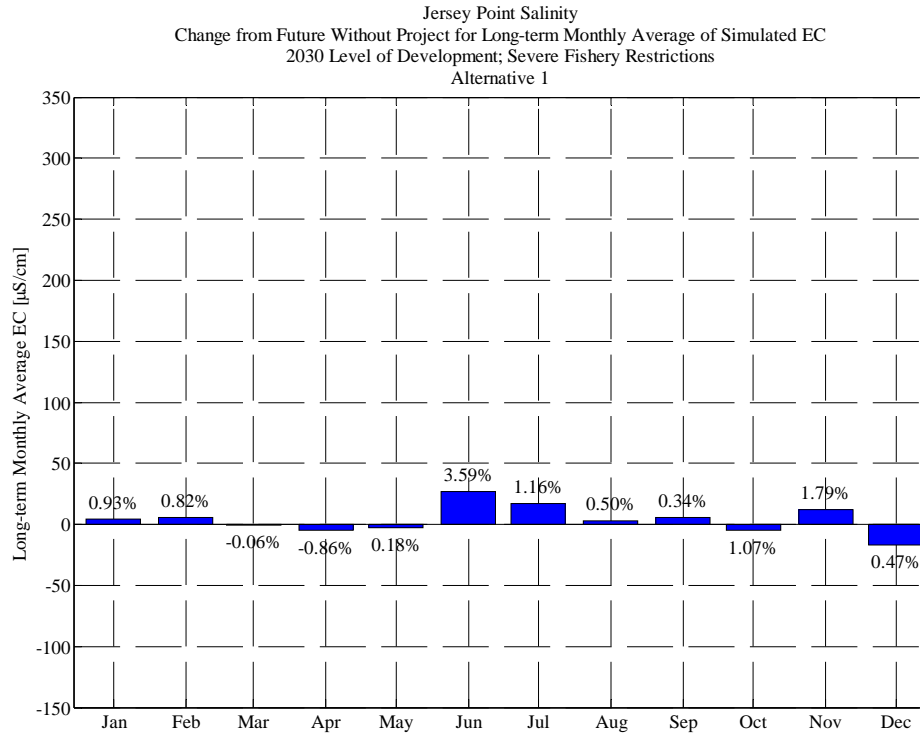
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	689	1,039	1,692	1,522	657	263	267	752	1,613	2,450	2,215	2,636
1977	2,918	2,650	2,448	2,357	1,439	811	738	1,109	1,654	1,999	2,389	2,843
1978	3,058	2,938	1,637	344	261	288	280	244	224	361	1,428	2,559
1979	2,687	2,871	2,224	548	276	236	239	240	236	587	1,365	2,777
1980	2,898	2,149	1,033	272	284	271	258	238	234	292	993	2,284
1981	2,332	2,388	2,799	978	249	223	249	309	674	1,691	1,926	2,394
1982	2,828	1,050	206	237	224	242	216	195	204	260	996	406
1983	187	199	241	307	296	259	239	222	219	212	197	187
1984	202	192	233	246	225	207	235	256	293	502	1,081	2,518
1985	2,369	822	263	345	262	240	274	309	586	1,552	1,910	2,644
1986	2,442	2,593	2,030	565	265	268	249	220	243	323	910	1,949
1987	2,030	2,226	2,864	1,233	344	239	265	411	792	1,661	2,022	2,470
1988	2,563	2,374	1,124	312	247	330	346	495	814	2,233	2,301	2,278
1989	2,982	2,194	2,557	1,911	978	301	219	218	475	1,486	1,976	2,682
1990	2,898	2,676	2,527	857	318	269	299	480	1,134	2,337	2,361	2,734
1991	3,149	2,428	2,534	2,437	1,850	511	261	431	1,051	2,037	2,326	2,906
<b>Avg</b>	2,265	1,924	1,651	904	511	310	290	383	653	1,249	1,650	2,267
<b>W/AN/BN</b>	2,043	1,713	1,086	360	262	253	245	231	236	362	996	1,811
<b>D/C</b>	2,437	2,089	2,090	1,328	705	354	324	502	977	1,939	2,158	2,621

**Percent (%) Change from Future Without Project for Jersey Point Salinity  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

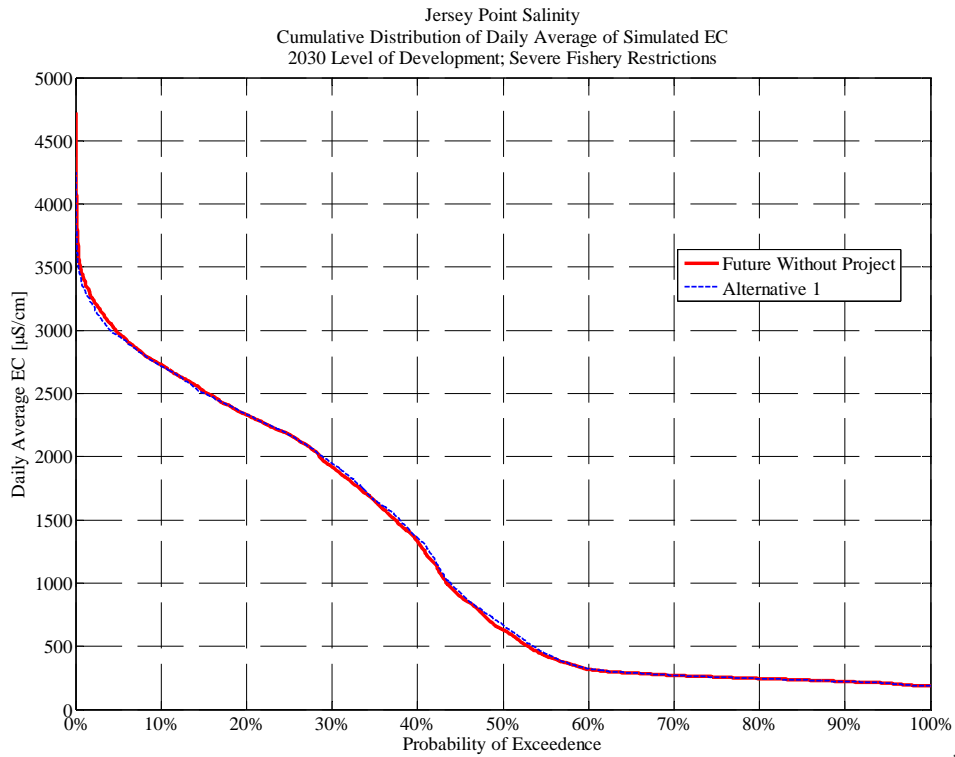
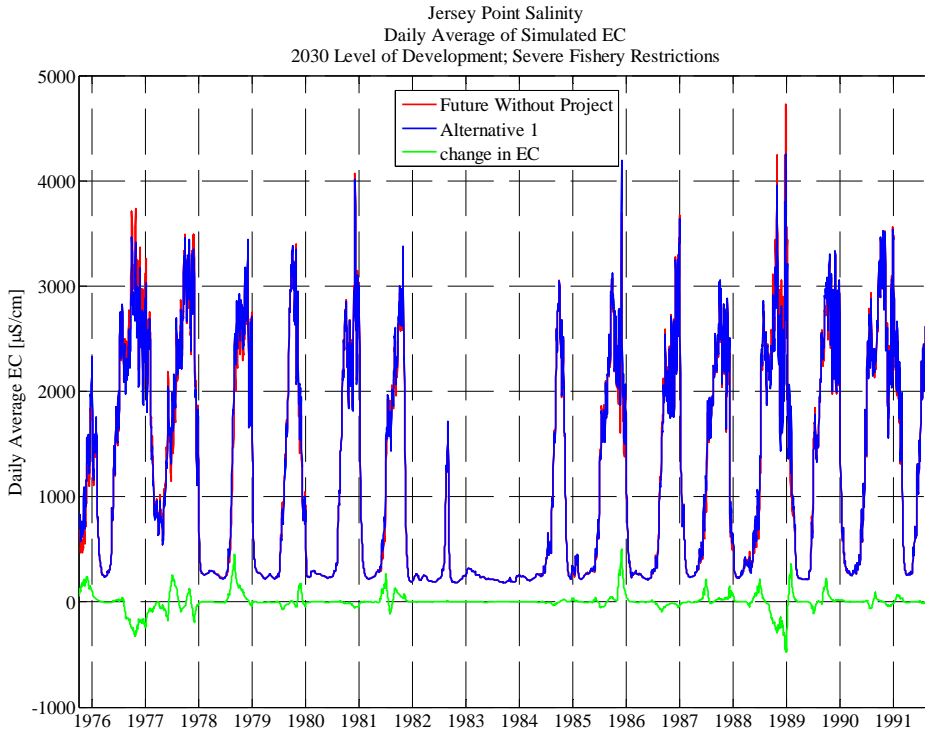
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	22.0%	23.4%	9.6%	3.6%	2.2%	-0.1%	-1.6%	0.1%	1.1%	1.0%	-4.2%	-7.0%
1977	-8.8%	-7.1%	-7.4%	-4.7%	-5.0%	-2.1%	-5.9%	-8.2%	4.5%	10.4%	0.1%	-1.9%
1978	2.0%	-1.9%	-3.6%	-0.9%	-0.1%	0.0%	-0.4%	-1.9%	-1.5%	13.3%	23.1%	9.5%
1979	4.7%	1.5%	-0.7%	0.1%	-1.5%	-2.2%	-0.7%	-1.3%	-0.8%	-6.1%	-2.8%	-0.2%
1980	-0.7%	5.5%	1.1%	-2.0%	-0.3%	-0.1%	0.2%	-1.5%	-0.6%	-0.1%	0.3%	-0.2%
1981	-0.4%	-1.2%	-1.6%	-0.4%	-0.1%	-0.1%	-0.5%	4.5%	24.3%	2.5%	-0.1%	4.5%
1982	1.8%	3.3%	0.7%	-0.2%	-0.1%	0.0%	0.0%	-0.5%	0.2%	0.3%	0.5%	0.4%
1983	0.0%	-0.1%	-0.2%	-0.2%	-0.1%	0.0%	0.2%	-0.8%	0.0%	0.0%	0.0%	0.0%
1984	0.1%	0.0%	-0.1%	-0.1%	0.0%	-0.1%	-0.1%	-0.9%	-0.3%	-1.1%	-1.8%	-0.4%
1985	0.4%	1.5%	5.3%	4.9%	1.1%	-0.6%	-0.3%	2.4%	2.8%	-3.0%	-0.7%	1.5%
1986	0.8%	12.2%	9.8%	3.3%	0.6%	-1.2%	0.3%	-0.2%	1.9%	-2.0%	-6.2%	-2.9%
1987	-1.2%	-0.6%	-1.2%	-1.1%	-0.6%	-0.6%	-0.4%	3.4%	14.5%	4.2%	-0.2%	0.9%
1988	0.9%	1.4%	8.1%	6.2%	0.6%	0.7%	-4.8%	5.9%	15.9%	4.1%	-0.3%	-5.0%
1989	-7.4%	-8.7%	-11.8%	3.6%	12.5%	2.2%	0.9%	1.4%	-5.2%	-3.6%	0.0%	5.2%
1990	2.9%	0.6%	0.7%	1.7%	1.5%	1.3%	0.2%	0.5%	0.4%	-1.1%	0.3%	1.1%
1991	0.2%	-1.0%	-1.2%	1.2%	2.4%	1.7%	-0.9%	0.1%	0.2%	-0.3%	-0.2%	0.0%
<b>Avg</b>	1.1%	1.8%	0.5%	0.9%	0.8%	-0.1%	-0.9%	0.2%	3.6%	1.2%	0.5%	0.3%
<b>W/AN/BN</b>	1.2%	2.9%	1.0%	0.0%	-0.2%	-0.5%	-0.1%	-1.0%	-0.1%	0.6%	1.9%	0.9%
<b>D/C</b>	0.9%	0.9%	0.1%	1.7%	1.6%	0.3%	-1.5%	1.1%	6.5%	1.6%	-0.6%	-0.1%



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**Alternative 2**

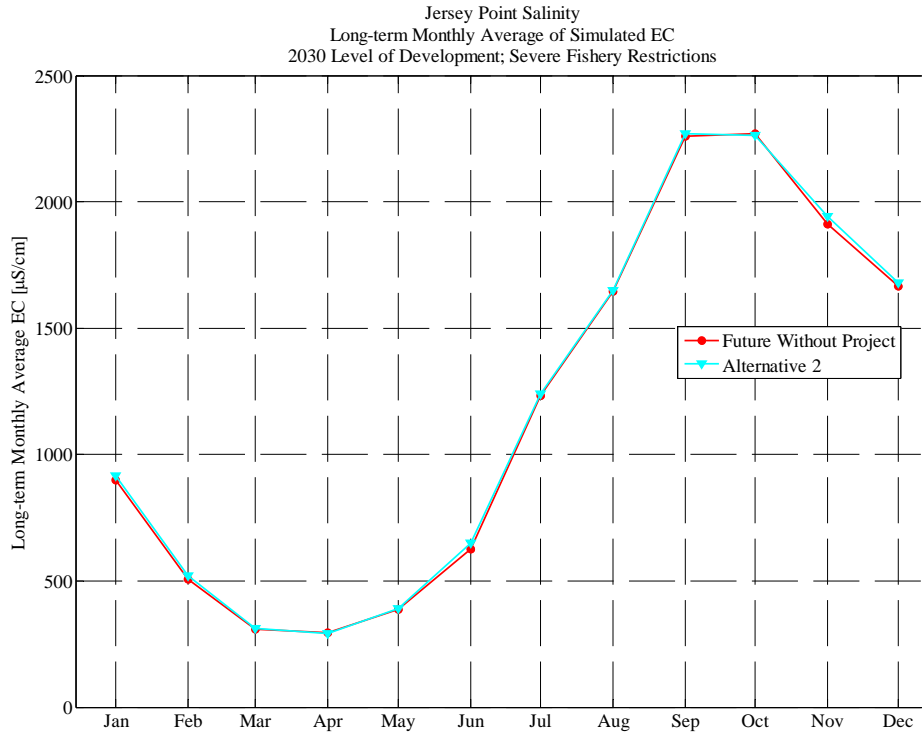
**Jersey Point Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Alternative 2**

**2030 Level of Development; Severe Fishery Restrictions**

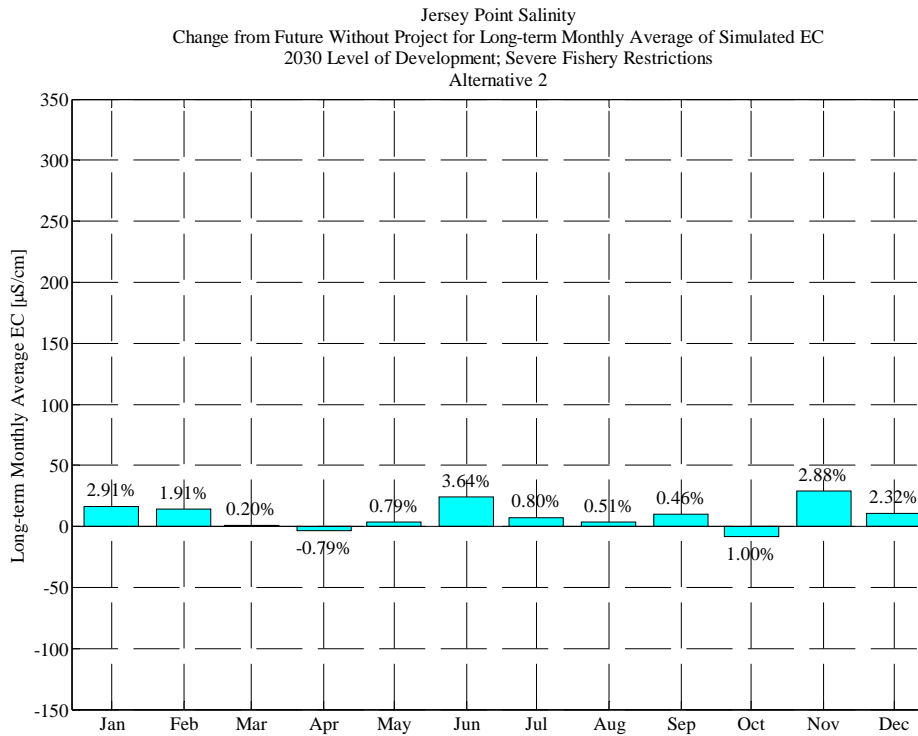
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	692	1,074	1,720	1,529	671	264	267	752	1,614	2,452	2,217	2,638
1977	2,920	2,649	2,450	2,352	1,434	810	756	1,194	1,593	1,829	2,395	2,898
1978	2,999	2,993	1,934	380	261	288	281	245	224	363	1,432	2,560
1979	2,692	2,876	2,221	553	274	236	239	240	236	588	1,365	2,788
1980	2,897	2,246	1,078	273	283	271	258	238	234	292	993	2,284
1981	2,331	2,388	2,800	985	249	222	249	309	673	1,691	1,926	2,393
1982	2,827	1,090	208	236	224	242	216	195	204	260	996	406
1983	187	199	241	306	296	259	239	222	219	212	197	187
1984	202	192	233	246	225	206	235	256	293	502	1,081	2,519
1985	2,368	828	267	358	269	239	274	309	586	1,552	1,910	2,645
1986	2,443	2,594	2,029	581	266	268	249	220	248	333	900	1,938
1987	2,027	2,241	2,894	1,286	360	239	265	411	792	1,661	2,022	2,470
1988	2,568	2,397	1,150	318	247	329	346	514	831	2,227	2,300	2,282
1989	2,984	2,192	2,561	1,908	988	302	216	215	474	1,487	1,983	2,682
1990	2,899	2,676	2,529	909	331	270	299	480	1,134	2,339	2,361	2,731
1991	3,149	2,431	2,536	2,435	1,928	532	262	431	1,051	2,039	2,329	2,909
<b>Avg</b>	<b>2,262</b>	<b>1,942</b>	<b>1,678</b>	<b>916</b>	<b>519</b>	<b>311</b>	<b>291</b>	<b>389</b>	<b>650</b>	<b>1,239</b>	<b>1,650</b>	<b>2,271</b>
<b>W/AN/BN</b>	<b>2,035</b>	<b>1,742</b>	<b>1,135</b>	<b>368</b>	<b>261</b>	<b>253</b>	<b>245</b>	<b>231</b>	<b>237</b>	<b>364</b>	<b>995</b>	<b>1,812</b>
<b>D/C</b>	<b>2,438</b>	<b>2,097</b>	<b>2,101</b>	<b>1,342</b>	<b>720</b>	<b>356</b>	<b>326</b>	<b>513</b>	<b>972</b>	<b>1,920</b>	<b>2,160</b>	<b>2,628</b>

**Percent (%) Change from Future Without Project for Jersey Point Salinity**  
**(Alternative 2 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Severe Fishery Restrictions**

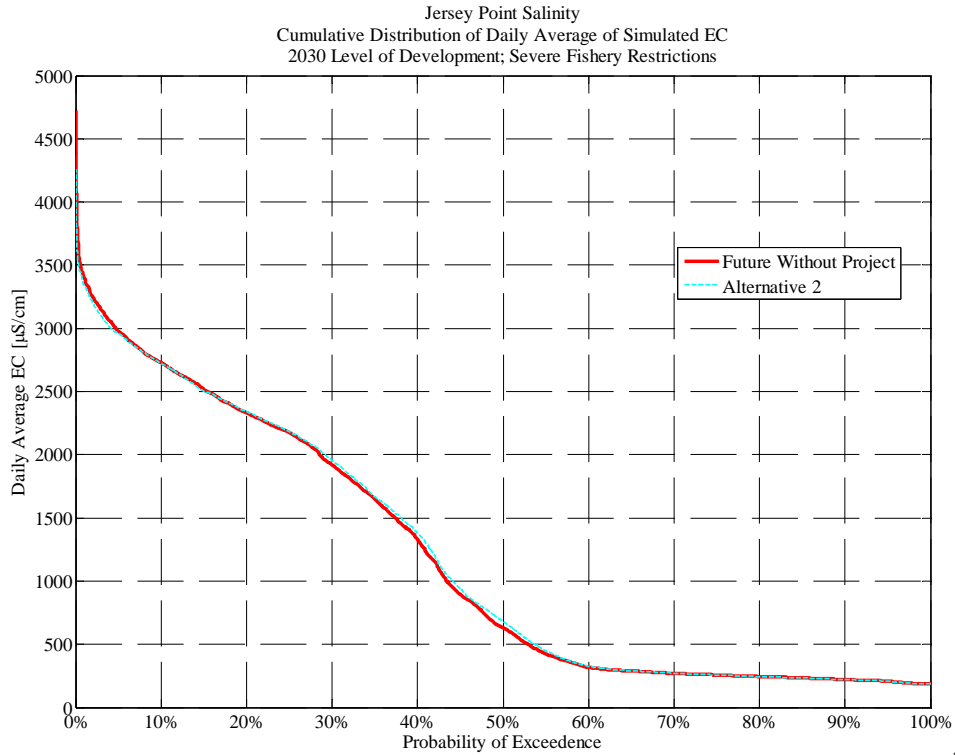
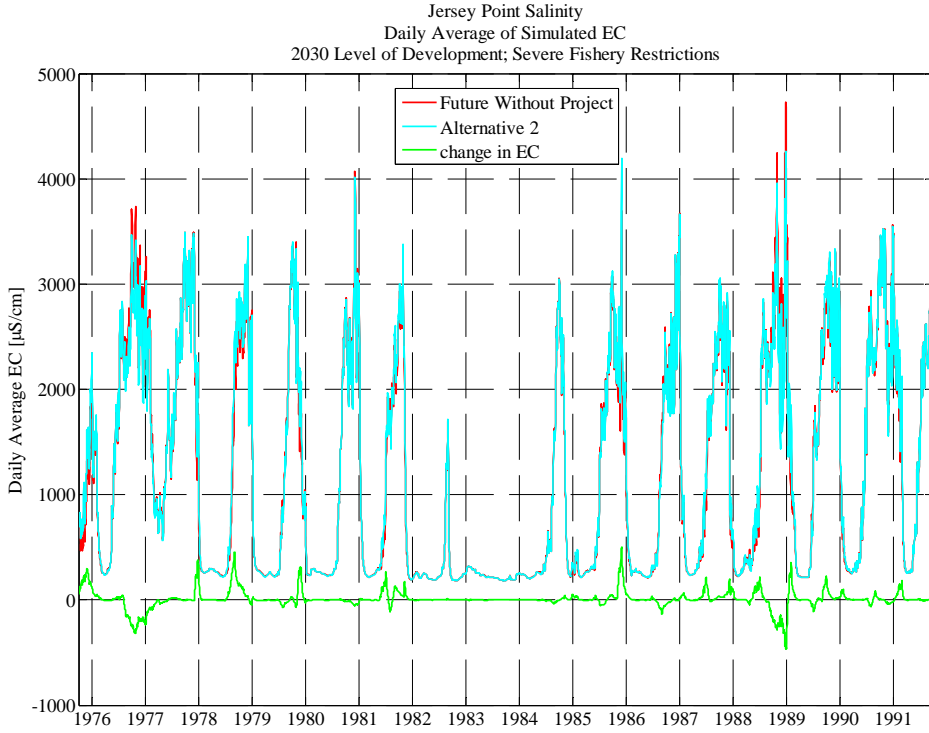
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	22.5%	27.6%	11.5%	4.1%	4.4%	0.2%	-1.6%	0.1%	1.1%	1.1%	-4.1%	-7.0%
1977	-8.7%	-7.1%	-7.3%	-4.9%	-5.3%	-2.1%	-3.6%	-1.2%	0.6%	1.0%	0.4%	-0.1%
1978	0.0%	-0.1%	13.9%	9.7%	-0.1%	0.0%	-0.1%	-1.6%	-1.5%	13.8%	23.4%	9.6%
1979	4.9%	1.7%	-0.8%	1.0%	-2.0%	-2.2%	-0.7%	-1.4%	-0.7%	-5.9%	-2.7%	0.3%
1980	-0.8%	10.2%	5.5%	-1.7%	-0.6%	-0.2%	0.2%	-1.5%	-0.5%	-0.1%	0.3%	-0.2%
1981	-0.4%	-1.2%	-1.5%	0.3%	-0.2%	-0.5%	-0.6%	4.5%	24.2%	2.5%	-0.1%	4.4%
1982	1.8%	7.2%	1.4%	-0.6%	-0.3%	0.0%	0.0%	-0.5%	0.3%	0.3%	0.5%	0.4%
1983	0.1%	-0.1%	-0.2%	-0.4%	-0.2%	-0.1%	0.3%	-0.8%	0.0%	0.0%	0.0%	0.0%
1984	0.1%	0.0%	-0.2%	-0.1%	-0.1%	-0.2%	-0.2%	-0.9%	-0.3%	-1.1%	-1.8%	-0.4%
1985	0.3%	2.3%	6.7%	8.9%	3.8%	-0.9%	-0.5%	2.3%	2.8%	-3.0%	-0.7%	1.5%
1986	0.8%	12.2%	9.8%	6.3%	0.8%	-1.2%	0.4%	-0.1%	4.1%	0.9%	-7.2%	-3.5%
1987	-1.4%	0.0%	-0.2%	3.1%	4.0%	-0.6%	-0.5%	3.3%	14.4%	4.3%	-0.2%	0.9%
1988	1.1%	2.4%	10.6%	8.4%	0.4%	0.6%	-4.8%	10.0%	18.3%	3.9%	-0.4%	-4.8%
1989	-7.4%	-8.8%	-11.7%	3.4%	13.6%	2.8%	-0.6%	-0.2%	-5.3%	-3.6%	0.4%	5.2%
1990	2.9%	0.6%	0.8%	7.9%	5.6%	1.9%	0.3%	0.5%	0.4%	-1.0%	0.3%	1.0%
1991	0.1%	-1.0%	-1.1%	1.1%	6.8%	5.8%	-0.5%	0.1%	0.3%	-0.1%	-0.1%	0.1%
<b>Avg</b>	<b>1.0%</b>	<b>2.9%</b>	<b>2.3%</b>	<b>2.9%</b>	<b>1.9%</b>	<b>0.2%</b>	<b>-0.8%</b>	<b>0.8%</b>	<b>3.6%</b>	<b>0.8%</b>	<b>0.5%</b>	<b>0.5%</b>
<b>W/AN/BN</b>	<b>1.0%</b>	<b>4.5%</b>	<b>4.2%</b>	<b>2.0%</b>	<b>-0.4%</b>	<b>-0.6%</b>	<b>0.0%</b>	<b>-1.0%</b>	<b>0.2%</b>	<b>1.1%</b>	<b>1.8%</b>	<b>0.9%</b>
<b>D/C</b>	<b>1.0%</b>	<b>1.7%</b>	<b>0.9%</b>	<b>3.6%</b>	<b>3.7%</b>	<b>0.8%</b>	<b>-1.4%</b>	<b>2.2%</b>	<b>6.3%</b>	<b>0.6%</b>	<b>-0.5%</b>	<b>0.1%</b>



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**Alternative 3**

**Jersey Point Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Alternative 3**

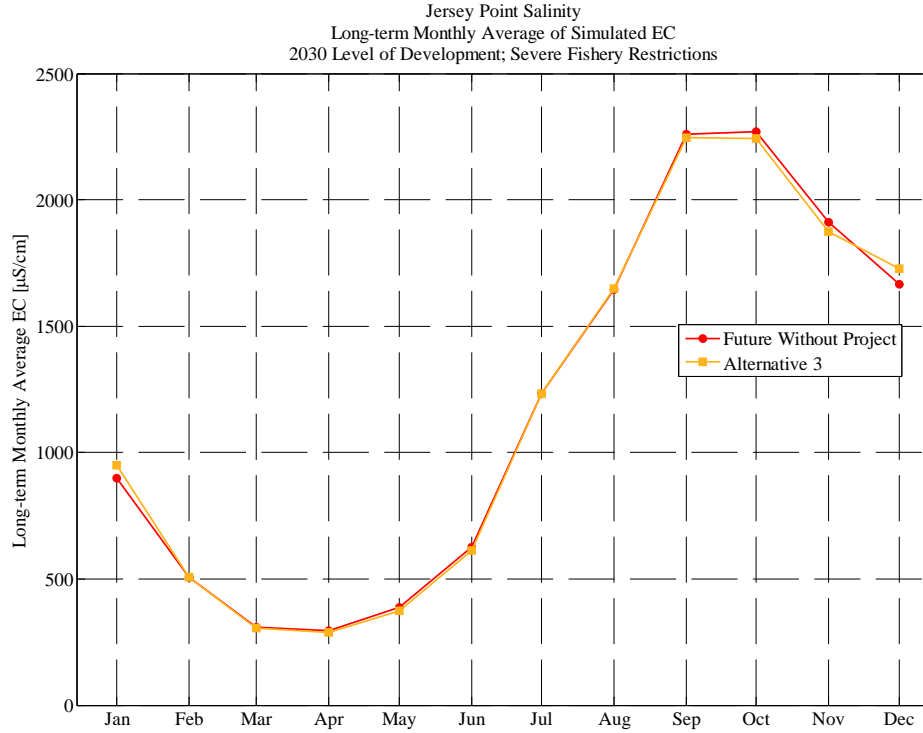
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	569	847	1,547	1,463	638	263	271	685	1,482	2,375	2,143	2,548
1977	2,862	2,579	2,451	2,275	1,360	747	708	1,082	1,631	2,000	2,388	2,845
1978	3,059	2,939	1,621	341	261	288	279	245	224	350	1,362	2,561
1979	2,708	2,865	2,265	556	277	237	238	240	237	594	1,368	2,772
1980	2,954	2,050	1,049	281	285	271	258	240	235	292	996	2,306
1981	2,348	2,423	2,861	988	250	223	250	298	526	1,601	1,913	2,271
1982	2,772	1,017	205	239	225	242	216	196	204	260	995	405
1983	187	200	241	308	296	259	238	223	219	212	197	187
1984	202	192	234	246	222	204	233	257	287	504	1,115	2,539
1985	2,402	833	251	329	259	241	275	304	546	1,552	1,909	2,578
1986	2,416	2,321	1,860	548	264	268	246	220	237	322	942	1,986
1987	2,059	2,240	2,829	1,767	517	251	267	397	616	1,580	2,065	2,459
1988	2,565	2,427	2,616	892	281	326	349	461	629	2,040	2,299	2,357
1989	3,002	2,153	2,676	1,757	832	289	220	218	550	1,651	2,013	2,529
1990	2,650	2,454	2,363	810	310	265	298	478	1,129	2,368	2,351	2,704
1991	3,146	2,467	2,570	2,402	1,800	502	263	430	1,050	2,048	2,332	2,902
<b>Avg</b>	<b>2,244</b>	<b>1,875</b>	<b>1,727</b>	<b>950</b>	<b>505</b>	<b>305</b>	<b>288</b>	<b>373</b>	<b>613</b>	<b>1,234</b>	<b>1,649</b>	<b>2,247</b>
<b>W/AN/BN</b>	<b>2,043</b>	<b>1,655</b>	<b>1,068</b>	<b>360</b>	<b>261</b>	<b>253</b>	<b>244</b>	<b>231</b>	<b>235</b>	<b>362</b>	<b>996</b>	<b>1,822</b>
<b>D/C</b>	<b>2,400</b>	<b>2,047</b>	<b>2,240</b>	<b>1,409</b>	<b>694</b>	<b>345</b>	<b>322</b>	<b>484</b>	<b>907</b>	<b>1,913</b>	<b>2,157</b>	<b>2,577</b>

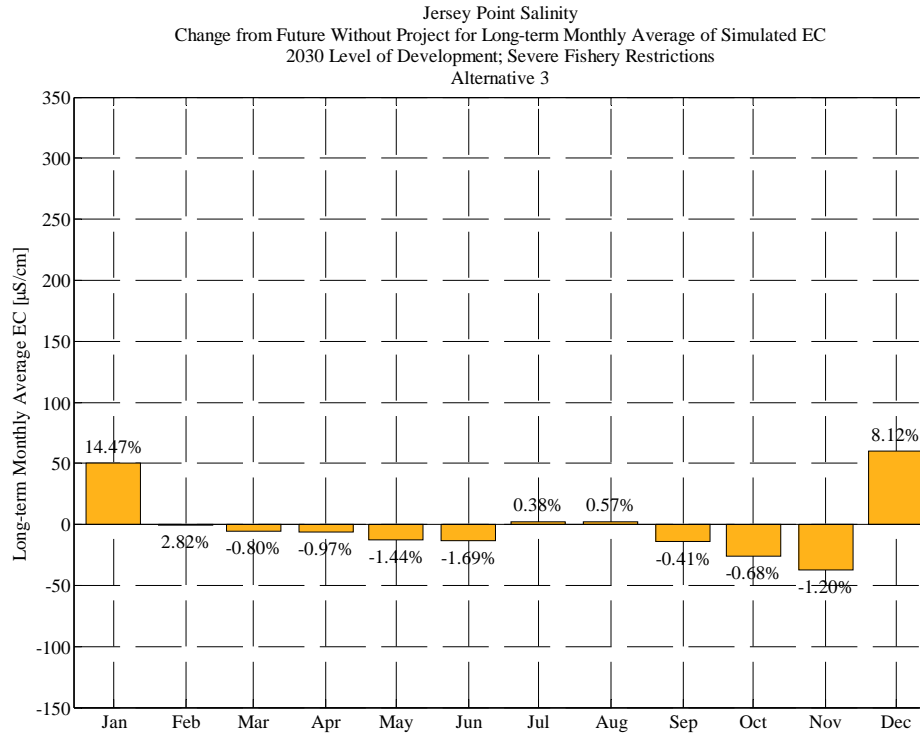
**Percent (%) Change from Future Without Project for Jersey Point Salinity**  
**(Alternative 3 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.8%	0.6%	0.2%	-0.4%	-0.8%	0.0%	0.2%	-8.7%	-7.1%	-2.1%	-7.3%	-10.2%
1977	-10.5%	-9.6%	-7.3%	-8.0%	-10.2%	-9.8%	-9.7%	-10.5%	3.1%	10.5%	0.1%	-1.9%
1978	2.0%	-1.9%	-4.5%	-1.5%	-0.1%	-0.1%	-0.6%	-1.6%	-1.2%	9.6%	17.3%	9.6%
1979	5.6%	1.3%	1.2%	1.6%	-1.0%	-1.8%	-0.7%	-1.4%	-0.4%	-5.0%	-2.5%	-0.3%
1980	1.2%	0.6%	2.7%	1.2%	0.1%	0.0%	0.0%	-0.8%	-0.2%	-0.1%	0.6%	0.7%
1981	0.3%	0.3%	0.6%	0.6%	0.1%	0.0%	0.0%	0.8%	-3.0%	-3.0%	-0.7%	-0.9%
1982	-0.2%	0.1%	0.1%	0.9%	0.3%	-0.1%	0.0%	-0.2%	0.3%	0.3%	0.4%	0.3%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	0.2%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	-1.4%	-1.6%	-1.2%	-0.5%	-2.1%	-0.6%	1.3%	0.4%
1985	1.8%	2.9%	0.5%	0.1%	0.0%	0.0%	0.0%	0.6%	-4.1%	-3.0%	-0.7%	-1.1%
1986	-0.3%	0.4%	0.6%	0.3%	0.0%	-1.1%	-0.7%	-0.1%	-0.8%	-2.4%	-2.9%	-1.1%
1987	0.1%	0.0%	-2.4%	41.7%	49.2%	4.4%	0.3%	-0.3%	-11.0%	-0.8%	2.0%	0.5%
1988	1.0%	3.7%	151.6%	204.0%	14.4%	-0.5%	-3.9%	-1.4%	-10.5%	-4.8%	-0.4%	-1.7%
1989	-6.8%	-10.4%	-7.7%	-4.8%	-4.3%	-1.9%	1.1%	1.3%	9.7%	7.1%	1.9%	-0.8%
1990	-5.9%	-7.8%	-5.8%	-3.9%	-1.0%	-0.2%	-0.1%	0.0%	-0.1%	0.2%	-0.1%	0.0%
1991	0.0%	0.5%	0.2%	-0.3%	-0.4%	-0.2%	-0.1%	-0.1%	0.1%	0.3%	0.1%	-0.2%
<b>Avg</b>	<b>-0.7%</b>	<b>-1.2%</b>	<b>8.1%</b>	<b>14.5%</b>	<b>2.8%</b>	<b>-0.8%</b>	<b>-1.0%</b>	<b>-1.4%</b>	<b>-1.7%</b>	<b>0.4%</b>	<b>0.6%</b>	<b>-0.4%</b>
<b>W/AN/BN</b>	<b>1.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>-0.3%</b>	<b>-0.7%</b>	<b>-0.5%</b>	<b>-0.7%</b>	<b>-0.6%</b>	<b>0.3%</b>	<b>2.0%</b>	<b>1.4%</b>
<b>D/C</b>	<b>-2.1%</b>	<b>-2.2%</b>	<b>14.4%</b>	<b>25.4%</b>	<b>5.2%</b>	<b>-0.9%</b>	<b>-1.4%</b>	<b>-2.0%</b>	<b>-2.5%</b>	<b>0.5%</b>	<b>-0.6%</b>	<b>-1.8%</b>

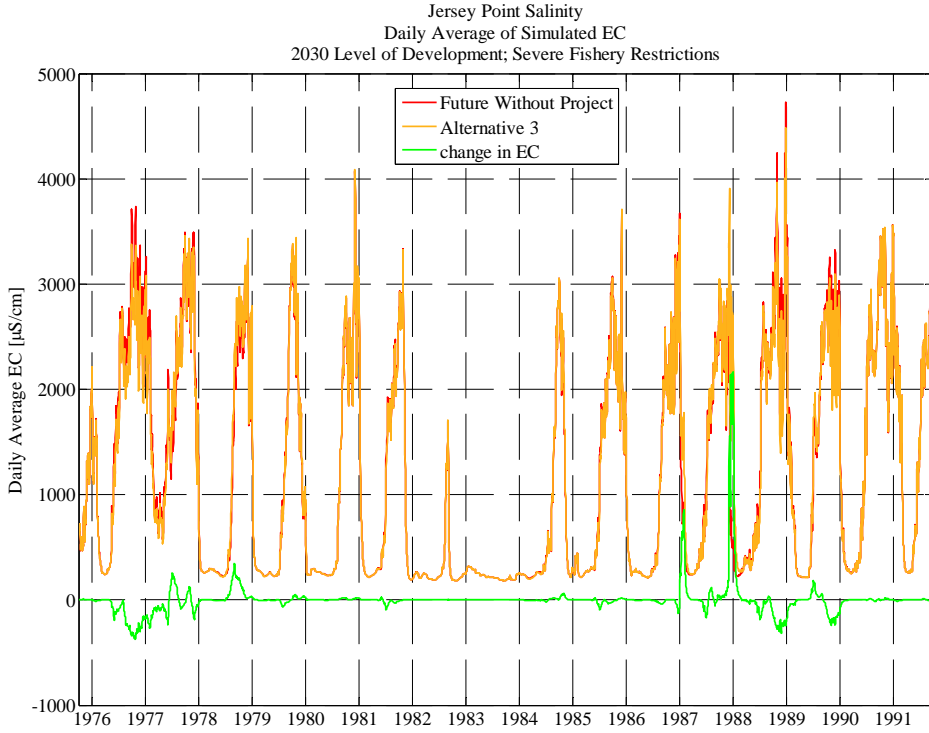




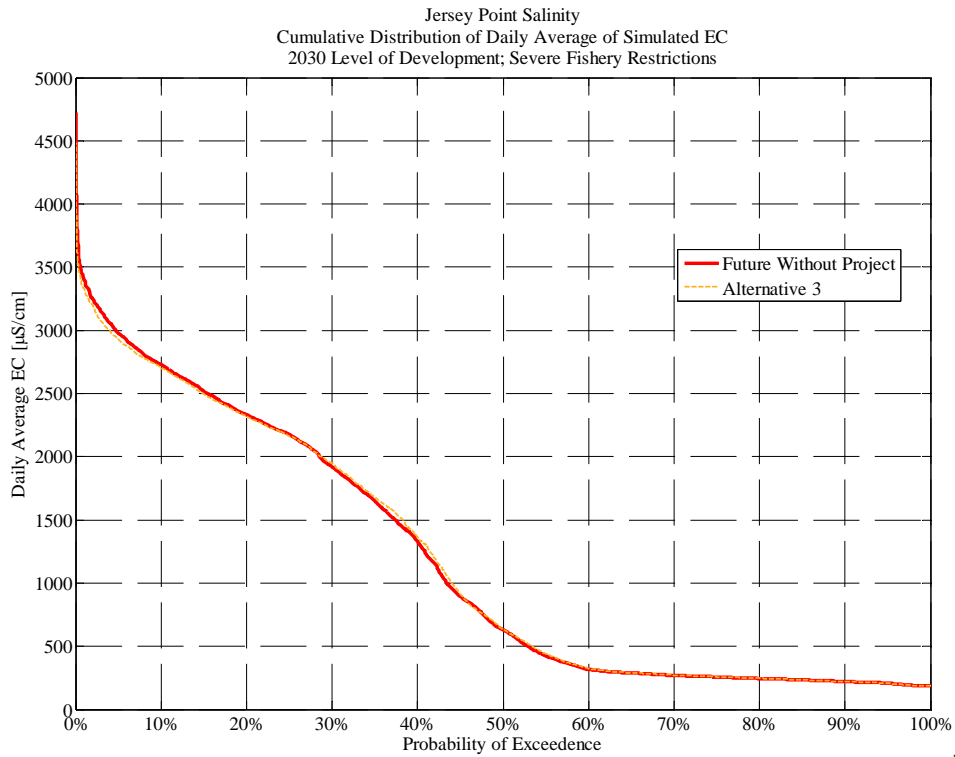
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04-Nov-2008 DS



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**Alternative 4**

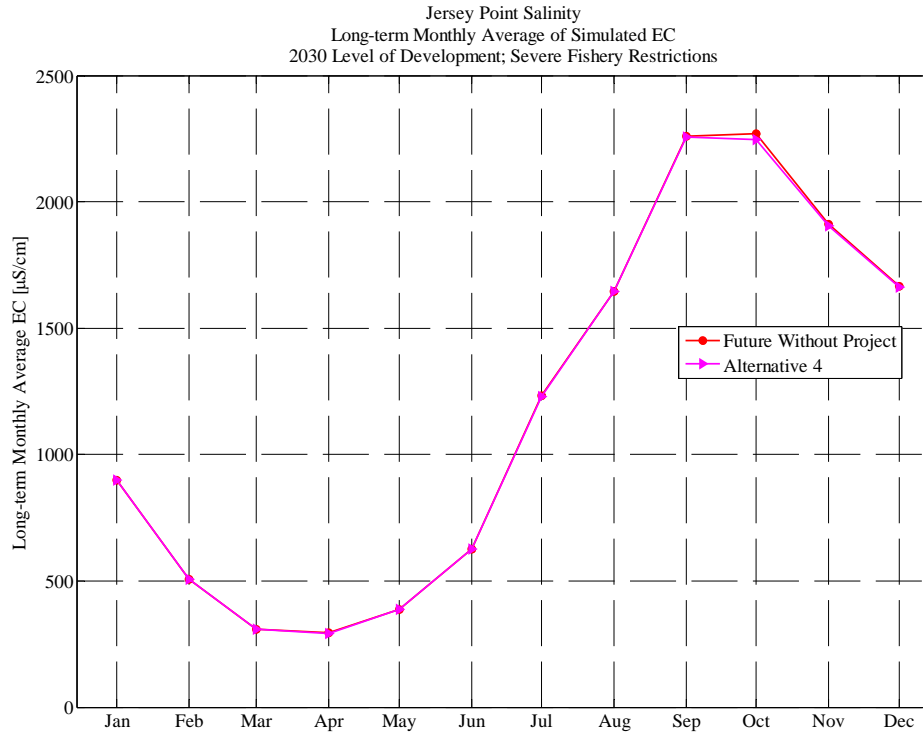
**Jersey Point Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Alternative 4**

**2030 Level of Development; Severe Fishery Restrictions**

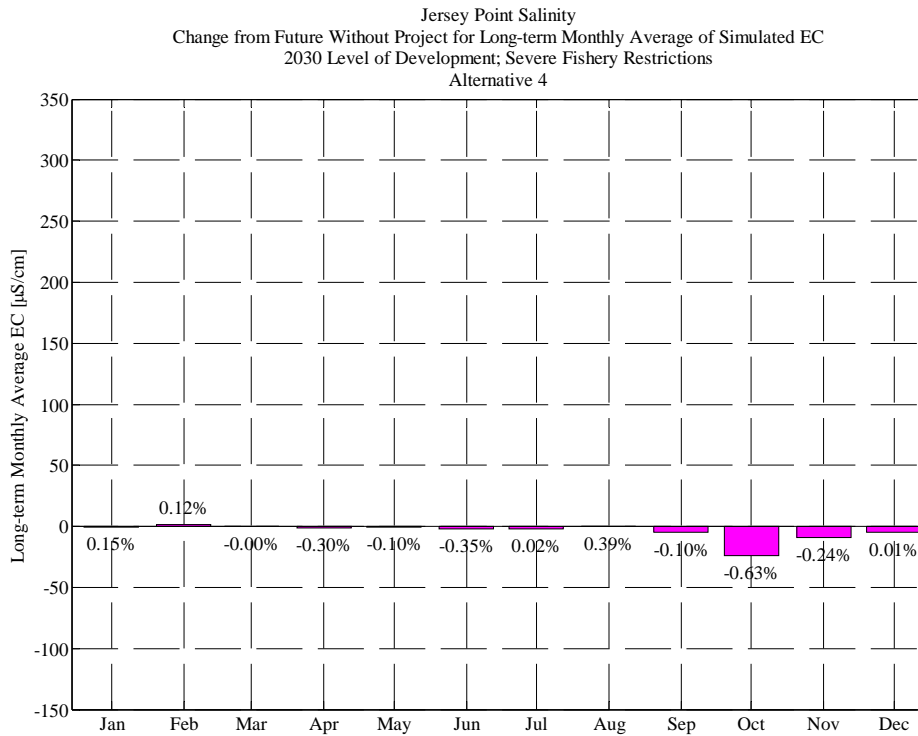
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	566	843	1,544	1,468	642	263	271	751	1,595	2,422	2,190	2,607
1977	2,899	2,611	2,464	2,414	1,510	826	784	1,208	1,583	1,811	2,386	2,900
1978	2,998	2,997	1,700	347	261	288	281	249	227	319	1,158	2,335
1979	2,561	2,825	2,243	548	280	241	240	243	238	625	1,460	2,848
1980	2,921	2,007	1,018	276	282	270	257	242	236	299	1,051	2,352
1981	2,375	2,425	2,858	1,001	251	223	250	296	542	1,655	1,933	2,305
1982	2,793	1,023	205	237	225	242	216	196	203	259	992	404
1983	187	200	241	307	296	259	238	223	218	212	197	187
1984	202	192	234	246	225	207	236	259	294	509	1,102	2,531
1985	2,357	810	250	329	259	241	275	302	569	1,605	1,926	2,609
1986	2,424	2,565	2,016	562	264	271	249	221	239	330	987	2,072
1987	2,119	2,281	2,919	1,251	347	241	266	398	692	1,593	2,025	2,447
1988	2,540	2,346	1,042	292	246	328	347	460	701	2,143	2,283	2,251
1989	2,958	2,218	2,810	1,842	878	294	217	215	473	1,512	1,972	2,619
1990	2,882	2,675	2,514	844	314	265	298	478	1,130	2,348	2,357	2,723
1991	3,150	2,439	2,548	2,427	1,827	506	263	431	1,048	2,040	2,330	2,907
<b>Avg</b>	2,246	1,903	1,663	899	507	310	293	386	624	1,230	1,647	2,256
<b>W/AN/BN</b>	2,012	1,687	1,094	360	262	254	245	233	236	364	993	1,818
<b>D/C</b>	2,427	2,072	2,106	1,319	697	354	330	504	926	1,903	2,156	2,596

**Percent (%) Change from Future Without Project for Jersey Point Salinity**  
**(Alternative 4 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Severe Fishery Restrictions**

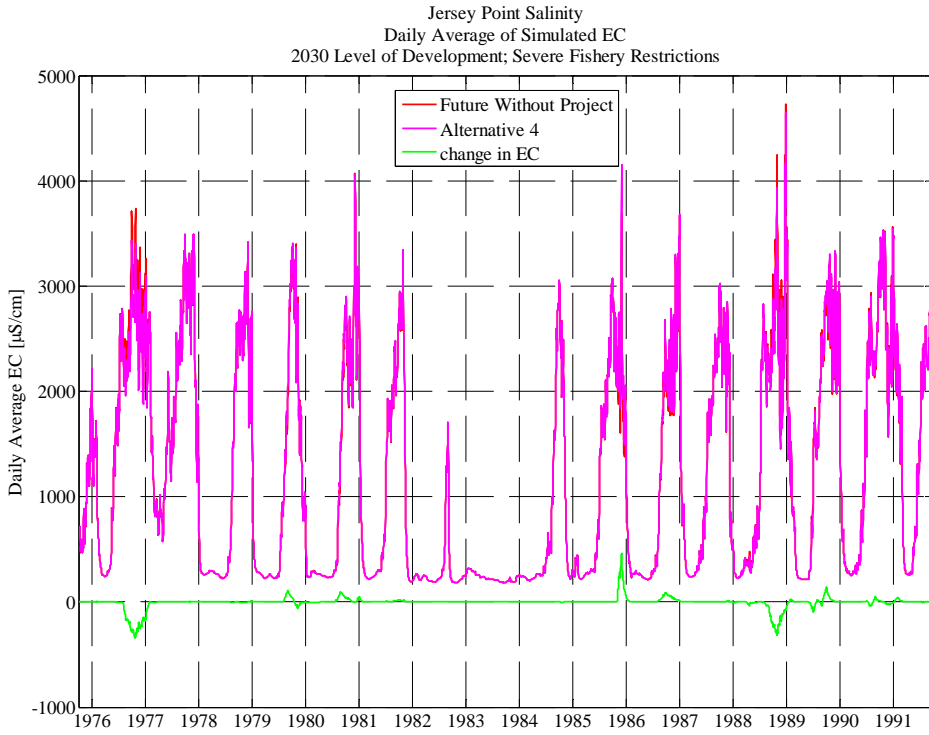
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.1%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	-0.1%	-0.2%	-5.2%	-8.1%
1977	-9.4%	-8.4%	-6.8%	-2.4%	-0.3%	-0.3%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%	-0.1%	-0.2%	0.0%
1979	-0.2%	-0.1%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%	2.4%
1980	0.1%	-1.5%	-0.4%	-0.5%	-0.9%	-0.6%	-0.3%	0.0%	0.0%	2.3%	6.2%	2.7%
1981	1.4%	0.4%	0.5%	1.9%	0.5%	0.1%	0.0%	0.0%	0.0%	0.3%	0.3%	0.6%
1982	0.6%	0.7%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%	0.2%	0.0%
1985	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.2%	0.1%
1986	0.0%	11.0%	9.1%	2.7%	0.1%	0.0%	0.4%	0.4%	0.0%	0.0%	1.8%	3.2%
1987	3.1%	1.8%	0.7%	0.3%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.2%	0.2%	-0.4%	0.2%	0.1%	-4.5%	-1.7%	-0.2%	0.0%	-1.1%	-6.1%
1989	-8.2%	-7.7%	-3.1%	-0.2%	0.9%	0.1%	-0.3%	-0.1%	-5.5%	-2.0%	-0.2%	2.7%
1990	2.4%	0.5%	0.2%	0.2%	0.0%	0.0%	-0.1%	-0.1%	0.1%	-0.6%	0.1%	0.7%
1991	0.2%	-0.6%	-0.7%	0.8%	1.2%	0.6%	0.1%	0.0%	0.0%	-0.1%	0.0%	0.0%
<b>Avg</b>	-0.6%	-0.2%	0.0%	0.2%	0.1%	0.0%	-0.3%	-0.1%	-0.3%	0.0%	0.4%	-0.1%
<b>W/AN/BN</b>	0.1%	1.4%	1.3%	0.3%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.4%	1.7%	1.2%
<b>D/C</b>	-1.2%	-1.5%	-1.0%	0.0%	0.3%	0.1%	-0.5%	-0.2%	-0.6%	-0.2%	-0.7%	-1.1%



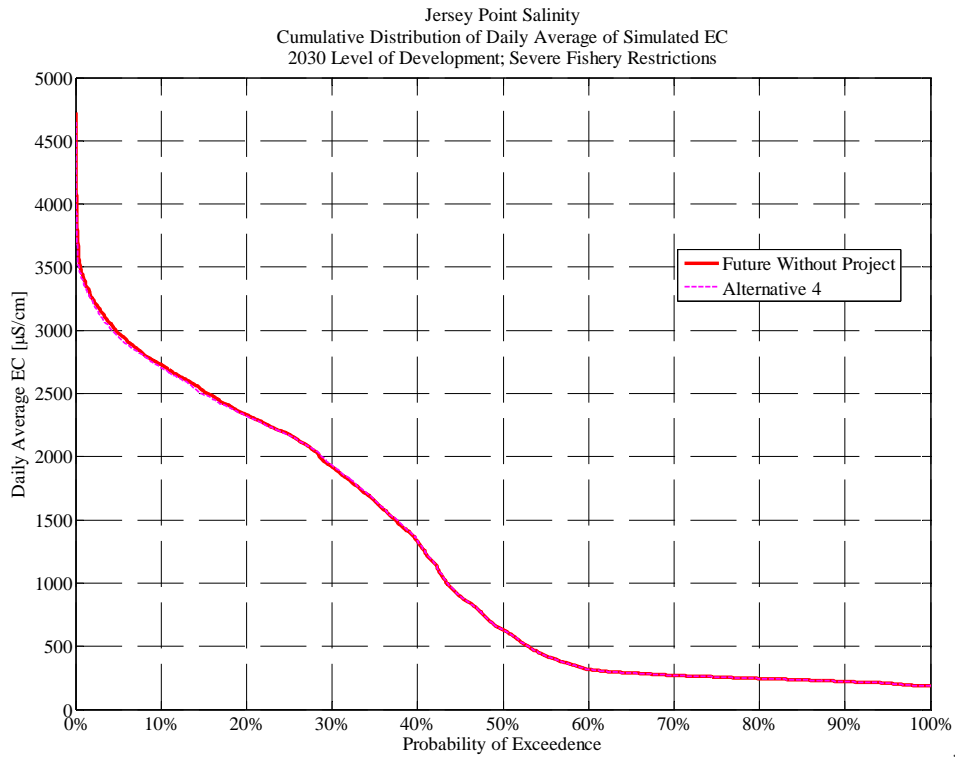
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## Clifton Court Forebay

### *Future Without Project*

#### Clifton Court Forebay Entrance Salinity Monthly Average of Simulated Values (EC, $\mu\text{S/cm}$ )

#### Future Without Project

#### 2030 Level of Development; Severe Fishery Restrictions

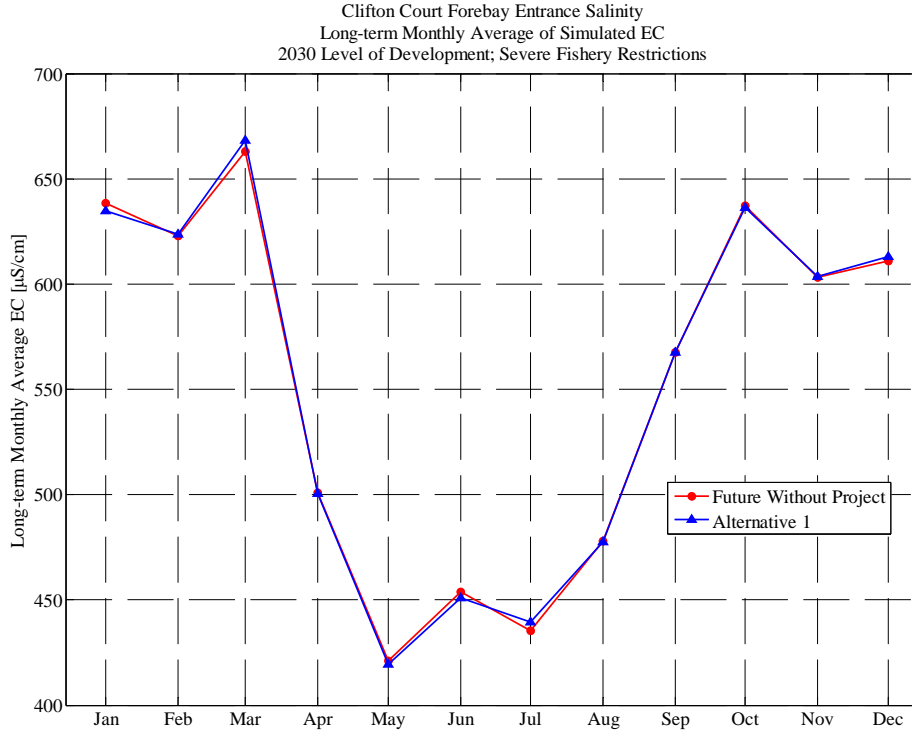
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	299	309	460	639	750	901	634	507	586	637	655	678
1977	852	831	828	862	951	996	740	599	641	562	614	728
1978	888	880	800	679	687	676	402	310	406	379	322	515
1979	631	657	700	661	428	351	372	304	389	292	375	576
1980	746	592	487	438	355	399	350	349	368	377	323	476
1981	609	601	763	784	718	756	503	407	486	431	530	611
1982	725	565	337	628	319	332	225	203	338	363	313	285
1983	210	269	379	358	332	272	294	258	236	221	202	225
1984	247	218	305	340	265	352	358	343	458	307	327	531
1985	625	451	341	390	618	838	549	447	512	437	548	632
1986	700	621	656	583	472	322	239	225	358	480	330	447
1987	533	562	716	786	763	789	604	489	530	440	554	647
1988	726	679	637	555	699	948	675	569	518	488	696	656
1989	806	851	783	913	915	855	672	546	447	439	545	692
1990	750	717	795	701	699	928	670	585	499	595	674	671
1991	846	849	784	902	994	895	729	594	490	516	638	716
<b>Avg</b>	637	603	611	639	623	663	501	421	454	435	478	568
<b>W/AN/BN</b>	592	543	524	527	408	386	320	285	365	346	313	437
<b>D/C</b>	672	650	679	726	790	878	642	527	523	505	606	670

**Alternative 1****Clifton Court Forebay Entrance Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )****Alternative 1****2030 Level of Development; Severe Fishery Restrictions**

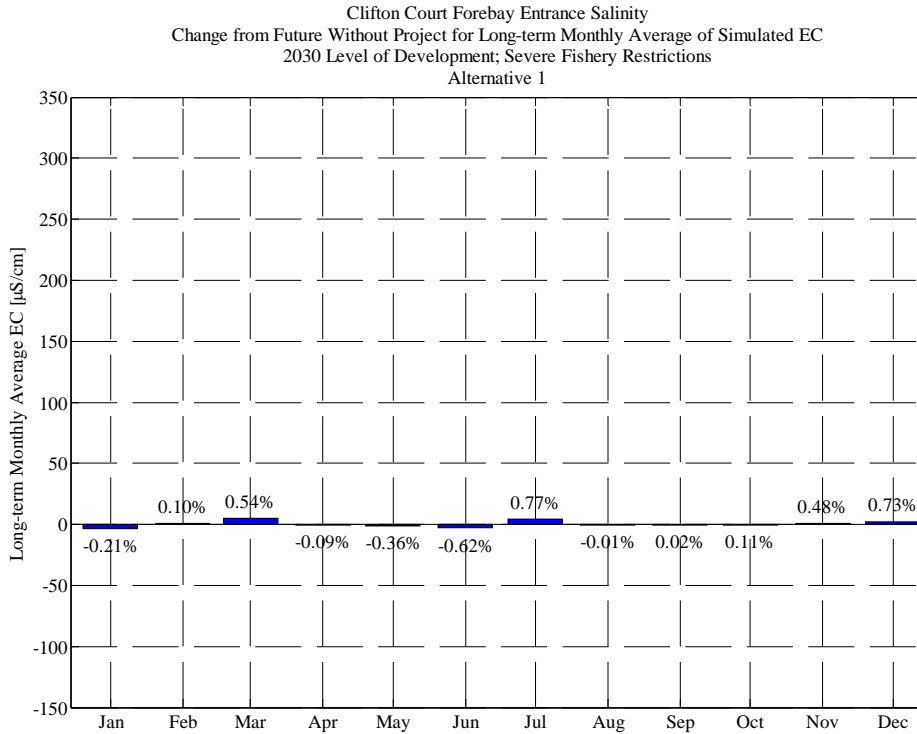
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	307	331	503	668	757	905	624	500	587	643	654	647
1977	800	788	803	828	945	1,001	739	600	646	606	639	715
1978	882	885	784	677	688	678	404	309	403	375	342	574
1979	662	670	704	659	425	348	371	302	388	289	366	566
1980	746	597	506	436	355	399	351	347	367	378	324	471
1981	604	595	754	776	724	766	502	403	467	446	518	630
1982	745	574	335	632	319	330	225	203	339	364	313	284
1983	210	269	379	358	332	272	294	258	236	221	201	226
1984	247	217	305	339	261	353	357	344	460	305	326	522
1985	624	452	342	396	629	849	552	443	495	428	537	634
1986	710	652	726	600	471	322	239	223	358	486	329	431
1987	523	557	713	780	768	801	595	482	521	458	551	649
1988	736	691	642	563	706	962	683	571	510	507	701	648
1989	770	809	731	843	902	868	674	551	449	423	539	699
1990	771	724	799	703	703	938	672	585	499	591	666	675
1991	846	848	781	901	998	899	725	592	487	514	634	710
<b>Avg</b>	636	604	613	635	624	668	500	420	451	440	477	567
<b>W/AN/BN</b>	600	552	534	529	407	386	320	284	364	346	314	439
<b>D/C</b>	665	644	674	717	792	888	641	525	518	513	604	667

**Percent (%) Change from Future Without Project for Clifton Court Forebay Entrance Salinity****(Alternative 1 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	2.6%	7.0%	9.3%	4.6%	0.9%	0.4%	-1.7%	-1.3%	0.2%	0.9%	-0.1%	-4.6%
1977	-6.0%	-5.1%	-3.1%	-4.0%	-0.6%	0.6%	-0.1%	0.3%	0.7%	7.7%	4.0%	-1.8%
1978	-0.7%	0.6%	-2.1%	-0.3%	0.1%	0.4%	0.5%	-0.6%	-0.7%	-1.1%	6.3%	11.4%
1979	4.9%	2.0%	0.5%	-0.2%	-0.8%	-0.9%	-0.1%	-0.7%	-0.4%	-1.2%	-2.4%	-1.8%
1980	0.1%	0.9%	4.0%	-0.5%	0.0%	-0.1%	0.1%	-0.7%	-0.2%	0.3%	0.2%	-1.1%
1981	-1.0%	-1.0%	-1.2%	-1.0%	0.9%	1.3%	-0.2%	-0.9%	-3.9%	3.6%	-2.2%	3.1%
1982	2.8%	1.7%	-0.4%	0.6%	-0.2%	-0.5%	0.0%	-0.1%	0.5%	0.4%	0.2%	-0.2%
1983	-0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.4%	0.1%
1984	-0.1%	-0.3%	0.0%	-0.3%	-1.2%	0.4%	-0.2%	0.2%	0.5%	-0.4%	-0.3%	-1.7%
1985	-0.1%	0.2%	0.4%	1.6%	1.7%	1.2%	0.6%	-0.8%	-3.3%	-2.2%	-2.2%	0.3%
1986	1.4%	5.1%	10.7%	2.9%	-0.3%	0.0%	-0.1%	-0.7%	0.0%	1.4%	-0.4%	-3.5%
1987	-1.8%	-0.9%	-0.5%	-0.7%	0.6%	1.4%	-1.5%	-1.5%	-1.7%	3.9%	-0.6%	0.3%
1988	1.4%	1.7%	0.8%	1.4%	1.1%	1.5%	1.3%	0.3%	-1.6%	4.0%	0.8%	-1.2%
1989	-4.5%	-5.0%	-6.7%	-7.6%	-1.5%	1.6%	0.2%	1.1%	0.5%	-3.6%	-1.2%	1.0%
1990	2.8%	1.0%	0.6%	0.4%	0.6%	1.1%	0.3%	-0.1%	0.1%	-0.7%	-1.2%	0.7%
1991	0.0%	-0.2%	-0.4%	-0.1%	0.4%	0.4%	-0.5%	-0.3%	-0.5%	-0.5%	-0.7%	-0.7%
<b>Avg</b>	0.1%	0.5%	0.7%	-0.2%	0.1%	0.5%	-0.1%	-0.4%	-0.6%	0.8%	0.0%	0.0%
<b>W/AN/BN</b>	1.2%	1.4%	1.8%	0.3%	-0.3%	-0.1%	0.0%	-0.4%	-0.1%	-0.1%	0.5%	0.5%
<b>D/C</b>	-0.7%	-0.3%	-0.1%	-0.6%	0.4%	1.1%	-0.2%	-0.4%	-1.1%	1.4%	-0.4%	-0.3%

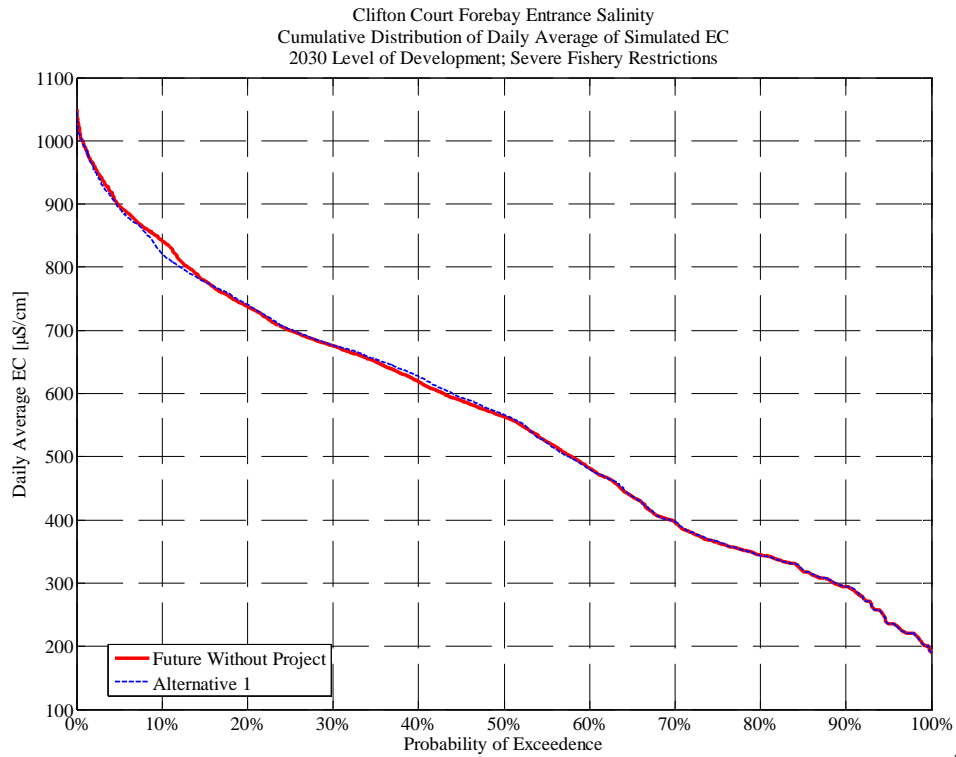
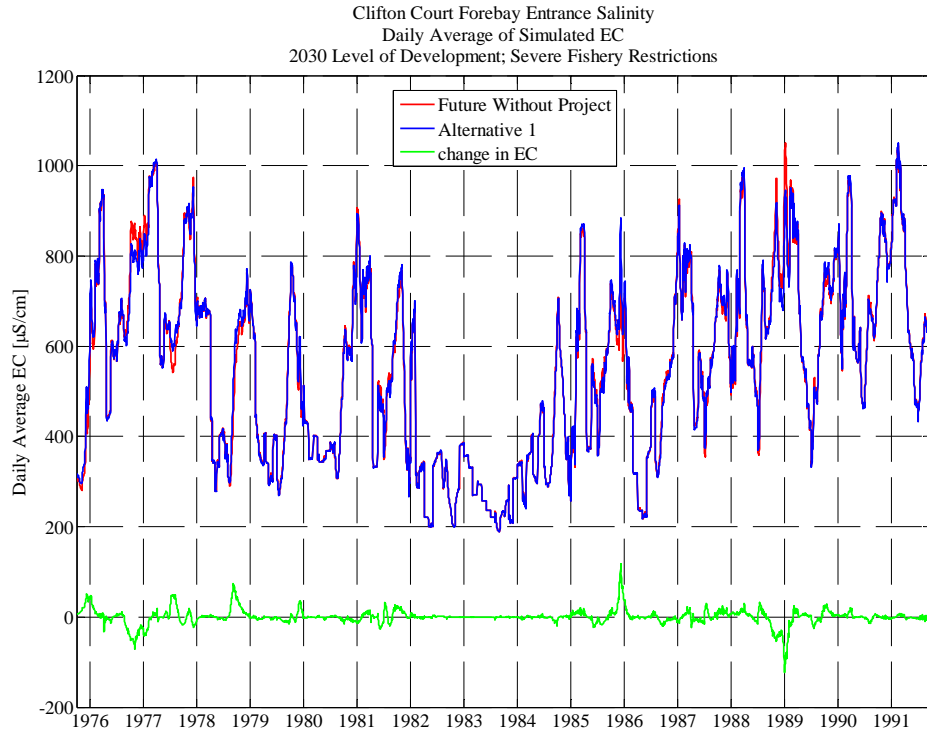


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**Alternative 2**

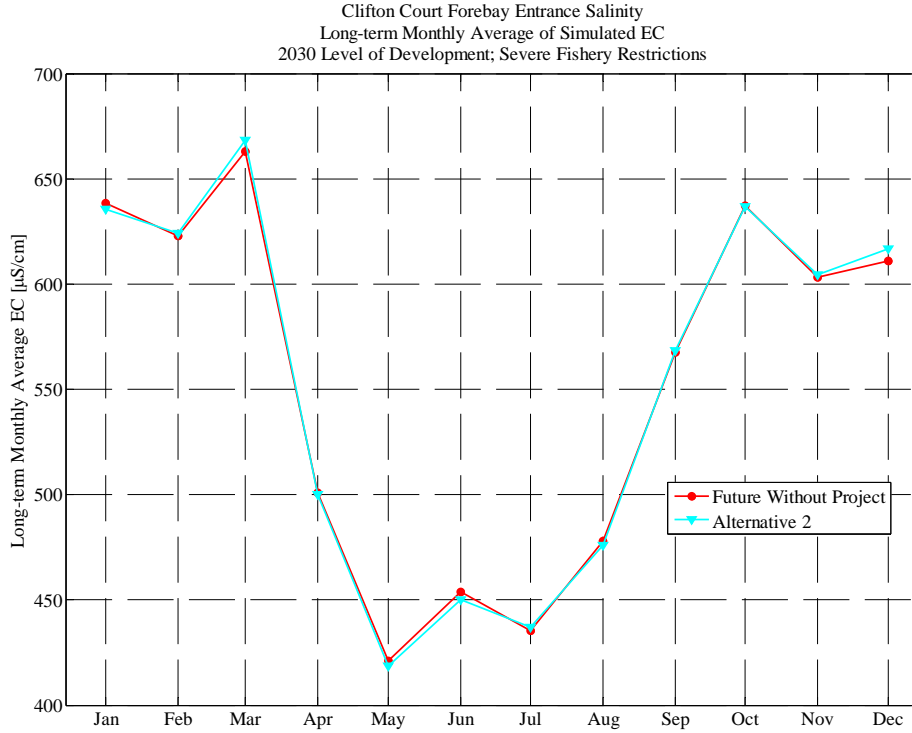
**Clifton Court Forebay Entrance Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 2**

**2030 Level of Development; Severe Fishery Restrictions**

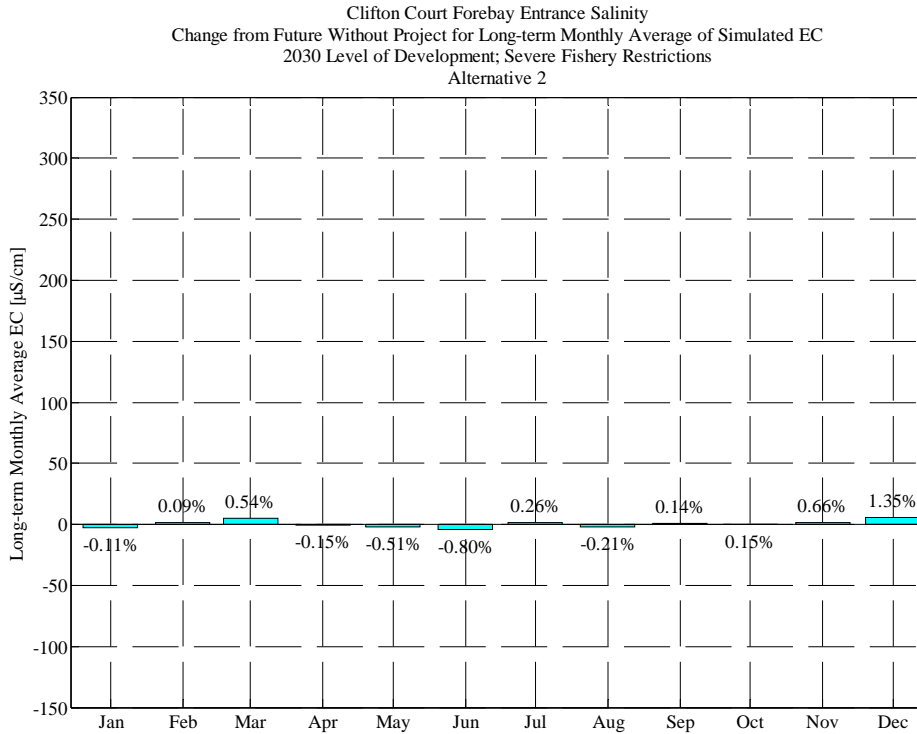
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	307	334	512	672	757	904	623	500	587	643	654	647
1977	801	788	803	828	945	1,001	738	596	640	564	616	725
1978	885	880	804	694	688	678	403	309	403	373	342	575
1979	662	671	704	655	423	348	371	302	388	289	366	567
1980	747	605	525	436	355	399	351	347	367	378	324	471
1981	604	595	754	775	720	764	502	403	467	446	518	630
1982	745	578	336	628	318	330	225	203	339	364	313	284
1983	210	269	379	358	332	272	294	258	236	221	201	226
1984	247	217	305	339	261	353	357	344	460	305	326	522
1985	624	453	342	397	627	848	552	443	495	428	537	634
1986	710	652	727	597	470	322	239	223	356	486	329	429
1987	522	558	718	783	769	800	594	481	521	458	551	649
1988	736	692	646	564	704	962	683	569	508	506	699	648
1989	770	809	731	844	915	869	671	544	444	423	540	701
1990	771	724	799	700	705	938	673	585	500	591	666	674
1991	846	848	781	901	995	901	726	592	488	514	635	711
<b>Avg</b>	637	605	617	636	624	668	500	419	450	437	476	568
<b>W/AN/BN</b>	601	553	540	529	407	386	320	284	364	345	315	439
<b>D/C</b>	665	644	676	718	793	888	640	524	517	508	602	669

**Percent (%) Change from Future Without Project for Clifton Court Forebay Entrance  
(Alternative 2 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

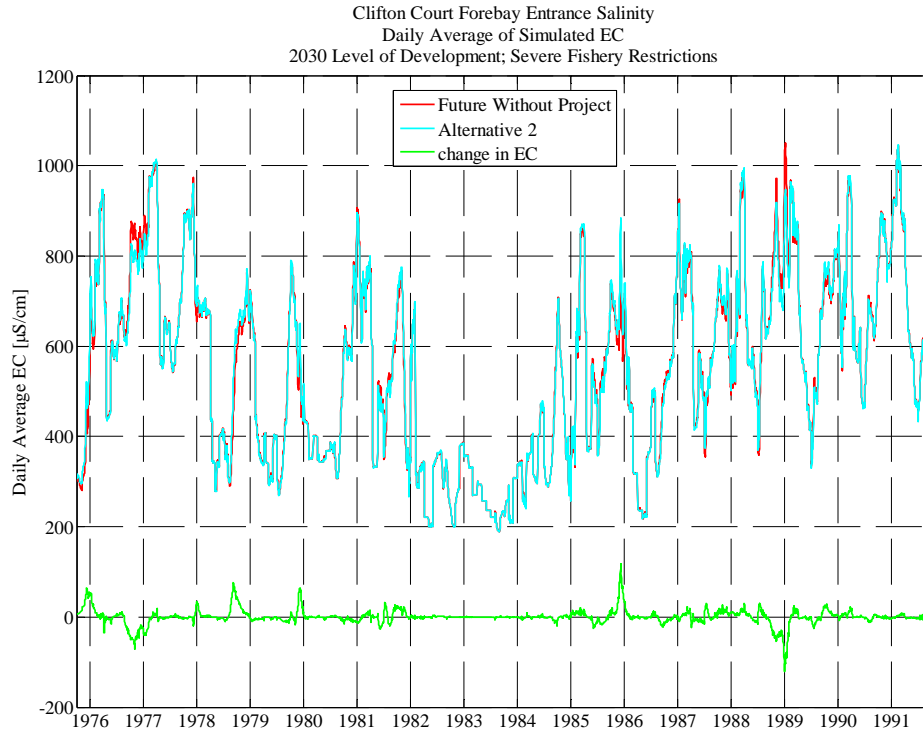
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	2.7%	7.9%	11.3%	5.2%	0.9%	0.3%	-1.8%	-1.4%	0.2%	0.9%	-0.1%	-4.6%
1977	-6.0%	-5.1%	-3.1%	-4.0%	-0.7%	0.5%	-0.2%	-0.5%	-0.2%	0.3%	0.3%	-0.4%
1978	-0.3%	0.0%	0.4%	2.2%	0.1%	0.3%	0.2%	-0.6%	-0.6%	-1.6%	6.4%	11.5%
1979	5.0%	2.1%	0.6%	-0.9%	-1.1%	-1.0%	-0.3%	-0.7%	-0.4%	-1.2%	-2.4%	-1.5%
1980	0.2%	2.1%	7.7%	-0.4%	0.0%	-0.1%	0.1%	-0.7%	-0.2%	0.3%	0.3%	-1.1%
1981	-1.0%	-1.0%	-1.1%	-1.1%	0.4%	1.1%	-0.3%	-0.9%	-3.9%	3.6%	-2.2%	3.1%
1982	2.8%	2.4%	-0.1%	0.0%	-0.4%	-0.5%	0.0%	-0.1%	0.5%	0.4%	0.2%	-0.2%
1983	-0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.4%	0.1%
1984	-0.1%	-0.3%	0.0%	-0.3%	-1.3%	0.5%	-0.2%	0.2%	0.5%	-0.4%	-0.3%	-1.7%
1985	-0.1%	0.3%	0.3%	1.7%	1.4%	1.2%	0.6%	-0.8%	-3.3%	-2.2%	-2.2%	0.3%
1986	1.4%	5.1%	10.7%	2.3%	-0.3%	0.0%	-0.1%	-0.7%	-0.5%	1.3%	-0.4%	-3.9%
1987	-2.0%	-0.8%	0.2%	-0.4%	0.7%	1.4%	-1.5%	-1.5%	-1.7%	3.9%	-0.6%	0.3%
1988	1.4%	1.9%	1.3%	1.6%	0.8%	1.5%	1.2%	-0.1%	-2.0%	3.7%	0.5%	-1.1%
1989	-4.4%	-5.0%	-6.7%	-7.5%	0.0%	1.7%	-0.1%	-0.3%	-0.6%	-3.6%	-0.9%	1.3%
1990	2.8%	1.0%	0.6%	0.0%	0.8%	1.1%	0.4%	0.0%	0.1%	-0.7%	-1.1%	0.6%
1991	0.0%	-0.2%	-0.4%	-0.1%	0.2%	0.6%	-0.3%	-0.2%	-0.5%	-0.5%	-0.5%	-0.6%
<b>Avg</b>	0.1%	0.7%	1.4%	-0.1%	0.1%	0.5%	-0.2%	-0.5%	-0.8%	0.3%	-0.2%	0.1%
<b>W/AN/BN</b>	1.3%	1.6%	2.7%	0.4%	-0.4%	-0.1%	-0.1%	-0.4%	-0.1%	-0.2%	0.5%	0.5%
<b>D/C</b>	-0.7%	-0.1%	0.3%	-0.5%	0.5%	1.0%	-0.2%	-0.6%	-1.3%	0.6%	-0.7%	-0.1%



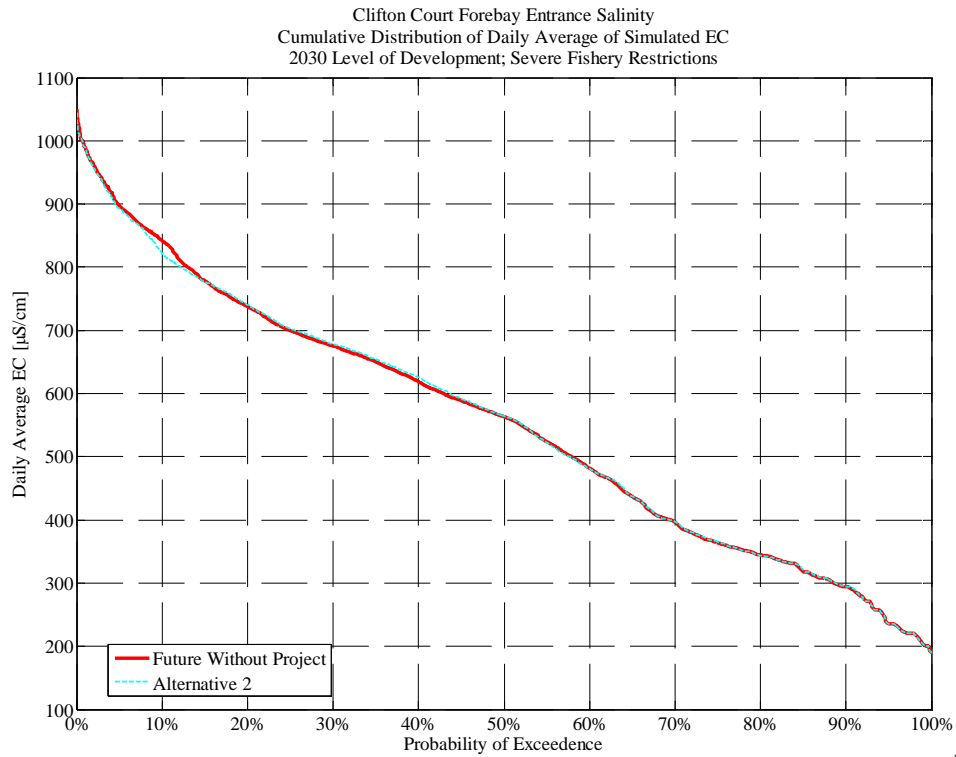
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04-Nov-2008 DS



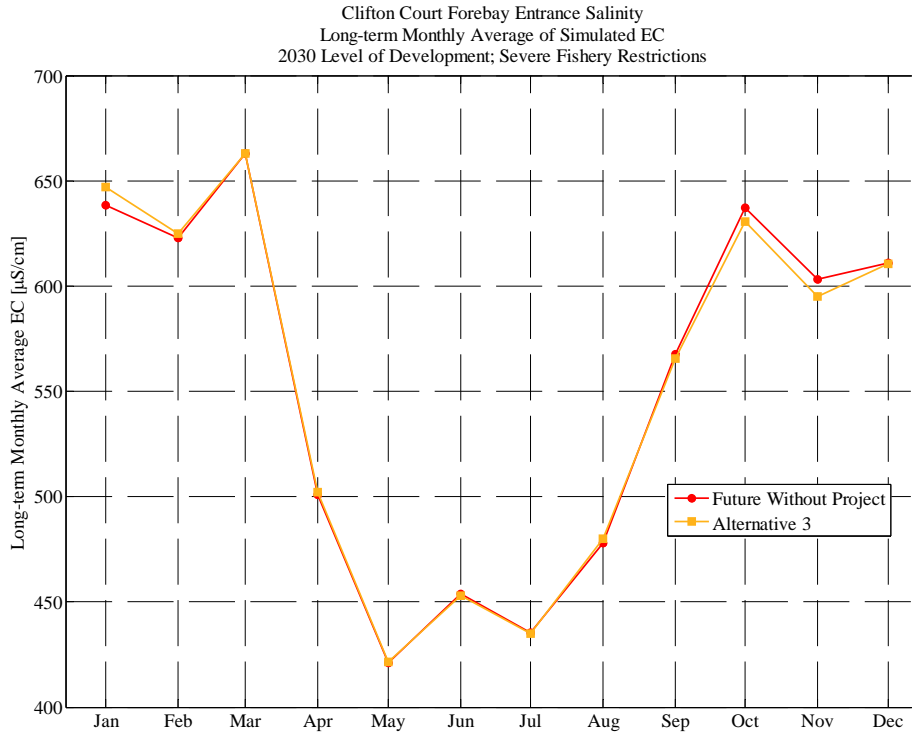
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05-Nov-2008 DS

**Alternative 3****Clifton Court Forebay Entrance Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 3****2030 Level of Development; Severe Fishery Restrictions**

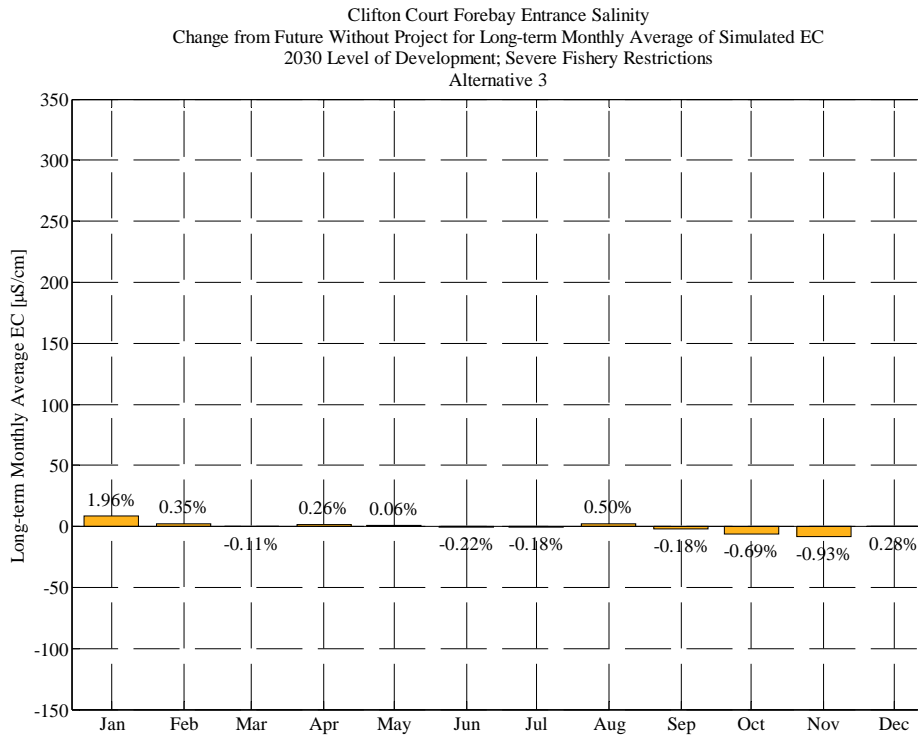
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	300	310	461	639	750	901	634	509	589	619	637	627
1977	777	768	790	824	933	993	739	600	642	605	639	717
1978	885	885	783	675	687	676	404	309	403	376	337	568
1979	669	671	704	663	426	349	371	302	384	288	368	572
1980	749	595	490	440	355	399	350	349	368	377	323	479
1981	612	602	766	787	718	756	503	405	478	420	526	606
1982	724	565	335	630	320	332	225	203	338	363	314	285
1983	210	269	379	358	331	272	294	258	236	221	202	225
1984	247	218	305	340	265	345	358	343	456	306	328	534
1985	629	458	342	390	618	838	549	446	501	426	544	625
1986	696	620	660	585	472	322	242	225	357	486	329	441
1987	532	562	709	780	800	801	607	489	539	430	568	637
1988	719	676	775	794	747	955	693	578	534	464	691	653
1989	766	796	731	867	884	848	672	551	441	467	562	699
1990	727	677	756	681	696	927	669	585	498	596	675	669
1991	847	851	786	902	993	894	728	593	485	515	640	715
<b>Avg</b>	631	595	611	647	625	663	502	422	453	435	480	566
<b>W/AN/BN</b>	597	546	522	527	408	385	321	284	363	345	314	443
<b>D/C</b>	656	633	679	740	793	879	644	528	523	505	609	661

**Percent (%) Change from Future Without Project for Clifton Court Forebay Entrance  
(Alternative 3 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

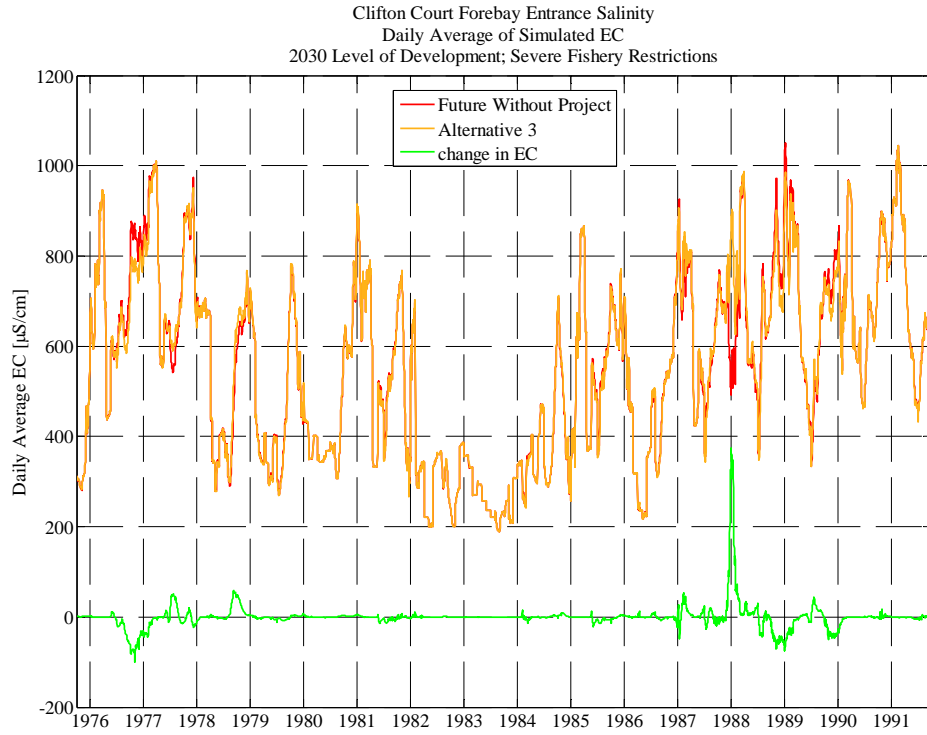
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.2%	0.2%	0.2%	0.0%	-0.1%	0.0%	0.0%	0.4%	0.4%	-2.8%	-2.7%	-7.5%
1977	-8.8%	-7.6%	-4.6%	-4.5%	-1.8%	-0.3%	-0.1%	0.2%	0.1%	7.5%	4.1%	-1.4%
1978	-0.4%	0.6%	-2.2%	-0.6%	0.0%	0.0%	0.5%	-0.5%	-0.6%	-0.8%	4.7%	10.1%
1979	6.1%	2.0%	0.6%	0.4%	-0.5%	-0.8%	0.0%	-0.6%	-1.3%	-1.5%	-2.0%	-0.8%
1980	0.4%	0.5%	0.7%	0.4%	0.0%	0.0%	0.0%	-0.2%	-0.2%	0.0%	0.1%	0.6%
1981	0.4%	0.2%	0.4%	0.5%	0.1%	0.0%	0.0%	-0.4%	-1.7%	-2.5%	-0.8%	-0.9%
1982	-0.1%	0.0%	-0.6%	0.2%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%
1983	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.1%	-2.0%	-0.1%	0.0%	-0.3%	-0.3%	0.3%	0.6%
1985	0.7%	1.4%	0.2%	0.0%	0.0%	0.0%	0.0%	-0.1%	-2.2%	-2.6%	-0.8%	-1.0%
1986	-0.6%	0.0%	0.6%	0.3%	0.0%	0.0%	1.2%	-0.2%	-0.1%	1.4%	-0.3%	-1.4%
1987	-0.2%	0.0%	-1.0%	-0.7%	4.9%	1.5%	0.5%	0.1%	1.7%	-2.4%	2.5%	-1.5%
1988	-0.9%	-0.4%	21.6%	43.1%	6.9%	0.7%	2.7%	1.5%	3.1%	-4.9%	-0.7%	-0.4%
1989	-4.9%	-6.4%	-6.6%	-5.0%	-3.4%	-0.9%	-0.1%	0.9%	-1.3%	6.3%	3.1%	1.0%
1990	-3.0%	-5.6%	-4.9%	-2.8%	-0.5%	-0.1%	-0.1%	0.0%	-0.1%	0.1%	0.2%	-0.2%
1991	0.0%	0.2%	0.2%	0.0%	-0.1%	-0.1%	-0.1%	-0.2%	-0.9%	-0.3%	0.2%	-0.2%
<b>Avg</b>	-0.7%	-0.9%	0.3%	2.0%	0.4%	-0.1%	0.3%	0.1%	-0.2%	-0.2%	0.5%	-0.2%
<b>W/AN/BN</b>	0.8%	0.5%	-0.1%	0.1%	0.0%	-0.4%	0.2%	-0.2%	-0.4%	-0.2%	0.4%	1.3%
<b>D/C</b>	-1.8%	-2.0%	0.6%	3.4%	0.7%	0.1%	0.3%	0.3%	-0.1%	-0.2%	0.6%	-1.3%



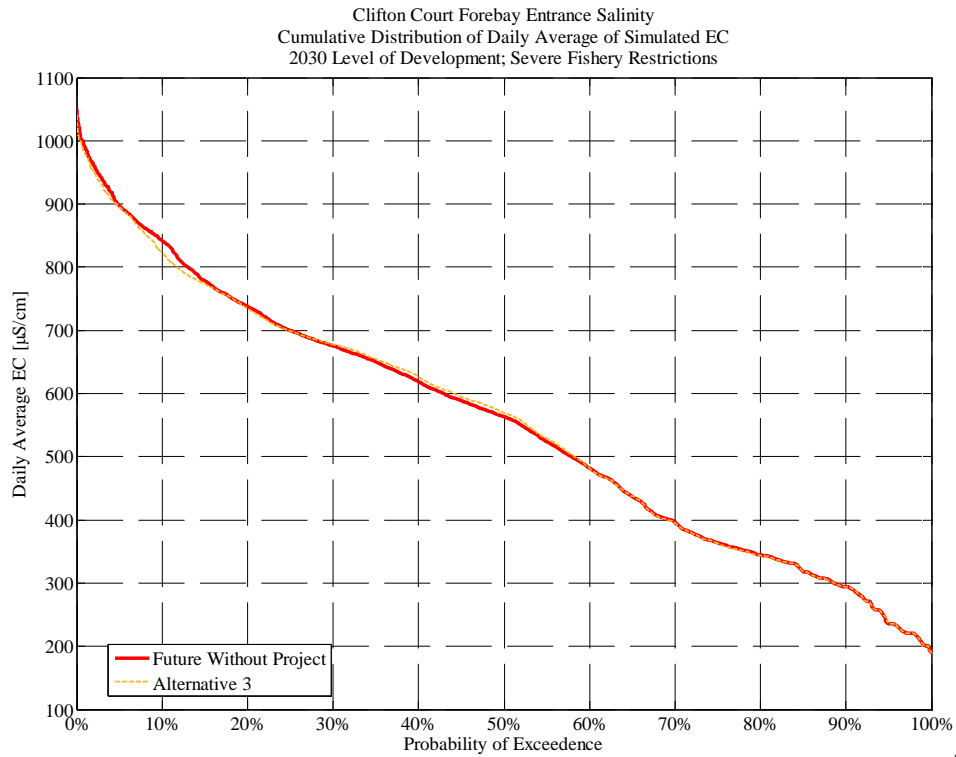
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04-Nov-2008 DS



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**Alternative 4**

**Clifton Court Forebay Entrance Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 4**

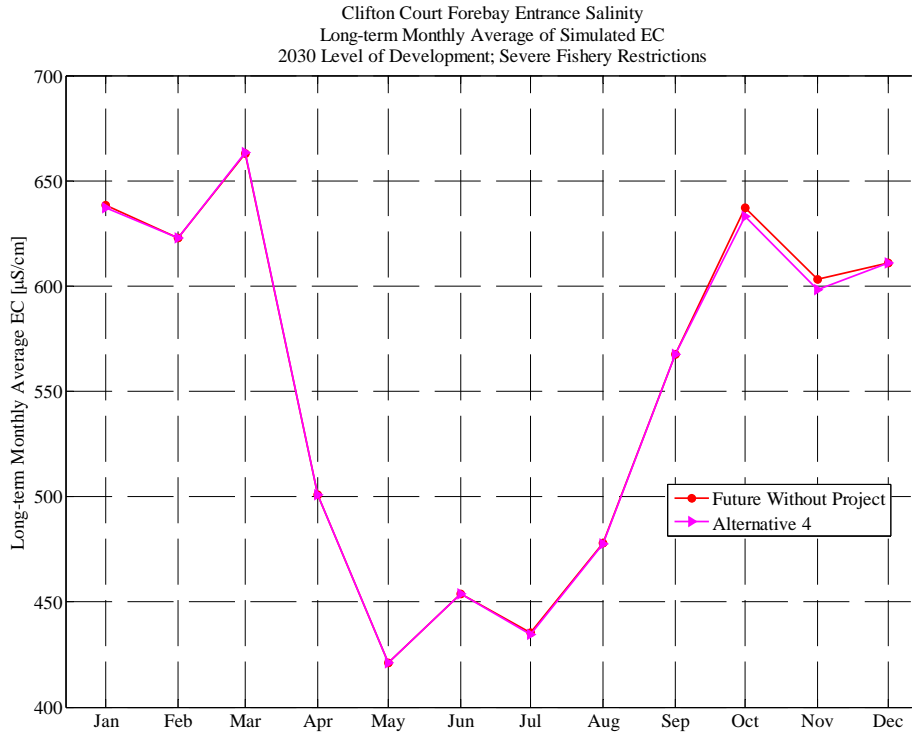
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	299	309	461	639	750	901	634	507	586	636	645	642
1977	790	773	794	832	945	994	738	598	641	563	614	728
1978	888	880	801	679	687	676	403	310	406	379	322	515
1979	630	657	700	661	428	351	372	304	389	292	378	593
1980	750	584	485	436	355	399	350	349	368	377	326	491
1981	617	603	764	786	719	756	503	407	486	432	532	613
1982	728	567	337	628	319	332	225	203	338	363	313	285
1983	210	269	379	358	332	272	294	258	236	221	202	225
1984	247	218	305	340	265	352	358	343	458	307	327	531
1985	625	451	341	390	618	838	549	447	512	438	550	633
1986	700	644	718	597	472	322	239	225	358	480	331	455
1987	544	570	722	789	764	790	604	489	530	440	554	647
1988	726	679	638	557	700	948	677	572	521	488	692	641
1989	757	799	753	898	914	854	670	544	445	429	545	694
1990	768	724	797	701	700	928	669	585	497	593	671	676
1991	849	849	782	901	996	897	729	594	490	516	638	716
<b>Avg</b>	633	598	611	637	623	663	501	421	454	435	478	568
<b>W/AN/BN</b>	594	546	532	528	408	386	320	285	365	346	314	442
<b>D/C</b>	664	640	673	721	790	878	642	527	523	504	605	665

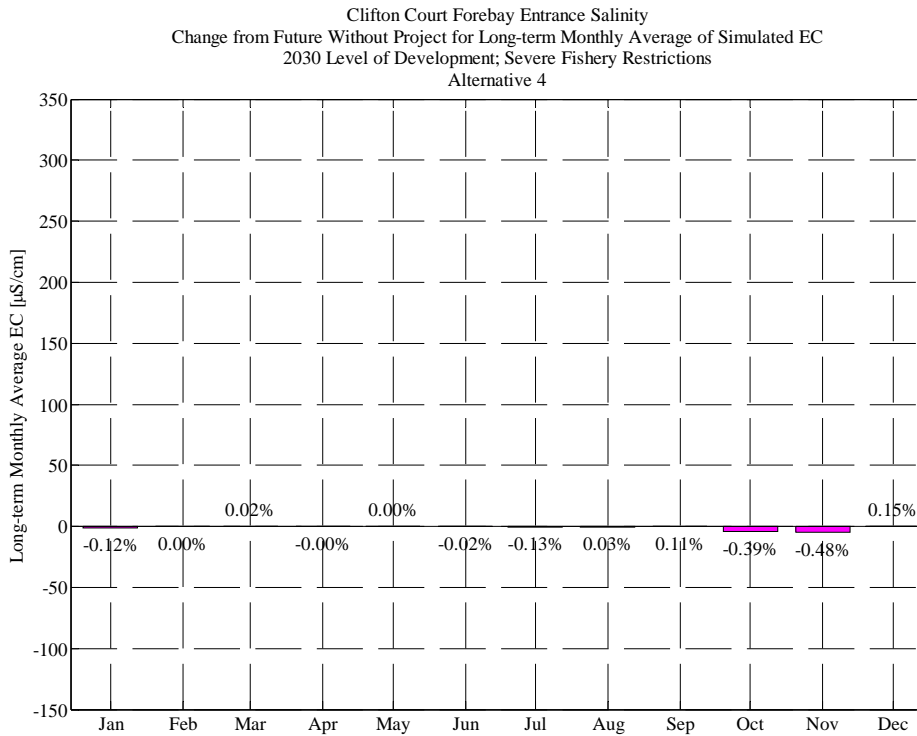
**Percent (%) Change from Future Without Project for Clifton Court Forebay Entrance  
(Alternative 4 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-1.5%	-5.3%
1977	-7.3%	-6.9%	-4.1%	-3.5%	-0.6%	-0.1%	-0.3%	-0.1%	-0.1%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	-0.1%
1979	0.0%	-0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	2.9%
1980	0.6%	-1.3%	-0.4%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	3.1%
1981	1.3%	0.4%	0.2%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.4%	0.4%
1982	0.4%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
1985	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.1%
1986	0.1%	3.8%	9.4%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.3%	1.8%
1987	2.1%	1.4%	0.8%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.1%	0.4%	0.3%	0.0%	0.4%	0.5%	0.7%	0.0%	-0.5%	-2.2%
1989	-6.0%	-6.2%	-3.7%	-1.6%	-0.1%	-0.1%	-0.3%	-0.3%	-0.5%	-2.4%	0.0%	0.3%
1990	2.4%	1.0%	0.3%	0.1%	0.0%	0.0%	-0.1%	-0.1%	-0.4%	-0.3%	-0.4%	0.8%
1991	0.3%	-0.1%	-0.3%	-0.2%	0.2%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.4%	-0.5%	0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.1%
<b>W/AN/BN</b>	0.2%	0.4%	1.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	1.1%
<b>D/C</b>	-0.8%	-1.2%	-0.7%	-0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	-0.2%	-0.7%

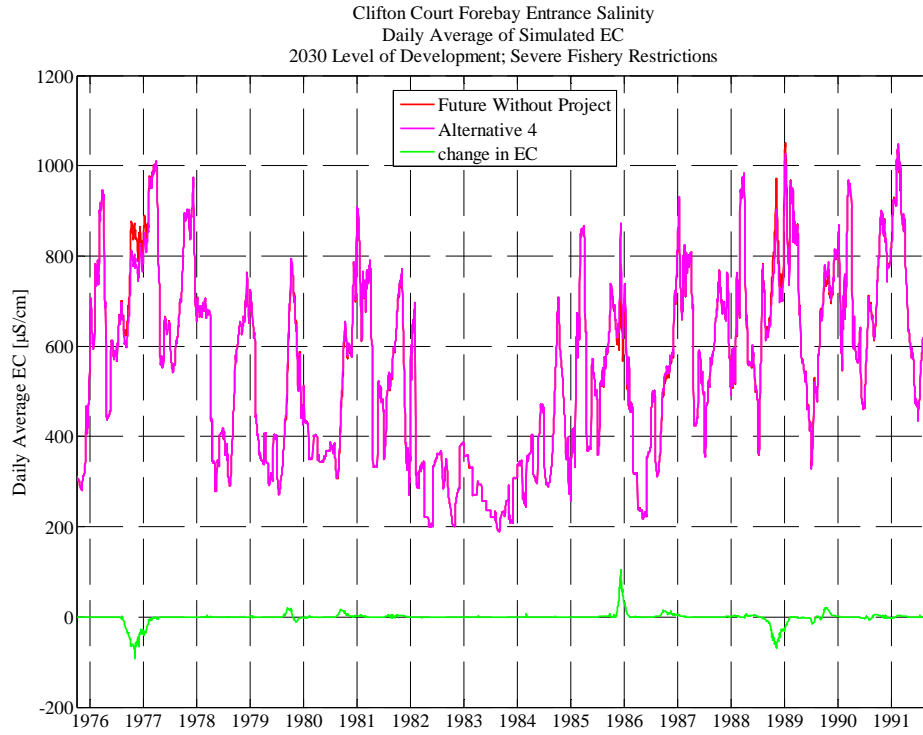




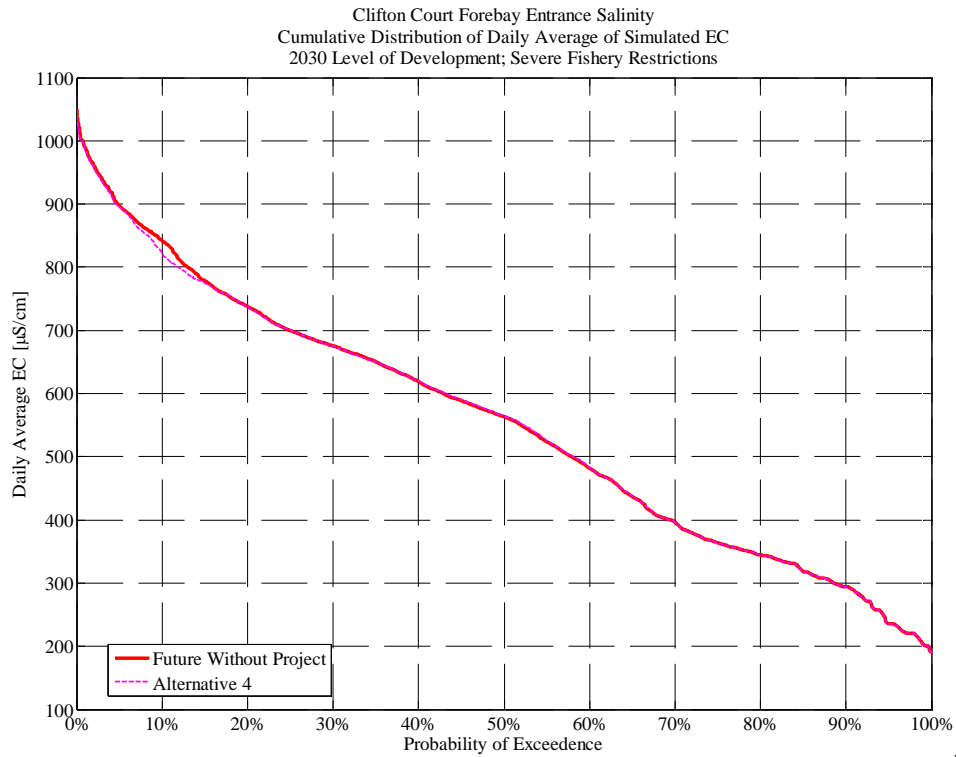
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04-Nov-2008 DS



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## Jones Pumping Plant

### *Future Without Project*

**Jones Pumping Plant Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	317	329	526	661	775	963	681	517	631	641	642	663
1977	817	813	821	859	970	1,022	777	595	659	573	619	716
1978	863	855	806	703	712	691	398	316	417	417	362	500
1979	625	644	702	670	417	349	383	311	410	329	391	575
1980	725	591	550	448	393	403	359	359	376	407	357	485
1981	600	594	749	780	743	811	541	423	536	449	538	610
1982	717	577	438	665	319	353	231	212	349	379	319	277
1983	212	279	383	415	359	305	307	265	252	230	197	235
1984	262	217	327	342	257	358	384	365	486	333	346	515
1985	602	463	429	462	649	860	586	461	557	458	552	629
1986	701	621	678	619	533	347	249	232	369	481	367	453
1987	527	554	709	784	798	846	643	498	597	462	563	642
1988	722	683	658	592	763	996	723	586	586	509	701	654
1989	786	832	779	910	974	926	711	563	517	456	551	670
1990	742	722	795	725	742	988	734	606	558	603	668	665
1991	825	833	787	903	1,023	931	747	608	542	533	641	706
<b>Avg</b>	628	600	633	659	652	697	528	432	490	454	488	562
<b>W/AN/BN</b>	586	541	555	552	427	401	330	294	380	368	334	434
<b>D/C</b>	660	647	695	742	826	927	683	540	576	520	609	661

**Alternative 1**

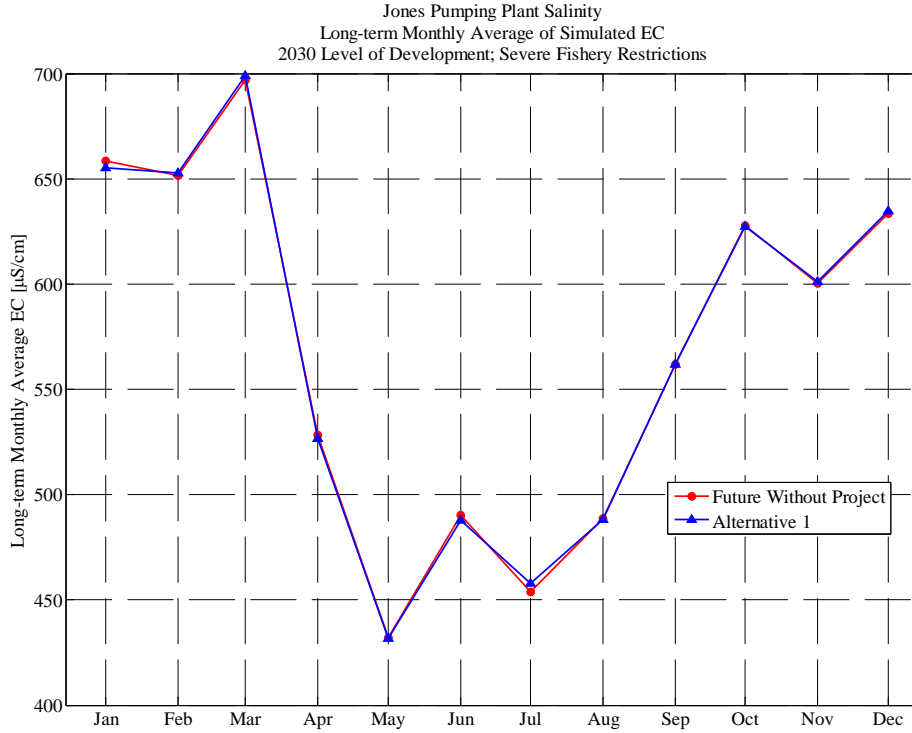
**Jones Pumping Plant Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )  
Alternative 1**

**2030 Level of Development; Severe Fishery Restrictions**

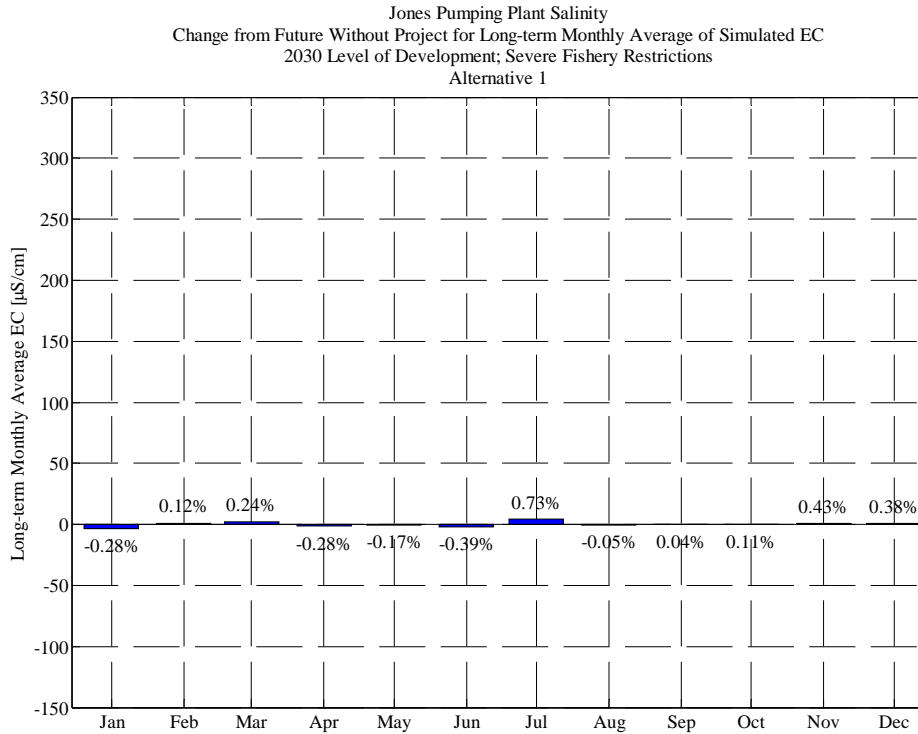
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	324	348	557	684	781	963	669	513	630	646	642	637
1977	772	776	799	829	967	1,022	777	595	663	613	642	705
1978	857	861	792	701	713	693	399	315	416	414	377	539
1979	654	657	705	669	414	347	383	310	410	327	383	568
1980	725	595	563	447	392	404	359	359	376	407	357	483
1981	595	589	742	774	750	819	535	421	522	464	529	626
1982	735	586	437	669	318	352	231	212	350	380	319	277
1983	212	279	383	415	359	305	308	266	252	231	197	235
1984	261	217	327	341	255	358	380	365	487	332	345	510
1985	601	464	429	465	659	861	586	459	544	449	542	631
1986	710	649	732	632	533	346	249	231	369	488	366	443
1987	519	550	706	780	804	856	638	495	593	477	561	643
1988	731	694	662	598	770	999	721	587	582	527	706	647
1989	755	794	735	848	956	935	712	566	516	442	546	677
1990	762	729	799	727	747	989	735	606	558	600	661	668
1991	825	831	784	902	1,026	935	745	606	539	529	637	701
<b>Avg</b>	627	601	635	655	653	699	527	432	488	458	488	562
<b>W/AN/BN</b>	594	549	563	554	426	401	330	294	380	368	335	436
<b>D/C</b>	654	642	690	734	829	931	680	539	572	527	607	659

**Percent (%) Change from Future Without Project for Jones Pumping Plant Salinity  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

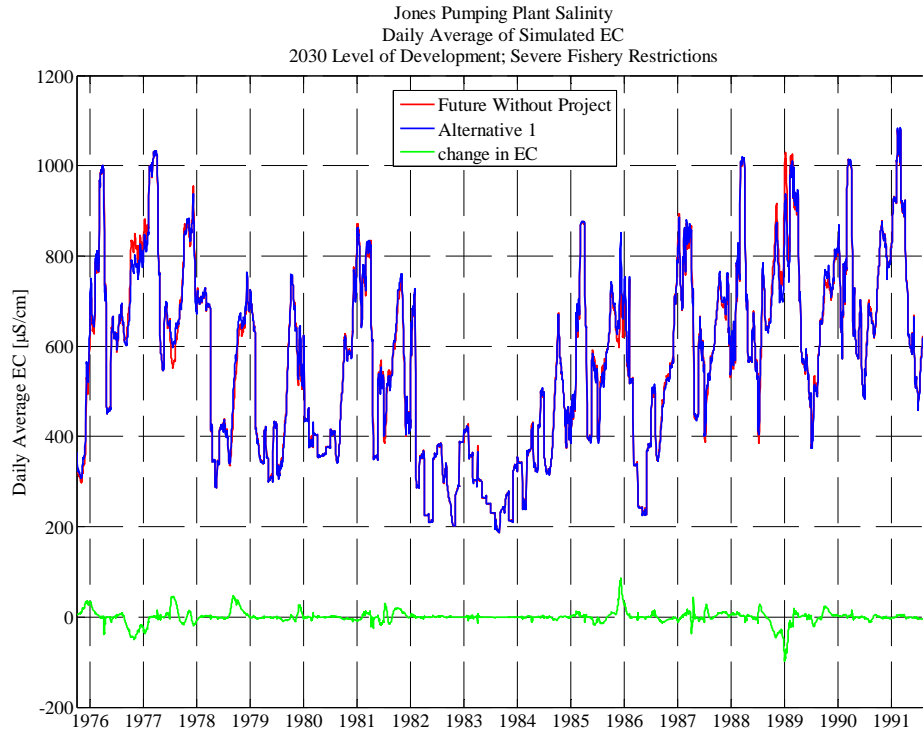
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	2.2%	5.7%	6.0%	3.4%	0.8%	0.0%	-1.7%	-0.7%	-0.2%	0.8%	0.1%	-3.9%
1977	-5.5%	-4.6%	-2.7%	-3.5%	-0.2%	0.0%	0.0%	0.1%	0.6%	6.9%	3.6%	-1.5%
1978	-0.7%	0.7%	-1.8%	-0.3%	0.1%	0.3%	0.1%	-0.3%	-0.4%	-0.7%	4.2%	7.9%
1979	4.6%	2.0%	0.5%	-0.1%	-0.6%	-0.5%	-0.1%	-0.3%	-0.1%	-0.8%	-2.1%	-1.1%
1980	0.0%	0.7%	2.4%	-0.2%	-0.3%	0.3%	0.0%	-0.1%	-0.1%	0.1%	0.1%	-0.6%
1981	-0.7%	-0.8%	-0.9%	-0.8%	0.9%	1.0%	-1.1%	-0.3%	-2.5%	3.3%	-1.8%	2.5%
1982	2.6%	1.6%	-0.1%	0.5%	-0.1%	-0.3%	0.0%	0.0%	0.3%	0.2%	0.1%	0.0%
1983	-0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.3%	0.1%	0.1%	0.1%	-0.1%	0.1%
1984	-0.1%	-0.1%	-0.1%	-0.2%	-0.7%	0.3%	-1.0%	0.0%	0.2%	-0.3%	-0.2%	-1.0%
1985	-0.1%	0.2%	0.0%	0.7%	1.6%	0.2%	0.0%	-0.4%	-2.4%	-1.9%	-1.9%	0.4%
1986	1.3%	4.4%	8.1%	2.1%	-0.1%	-0.2%	-0.2%	-0.4%	0.0%	1.4%	-0.4%	-2.2%
1987	-1.6%	-0.7%	-0.4%	-0.6%	0.7%	1.1%	-0.8%	-0.7%	-0.7%	3.4%	-0.4%	0.2%
1988	1.2%	1.6%	0.7%	1.1%	0.9%	0.2%	-0.2%	0.1%	-0.6%	3.5%	0.7%	-1.0%
1989	-4.0%	-4.5%	-5.7%	-6.8%	-1.8%	0.9%	0.2%	0.6%	0.0%	-3.1%	-0.9%	1.0%
1990	2.7%	1.0%	0.6%	0.3%	0.6%	0.1%	0.3%	-0.1%	0.1%	-0.6%	-1.1%	0.5%
1991	0.0%	-0.2%	-0.4%	-0.1%	0.3%	0.4%	-0.2%	-0.2%	-0.4%	-0.8%	-0.6%	-0.7%
<b>Avg</b>	0.1%	0.4%	0.4%	-0.3%	0.1%	0.2%	-0.3%	-0.2%	-0.4%	0.7%	-0.1%	0.0%
<b>W/AN/BN</b>	1.1%	1.3%	1.3%	0.3%	-0.3%	0.0%	-0.1%	-0.2%	0.0%	0.0%	0.2%	0.5%
<b>D/C</b>	-0.7%	-0.3%	-0.3%	-0.7%	0.4%	0.5%	-0.4%	-0.2%	-0.7%	1.3%	-0.3%	-0.3%



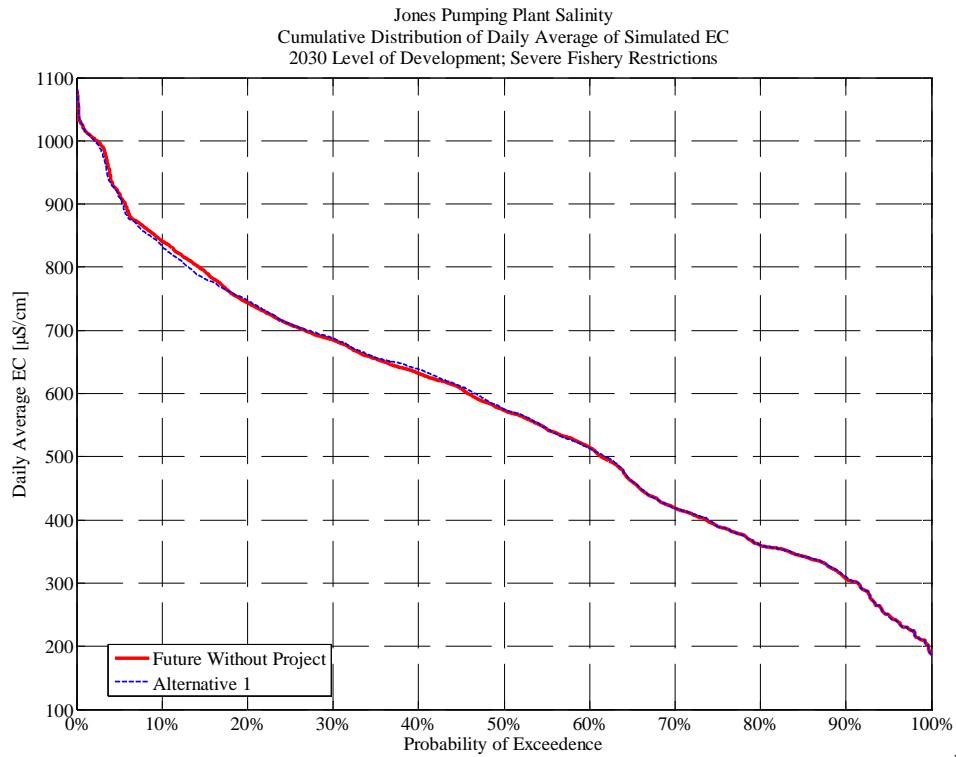
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04-Nov-2008 DS



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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



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05-Nov-2008 DS

**Alternative 2**

**Jones Pumping Plant Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )  
Alternative 2**

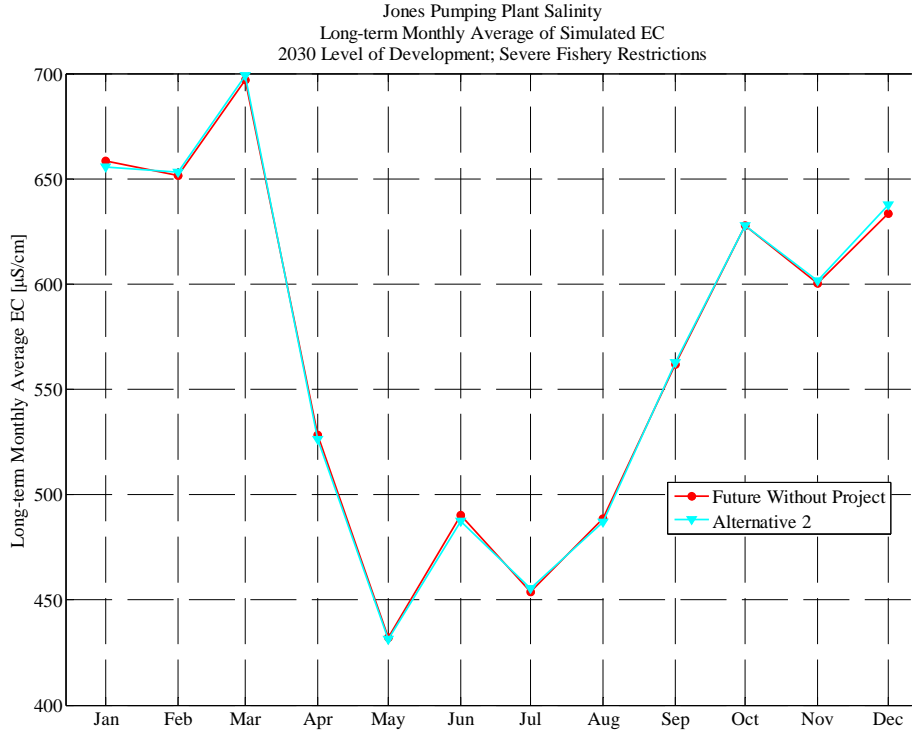
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	324	350	564	687	781	963	669	513	630	646	643	637
1977	772	776	799	829	967	1,022	777	593	658	575	620	714
1978	860	855	808	716	713	693	399	315	416	413	377	540
1979	654	658	705	666	413	347	382	310	410	327	383	569
1980	726	601	578	447	393	404	358	359	376	407	357	483
1981	595	589	742	773	747	819	535	421	522	464	529	626
1982	735	589	438	666	318	352	231	212	350	380	319	277
1983	212	279	383	415	360	305	307	266	252	231	197	235
1984	261	217	327	341	255	359	380	365	487	332	345	510
1985	601	464	429	465	657	861	586	459	544	449	542	631
1986	710	649	732	630	533	346	249	231	368	487	365	442
1987	518	551	711	782	804	856	638	495	593	478	561	643
1988	731	695	665	599	768	998	721	586	581	526	705	648
1989	756	794	735	849	971	936	711	562	512	442	547	678
1990	762	729	799	724	748	989	736	606	558	600	661	667
1991	824	832	784	902	1,023	936	746	607	540	530	638	702
<b>Avg</b>	628	602	637	656	653	699	526	431	487	455	487	562
<b>W/AN/BN</b>	594	550	567	554	426	401	329	294	380	368	335	436
<b>D/C</b>	654	642	692	734	830	931	680	538	571	523	605	661

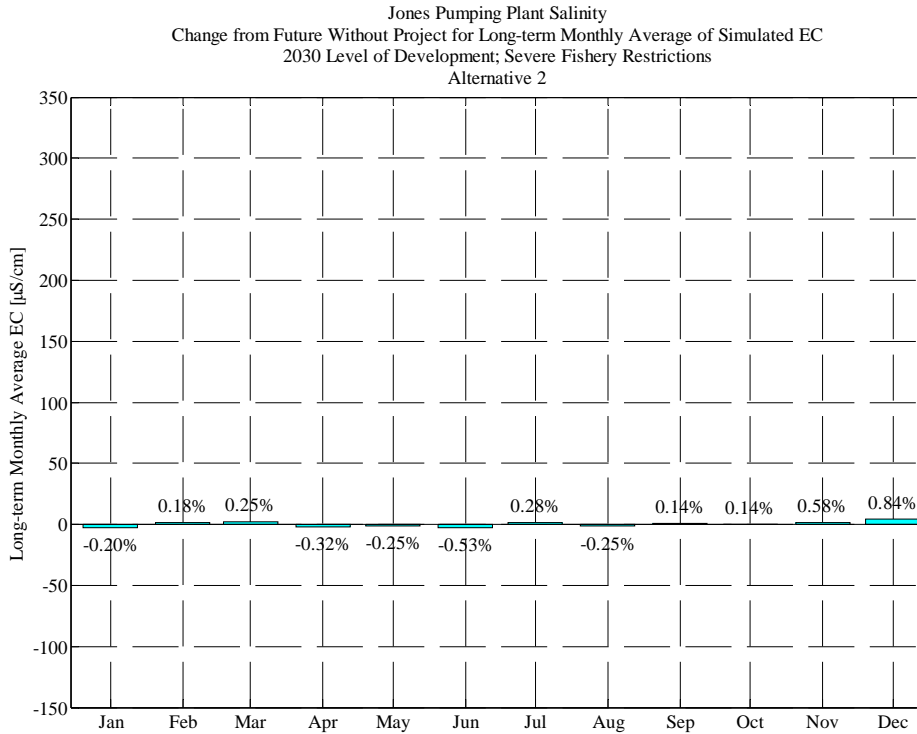
**Percent (%) Change from Future Without Project for Jones Pumping Plant Salinity  
(Alternative 2 - Future Without Project) / Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	2.2%	6.5%	7.3%	3.9%	0.8%	0.0%	-1.8%	-0.7%	-0.2%	0.8%	0.1%	-3.8%
1977	-5.4%	-4.6%	-2.7%	-3.5%	-0.2%	0.0%	-0.1%	-0.2%	-0.2%	0.3%	0.1%	-0.3%
1978	-0.3%	0.0%	0.3%	1.8%	0.1%	0.3%	0.1%	-0.3%	-0.4%	-1.1%	4.2%	8.0%
1979	4.7%	2.1%	0.5%	-0.7%	-0.8%	-0.6%	-0.3%	-0.3%	-0.1%	-0.8%	-2.0%	-0.9%
1980	0.1%	1.7%	5.0%	-0.1%	0.0%	0.2%	0.0%	-0.2%	-0.1%	0.1%	0.1%	-0.6%
1981	-0.7%	-0.8%	-0.9%	-0.9%	0.6%	0.9%	-1.2%	-0.3%	-2.5%	3.3%	-1.8%	2.5%
1982	2.6%	2.2%	0.1%	0.0%	-0.2%	-0.3%	0.0%	0.0%	0.3%	0.2%	0.1%	0.0%
1983	-0.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.2%	0.1%	0.1%	0.1%	-0.1%	0.1%
1984	-0.1%	-0.1%	-0.1%	-0.2%	-0.8%	0.4%	-1.0%	0.0%	0.2%	-0.3%	-0.2%	-1.0%
1985	-0.1%	0.3%	0.0%	0.7%	1.3%	0.2%	-0.1%	-0.4%	-2.5%	-1.9%	-1.9%	0.4%
1986	1.3%	4.4%	8.1%	1.7%	-0.1%	-0.2%	-0.2%	-0.4%	-0.3%	1.4%	-0.5%	-2.4%
1987	-1.7%	-0.6%	0.2%	-0.3%	0.7%	1.1%	-0.8%	-0.7%	-0.8%	3.5%	-0.4%	0.2%
1988	1.2%	1.8%	1.1%	1.2%	0.7%	0.2%	-0.2%	-0.1%	-0.9%	3.3%	0.5%	-0.9%
1989	-3.9%	-4.5%	-5.7%	-6.7%	-0.3%	1.0%	0.0%	-0.2%	-1.0%	-3.2%	-0.8%	1.2%
1990	2.7%	1.0%	0.6%	-0.1%	0.8%	0.2%	0.3%	-0.1%	0.1%	-0.6%	-1.0%	0.4%
1991	0.0%	-0.1%	-0.3%	-0.1%	0.0%	0.5%	-0.1%	-0.2%	-0.4%	-0.7%	-0.6%	-0.6%
<b>Avg</b>	0.1%	0.6%	0.8%	-0.2%	0.2%	0.2%	-0.3%	-0.2%	-0.5%	0.3%	-0.3%	0.1%
<b>W/AN/BN</b>	1.2%	1.5%	2.0%	0.4%	-0.2%	0.0%	-0.2%	-0.2%	0.0%	-0.1%	0.2%	0.5%
<b>D/C</b>	-0.7%	-0.1%	0.0%	-0.6%	0.5%	0.5%	-0.4%	-0.3%	-0.9%	0.5%	-0.6%	-0.1%

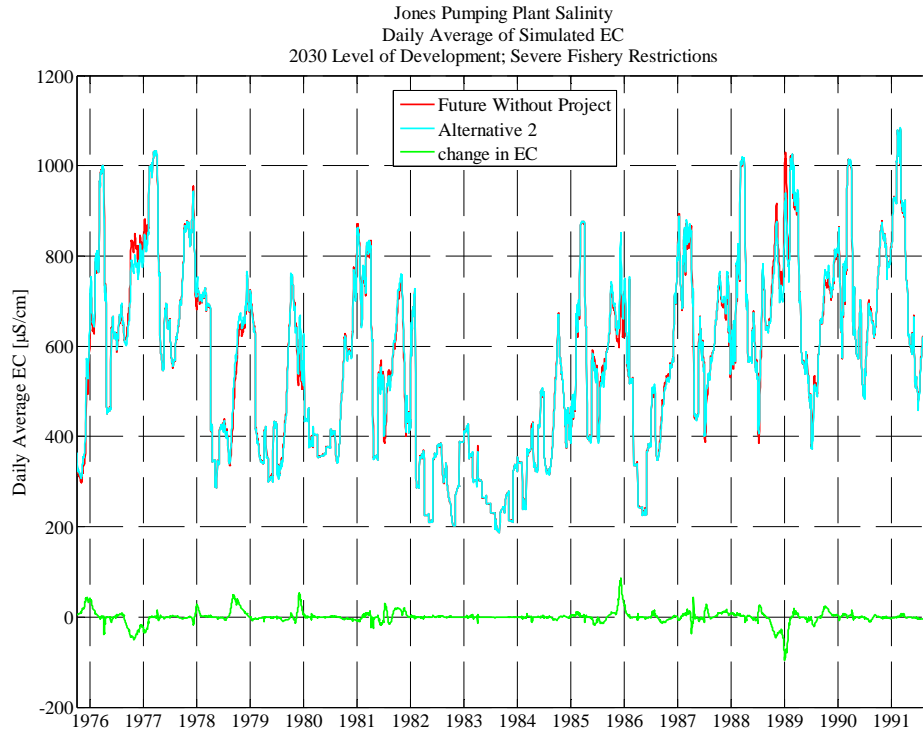


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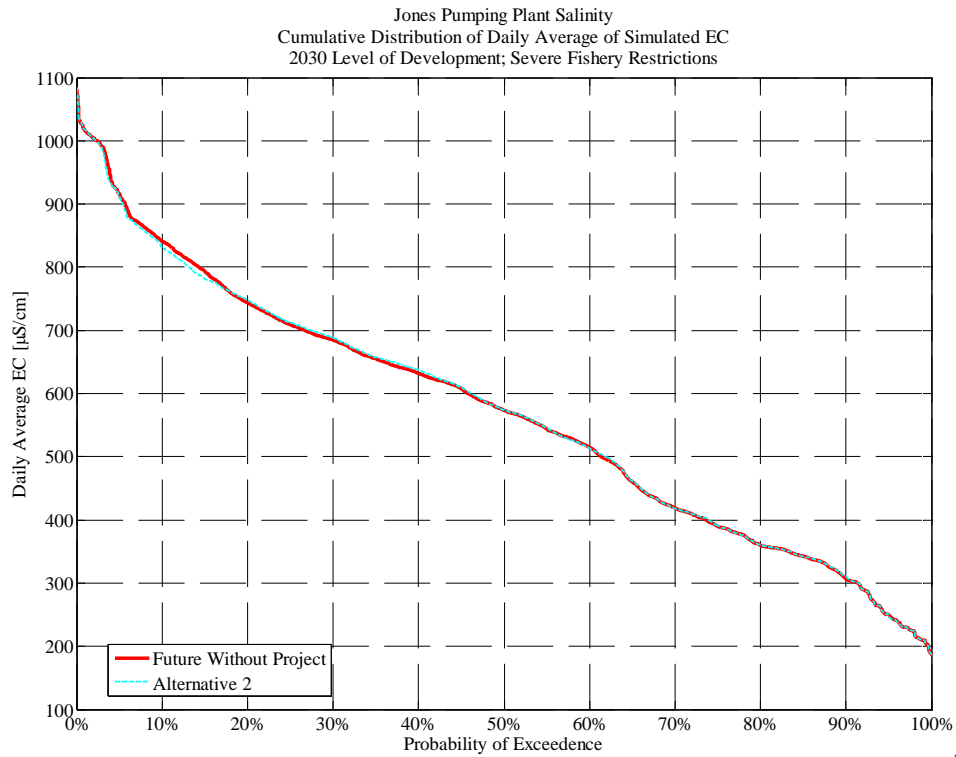


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04-Nov-2008 DS



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05-Nov-2008 DS

**Alternative 3**

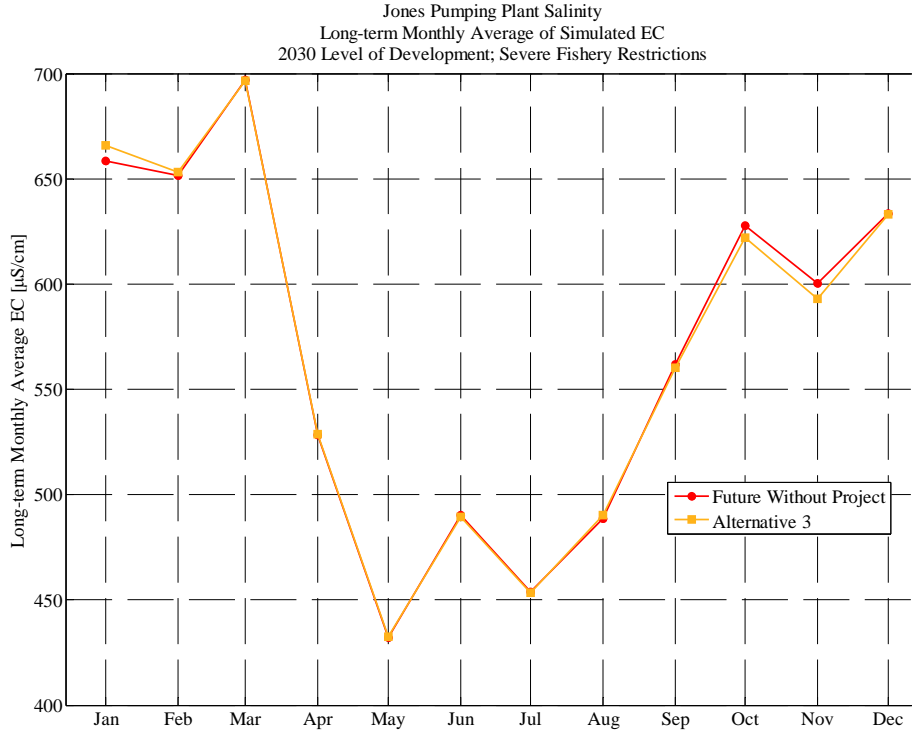
**Jones Pumping Plant Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 3**

**2030 Level of Development; Severe Fishery Restrictions**

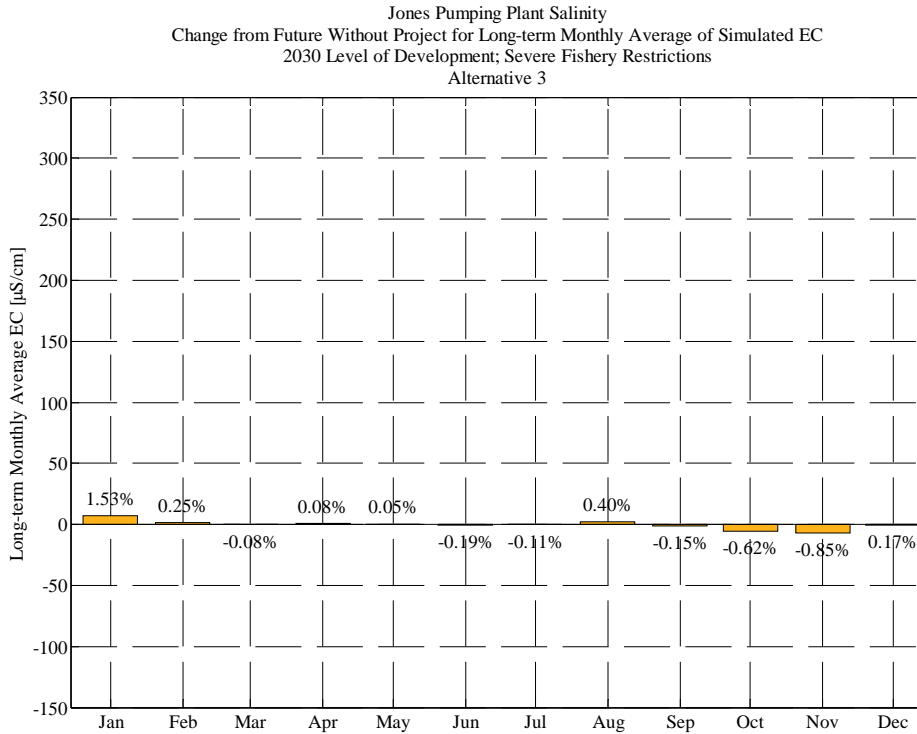
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	318	329	526	661	774	963	681	518	634	626	628	620
1977	750	757	787	825	964	1,021	777	595	662	612	643	708
1978	860	861	791	700	712	691	399	315	416	415	373	534
1979	660	657	705	672	415	347	383	310	408	325	384	571
1980	728	594	553	449	393	403	359	359	376	406	357	487
1981	602	595	751	783	743	811	541	422	530	439	534	606
1982	715	577	437	667	319	353	231	212	349	379	319	277
1983	212	279	383	415	358	306	307	265	252	230	197	235
1984	262	217	327	342	257	353	383	365	486	333	347	517
1985	606	468	430	462	649	860	586	462	549	447	548	623
1986	697	621	681	621	533	347	249	231	368	487	367	449
1987	526	554	703	778	828	853	645	498	600	452	575	641
1988	717	681	776	802	802	998	732	591	594	488	695	653
1989	753	782	735	869	943	922	710	566	516	482	566	677
1990	725	684	758	707	739	988	733	606	557	604	669	663
1991	822	835	788	903	1,022	930	746	607	533	532	642	705
<b>Avg</b>	622	593	633	666	653	697	529	433	489	454	490	560
<b>W/AN/BN</b>	591	544	554	552	427	400	330	294	379	368	335	439
<b>D/C</b>	647	632	695	754	829	927	684	541	575	520	611	655

**Percent (%) Change from Future Without Project for Jones Pumping Plant Salinity  
(Alternative 3 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

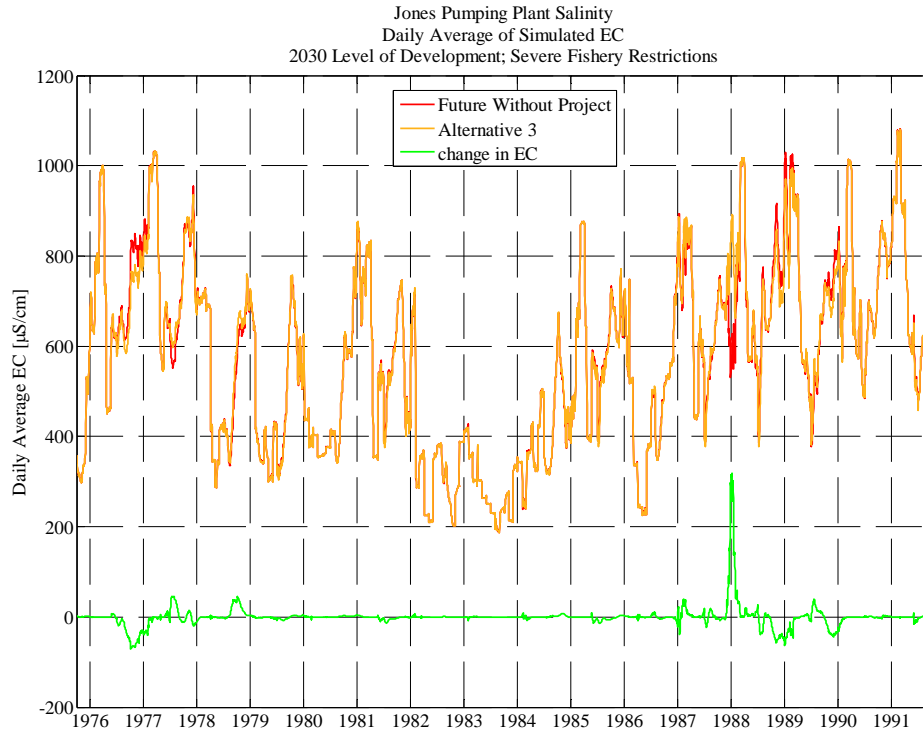
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.2%	0.2%	0.1%	0.0%	-0.1%	0.0%	0.0%	0.2%	0.4%	-2.4%	-2.1%	-6.4%
1977	-8.1%	-7.0%	-4.2%	-4.0%	-0.6%	-0.1%	-0.1%	0.0%	0.4%	6.7%	3.8%	-1.2%
1978	-0.4%	0.6%	-1.9%	-0.5%	0.0%	0.0%	0.1%	-0.2%	-0.4%	-0.5%	3.1%	7.0%
1979	5.6%	1.9%	0.5%	0.3%	-0.4%	-0.4%	0.0%	-0.3%	-0.6%	-1.2%	-1.7%	-0.6%
1980	0.3%	0.5%	0.5%	0.2%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.4%
1981	0.4%	0.2%	0.3%	0.4%	0.1%	0.0%	0.0%	-0.1%	-1.1%	-2.2%	-0.8%	-0.7%
1982	-0.2%	0.0%	-0.2%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
1983	-0.1%	0.0%	0.0%	-0.1%	-0.3%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.1%	-1.3%	0.0%	0.0%	-0.1%	-0.3%	0.3%	0.4%
1985	0.6%	1.3%	0.2%	0.0%	0.0%	0.0%	0.0%	0.1%	-1.5%	-2.3%	-0.7%	-0.9%
1986	-0.5%	0.0%	0.4%	0.2%	0.0%	-0.1%	-0.1%	-0.2%	-0.1%	1.3%	-0.1%	-0.9%
1987	-0.2%	0.0%	-0.9%	-0.8%	3.7%	0.8%	0.3%	0.1%	0.5%	-2.0%	2.1%	-0.2%
1988	-0.8%	-0.3%	18.0%	35.5%	5.1%	0.2%	1.3%	0.8%	1.4%	-4.1%	-0.8%	0.0%
1989	-4.3%	-6.0%	-5.7%	-4.5%	-3.2%	-0.5%	-0.1%	0.5%	-0.1%	5.6%	2.8%	1.0%
1990	-2.3%	-5.3%	-4.6%	-2.5%	-0.4%	0.0%	-0.1%	0.0%	-0.1%	0.1%	0.2%	-0.2%
1991	-0.3%	0.2%	0.2%	0.0%	-0.1%	-0.1%	-0.1%	-0.1%	-1.6%	-0.3%	0.2%	-0.1%
<b>Avg</b>	-0.6%	-0.9%	0.2%	1.5%	0.3%	-0.1%	0.1%	0.0%	-0.2%	-0.1%	0.4%	-0.1%
<b>W/AN/BN</b>	0.7%	0.4%	-0.1%	0.1%	-0.1%	-0.2%	0.0%	-0.1%	-0.2%	-0.1%	0.2%	0.9%
<b>D/C</b>	-1.6%	-1.9%	0.4%	2.7%	0.5%	0.0%	0.1%	0.2%	-0.2%	-0.1%	0.5%	-1.0%



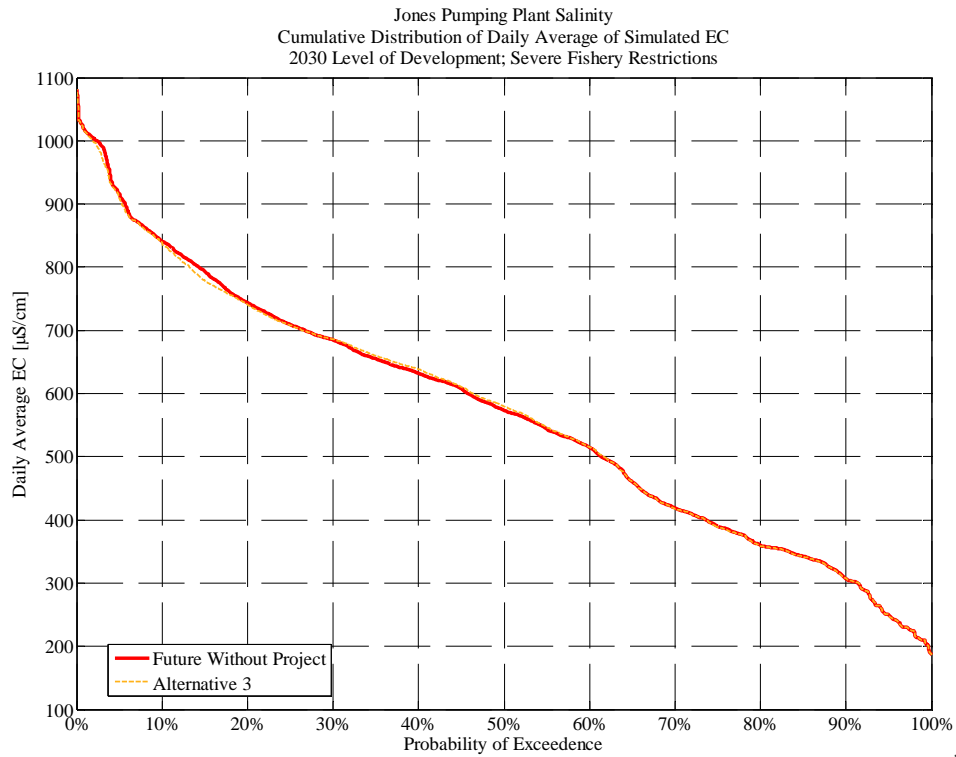
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04-Nov-2008 DS



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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 4**

**Jones Pumping Plant Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Alternative 4**

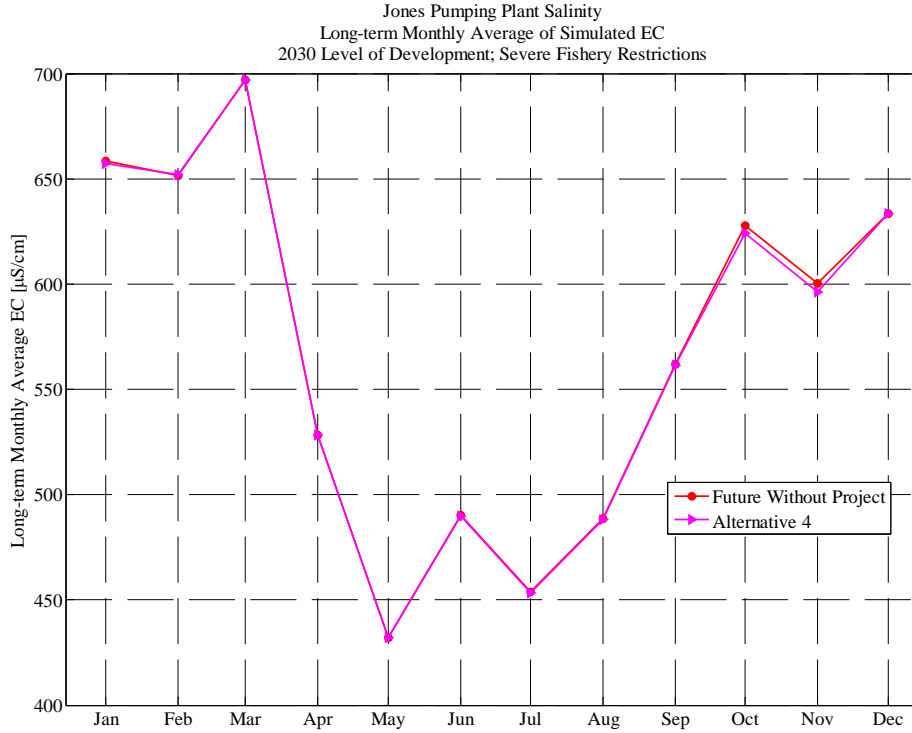
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	317	329	526	661	775	963	681	517	631	641	635	633
1977	762	762	790	833	968	1,022	776	594	659	573	620	716
1978	863	855	806	704	712	691	398	316	417	417	362	499
1979	625	644	702	670	417	349	383	311	410	329	394	587
1980	729	584	549	447	393	403	358	359	376	407	359	495
1981	606	596	750	782	744	811	541	423	536	450	540	612
1982	720	579	438	665	319	353	231	212	349	379	319	277
1983	212	279	383	415	359	305	307	265	252	230	197	235
1984	262	217	327	342	257	358	383	365	486	334	346	515
1985	602	462	429	462	649	860	586	461	557	458	553	629
1986	701	641	726	631	533	347	249	232	369	481	368	458
1987	537	561	714	787	799	846	643	498	597	462	563	642
1988	722	683	658	594	764	996	724	588	588	509	698	641
1989	744	784	754	897	973	926	709	562	515	446	551	672
1990	758	729	796	725	742	988	733	606	556	602	665	669
1991	827	832	785	902	1,025	932	747	608	542	533	641	706
<b>Avg</b>	624	596	633	657	652	697	528	432	490	453	488	562
<b>W/AN/BN</b>	587	543	562	553	427	401	330	294	380	368	335	438
<b>D/C</b>	653	638	689	738	827	927	682	540	576	519	607	658

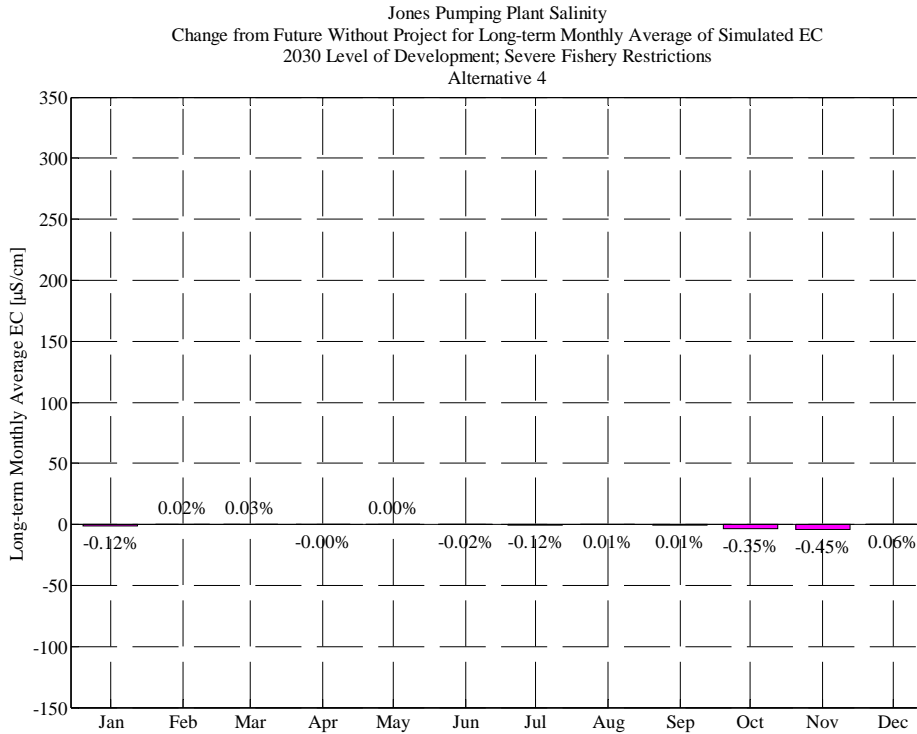
**Percent (%) Change from Future Without Project for Jones Pumping Plant Salinity  
(Alternative 4 - Future Without Project) / Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

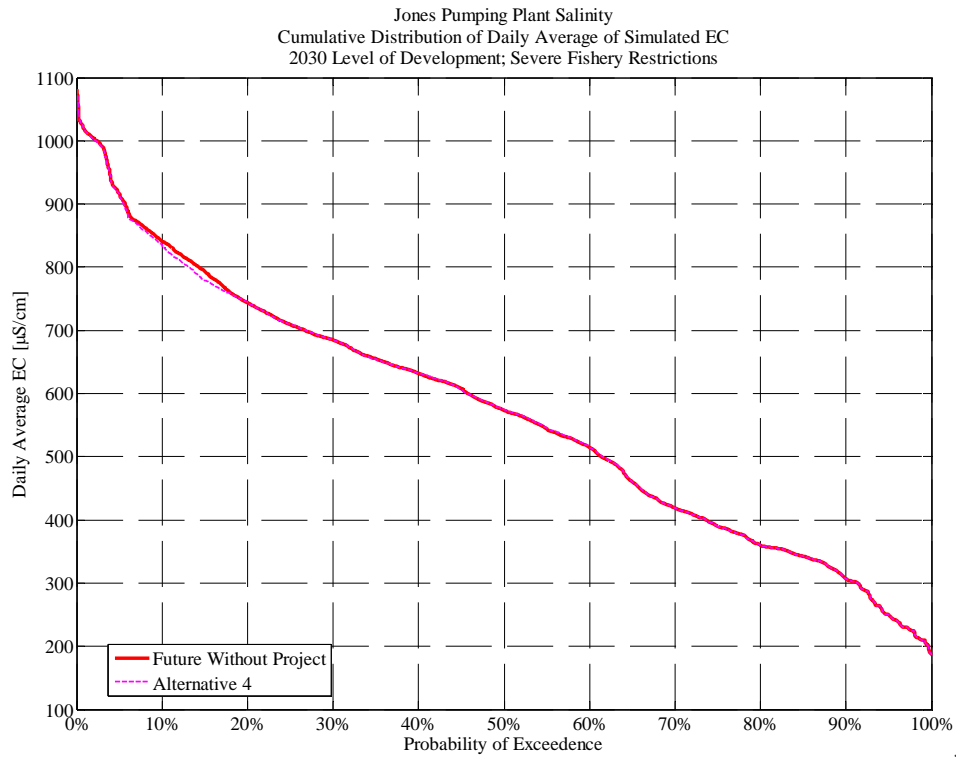
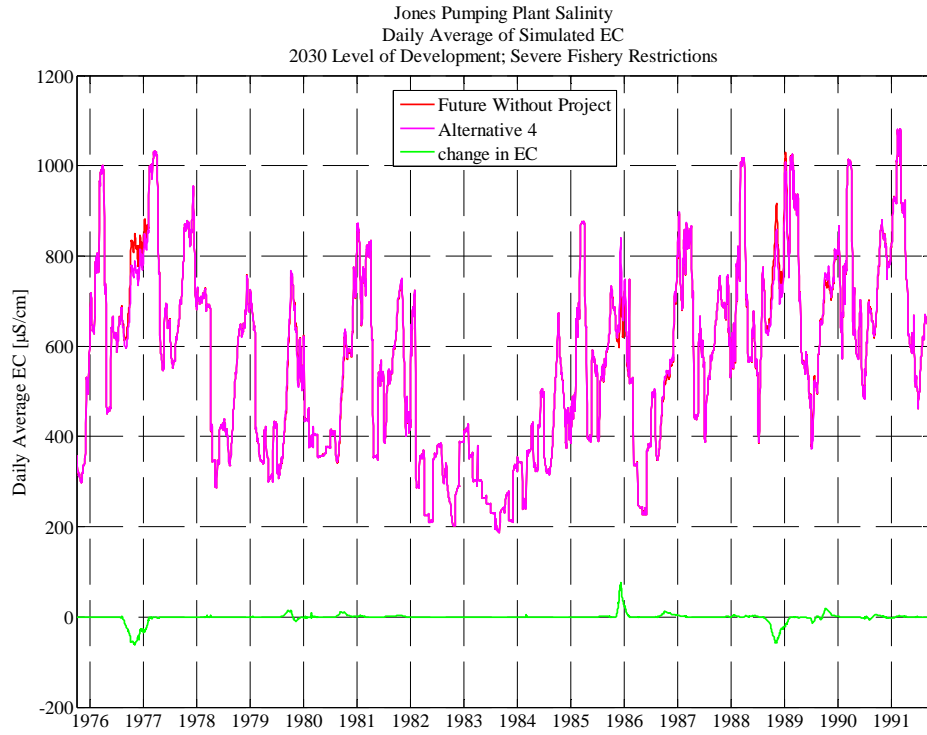
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-1.1%	-4.5%
1977	-6.7%	-6.3%	-3.7%	-3.0%	-0.2%	0.0%	-0.2%	0.0%	-0.1%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	2.1%
1980	0.5%	-1.2%	-0.2%	-0.3%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.7%	2.1%
1981	1.1%	0.3%	0.1%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.3%
1982	0.4%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1985	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%
1986	0.0%	3.2%	7.2%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	1.1%
1987	2.0%	1.3%	0.7%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.1%	0.4%	0.2%	0.0%	0.2%	0.3%	0.4%	0.0%	-0.4%	-1.9%
1989	-5.4%	-5.7%	-3.3%	-1.5%	-0.1%	0.0%	-0.2%	-0.2%	-0.4%	-2.1%	0.0%	0.2%
1990	2.2%	0.9%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	-0.3%	-0.2%	-0.4%	0.6%
1991	0.3%	-0.1%	-0.3%	-0.2%	0.2%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.4%	-0.5%	0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
<b>W/AN/BN</b>	0.1%	0.3%	1.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.8%
<b>D/C</b>	-0.7%	-1.1%	-0.7%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.2%	-0.6%



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## City of Stockton Intake

### *Future Without Project*

**City of Stockton Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	273	283	327	427	472	513	530	452	386	430	407	428
1977	501	506	541	580	622	601	521	499	423	376	413	456
1978	517	540	484	467	598	580	397	306	368	298	248	342
1979	403	419	445	496	417	326	341	301	283	235	291	387
1980	443	385	323	370	342	369	344	333	344	348	257	321
1981	388	400	520	562	439	547	524	355	286	312	360	404
1982	455	387	223	406	291	317	229	204	307	342	260	238
1983	204	261	338	353	324	270	277	258	242	227	196	216
1984	263	218	287	316	255	313	351	313	304	244	265	359
1985	386	352	237	259	417	584	560	396	299	317	367	412
1986	449	424	436	367	385	304	246	227	326	307	253	309
1987	364	380	500	513	464	565	535	431	302	320	378	421
1988	460	457	381	339	378	452	464	425	310	369	465	421
1989	508	516	534	604	520	491	416	355	267	326	382	441
1990	463	471	528	403	381	463	391	396	331	420	444	432
1991	518	529	512	590	615	599	498	390	310	378	429	457
<b>Avg</b>	412	408	413	441	432	456	414	353	318	328	338	378
<b>W/AN/BN</b>	391	376	362	396	373	354	312	277	311	286	253	310
<b>D/C</b>	429	433	453	475	479	535	493	411	324	361	405	430



**Alternative 1**

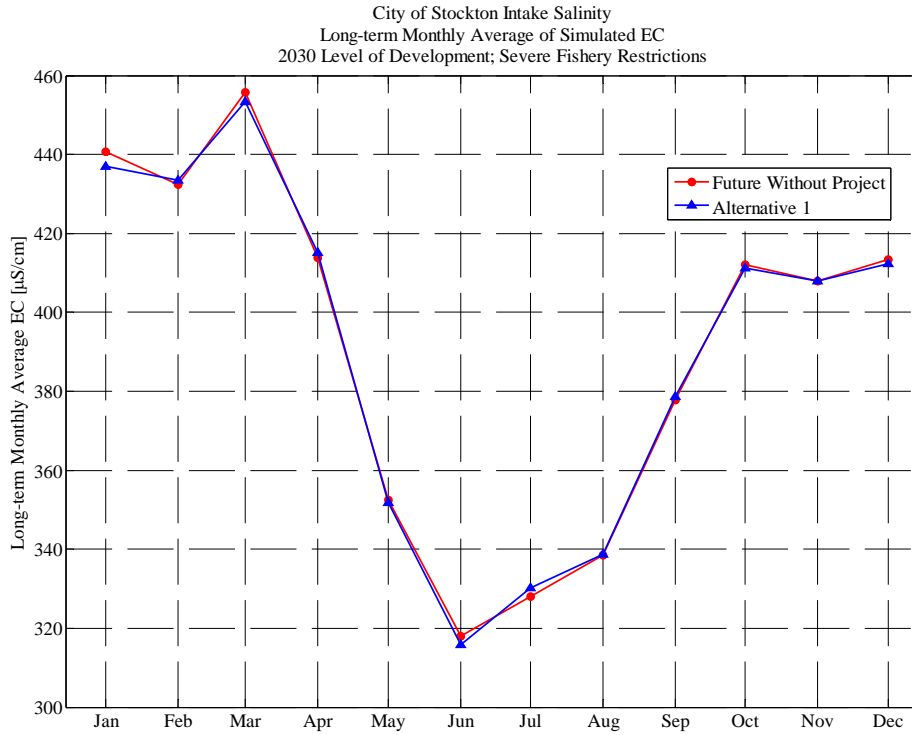
**City of Stockton Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )  
Alternative 1**

**2030 Level of Development; Severe Fishery Restrictions**

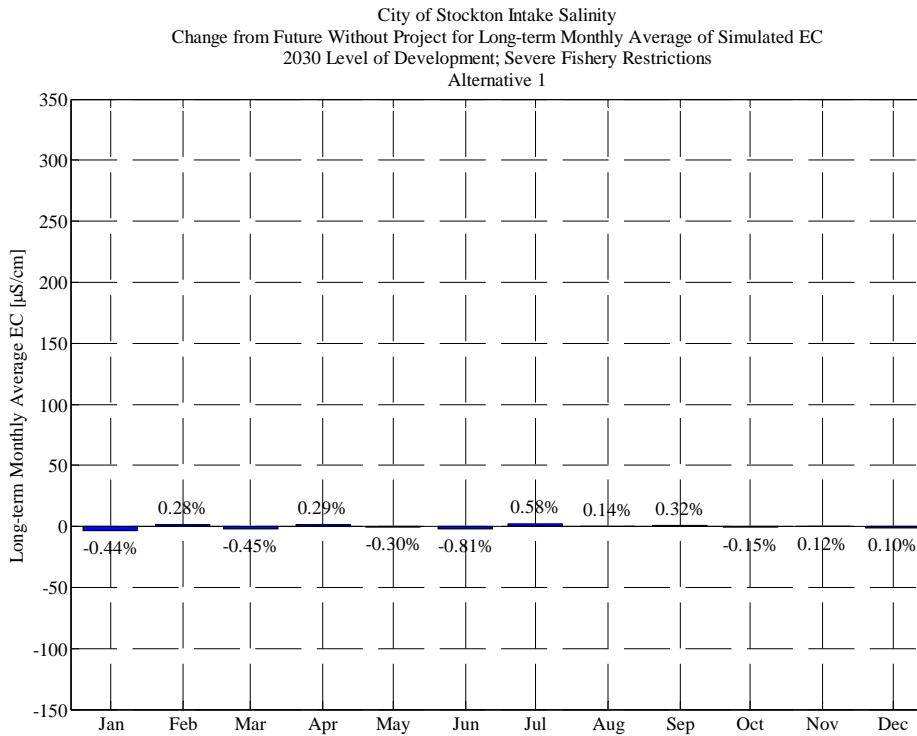
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	271	288	356	446	476	501	524	451	386	433	405	411
1977	476	489	513	549	610	597	530	513	432	405	423	448
1978	517	541	471	465	597	580	397	304	363	287	261	375
1979	416	424	446	496	417	325	341	299	279	233	287	385
1980	442	388	333	368	341	369	344	330	345	349	257	321
1981	388	399	511	556	444	546	523	345	274	321	356	415
1982	462	392	221	403	291	317	229	204	307	342	260	238
1983	204	261	338	353	324	270	277	258	243	227	196	216
1984	263	218	287	316	255	313	351	309	302	243	266	357
1985	386	352	235	260	418	582	560	388	292	312	362	414
1986	452	439	480	375	385	303	246	227	325	309	253	302
1987	362	379	494	508	464	563	537	431	295	331	377	422
1988	462	459	385	346	382	454	482	429	302	383	466	414
1989	486	496	486	560	531	491	427	362	270	317	381	447
1990	475	475	531	404	381	452	385	393	331	418	442	436
1991	516	528	507	588	618	592	490	384	305	375	428	456
<b>Avg</b>	411	408	412	437	434	453	415	352	316	330	339	379
<b>W/AN/BN</b>	394	380	368	397	373	354	312	276	309	284	254	313
<b>D/C</b>	425	429	447	469	481	531	495	411	321	366	405	429

**Percent (%) Change from Future Without Project for City of Stockton Intake Salinity  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

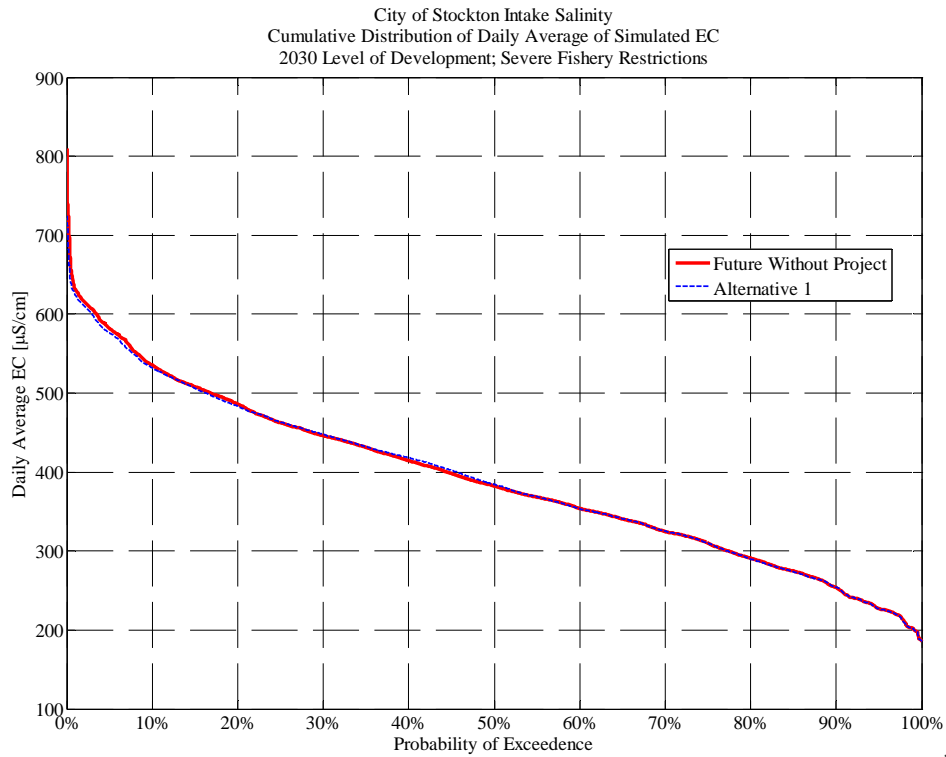
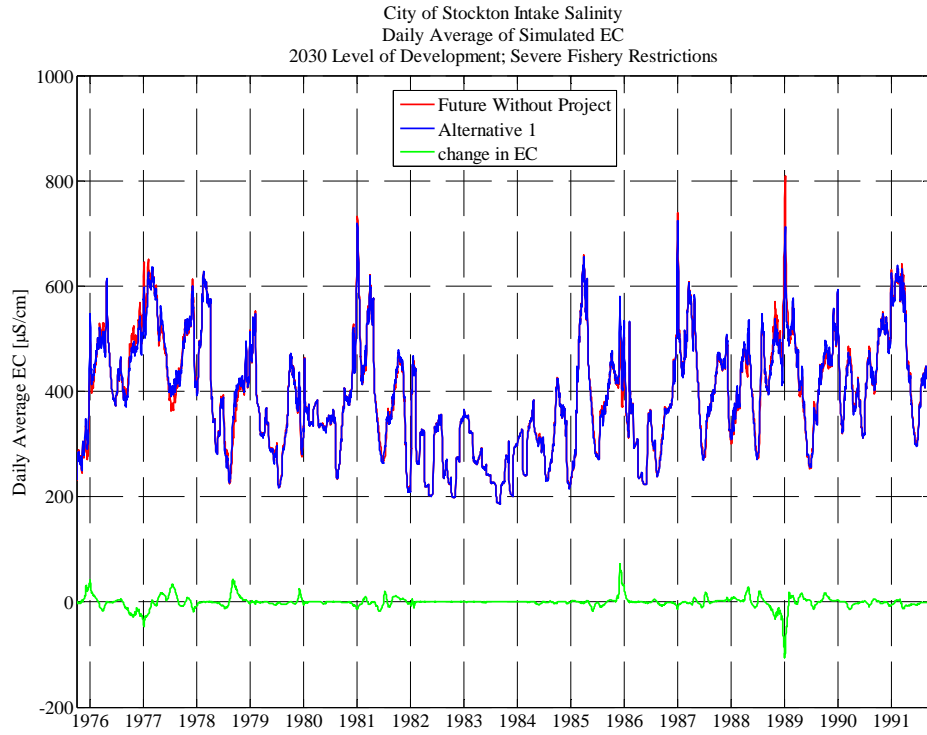
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.5%	1.7%	8.6%	4.4%	1.0%	-2.3%	-1.1%	-0.1%	0.1%	0.8%	-0.6%	-3.8%
1977	-5.0%	-3.4%	-5.1%	-5.3%	-1.9%	-0.6%	1.7%	2.9%	2.1%	7.6%	2.5%	-1.6%
1978	0.2%	0.2%	-2.5%	-0.4%	0.0%	0.0%	-0.1%	-0.4%	-1.4%	-3.5%	5.0%	9.9%
1979	3.3%	1.1%	0.2%	0.0%	0.0%	-0.3%	0.1%	-0.8%	-1.6%	-0.8%	-1.5%	-0.5%
1980	-0.2%	0.7%	3.1%	-0.5%	0.0%	0.0%	0.1%	-0.8%	0.2%	0.1%	0.1%	-0.1%
1981	-0.2%	-0.2%	-1.6%	-1.2%	1.1%	-0.1%	-0.2%	-2.7%	-4.1%	2.9%	-1.1%	2.6%
1982	1.6%	1.3%	-1.0%	-0.7%	0.0%	0.0%	0.0%	-0.1%	0.3%	0.1%	0.1%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	-1.2%	-0.6%	-0.4%	0.3%	-0.6%
1985	0.0%	0.1%	-0.8%	0.6%	0.2%	-0.3%	0.1%	-2.1%	-2.2%	-1.7%	-1.3%	0.5%
1986	0.6%	3.4%	10.1%	2.2%	0.1%	-0.1%	0.2%	-0.2%	-0.4%	0.8%	-0.2%	-2.1%
1987	-0.6%	-0.2%	-1.1%	-1.0%	0.0%	-0.4%	0.2%	0.1%	-2.4%	3.4%	-0.3%	0.3%
1988	0.5%	0.5%	1.1%	2.2%	1.2%	0.4%	4.0%	0.9%	-2.6%	3.8%	0.3%	-1.5%
1989	-4.4%	-3.8%	-8.9%	-7.3%	2.2%	0.1%	2.6%	1.9%	1.2%	-2.7%	-0.4%	1.3%
1990	2.7%	0.8%	0.5%	0.4%	0.1%	-2.3%	-1.6%	-0.6%	-0.1%	-0.3%	-0.5%	1.0%
1991	-0.2%	-0.2%	-1.0%	-0.5%	0.6%	-1.2%	-1.5%	-1.4%	-1.6%	-0.6%	-0.2%	-0.2%
<b>Avg</b>	-0.1%	0.1%	0.1%	-0.4%	0.3%	-0.5%	0.3%	-0.3%	-0.8%	0.6%	0.1%	0.3%
<b>W/AN/BN</b>	0.8%	0.9%	1.4%	0.1%	0.0%	-0.1%	0.1%	-0.5%	-0.5%	-0.5%	0.5%	1.0%
<b>D/C</b>	-0.9%	-0.5%	-0.9%	-0.9%	0.5%	-0.8%	0.5%	-0.1%	-1.1%	1.5%	-0.2%	-0.2%



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**Alternative 2**

**City of Stockton Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Alternative 2**

**2030 Level of Development; Severe Fishery Restrictions**

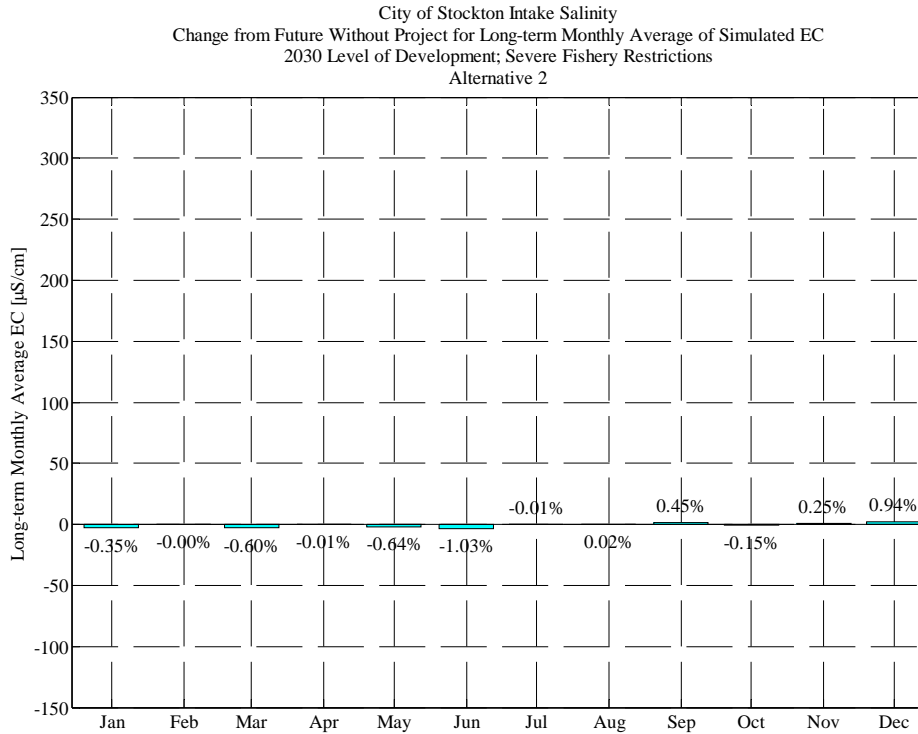
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	272	289	362	449	474	498	523	451	386	433	405	412
1977	476	490	513	549	609	596	524	501	424	378	414	456
1978	517	540	500	474	597	579	397	305	363	286	261	376
1979	416	424	446	492	416	325	341	299	278	233	287	386
1980	442	392	344	368	341	369	344	331	345	349	257	321
1981	388	399	512	556	438	543	523	345	274	321	356	415
1982	462	395	221	403	290	317	229	204	307	342	260	238
1983	204	261	338	353	324	269	277	258	243	227	196	216
1984	263	218	287	316	255	312	351	309	302	243	266	357
1985	386	352	235	259	413	579	560	388	292	312	363	414
1986	452	439	480	373	385	303	246	227	323	303	252	301
1987	362	379	500	513	461	561	536	431	295	331	377	422
1988	462	459	388	343	379	453	482	425	301	383	466	415
1989	486	496	486	560	530	487	412	353	268	317	382	448
1990	475	475	531	405	384	454	385	394	331	418	442	436
1991	516	528	508	588	621	594	491	384	305	376	428	457
<b>Avg</b>	411	408	416	438	432	453	414	350	315	328	338	379
<b>W/AN/BN</b>	394	381	374	397	373	354	312	276	309	283	254	313
<b>D/C</b>	425	430	448	469	479	530	493	408	320	363	404	431

**Percent (%) Change from Future Without Project for City of Stockton Intake Salinity  
(Alternative 2 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

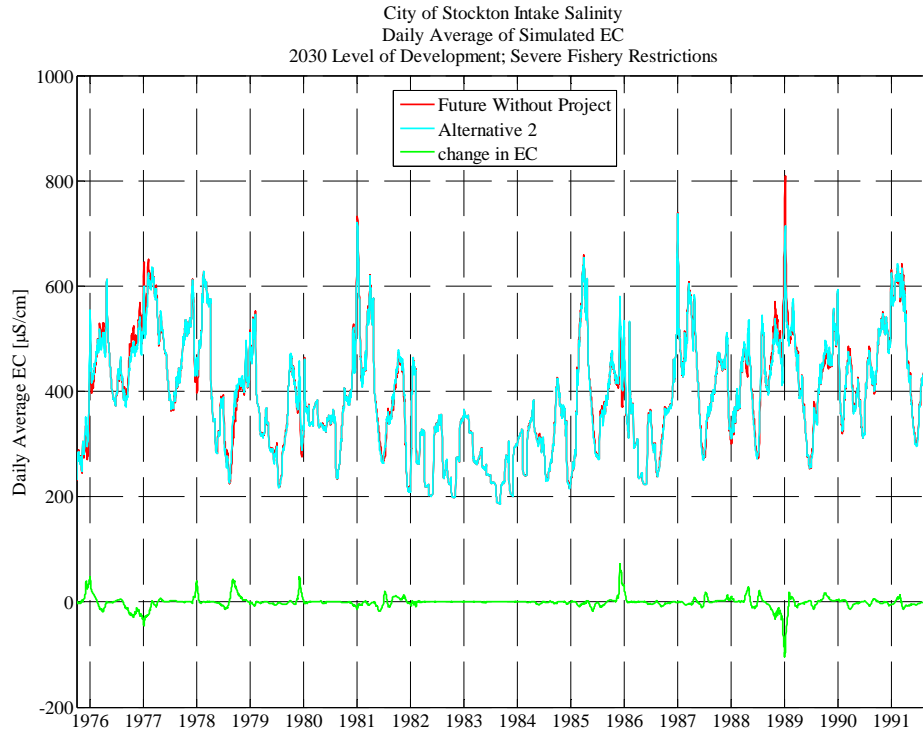
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.5%	1.9%	10.5%	5.0%	0.6%	-2.9%	-1.2%	-0.2%	0.1%	0.8%	-0.6%	-3.8%
1977	-5.0%	-3.3%	-5.1%	-5.3%	-2.1%	-0.7%	0.6%	0.5%	0.1%	0.6%	0.4%	0.1%
1978	0.0%	0.0%	3.4%	1.5%	-0.1%	0.0%	0.0%	-0.4%	-1.4%	-3.9%	5.0%	10.0%
1979	3.3%	1.1%	0.2%	-0.8%	-0.2%	-0.3%	0.1%	-0.8%	-1.7%	-0.8%	-1.5%	-0.3%
1980	-0.2%	1.7%	6.6%	-0.5%	0.0%	0.0%	0.2%	-0.7%	0.2%	0.1%	0.1%	-0.1%
1981	-0.2%	-0.2%	-1.5%	-1.1%	-0.2%	-0.7%	-0.2%	-2.7%	-4.1%	2.9%	-1.1%	2.6%
1982	1.6%	2.2%	-0.8%	-0.7%	-0.4%	0.0%	0.0%	-0.1%	0.3%	0.1%	0.1%	0.0%
1983	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	-0.2%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	-1.2%	-0.6%	-0.4%	0.3%	-0.6%
1985	0.0%	0.1%	-1.0%	0.3%	-1.0%	-0.8%	0.0%	-2.2%	-2.2%	-1.7%	-1.3%	0.5%
1986	0.6%	3.4%	10.1%	1.7%	0.0%	-0.1%	0.2%	-0.1%	-0.9%	-1.2%	-0.3%	-2.4%
1987	-0.7%	-0.3%	0.0%	0.1%	-0.6%	-0.7%	0.2%	0.2%	-2.4%	3.5%	-0.3%	0.3%
1988	0.5%	0.6%	1.9%	1.3%	0.3%	0.3%	3.9%	-0.1%	-2.8%	3.6%	0.1%	-1.5%
1989	-4.3%	-3.8%	-8.9%	-7.3%	1.9%	-0.8%	-1.0%	-0.5%	0.5%	-2.7%	-0.2%	1.6%
1990	2.7%	0.8%	0.5%	0.7%	0.8%	-1.9%	-1.4%	-0.5%	-0.1%	-0.3%	-0.4%	0.9%
1991	-0.3%	-0.2%	-0.9%	-0.5%	1.1%	-0.8%	-1.4%	-1.4%	-1.6%	-0.6%	-0.2%	-0.1%
<b>Avg</b>	-0.1%	0.2%	0.9%	-0.4%	0.0%	-0.6%	0.0%	-0.6%	-1.0%	0.0%	0.0%	0.4%
<b>W/AN/BN</b>	0.7%	1.2%	2.8%	0.2%	-0.1%	-0.1%	0.1%	-0.5%	-0.6%	-0.9%	0.5%	1.0%
<b>D/C</b>	-0.8%	-0.5%	-0.5%	-0.8%	0.1%	-1.0%	-0.1%	-0.8%	-1.4%	0.7%	-0.4%	0.1%



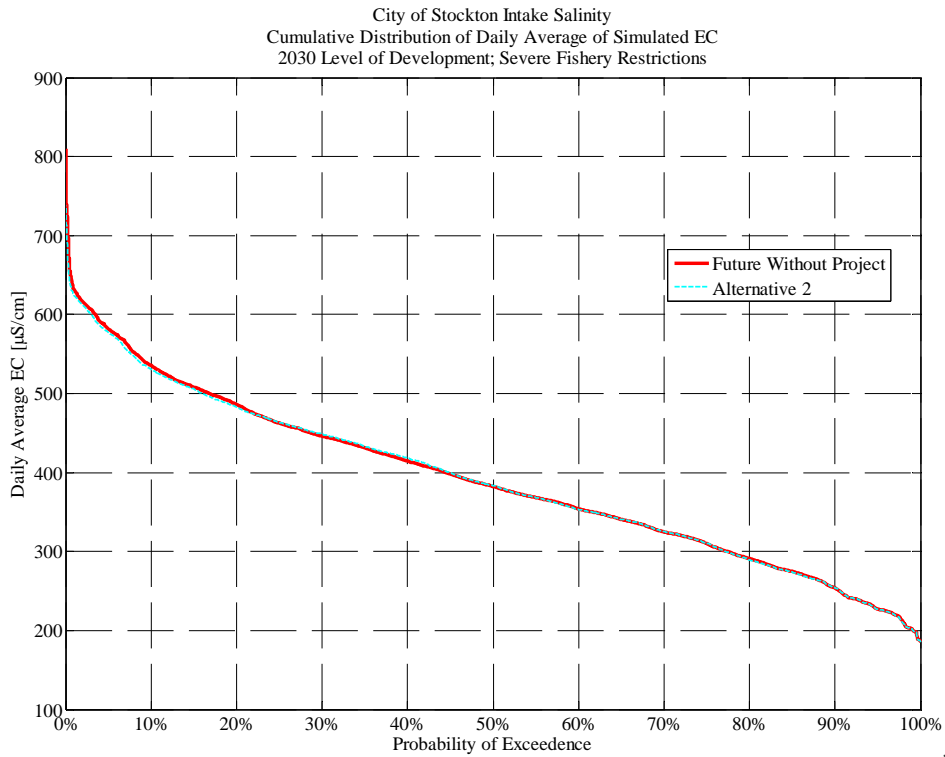
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 3**

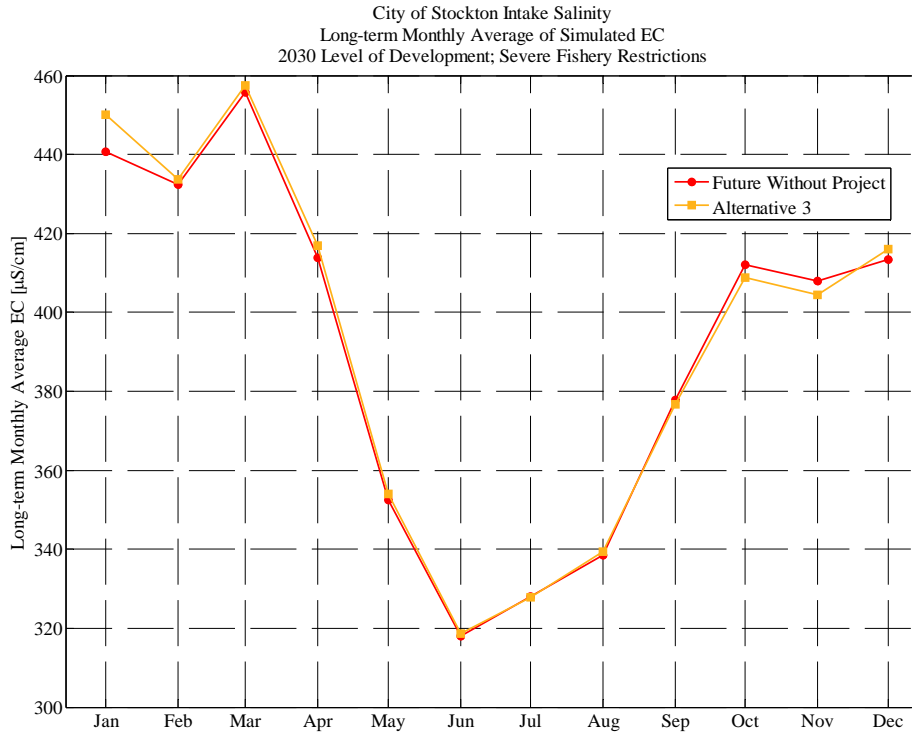
**City of Stockton Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Alternative 3**

**2030 Level of Development; Severe Fishery Restrictions**

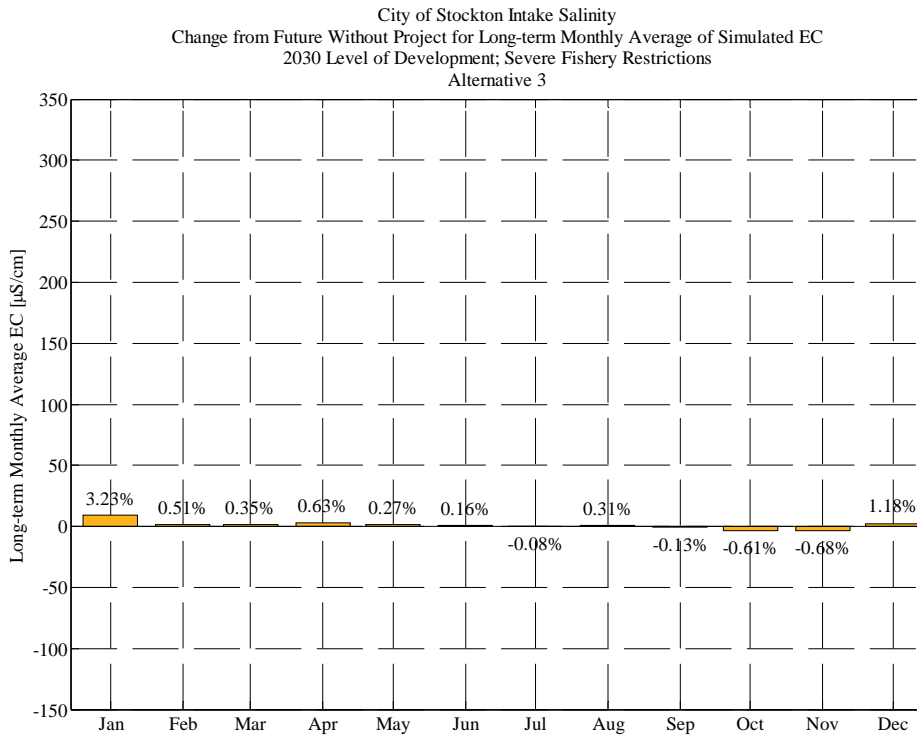
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	273	284	328	427	471	514	531	459	383	419	396	401
1977	469	485	508	546	596	602	533	515	430	404	423	448
1978	518	541	471	464	597	579	397	305	364	290	257	370
1979	419	424	448	498	417	325	341	299	277	232	287	384
1980	445	387	325	371	342	369	344	332	345	349	257	322
1981	389	400	522	565	440	547	524	351	285	305	358	403
1982	456	388	221	410	290	316	229	204	308	342	261	238
1983	204	261	338	352	323	269	277	258	243	227	196	215
1984	263	218	287	316	256	310	350	311	306	244	265	361
1985	387	355	238	259	417	584	560	391	297	310	365	409
1986	448	424	439	367	385	304	245	227	327	314	252	305
1987	364	380	490	527	493	569	536	431	312	315	385	419
1988	456	453	533	549	416	483	491	438	325	353	461	419
1989	486	493	494	570	507	490	428	362	262	344	392	445
1990	453	452	501	390	378	462	390	395	331	420	445	430
1991	514	528	512	589	611	595	494	385	305	376	430	457
<b>Avg</b>	409	404	416	450	434	457	417	354	319	328	339	377
<b>W/AN/BN</b>	393	377	361	397	373	353	312	277	310	285	254	314
<b>D/C</b>	421	426	459	491	481	539	498	414	326	361	406	426

**Percent (%) Change from Future Without Project for City of Stockton Intake Salinity  
(Alternative 3 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.1%	0.2%	0.0%	-0.1%	0.2%	0.2%	1.5%	-0.6%	-2.5%	-2.8%	-6.2%
1977	-6.5%	-4.2%	-6.1%	-5.9%	-4.2%	0.3%	2.4%	3.2%	1.6%	7.4%	2.5%	-1.6%
1978	0.2%	0.2%	-2.7%	-0.5%	0.0%	0.0%	-0.1%	-0.3%	-1.1%	-2.5%	3.6%	8.4%
1979	4.0%	1.1%	0.6%	0.3%	0.0%	-0.2%	0.0%	-0.7%	-2.2%	-1.0%	-1.4%	-0.6%
1980	0.3%	0.3%	0.9%	0.2%	0.0%	0.0%	0.1%	-0.3%	0.2%	0.0%	0.0%	0.5%
1981	0.2%	0.1%	0.5%	0.5%	0.1%	0.0%	0.0%	-1.1%	-0.4%	-2.0%	-0.6%	-0.3%
1982	0.2%	0.2%	-0.7%	0.9%	-0.4%	-0.2%	0.0%	-0.1%	0.3%	0.0%	0.6%	0.0%
1983	-0.2%	-0.2%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	-0.9%	-0.2%	-0.5%	0.6%	-0.1%	0.0%	0.4%
1985	0.4%	0.8%	0.2%	0.0%	0.0%	0.0%	0.0%	-1.4%	-0.8%	-2.1%	-0.7%	-0.8%
1986	-0.3%	0.0%	0.7%	0.2%	0.0%	-0.1%	-0.1%	0.0%	0.2%	2.2%	-0.2%	-1.1%
1987	-0.1%	0.0%	-1.9%	2.9%	6.2%	0.7%	0.0%	0.0%	3.3%	-1.6%	2.0%	-0.5%
1988	-0.7%	-0.8%	40.0%	62.2%	10.2%	6.9%	5.9%	3.1%	4.8%	-4.5%	-0.8%	-0.4%
1989	-4.4%	-4.4%	-7.4%	-5.7%	-2.4%	-0.2%	2.8%	2.0%	-1.8%	5.6%	2.6%	0.9%
1990	-2.2%	-3.9%	-5.2%	-3.1%	-0.7%	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.1%	-0.4%
1991	-0.6%	-0.1%	0.0%	-0.2%	-0.5%	-0.7%	-0.8%	-1.1%	-1.7%	-0.3%	0.2%	-0.2%
<b>Avg</b>	-0.6%	-0.7%	1.2%	3.2%	0.5%	0.4%	0.6%	0.3%	0.2%	-0.1%	0.3%	-0.1%
<b>W/AN/BN</b>	0.6%	0.2%	-0.2%	0.1%	-0.1%	-0.2%	-0.1%	-0.3%	-0.3%	-0.2%	0.4%	1.1%
<b>D/C</b>	-1.5%	-1.4%	2.3%	5.6%	1.0%	0.8%	1.2%	0.7%	0.5%	0.0%	0.3%	-1.1%

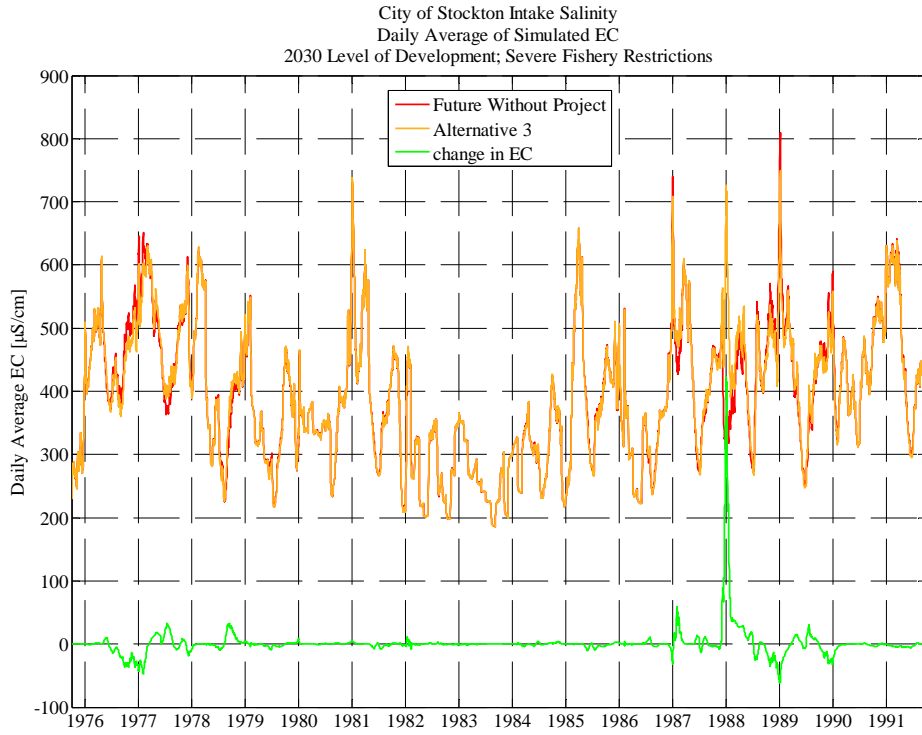


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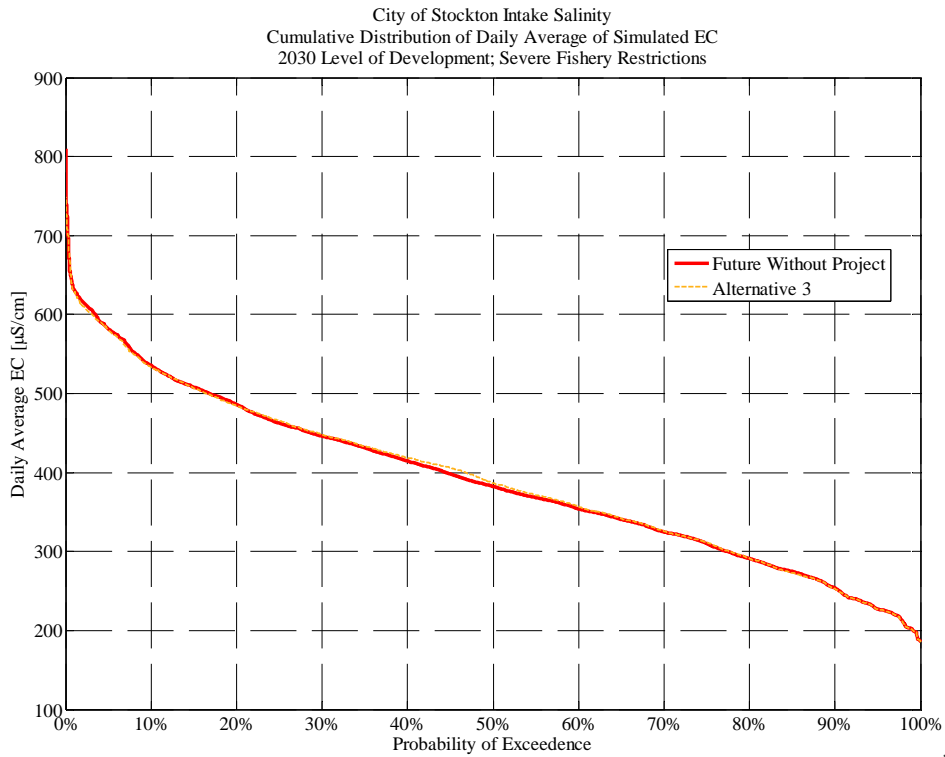


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04-Nov-2008 DS



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05-Nov-2008 DS

**Alternative 4**

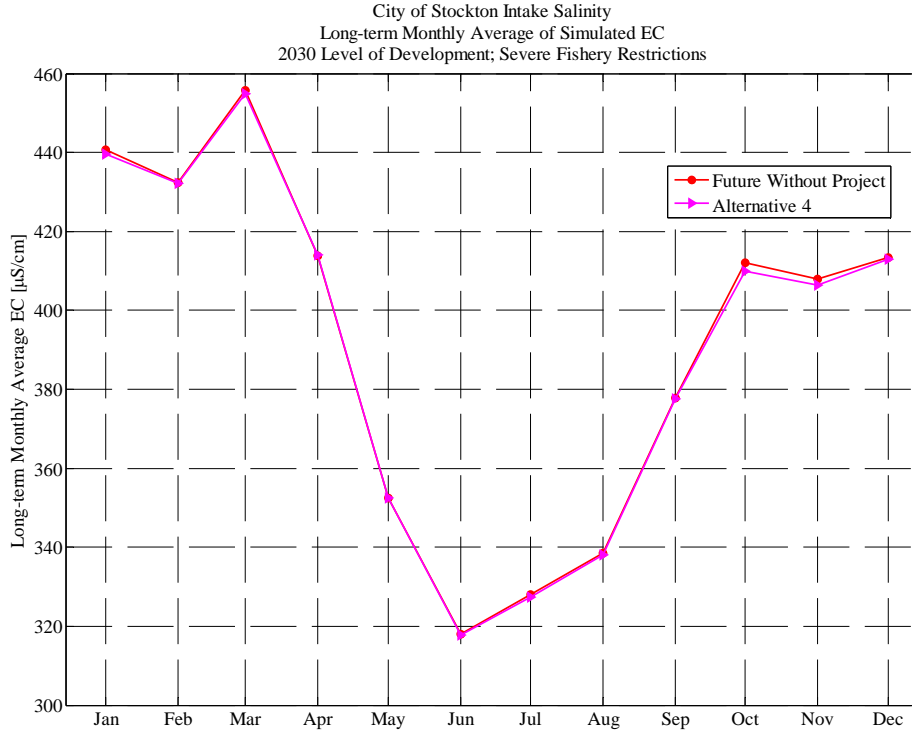
**City of Stockton Intake Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 4**

**2030 Level of Development; Severe Fishery Restrictions**

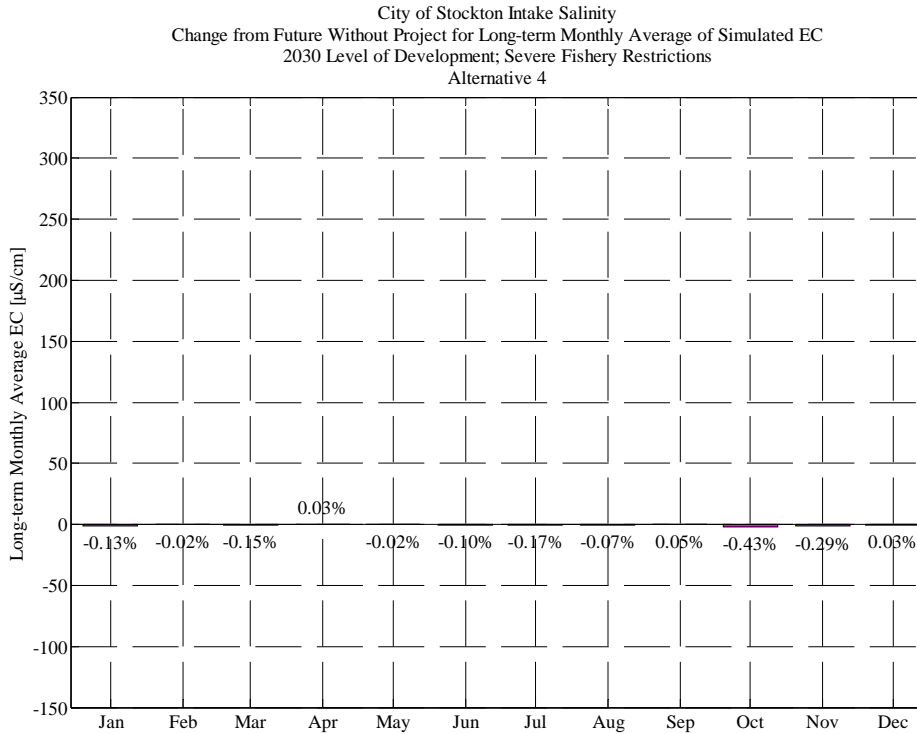
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	273	283	327	427	472	513	530	452	386	429	400	409
1977	474	487	511	556	614	598	519	498	423	376	413	456
1978	517	540	484	467	597	579	397	306	368	298	248	342
1979	402	419	445	497	417	326	341	301	283	235	293	397
1980	445	383	322	369	341	368	344	333	344	345	258	329
1981	390	401	520	565	441	547	524	355	286	312	361	405
1982	456	388	223	406	291	317	229	204	307	342	260	238
1983	204	261	338	353	324	270	277	258	242	227	196	216
1984	263	218	287	316	255	313	351	313	304	244	265	360
1985	386	352	237	259	417	584	560	397	299	318	368	413
1986	449	436	477	374	385	304	246	228	326	307	253	313
1987	367	382	504	515	465	565	535	430	302	320	378	421
1988	460	457	381	342	381	453	476	434	311	369	463	411
1989	481	493	512	594	517	483	412	351	264	319	382	442
1990	471	473	530	403	380	460	386	390	328	419	443	435
1991	518	529	511	590	618	601	498	390	310	377	429	457
<b>Avg</b>	410	406	413	440	432	455	414	352	318	327	338	378
<b>W/AN/BN</b>	391	378	368	397	373	354	312	278	311	285	253	313
<b>D/C</b>	424	429	448	472	478	534	493	411	323	360	404	428

**Percent (%) Change from Future Without Project for City of Stockton Intake Salinity  
(Alternative 4 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

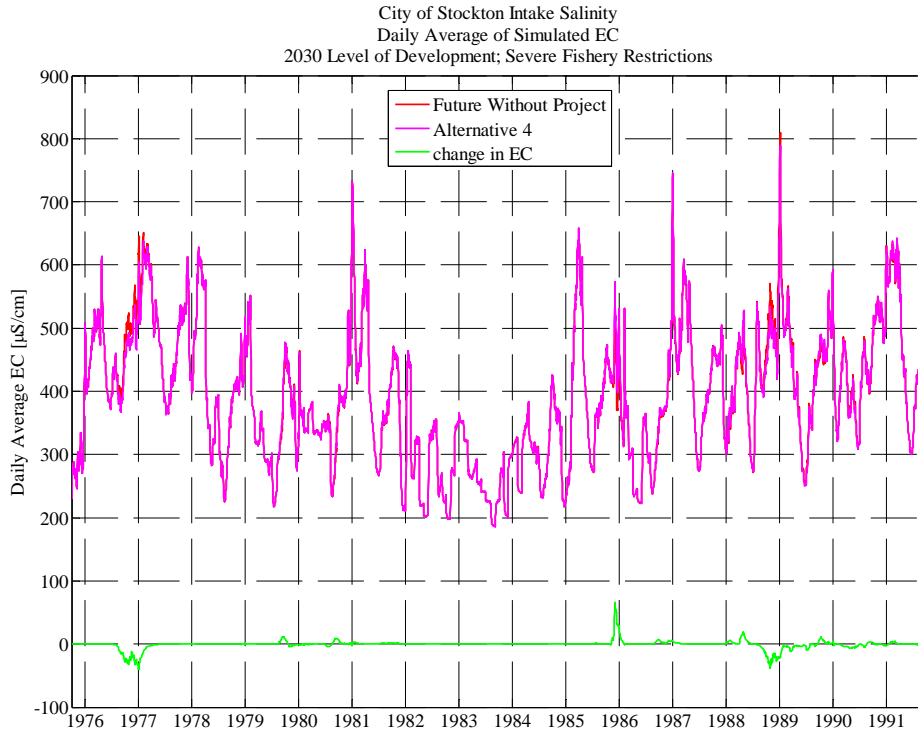
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-1.7%	-4.5%
1977	-5.5%	-3.8%	-5.5%	-4.1%	-1.3%	-0.5%	-0.3%	-0.1%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	2.5%
1980	0.4%	-0.8%	-0.3%	-0.3%	-0.1%	-0.1%	0.0%	0.0%	0.0%	-0.9%	0.4%	2.5%
1981	0.5%	0.2%	0.1%	0.4%	0.3%	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%	0.2%
1982	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.1%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.1%
1986	0.0%	2.8%	9.3%	2.1%	0.0%	0.0%	0.1%	0.1%	0.0%	0.1%	0.2%	1.4%
1987	0.9%	0.5%	0.9%	0.6%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.1%	1.0%	0.8%	0.2%	2.8%	2.0%	0.5%	0.0%	-0.5%	-2.4%
1989	-5.3%	-4.3%	-4.1%	-1.7%	-0.6%	-1.7%	-0.9%	-0.9%	-1.0%	-2.1%	-0.2%	0.2%
1990	1.8%	0.5%	0.2%	0.0%	-0.1%	-0.7%	-1.2%	-1.4%	-1.0%	-0.2%	-0.3%	0.7%
1991	0.1%	0.0%	-0.4%	-0.1%	0.6%	0.2%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
<b>Avg</b>	-0.4%	-0.3%	0.0%	-0.1%	0.0%	-0.2%	0.0%	0.0%	-0.1%	-0.2%	-0.1%	0.1%
<b>W/AN/BN</b>	0.1%	0.3%	1.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.2%	0.9%
<b>D/C</b>	-0.8%	-0.8%	-1.0%	-0.4%	0.0%	-0.3%	0.1%	0.0%	-0.2%	-0.2%	-0.2%	-0.6%



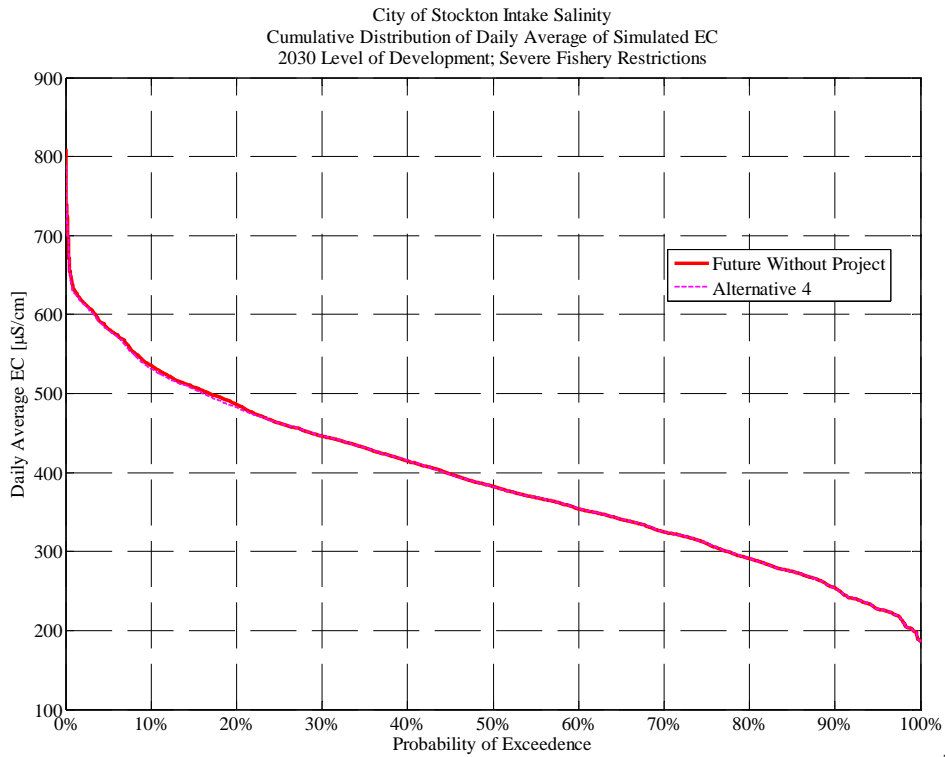
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04-Nov-2008 DS



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04-Nov-2008 DS



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05-Nov-2008 DS

## San Joaquin River at Antioch

### *Future Without Project*

**San Joaquin River at Antioch Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1,317	1,857	2,760	2,773	1,253	321	424	1,748	3,359	4,603	4,554	5,567
1977	6,289	5,750	5,308	4,911	3,084	1,773	1,859	2,743	3,315	3,858	4,915	5,712
1978	5,799	5,742	3,365	437	260	285	277	250	255	696	2,533	4,521
1979	5,168	5,557	4,433	869	279	241	239	262	361	1,417	3,053	5,308
1980	5,604	3,869	1,719	304	284	272	257	251	276	600	2,293	4,488
1981	4,882	5,008	4,938	1,324	258	219	259	429	1,289	2,913	3,524	4,616
1982	5,514	1,454	210	239	227	242	218	198	204	433	2,246	777
1983	205	199	238	308	299	260	239	225	218	213	217	202
1984	307	201	230	244	225	206	236	300	579	1,174	2,454	4,916
1985	4,700	1,195	321	606	344	241	312	450	1,367	2,759	3,328	4,945
1986	4,900	4,532	3,141	838	260	272	250	239	356	727	2,281	3,996
1987	4,373	4,724	5,297	2,312	502	240	371	886	1,669	2,786	3,672	4,784
1988	5,259	4,919	2,072	370	369	705	816	1,147	1,672	3,725	4,224	4,784
1989	6,261	4,856	5,427	3,426	1,772	366	216	241	1,154	2,508	3,272	4,842
1990	5,572	5,300	4,948	1,590	529	430	623	1,183	2,548	4,369	4,426	5,267
1991	6,129	4,859	5,112	4,698	3,762	769	337	1,011	2,389	4,171	4,705	5,699
<b>Avg</b>	4,518	3,751	3,095	1,578	857	428	433	723	1,313	2,310	3,231	4,401
<b>W/AN/BN</b>	3,928	3,079	1,905	463	262	254	245	246	321	751	2,154	3,458
<b>D/C</b>	4,976	4,274	4,020	2,445	1,319	563	580	1,093	2,085	3,522	4,069	5,135

**Alternative 1**

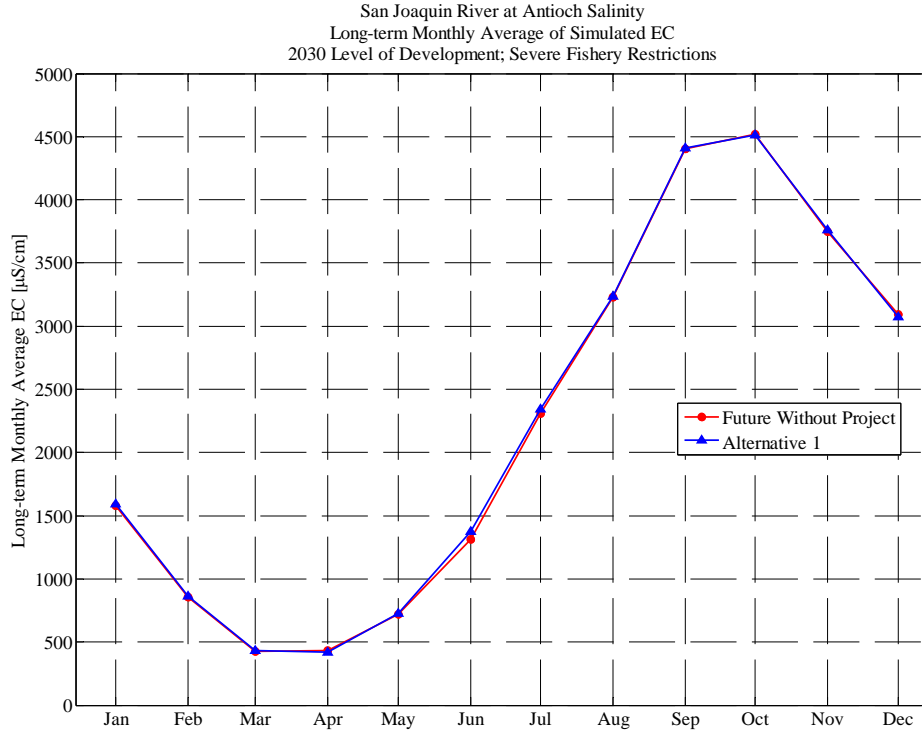
**San Joaquin River at Antioch Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )  
Alternative 1**

**2030 Level of Development; Severe Fishery Restrictions**

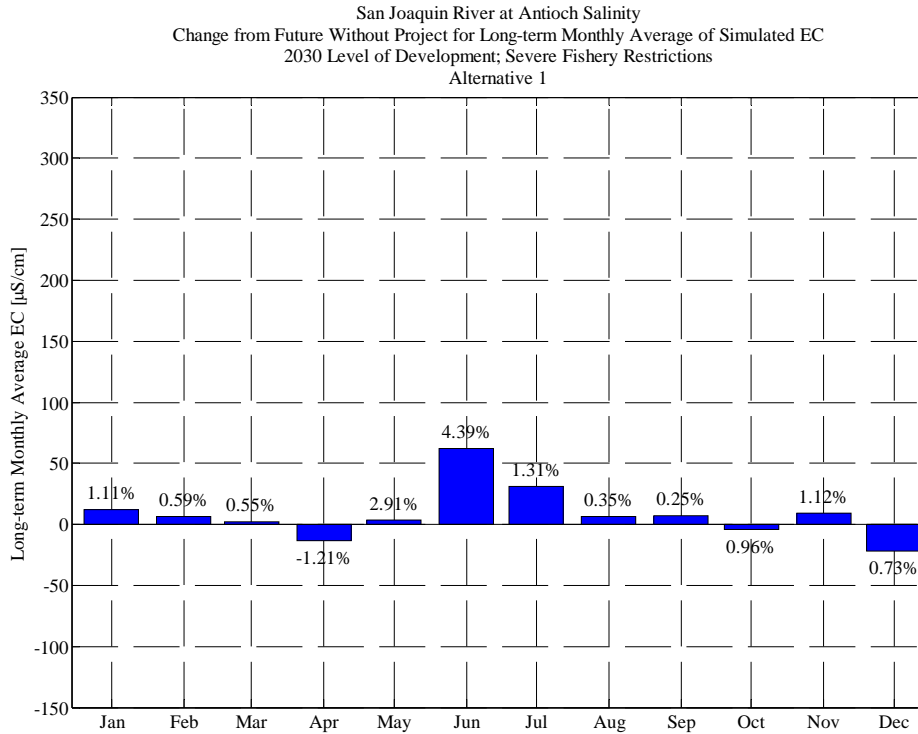
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1,555	2,176	2,958	2,847	1,279	330	418	1,748	3,392	4,655	4,452	5,300
1977	5,888	5,441	5,020	4,749	2,925	1,747	1,724	2,513	3,430	4,182	4,926	5,628
1978	5,900	5,653	3,262	433	259	285	276	246	264	818	2,907	4,829
1979	5,342	5,617	4,408	876	275	236	237	272	370	1,356	2,995	5,305
1980	5,564	3,998	1,735	298	283	272	257	252	272	596	2,298	4,481
1981	4,867	4,965	4,885	1,319	258	219	258	521	1,613	2,966	3,552	4,789
1982	5,590	1,481	212	238	227	242	218	197	204	434	2,255	781
1983	207	199	238	307	299	260	240	223	218	213	217	202
1984	308	201	229	244	226	206	235	315	583	1,161	2,433	4,906
1985	4,715	1,204	345	635	348	241	311	504	1,413	2,704	3,326	4,998
1986	4,925	4,914	3,379	862	262	268	250	248	386	705	2,170	3,914
1987	4,336	4,703	5,264	2,296	499	239	366	920	1,889	2,890	3,668	4,816
1988	5,295	4,967	2,229	398	370	714	740	1,208	1,931	3,856	4,225	4,601
1989	5,919	4,524	4,966	3,573	1,927	373	217	244	1,089	2,452	3,267	4,982
1990	5,672	5,319	4,973	1,614	541	457	634	1,192	2,558	4,292	4,404	5,305
1991	6,136	4,808	5,063	4,756	3,836	789	335	1,014	2,394	4,166	4,700	5,697
<b>Avg</b>	<b>4,514</b>	<b>3,761</b>	<b>3,073</b>	<b>1,590</b>	<b>863</b>	<b>430</b>	<b>420</b>	<b>726</b>	<b>1,375</b>	<b>2,340</b>	<b>3,237</b>	<b>4,408</b>
<b>W/AN/BN</b>	<b>3,977</b>	<b>3,152</b>	<b>1,923</b>	<b>465</b>	<b>262</b>	<b>253</b>	<b>245</b>	<b>250</b>	<b>328</b>	<b>755</b>	<b>2,182</b>	<b>3,488</b>
<b>D/C</b>	<b>4,931</b>	<b>4,234</b>	<b>3,967</b>	<b>2,465</b>	<b>1,331</b>	<b>568</b>	<b>556</b>	<b>1,096</b>	<b>2,190</b>	<b>3,574</b>	<b>4,058</b>	<b>5,124</b>

**Percent (%) Change from Future Without Project for San Joaquin River at Antioch Salinity  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	18.1%	17.2%	7.2%	2.7%	2.0%	2.7%	-1.3%	0.0%	1.0%	1.1%	-2.2%	-4.8%
1977	-6.4%	-5.4%	-5.4%	-3.3%	-5.1%	-1.5%	-7.2%	-8.4%	3.5%	8.4%	0.2%	-1.5%
1978	1.7%	-1.6%	-3.0%	-0.9%	-0.1%	0.0%	-0.4%	-1.5%	3.4%	17.5%	14.8%	6.8%
1979	3.4%	1.1%	-0.6%	0.8%	-1.2%	-2.0%	-0.9%	3.6%	2.4%	-4.3%	-1.9%	-0.1%
1980	-0.7%	3.3%	0.9%	-2.1%	-0.4%	-0.1%	0.1%	0.5%	-1.6%	-0.8%	0.2%	-0.1%
1981	-0.3%	-0.9%	-1.1%	-0.4%	-0.2%	0.0%	-0.4%	21.4%	25.1%	1.8%	0.8%	3.8%
1982	1.4%	1.8%	0.9%	-0.2%	-0.1%	0.0%	0.0%	-0.5%	0.1%	0.2%	0.4%	0.5%
1983	1.0%	0.0%	-0.2%	-0.3%	-0.1%	-0.1%	0.2%	-0.8%	0.0%	0.0%	0.0%	0.1%
1984	0.2%	0.0%	-0.2%	-0.1%	0.0%	-0.1%	-0.2%	4.9%	0.7%	-1.1%	-0.8%	-0.2%
1985	0.3%	0.8%	7.6%	4.8%	1.3%	-0.2%	-0.6%	12.2%	3.3%	-2.0%	0.0%	1.1%
1986	0.5%	8.4%	7.6%	2.9%	0.7%	-1.4%	0.2%	3.7%	8.6%	-2.9%	-4.9%	-2.1%
1987	-0.9%	-0.4%	-0.6%	-0.7%	-0.6%	-0.5%	-1.3%	3.8%	13.2%	3.7%	-0.1%	0.7%
1988	0.7%	1.0%	7.6%	7.5%	0.2%	1.3%	-9.3%	5.3%	15.5%	3.5%	0.0%	-3.8%
1989	-5.5%	-6.8%	-8.5%	4.3%	8.7%	1.9%	0.6%	1.3%	-5.6%	-2.2%	-0.2%	2.9%
1990	1.8%	0.4%	0.5%	1.6%	2.2%	6.3%	1.7%	0.8%	0.4%	-1.8%	-0.5%	0.7%
1991	0.1%	-1.1%	-1.0%	1.2%	2.0%	2.5%	-0.5%	0.3%	0.2%	-0.1%	-0.1%	0.0%
<b>Avg</b>	<b>1.0%</b>	<b>1.1%</b>	<b>0.7%</b>	<b>1.1%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>-1.2%</b>	<b>2.9%</b>	<b>4.4%</b>	<b>1.3%</b>	<b>0.4%</b>	<b>0.3%</b>
<b>W/AN/BN</b>	<b>1.1%</b>	<b>1.9%</b>	<b>0.8%</b>	<b>0.0%</b>	<b>-0.2%</b>	<b>-0.5%</b>	<b>-0.1%</b>	<b>1.4%</b>	<b>1.9%</b>	<b>1.2%</b>	<b>1.1%</b>	<b>0.7%</b>
<b>D/C</b>	<b>0.9%</b>	<b>0.5%</b>	<b>0.7%</b>	<b>2.0%</b>	<b>1.2%</b>	<b>1.4%</b>	<b>-2.0%</b>	<b>4.1%</b>	<b>6.3%</b>	<b>1.4%</b>	<b>-0.2%</b>	<b>-0.1%</b>

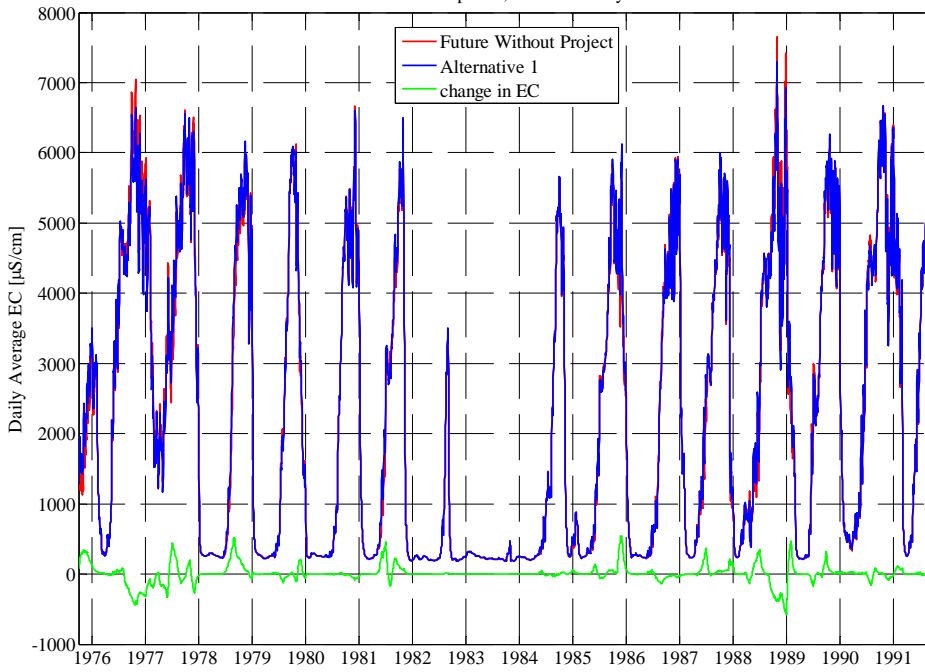


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04-Nov-2008 DS



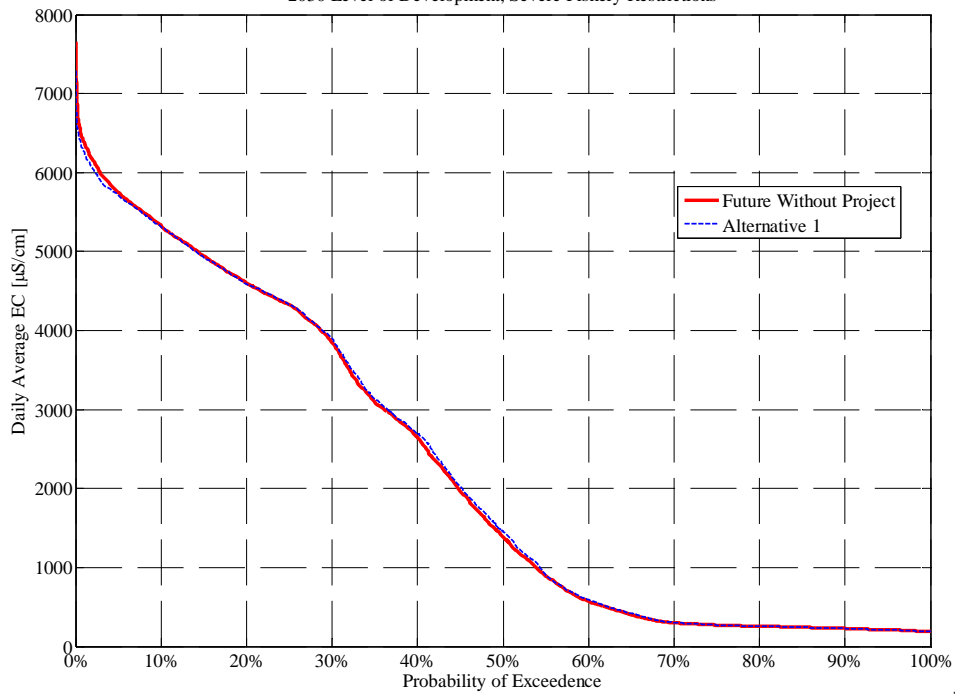
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San Joaquin River at Antioch Salinity  
 Daily Average of Simulated EC  
 2030 Level of Development; Severe Fishery Restrictions



p\_lve\_wq\_eir.m  
 04-Nov-2008 DS

San Joaquin River at Antioch Salinity  
 Cumulative Distribution of Daily Average of Simulated EC  
 2030 Level of Development; Severe Fishery Restrictions



p\_lve\_wq\_eir.m  
 05-Nov-2008 DS



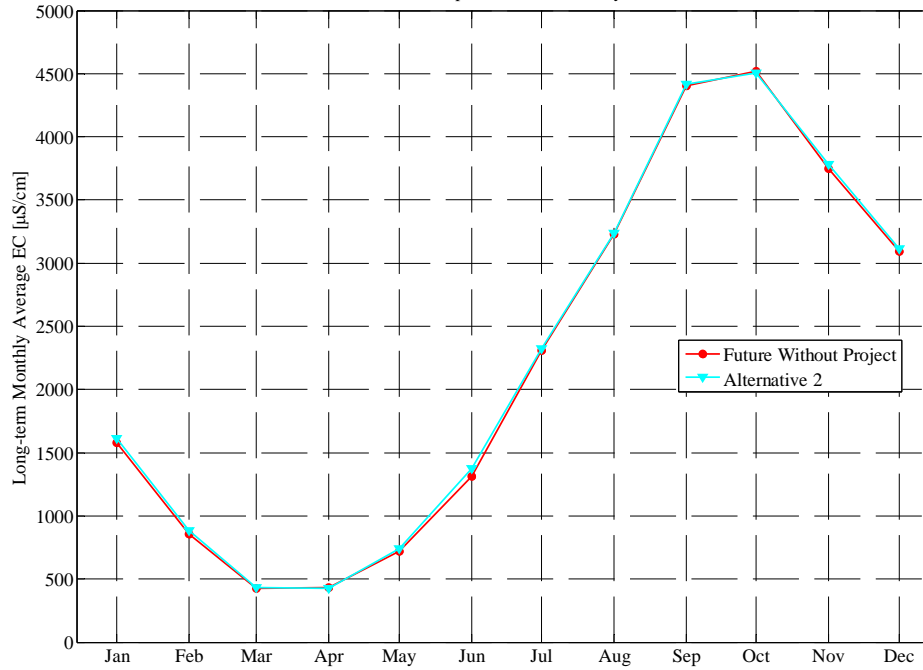
**Alternative 2****San Joaquin River at Antioch Salinity  
Monthly Average of Simulated Values (EC, µS/cm)****Alternative 2****2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1,561	2,230	2,997	2,856	1,315	334	418	1,748	3,393	4,656	4,453	5,302
1977	5,892	5,440	5,024	4,741	2,919	1,747	1,783	2,716	3,337	3,889	4,927	5,708
1978	5,800	5,738	3,728	495	260	285	277	247	264	821	2,910	4,831
1979	5,348	5,621	4,403	897	274	236	237	272	372	1,358	2,996	5,317
1980	5,555	4,115	1,795	299	282	271	257	252	272	596	2,298	4,481
1981	4,866	4,964	4,887	1,326	258	218	258	520	1,613	2,966	3,551	4,788
1982	5,589	1,498	214	237	226	242	218	197	204	434	2,255	781
1983	208	199	237	306	299	260	240	223	218	213	217	202
1984	308	201	229	244	225	206	235	315	583	1,161	2,433	4,906
1985	4,714	1,207	351	661	362	240	310	504	1,413	2,704	3,326	4,999
1986	4,926	4,915	3,378	893	263	268	251	248	414	747	2,159	3,903
1987	4,331	4,720	5,285	2,393	535	240	365	918	1,888	2,889	3,664	4,814
1988	5,301	5,005	2,273	408	370	714	740	1,258	1,963	3,856	4,232	4,609
1989	5,923	4,521	4,972	3,568	1,957	378	215	241	1,089	2,453	3,271	4,981
1990	5,672	5,319	4,975	1,711	563	458	635	1,192	2,558	4,297	4,406	5,301
1991	6,135	4,812	5,067	4,751	3,979	825	336	1,014	2,395	4,168	4,702	5,702
<b>Avg</b>	<b>4,508</b>	<b>3,782</b>	<b>3,113</b>	<b>1,612</b>	<b>880</b>	<b>433</b>	<b>423</b>	<b>742</b>	<b>1,374</b>	<b>2,325</b>	<b>3,238</b>	<b>4,414</b>
<b>W/AN/BN</b>	<b>3,962</b>	<b>3,184</b>	<b>1,998</b>	<b>482</b>	<b>261</b>	<b>253</b>	<b>245</b>	<b>251</b>	<b>332</b>	<b>761</b>	<b>2,181</b>	<b>3,489</b>
<b>D/C</b>	<b>4,933</b>	<b>4,246</b>	<b>3,981</b>	<b>2,491</b>	<b>1,362</b>	<b>573</b>	<b>562</b>	<b>1,124</b>	<b>2,183</b>	<b>3,542</b>	<b>4,059</b>	<b>5,134</b>

**Percent (%) Change from Future Without Project for San Joaquin River at Antioch  
(Alternative 2 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

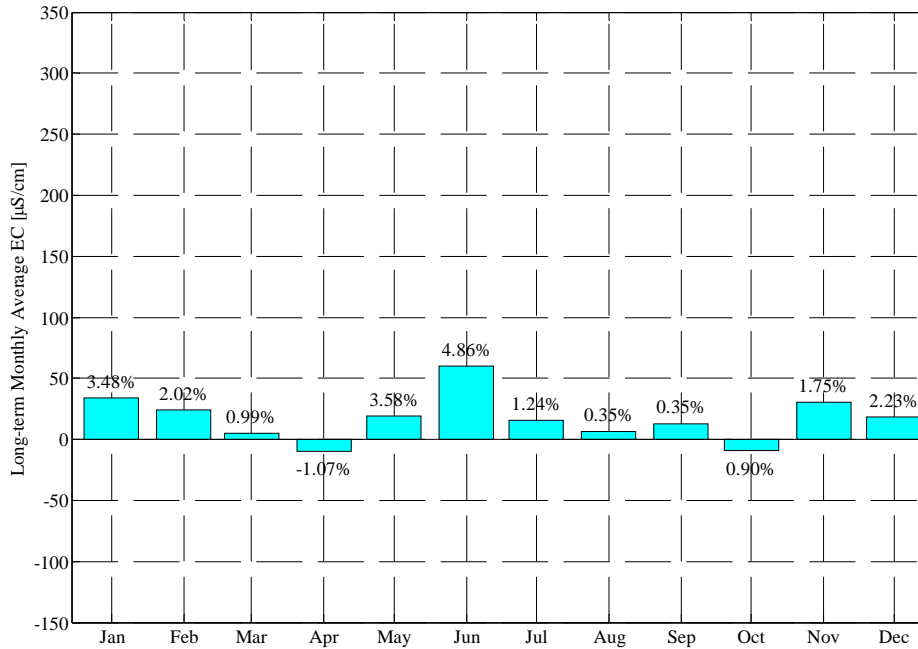
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	18.6%	20.1%	8.6%	3.0%	5.0%	4.1%	-1.3%	0.0%	1.0%	1.1%	-2.2%	-4.8%
1977	-6.3%	-5.4%	-5.4%	-3.4%	-5.3%	-1.5%	-4.1%	-1.0%	0.7%	0.8%	0.3%	-0.1%
1978	0.0%	-0.1%	10.8%	13.3%	0.0%	0.0%	-0.1%	-1.2%	3.4%	18.0%	14.9%	6.9%
1979	3.5%	1.2%	-0.7%	3.2%	-1.7%	-2.1%	-0.9%	3.6%	2.9%	-4.2%	-1.9%	0.2%
1980	-0.9%	6.4%	4.4%	-1.6%	-0.7%	-0.2%	0.1%	0.6%	-1.6%	-0.8%	0.2%	-0.1%
1981	-0.3%	-0.9%	-1.0%	0.1%	-0.1%	-0.4%	-0.5%	21.4%	25.1%	1.8%	0.8%	3.7%
1982	1.4%	3.1%	1.6%	-0.6%	-0.3%	0.0%	0.0%	-0.5%	0.1%	0.2%	0.4%	0.6%
1983	1.2%	0.0%	-0.2%	-0.4%	-0.2%	-0.1%	0.2%	-0.8%	0.0%	0.0%	0.0%	0.1%
1984	0.2%	0.0%	-0.2%	-0.1%	-0.1%	-0.2%	-0.2%	4.9%	0.7%	-1.1%	-0.8%	-0.2%
1985	0.3%	1.0%	9.4%	9.0%	5.4%	-0.3%	-0.7%	12.1%	3.3%	-2.0%	-0.1%	1.1%
1986	0.5%	8.5%	7.6%	6.5%	1.0%	-1.4%	0.2%	3.8%	16.4%	2.8%	-5.4%	-2.3%
1987	-1.0%	-0.1%	-0.2%	3.5%	6.7%	-0.2%	-1.6%	3.6%	13.1%	3.7%	-0.2%	0.6%
1988	0.8%	1.7%	9.7%	10.3%	0.1%	1.2%	-9.3%	9.6%	17.4%	3.5%	0.2%	-3.6%
1989	-5.4%	-6.9%	-8.4%	4.1%	10.5%	3.3%	-0.5%	0.0%	-5.6%	-2.2%	0.0%	2.9%
1990	1.8%	0.3%	0.5%	7.6%	6.4%	6.6%	1.8%	0.8%	0.4%	-1.7%	-0.4%	0.6%
1991	0.1%	-1.0%	-0.9%	1.1%	5.8%	7.2%	-0.2%	0.3%	0.3%	-0.1%	-0.1%	0.0%
<b>Avg</b>	<b>0.9%</b>	<b>1.7%</b>	<b>2.2%</b>	<b>3.5%</b>	<b>2.0%</b>	<b>1.0%</b>	<b>-1.1%</b>	<b>3.6%</b>	<b>4.9%</b>	<b>1.2%</b>	<b>0.3%</b>	<b>0.3%</b>
<b>W/AN/BN</b>	<b>0.8%</b>	<b>2.7%</b>	<b>3.3%</b>	<b>2.9%</b>	<b>-0.3%</b>	<b>-0.6%</b>	<b>-0.1%</b>	<b>1.5%</b>	<b>3.1%</b>	<b>2.1%</b>	<b>1.1%</b>	<b>0.7%</b>
<b>D/C</b>	<b>0.9%</b>	<b>1.0%</b>	<b>1.4%</b>	<b>3.9%</b>	<b>3.8%</b>	<b>2.2%</b>	<b>-1.8%</b>	<b>5.2%</b>	<b>6.2%</b>	<b>0.6%</b>	<b>-0.2%</b>	<b>0.1%</b>

San Joaquin River at Antioch Salinity  
 Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Severe Fishery Restrictions

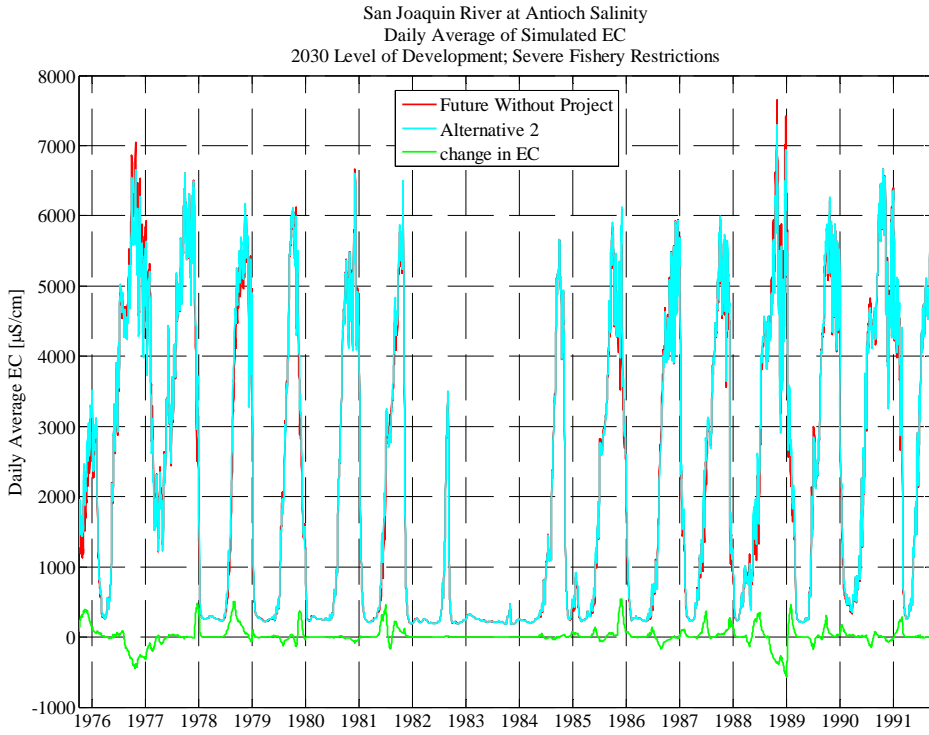


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 04-Nov-2008 DS

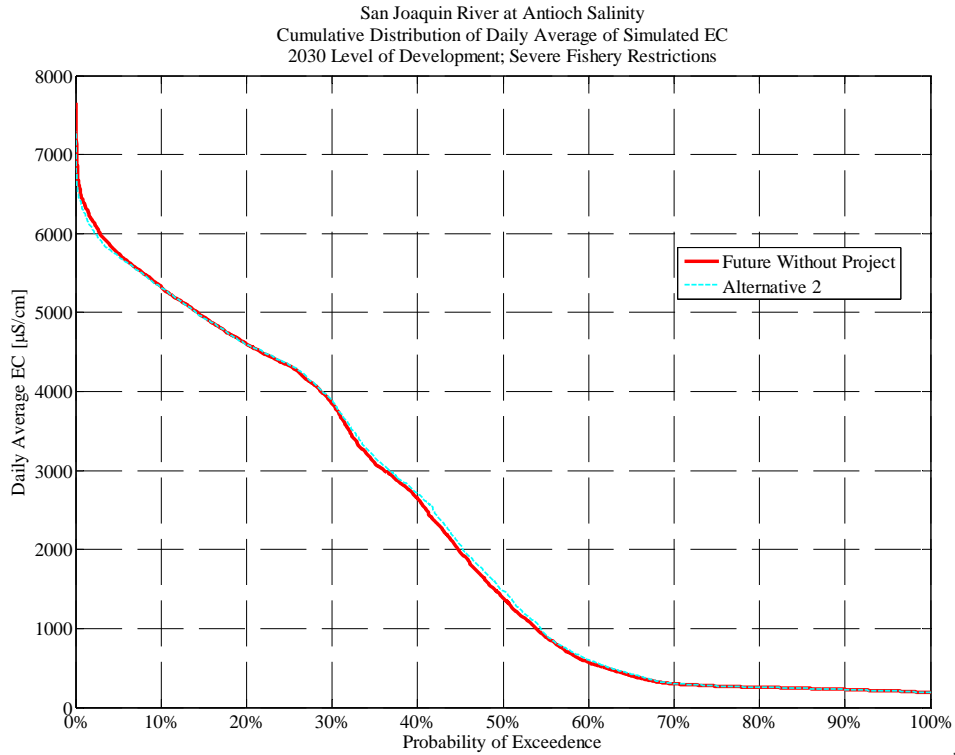
San Joaquin River at Antioch Salinity  
 Change from Future Without Project for Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Severe Fishery Restrictions  
 Alternative 2



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04-Nov-2008 DS



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**Alternative 3**

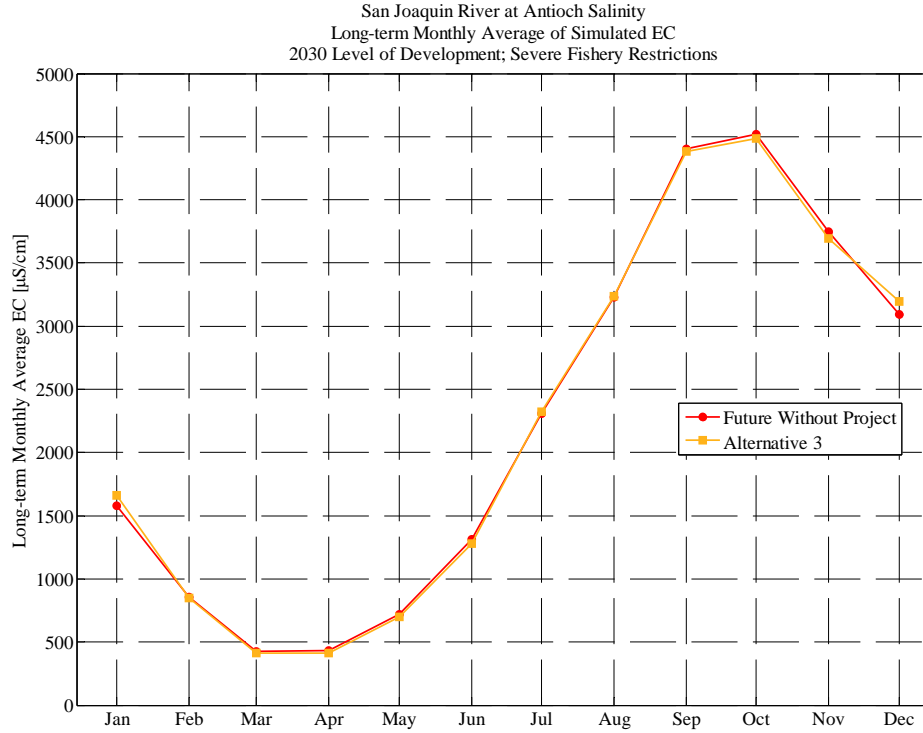
**San Joaquin River at Antioch Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 3**

**2030 Level of Development; Severe Fishery Restrictions**

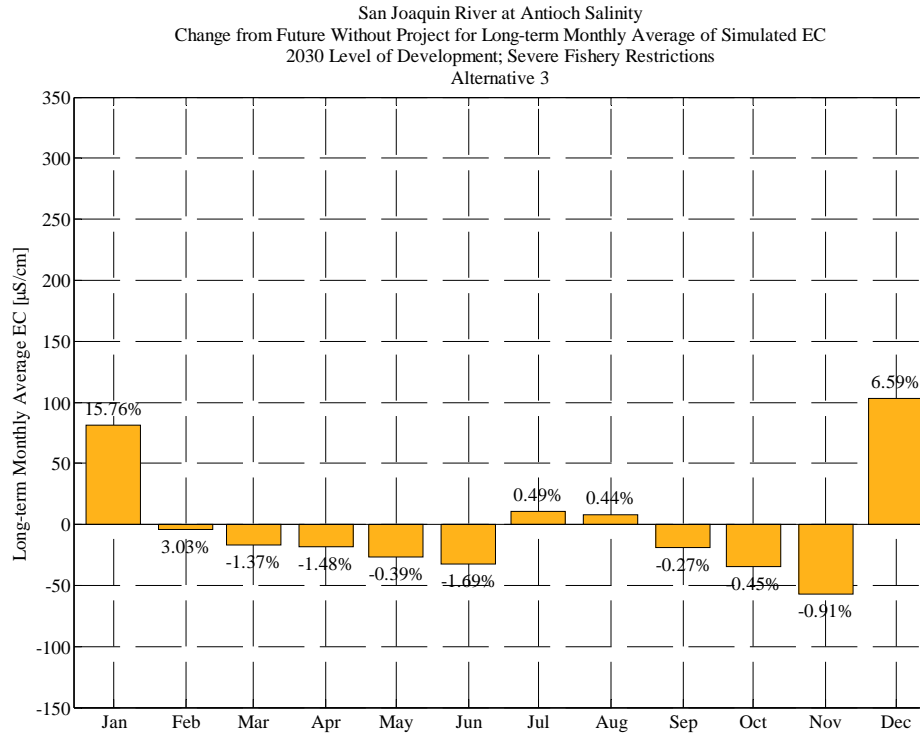
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1,327	1,866	2,764	2,764	1,243	320	424	1,583	3,154	4,543	4,340	5,169
1977	5,807	5,329	5,031	4,624	2,796	1,572	1,656	2,454	3,393	4,185	4,926	5,633
1978	5,901	5,654	3,237	429	259	285	276	247	261	787	2,820	4,835
1979	5,377	5,613	4,476	886	276	237	237	270	374	1,368	3,000	5,302
1980	5,648	3,884	1,756	308	284	272	257	251	272	596	2,303	4,510
1981	4,892	5,017	4,959	1,331	258	219	259	457	1,248	2,855	3,506	4,584
1982	5,507	1,454	211	241	228	242	218	197	204	434	2,253	780
1983	205	199	238	308	299	260	239	224	219	213	217	202
1984	308	201	230	244	223	203	233	305	557	1,162	2,475	4,929
1985	4,759	1,224	323	606	344	241	312	477	1,312	2,703	3,308	4,903
1986	4,889	4,544	3,154	840	260	268	248	242	344	686	2,225	3,960
1987	4,378	4,724	5,249	3,244	800	252	370	882	1,478	2,790	3,710	4,777
1988	5,291	5,050	4,558	1,191	390	654	735	1,113	1,466	3,622	4,276	4,746
1989	5,964	4,465	5,123	3,310	1,699	355	218	244	1,267	2,611	3,318	4,822
1990	5,341	5,007	4,746	1,541	525	429	623	1,183	2,547	4,387	4,435	5,271
1991	6,131	4,881	5,118	4,686	3,751	768	337	1,011	2,392	4,179	4,706	5,690
<b>Avg</b>	<b>4,483</b>	<b>3,695</b>	<b>3,198</b>	<b>1,659</b>	<b>852</b>	<b>411</b>	<b>415</b>	<b>696</b>	<b>1,280</b>	<b>2,320</b>	<b>3,239</b>	<b>4,382</b>
<b>W/AN/BN</b>	<b>3,976</b>	<b>3,079</b>	<b>1,900</b>	<b>465</b>	<b>262</b>	<b>252</b>	<b>244</b>	<b>248</b>	<b>319</b>	<b>749</b>	<b>2,185</b>	<b>3,503</b>
<b>D/C</b>	<b>4,877</b>	<b>4,174</b>	<b>4,208</b>	<b>2,589</b>	<b>1,312</b>	<b>534</b>	<b>548</b>	<b>1,045</b>	<b>2,029</b>	<b>3,542</b>	<b>4,058</b>	<b>5,066</b>

**Percent (%) Change from Future Without Project for San Joaquin River at Antioch  
(Alternative 3 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

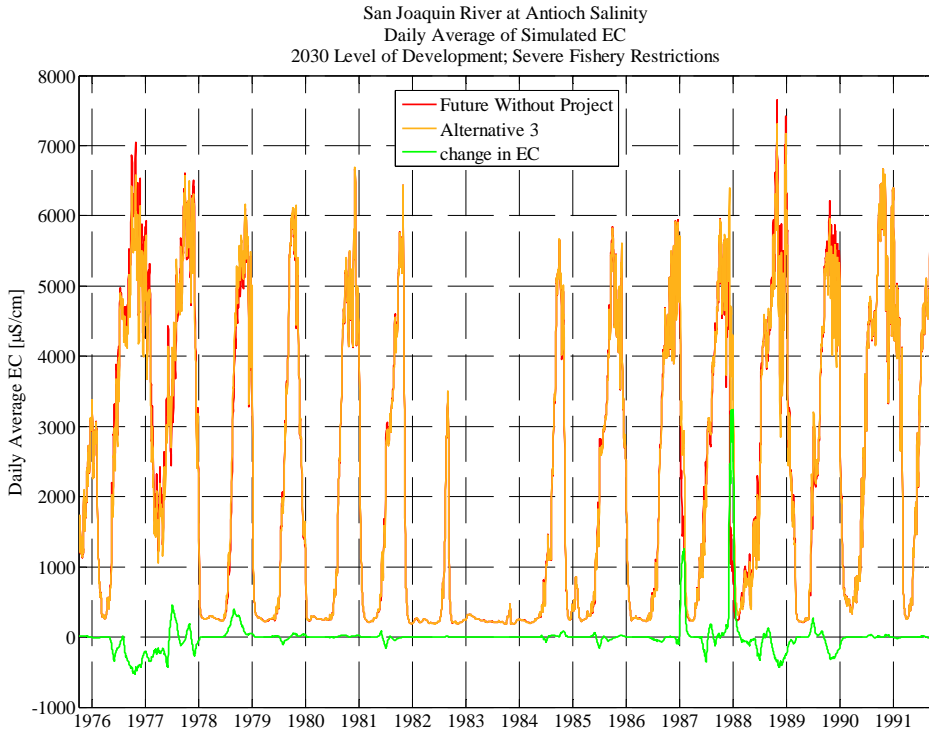
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.8%	0.5%	0.2%	-0.3%	-0.8%	-0.4%	0.0%	-9.4%	-6.1%	-1.3%	-4.7%	-7.2%
1977	-7.7%	-7.3%	-5.2%	-5.8%	-9.3%	-11.4%	-10.9%	-10.5%	2.3%	8.5%	0.2%	-1.4%
1978	1.8%	-1.5%	-3.8%	-1.8%	-0.1%	-0.1%	-0.6%	-1.3%	2.5%	13.1%	11.3%	7.0%
1979	4.0%	1.0%	1.0%	1.9%	-0.8%	-1.7%	-0.8%	2.8%	3.7%	-3.5%	-1.8%	-0.1%
1980	0.8%	0.4%	2.2%	1.4%	0.1%	0.0%	-0.1%	0.0%	-1.5%	-0.7%	0.4%	0.5%
1981	0.2%	0.2%	0.4%	0.5%	0.2%	0.0%	0.0%	6.6%	-3.2%	-2.0%	-0.5%	-0.7%
1982	-0.1%	0.0%	0.2%	0.9%	0.4%	-0.1%	0.0%	-0.2%	0.1%	0.3%	0.3%	0.4%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	0.1%	0.0%	0.1%	0.1%
1984	0.2%	0.0%	0.0%	0.0%	-1.2%	-1.5%	-1.2%	1.7%	-3.8%	-1.0%	0.9%	0.3%
1985	1.3%	2.4%	0.5%	0.1%	0.1%	0.0%	0.0%	6.0%	-4.0%	-2.0%	-0.6%	-0.8%
1986	-0.2%	0.3%	0.4%	0.2%	0.0%	-1.3%	-0.8%	0.9%	-3.3%	-5.6%	-2.5%	-0.9%
1987	0.1%	0.0%	-0.9%	40.3%	59.5%	5.1%	-0.1%	-0.5%	-11.4%	0.1%	1.0%	-0.1%
1988	0.6%	2.7%	120.0%	221.6%	5.7%	-7.3%	-9.9%	-2.9%	-12.3%	-2.8%	1.2%	-0.8%
1989	-4.7%	-8.0%	-5.6%	-3.4%	-4.1%	-3.1%	0.9%	1.1%	9.8%	4.1%	1.4%	-0.4%
1990	-4.1%	-5.5%	-4.1%	-3.0%	-0.8%	-0.2%	0.0%	0.0%	0.0%	0.4%	0.2%	0.1%
1991	0.0%	0.4%	0.1%	-0.3%	-0.3%	-0.1%	-0.1%	0.0%	0.1%	0.2%	0.0%	-0.2%
<b>Avg</b>	<b>-0.4%</b>	<b>-0.9%</b>	<b>6.6%</b>	<b>15.8%</b>	<b>3.0%</b>	<b>-1.4%</b>	<b>-1.5%</b>	<b>-0.4%</b>	<b>-1.7%</b>	<b>0.5%</b>	<b>0.4%</b>	<b>-0.3%</b>
<b>W/AN/BN</b>	<b>0.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>-0.2%</b>	<b>-0.7%</b>	<b>-0.5%</b>	<b>0.5%</b>	<b>-0.3%</b>	<b>0.4%</b>	<b>1.3%</b>	<b>1.0%</b>
<b>D/C</b>	<b>-1.5%</b>	<b>-1.6%</b>	<b>11.7%</b>	<b>27.7%</b>	<b>5.6%</b>	<b>-1.9%</b>	<b>-2.2%</b>	<b>-1.1%</b>	<b>-2.8%</b>	<b>0.6%</b>	<b>-0.2%</b>	<b>-1.3%</b>



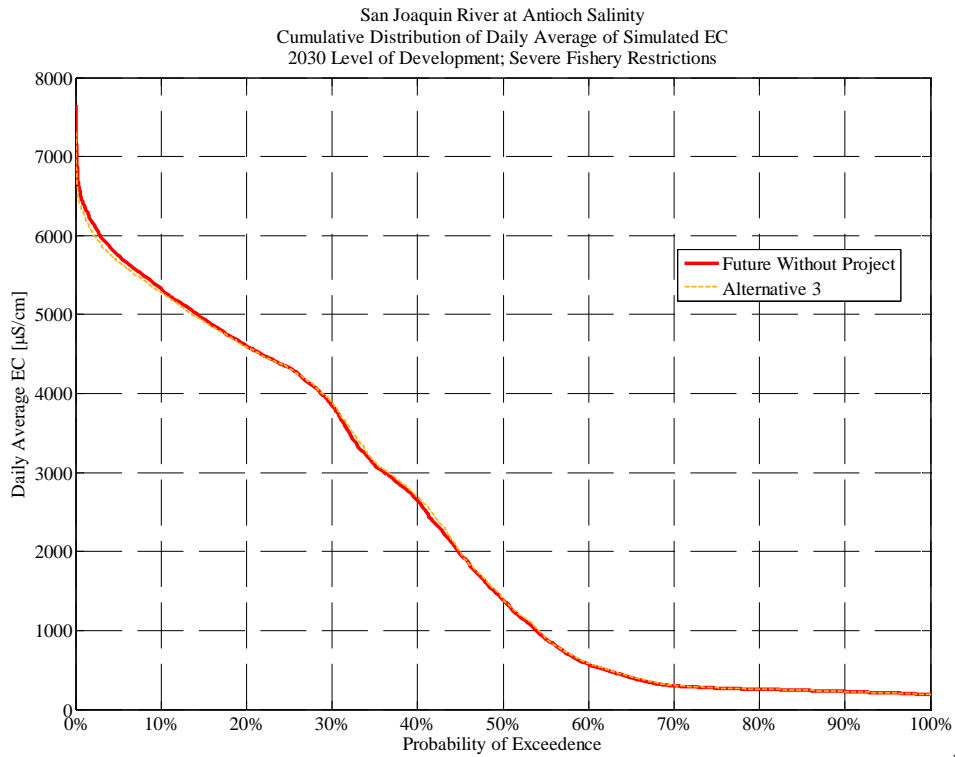
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04-Nov-2008 DS



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04-Nov-2008 DS



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04-Nov-2008 DS



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05-Nov-2008 DS

**Alternative 4**

**San Joaquin River at Antioch Salinity  
Monthly Average of Simulated Values (EC, µS/cm)**

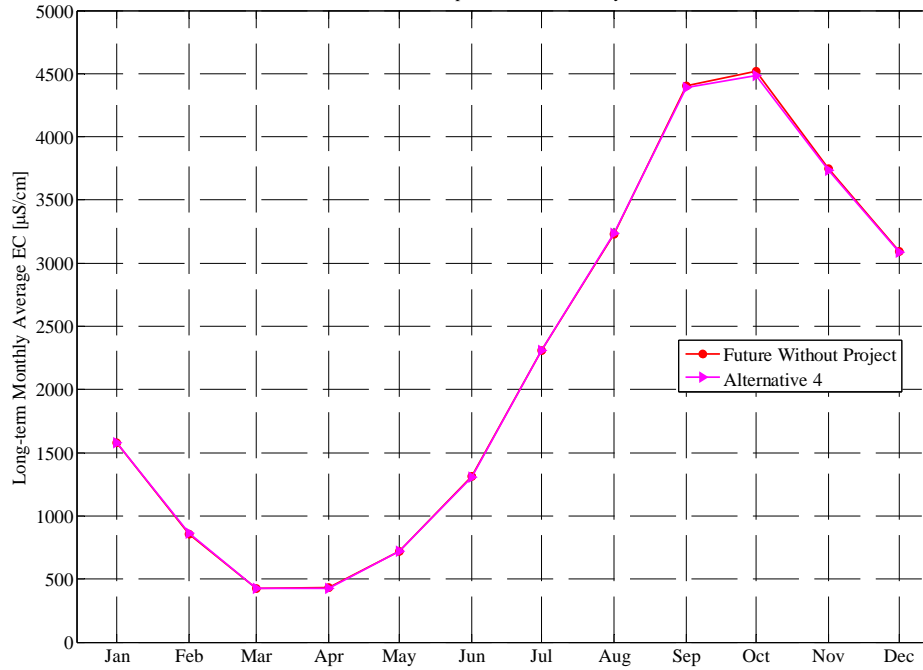
**Alternative 4****2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1,318	1,858	2,760	2,772	1,252	321	424	1,748	3,356	4,598	4,402	5,256
1977	5,862	5,381	5,050	4,836	3,082	1,772	1,859	2,742	3,316	3,860	4,916	5,712
1978	5,798	5,743	3,369	437	260	285	277	250	255	695	2,531	4,519
1979	5,162	5,554	4,440	869	279	241	239	262	361	1,417	3,141	5,398
1980	5,579	3,810	1,713	303	281	270	256	251	276	628	2,398	4,574
1981	4,932	5,021	4,993	1,362	260	219	259	429	1,289	2,914	3,533	4,639
1982	5,537	1,461	211	239	227	242	218	198	204	434	2,249	778
1983	205	199	238	308	299	260	239	225	218	213	217	202
1984	308	201	230	244	226	206	236	300	581	1,177	2,456	4,918
1985	4,696	1,194	321	606	344	241	312	450	1,367	2,764	3,332	4,949
1986	4,900	4,875	3,361	858	261	272	251	240	356	727	2,311	4,082
1987	4,467	4,782	5,318	2,315	503	240	371	886	1,669	2,786	3,671	4,782
1988	5,260	4,927	2,076	367	369	706	748	1,115	1,667	3,725	4,199	4,559
1989	5,885	4,570	5,306	3,429	1,787	366	215	241	1,086	2,474	3,266	4,926
1990	5,660	5,318	4,955	1,592	529	430	623	1,183	2,550	4,324	4,411	5,291
1991	6,137	4,828	5,085	4,736	3,797	773	337	1,011	2,388	4,168	4,705	5,700
<b>Avg</b>	<b>4,482</b>	<b>3,733</b>	<b>3,089</b>	<b>1,580</b>	<b>860</b>	<b>428</b>	<b>429</b>	<b>721</b>	<b>1,309</b>	<b>2,306</b>	<b>3,234</b>	<b>4,393</b>
<b>W/AN/BN</b>	<b>3,927</b>	<b>3,121</b>	<b>1,937</b>	<b>465</b>	<b>262</b>	<b>254</b>	<b>245</b>	<b>247</b>	<b>322</b>	<b>756</b>	<b>2,186</b>	<b>3,496</b>
<b>D/C</b>	<b>4,913</b>	<b>4,209</b>	<b>3,985</b>	<b>2,446</b>	<b>1,325</b>	<b>563</b>	<b>572</b>	<b>1,089</b>	<b>2,077</b>	<b>3,513</b>	<b>4,048</b>	<b>5,090</b>

**Percent (%) Change from Future Without Project for San Joaquin River at Antioch****(Alternative 4 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

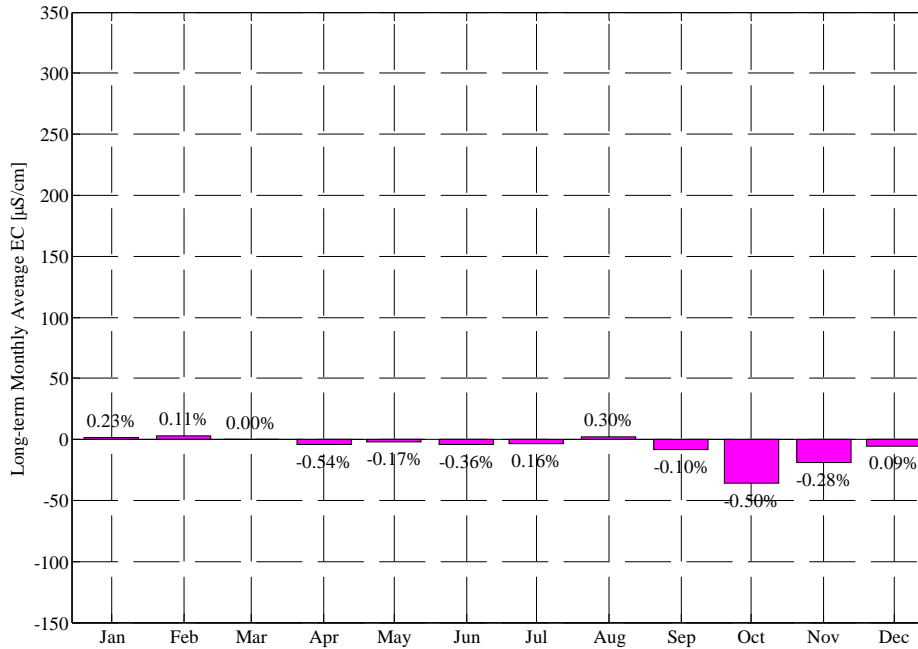
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	-0.1%	-0.1%	-3.3%	-5.6%
1977	-6.8%	-6.4%	-4.9%	-1.5%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%	-0.1%	-0.1%	0.0%
1979	-0.1%	-0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	1.7%
1980	-0.4%	-1.5%	-0.3%	-0.4%	-1.0%	-0.7%	-0.4%	-0.1%	0.0%	4.6%	4.6%	1.9%
1981	1.0%	0.3%	1.1%	2.8%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.5%
1982	0.4%	0.5%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.3%	0.1%	0.0%
1985	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	0.1%
1986	0.0%	7.6%	7.0%	2.3%	0.1%	0.0%	0.3%	0.3%	0.0%	0.0%	1.3%	2.1%
1987	2.1%	1.2%	0.4%	0.2%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.2%	0.2%	-0.8%	0.1%	0.1%	-8.3%	-2.8%	-0.3%	0.0%	-0.6%	-4.7%
1989	-6.0%	-5.9%	-2.2%	0.1%	0.8%	0.1%	-0.2%	-0.1%	-5.8%	-1.4%	-0.2%	1.7%
1990	1.6%	0.3%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	-1.0%	-0.3%	0.5%
1991	0.1%	-0.6%	-0.5%	0.8%	0.9%	0.5%	0.1%	0.0%	0.0%	-0.1%	0.0%	0.0%
<b>Avg</b>	<b>-0.5%</b>	<b>-0.3%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>-0.5%</b>	<b>-0.2%</b>	<b>-0.4%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>-0.1%</b>
<b>W/AN/BN</b>	<b>0.0%</b>	<b>0.9%</b>	<b>1.0%</b>	<b>0.3%</b>	<b>-0.1%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.7%</b>	<b>1.3%</b>	<b>0.8%</b>
<b>D/C</b>	<b>-0.9%</b>	<b>-1.2%</b>	<b>-0.6%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>-0.9%</b>	<b>-0.3%</b>	<b>-0.7%</b>	<b>-0.3%</b>	<b>-0.5%</b>	<b>-0.8%</b>

San Joaquin River at Antioch Salinity  
 Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Severe Fishery Restrictions



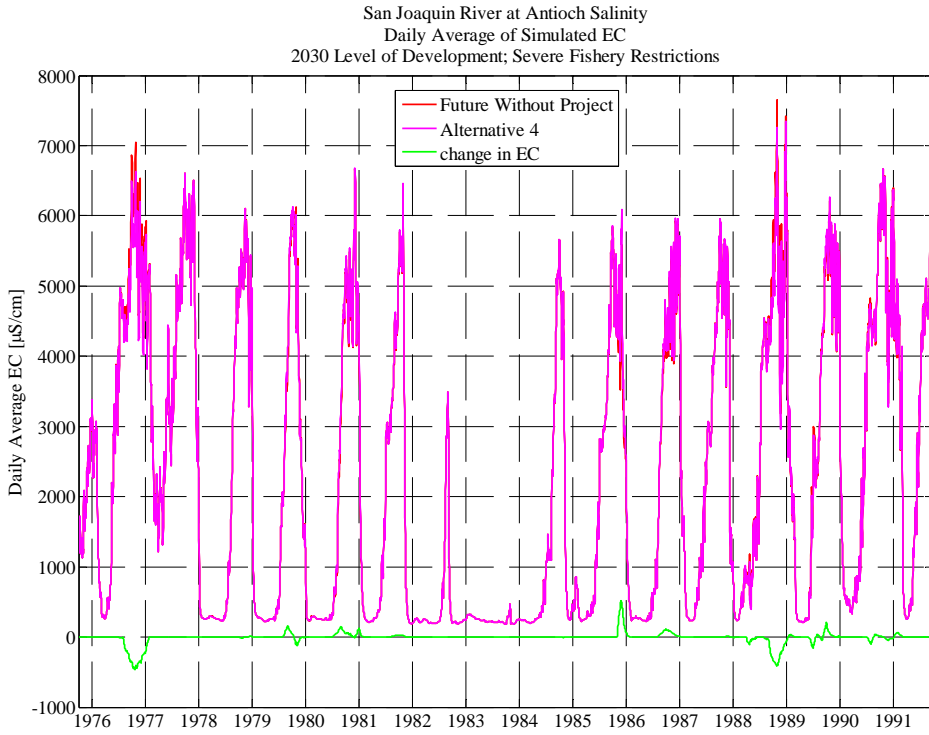
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San Joaquin River at Antioch Salinity  
 Change from Future Without Project for Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Severe Fishery Restrictions  
 Alternative 4

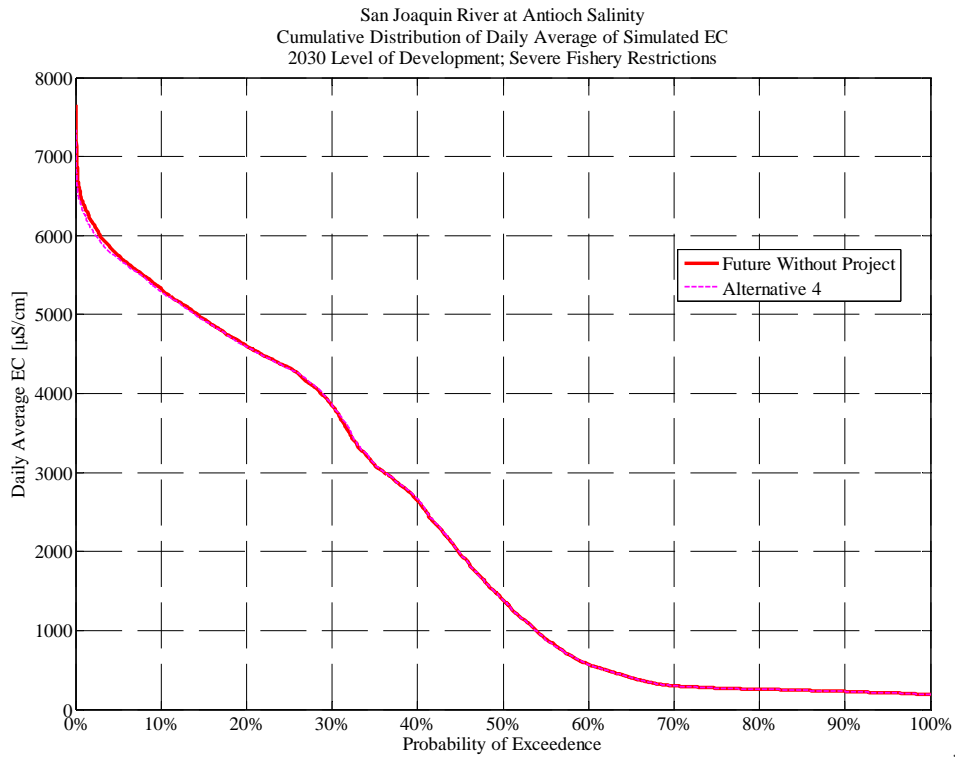


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## Old River at Rock Slough

### *Future Without Project*

**Old River at Rock Slough Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	270	284	534	699	554	429	437	445	588	822	832	928
1977	1,183	1,120	1,110	1,072	977	731	566	553	706	663	844	1,047
1978	1,238	1,205	915	447	392	467	460	367	286	244	343	705
1979	840	888	912	601	373	310	358	329	261	258	431	820
1980	1,033	733	506	372	414	414	418	361	296	263	316	651
1981	821	791	1,042	815	325	322	440	421	308	530	673	808
1982	1,012	619	216	336	323	333	253	236	248	260	313	299
1983	194	228	343	462	358	285	331	280	254	271	209	191
1984	195	225	322	363	293	255	343	341	277	250	339	742
1985	832	471	227	232	265	392	498	449	320	535	695	855
1986	933	778	798	485	434	364	345	276	258	276	316	584
1987	694	742	996	876	417	362	428	415	345	549	712	863
1988	965	869	625	305	269	360	381	363	360	651	898	857
1989	1,133	1,082	1,024	1,045	603	440	356	306	273	553	714	922
1990	994	931	1,031	629	320	370	343	348	414	782	862	901
1991	1,184	1,106	969	1,147	1,003	630	416	342	391	680	856	1,010
<b>Avg</b>	845	754	723	618	457	404	398	365	349	474	585	761
<b>W/AN/BN</b>	778	668	573	438	370	347	358	313	269	260	324	570
<b>D/C</b>	897	822	840	758	526	448	429	405	412	641	788	910

**Alternative 1**

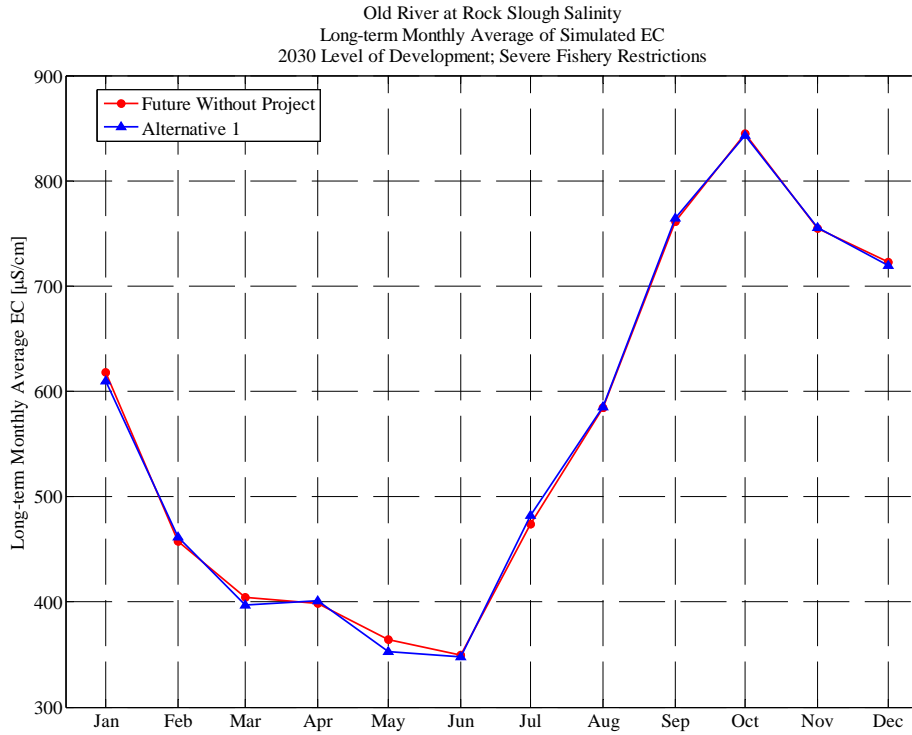
**Old River at Rock Slough Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )**

**Alternative 1****2030 Level of Development; Severe Fishery Restrictions**

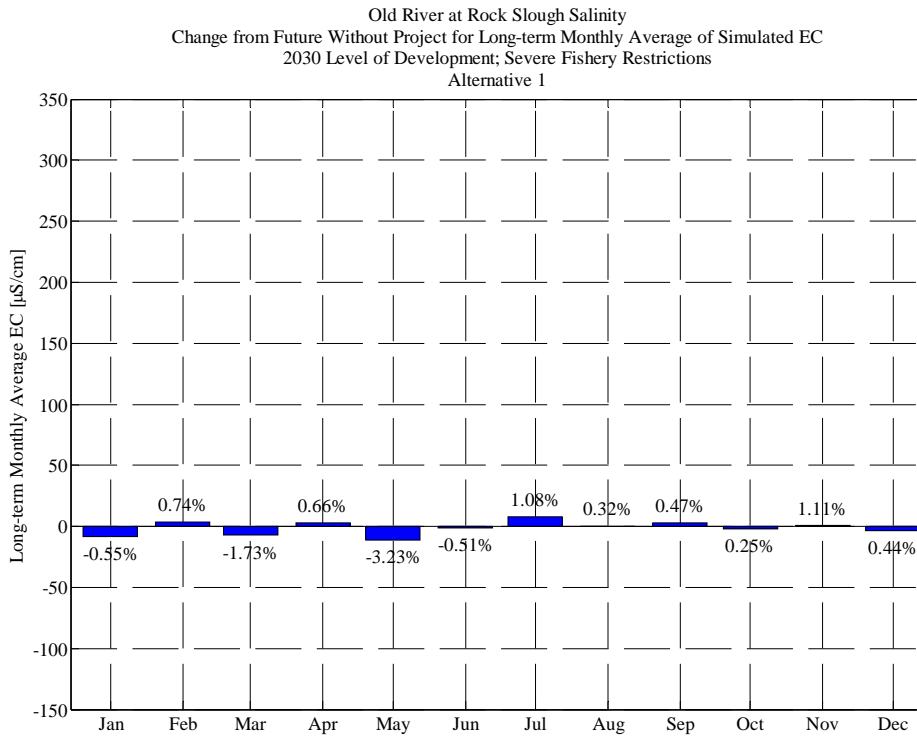
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	289	329	604	737	564	400	433	445	593	830	824	870
1977	1,093	1,041	1,035	1,004	948	708	584	570	697	739	868	1,022
1978	1,241	1,210	881	442	392	468	453	339	278	242	398	810
1979	887	908	914	595	364	299	351	307	253	253	417	814
1980	1,025	749	531	361	411	412	419	329	294	264	316	648
1981	816	784	1,023	801	327	320	438	380	310	556	660	844
1982	1,037	633	216	334	323	332	252	229	247	261	314	299
1983	193	228	338	455	358	285	328	277	254	267	208	191
1984	195	224	321	362	292	254	343	329	273	249	335	735
1985	831	474	228	238	267	382	497	411	314	520	682	863
1986	943	844	910	502	446	361	333	257	255	276	306	561
1987	682	736	984	861	412	356	440	413	347	580	709	868
1988	974	880	638	319	272	356	418	369	367	687	901	836
1989	1,059	1,002	902	964	664	447	385	315	275	529	711	943
1990	1,031	941	1,036	633	322	344	336	343	414	778	856	916
1991	1,188	1,102	955	1,145	1,020	622	410	338	390	680	854	1,009
<b>Avg</b>	843	755	720	609	461	397	401	353	348	482	585	764
<b>W/AN/BN</b>	789	685	587	436	369	344	354	295	265	259	328	580
<b>D/C</b>	885	810	823	745	533	437	438	398	412	656	785	908

**Percent (%) Change from Future Without Project for Old River at Rock Slough Salinity****(Alternative 1 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

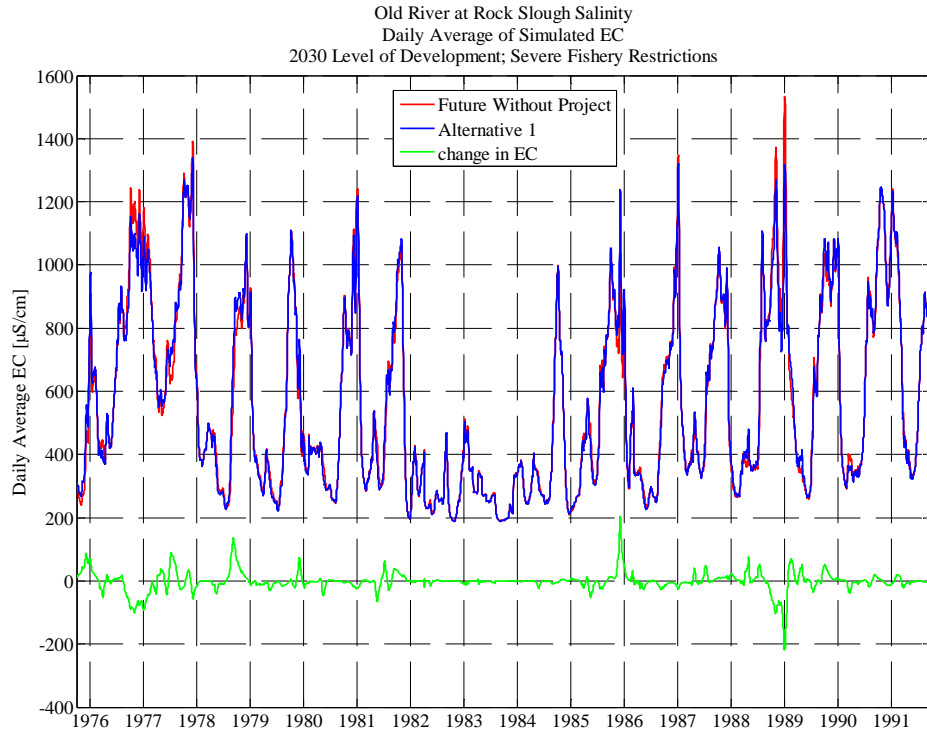
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	7.0%	15.9%	13.2%	5.4%	1.9%	-6.7%	-1.0%	-0.1%	0.8%	0.9%	-0.9%	-6.2%
1977	-7.6%	-7.0%	-6.7%	-6.4%	-3.0%	-3.0%	3.3%	3.1%	-1.3%	11.5%	2.9%	-2.4%
1978	0.2%	0.4%	-3.7%	-1.1%	0.0%	0.1%	-1.5%	-7.5%	-3.0%	-0.7%	16.0%	14.9%
1979	5.5%	2.3%	0.2%	-1.1%	-2.4%	-3.7%	-1.9%	-6.8%	-2.9%	-2.1%	-3.4%	-0.7%
1980	-0.8%	2.2%	4.9%	-3.0%	-0.7%	-0.6%	0.4%	-8.8%	-0.4%	0.6%	0.1%	-0.3%
1981	-0.6%	-0.8%	-1.9%	-1.7%	0.6%	-0.5%	-0.4%	-9.9%	0.5%	5.0%	-1.8%	4.4%
1982	2.4%	2.2%	0.2%	-0.6%	0.0%	-0.1%	-0.7%	-2.9%	0.0%	0.5%	0.2%	0.0%
1983	-0.1%	-0.2%	-1.4%	-1.6%	-0.2%	0.0%	-0.8%	-1.0%	-0.1%	-1.6%	-0.3%	0.0%
1984	0.1%	0.0%	-0.4%	-0.4%	-0.2%	-0.2%	-0.1%	-3.6%	-1.4%	-0.5%	-1.0%	-0.9%
1985	-0.1%	0.8%	0.5%	2.5%	0.8%	-2.7%	-0.3%	-8.4%	-1.9%	-2.8%	-1.9%	0.9%
1986	1.1%	8.4%	14.0%	3.5%	2.7%	-0.9%	-3.3%	-6.8%	-1.2%	0.1%	-3.1%	-4.0%
1987	-1.7%	-0.8%	-1.1%	-1.7%	-1.1%	-1.5%	2.7%	-0.4%	0.5%	5.6%	-0.4%	0.5%
1988	1.0%	1.2%	2.0%	4.8%	1.2%	-1.2%	9.9%	1.6%	1.9%	5.5%	0.3%	-2.4%
1989	-6.5%	-7.4%	-11.9%	-7.8%	10.2%	1.6%	8.1%	2.8%	0.5%	-4.4%	-0.4%	2.3%
1990	3.7%	1.2%	0.5%	0.5%	0.6%	-6.9%	-2.1%	-1.5%	0.1%	-0.5%	-0.7%	1.7%
1991	0.4%	-0.4%	-1.4%	-0.2%	1.7%	-1.2%	-1.6%	-1.3%	-0.3%	0.0%	-0.3%	-0.1%
<b>Avg</b>	0.3%	1.1%	0.4%	-0.6%	0.7%	-1.7%	0.7%	-3.2%	-0.5%	1.1%	0.3%	0.5%
<b>W/AN/BN</b>	1.2%	2.2%	2.0%	-0.6%	-0.1%	-0.8%	-1.1%	-5.4%	-1.3%	-0.5%	1.2%	1.3%
<b>D/C</b>	-0.5%	0.3%	-0.8%	-0.5%	1.4%	-2.5%	2.1%	-1.6%	0.1%	2.3%	-0.4%	-0.2%



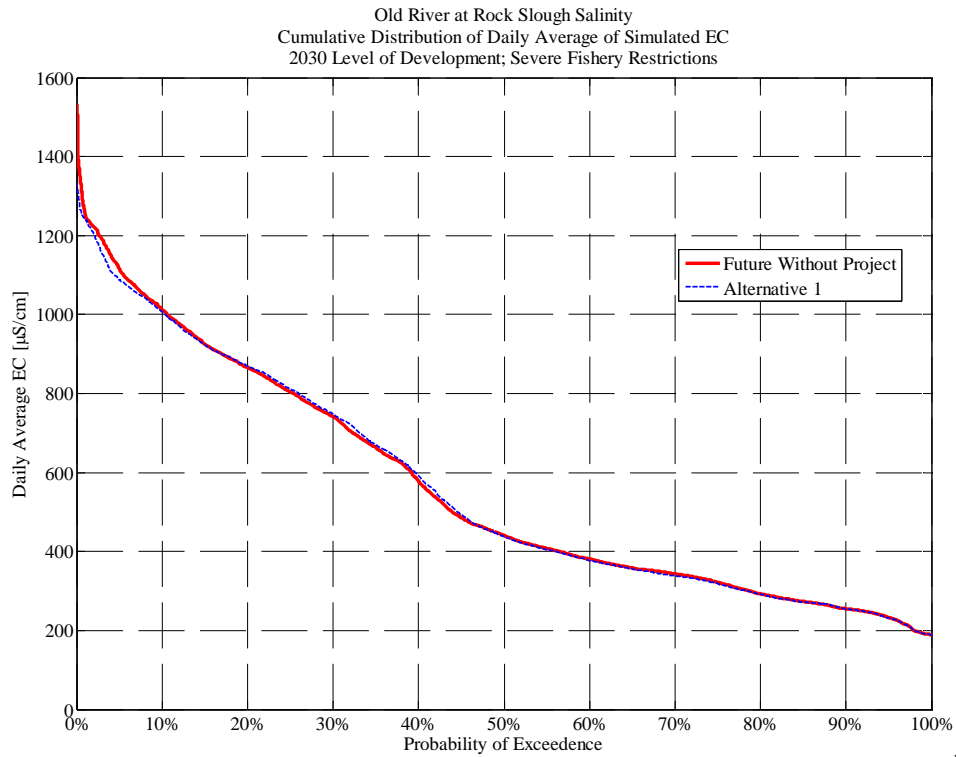
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**Alternative 2**

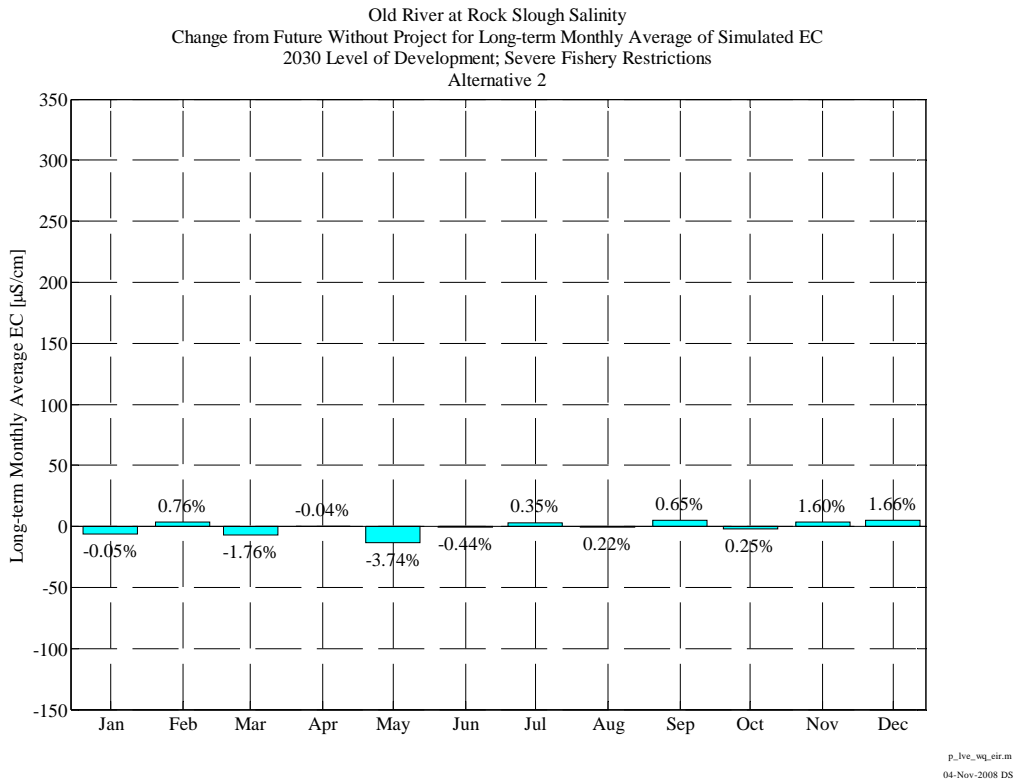
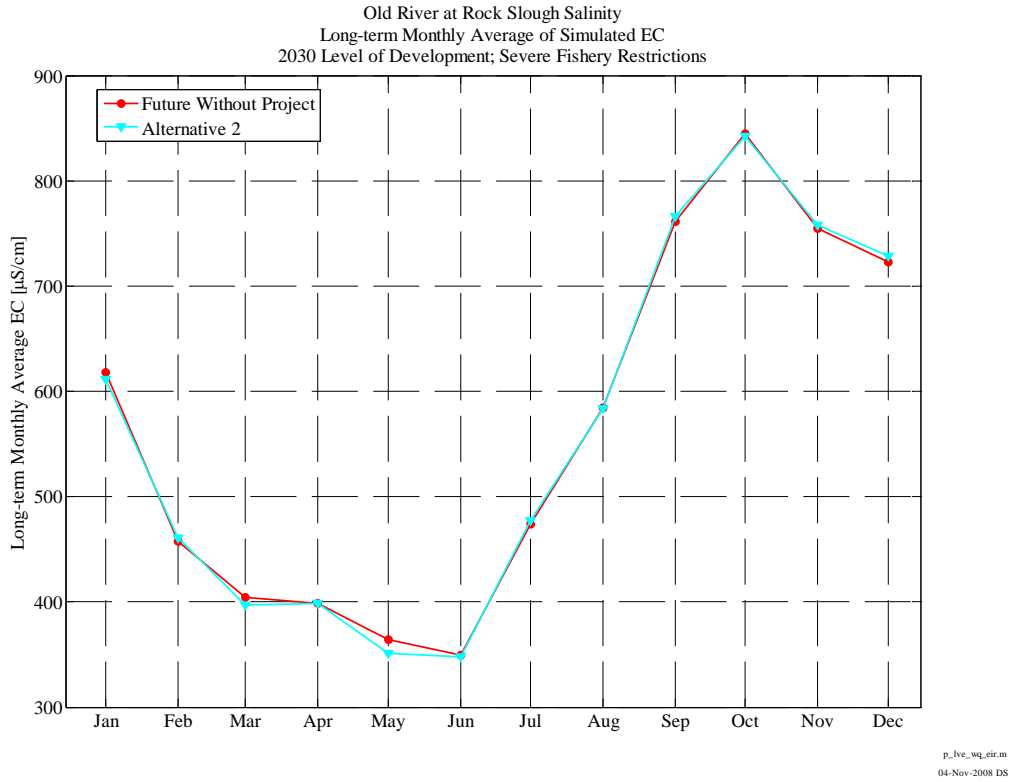
**Old River at Rock Slough Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 2**

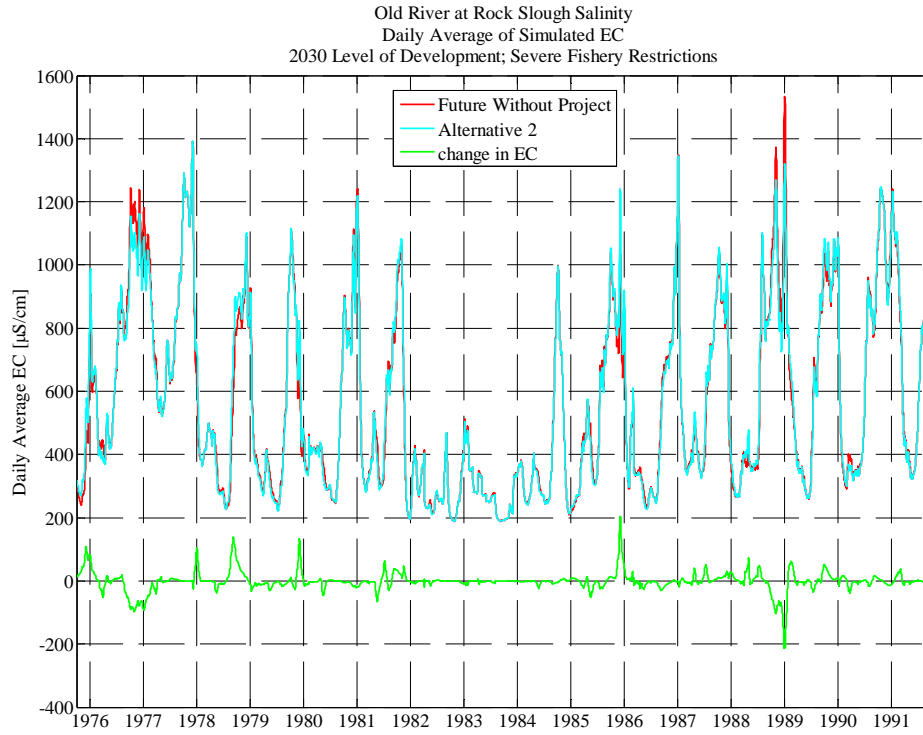
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	289	336	619	742	562	398	432	444	593	831	825	870
1977	1,094	1,041	1,035	1,004	945	707	568	551	705	669	849	1,048
1978	1,238	1,204	948	481	392	468	459	342	278	242	398	811
1979	887	910	914	581	361	299	351	307	253	253	417	816
1980	1,026	769	561	361	410	412	419	329	295	264	316	648
1981	816	784	1,023	801	323	318	437	379	310	556	660	844
1982	1,037	644	218	331	322	332	252	229	247	261	314	299
1983	193	228	337	454	358	285	328	277	254	267	208	191
1984	195	224	321	362	291	254	343	329	273	249	335	735
1985	831	476	229	240	269	380	495	411	314	520	683	864
1986	944	844	911	499	446	360	333	257	254	274	305	557
1987	681	737	995	871	418	355	439	413	347	580	710	868
1988	974	884	646	320	270	355	418	366	371	685	899	838
1989	1,060	1,002	903	965	657	444	352	302	273	529	714	945
1990	1,031	941	1,037	634	332	347	337	343	414	778	857	915
1991	1,188	1,102	956	1,145	1,025	637	411	338	391	680	855	1,010
<b>Avg</b>	843	758	728	612	461	397	398	351	348	477	584	766
<b>W/AN/BN</b>	789	689	601	438	368	344	355	296	265	258	328	580
<b>D/C</b>	885	812	827	747	533	438	432	394	413	648	783	911

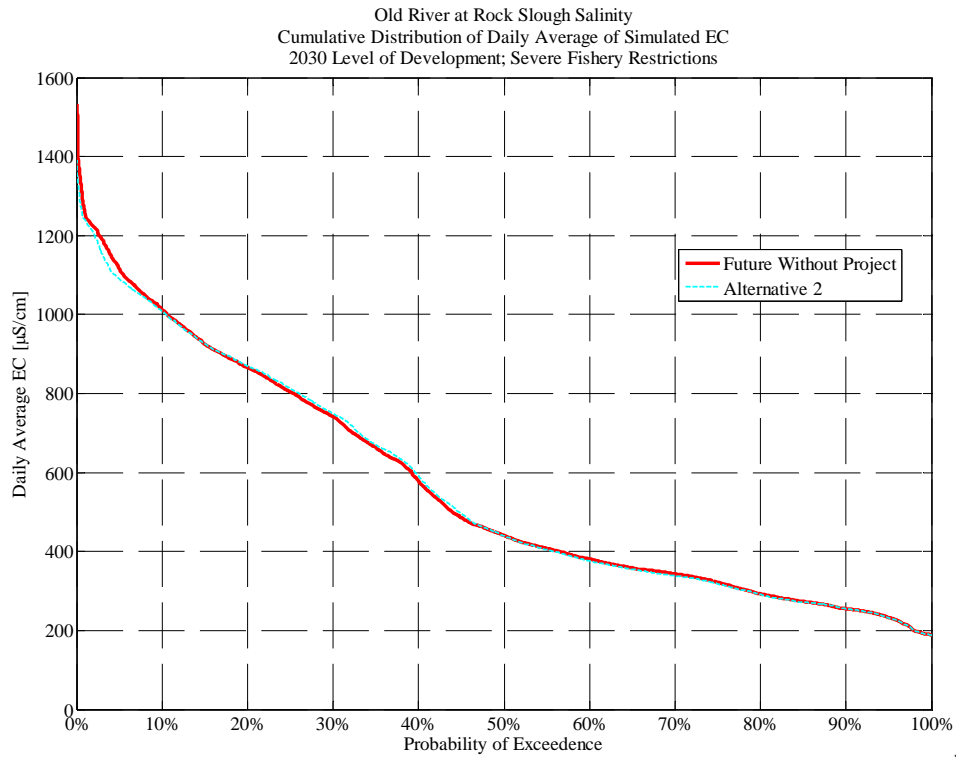
**Percent (%) Change from Future Without Project for Old River at Rock Slough Salinity  
(Alternative 2 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	7.1%	18.3%	16.1%	6.1%	1.5%	-7.1%	-1.3%	-0.2%	0.8%	1.0%	-0.9%	-6.2%
1977	-7.5%	-7.0%	-6.7%	-6.4%	-3.3%	-3.2%	0.4%	-0.4%	0.0%	1.0%	0.5%	0.1%
1978	0.0%	0.0%	3.6%	7.5%	-0.1%	0.1%	-0.2%	-6.8%	-3.0%	-0.8%	16.3%	15.1%
1979	5.7%	2.4%	0.3%	-3.4%	-3.2%	-3.8%	-2.0%	-6.8%	-3.1%	-2.0%	-3.3%	-0.4%
1980	-0.7%	4.9%	10.7%	-3.0%	-1.0%	-0.6%	0.4%	-8.8%	-0.3%	0.6%	0.1%	-0.3%
1981	-0.6%	-0.9%	-1.8%	-1.7%	-0.6%	-1.4%	-0.7%	-9.9%	0.5%	5.0%	-1.8%	4.4%
1982	2.4%	4.1%	0.9%	-1.6%	-0.5%	-0.1%	-0.7%	-2.9%	0.0%	0.5%	0.2%	0.0%
1983	-0.2%	-0.2%	-1.8%	-1.8%	-0.2%	-0.1%	-0.7%	-1.0%	-0.1%	-1.6%	-0.3%	0.0%
1984	0.1%	0.0%	-0.3%	-0.4%	-0.7%	-0.5%	-0.2%	-3.6%	-1.4%	-0.5%	-1.0%	-0.9%
1985	-0.1%	1.1%	0.8%	3.5%	1.4%	-3.2%	-0.6%	-8.5%	-1.9%	-2.8%	-1.9%	1.0%
1986	1.1%	8.4%	14.0%	2.8%	2.6%	-1.0%	-3.3%	-6.8%	-1.7%	-0.8%	-3.3%	-4.6%
1987	-1.9%	-0.6%	0.0%	-0.6%	0.3%	-1.8%	2.6%	-0.5%	0.5%	5.6%	-0.4%	0.5%
1988	1.0%	1.8%	3.4%	5.2%	0.7%	-1.5%	9.8%	0.7%	3.1%	5.1%	0.1%	-2.2%
1989	-6.4%	-7.4%	-11.9%	-7.7%	9.1%	0.8%	-1.1%	-1.6%	-0.3%	-4.4%	-0.1%	2.6%
1990	3.7%	1.2%	0.6%	0.7%	3.9%	-6.1%	-1.8%	-1.4%	0.1%	-0.5%	-0.6%	1.5%
1991	0.4%	-0.4%	-1.3%	-0.2%	2.2%	1.2%	-1.2%	-1.2%	-0.2%	0.0%	-0.1%	0.0%
<b>Avg</b>	0.2%	1.6%	1.7%	-0.1%	0.8%	-1.8%	0.0%	-3.7%	-0.4%	0.4%	0.2%	0.7%
<b>W/AN/BN</b>	1.2%	2.8%	3.9%	0.0%	-0.4%	-0.9%	-1.0%	-5.3%	-1.4%	-0.6%	1.2%	1.3%
<b>D/C</b>	-0.5%	0.7%	-0.1%	-0.1%	1.7%	-2.5%	0.7%	-2.6%	0.3%	1.1%	-0.6%	0.2%





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05-Nov-2008 DS



**Alternative 3**

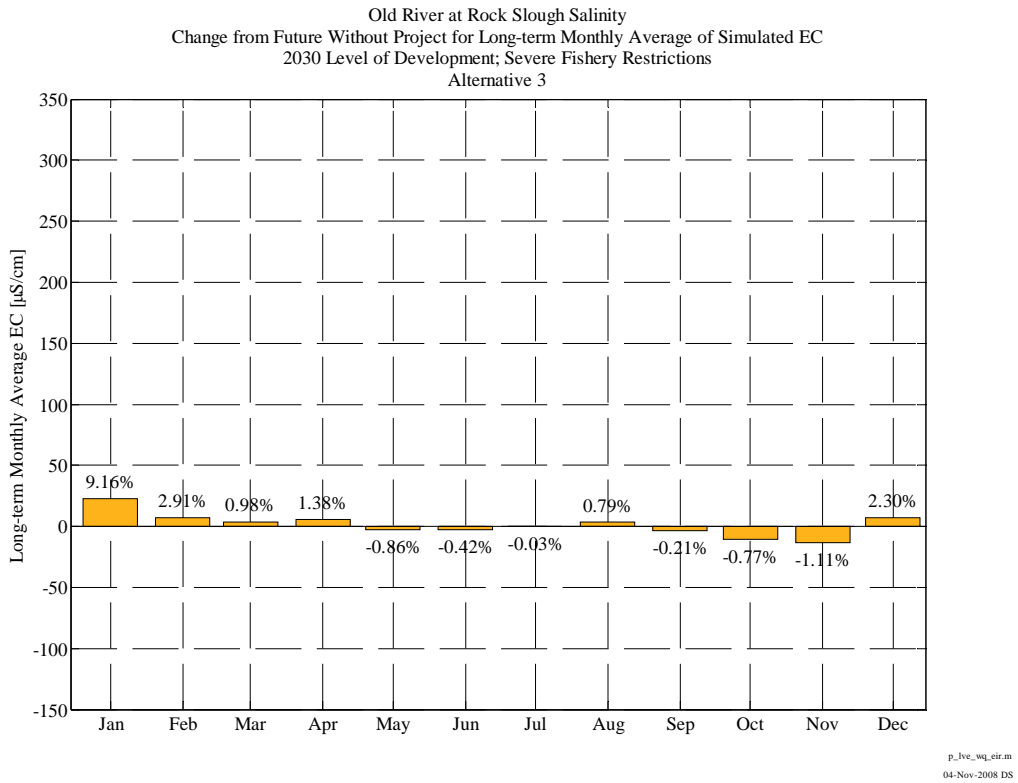
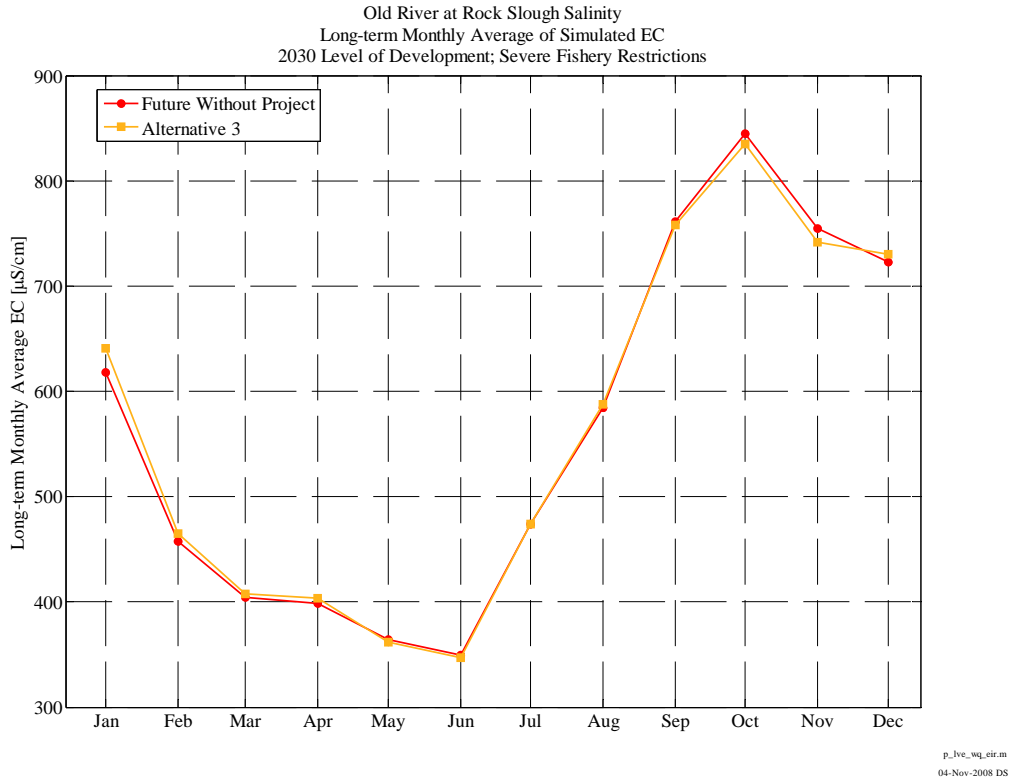
**Old River at Rock Slough Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )  
Alternative 3**

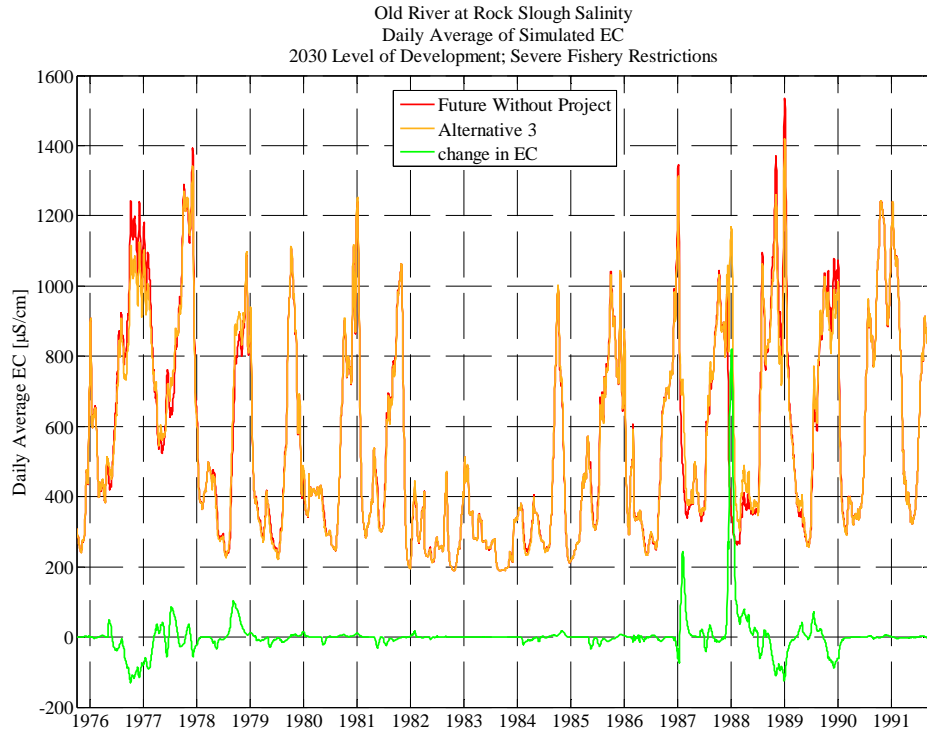
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	271	285	535	698	552	431	439	475	559	796	800	836
1977	1,066	1,021	1,020	999	905	734	588	573	686	738	867	1,022
1978	1,242	1,210	880	440	392	467	451	343	280	242	383	797
1979	899	909	920	608	366	301	354	309	252	253	419	814
1980	1,039	738	514	378	414	414	417	344	295	263	317	656
1981	825	792	1,049	821	326	322	440	402	306	512	667	799
1982	1,009	619	215	345	326	332	253	233	247	260	314	300
1983	194	228	343	462	358	285	331	279	255	271	208	191
1984	195	225	322	363	276	245	337	336	277	249	342	747
1985	841	481	228	232	265	392	498	426	315	516	689	844
1986	927	779	805	487	432	360	345	269	258	281	312	574
1987	693	742	978	914	577	385	431	416	359	532	733	855
1988	954	872	1,017	776	339	423	440	381	378	607	902	853
1989	1,058	989	925	983	590	438	381	317	273	602	736	930
1990	960	862	957	601	315	368	343	348	414	782	863	899
1991	1,183	1,109	972	1,147	999	628	415	341	390	681	858	1,008
<b>Avg</b>	835	741	730	641	465	408	404	362	347	474	588	758
<b>W/AN/BN</b>	786	672	571	441	366	343	355	302	266	260	328	583
<b>D/C</b>	872	795	853	797	541	458	442	409	409	641	791	894

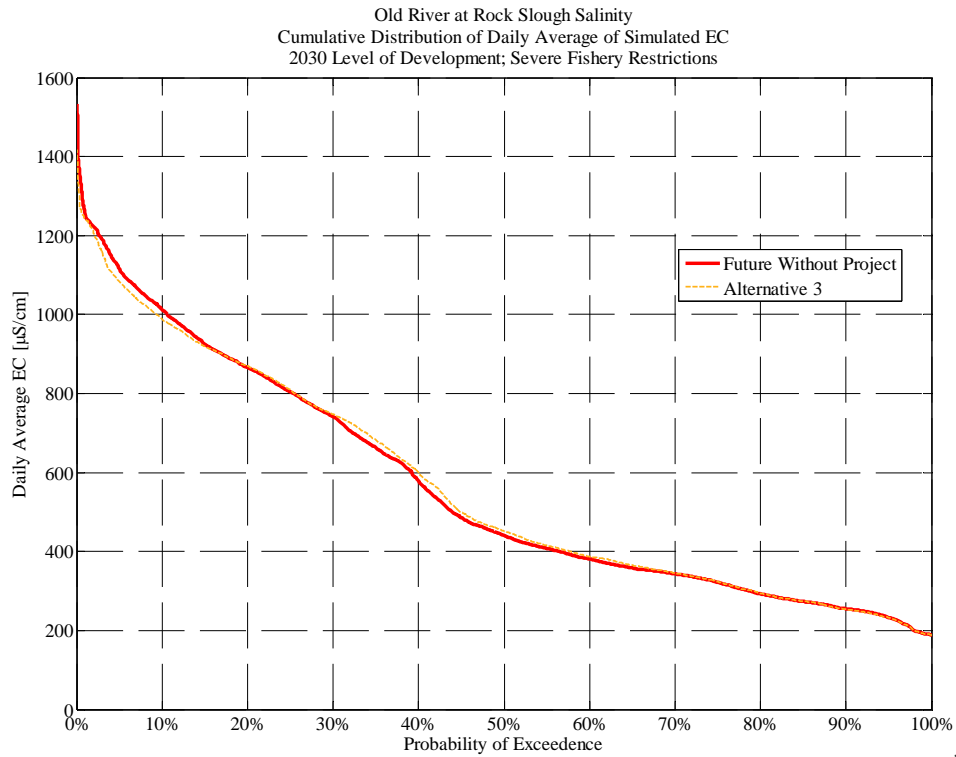
**Percent (%) Change from Future Without Project for Old River at Rock Slough Salinity  
(Alternative 3 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.4%	0.4%	0.3%	-0.1%	-0.4%	0.6%	0.4%	6.7%	-4.9%	-3.2%	-3.9%	-9.9%
1977	-9.9%	-8.9%	-8.1%	-6.9%	-7.4%	0.5%	4.0%	3.7%	-2.7%	11.3%	2.7%	-2.4%
1978	0.3%	0.4%	-3.8%	-1.6%	-0.1%	0.0%	-2.0%	-6.4%	-2.3%	-0.6%	11.7%	13.1%
1979	7.1%	2.3%	0.9%	1.2%	-1.7%	-3.1%	-1.2%	-6.2%	-3.3%	-1.8%	-3.0%	-0.7%
1980	0.5%	0.7%	1.5%	1.5%	0.1%	0.0%	0.0%	-4.7%	-0.2%	0.2%	0.3%	0.8%
1981	0.5%	0.2%	0.6%	0.7%	0.2%	0.0%	0.0%	-4.6%	-0.7%	-3.4%	-0.9%	-1.2%
1982	-0.4%	0.0%	-0.2%	2.6%	0.8%	-0.2%	-0.1%	-1.1%	0.0%	0.2%	0.2%	0.2%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.4%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	-5.6%	-3.8%	-1.8%	-1.6%	0.0%	-0.5%	0.9%	0.7%
1985	1.1%	2.3%	0.5%	0.1%	0.0%	0.0%	0.0%	-5.1%	-1.4%	-3.5%	-0.9%	-1.3%
1986	-0.6%	0.1%	0.8%	0.4%	-0.5%	-1.1%	0.0%	-2.5%	-0.1%	1.7%	-1.2%	-1.6%
1987	-0.1%	0.0%	-1.8%	4.3%	38.6%	6.4%	0.8%	0.2%	4.1%	-3.2%	2.8%	-1.0%
1988	-1.1%	0.4%	62.6%	154.8%	26.3%	17.3%	15.5%	4.9%	5.1%	-6.8%	0.5%	-0.4%
1989	-6.6%	-8.6%	-9.7%	-6.0%	-2.1%	-0.4%	7.0%	3.4%	-0.1%	8.7%	3.1%	0.9%
1990	-3.5%	-7.4%	-7.1%	-4.6%	-1.4%	-0.4%	-0.1%	-0.1%	-0.1%	0.1%	0.1%	-0.3%
1991	-0.1%	0.3%	0.4%	0.0%	-0.4%	-0.3%	-0.3%	-0.3%	-0.3%	0.2%	0.1%	-0.2%
<b>Avg</b>	-0.8%	-1.1%	2.3%	9.2%	2.9%	1.0%	1.4%	-0.9%	-0.4%	0.0%	0.8%	-0.2%
<b>W/AN/BN</b>	1.0%	0.5%	-0.1%	0.6%	-1.0%	-1.2%	-0.7%	-3.2%	-0.8%	-0.1%	1.3%	1.8%
<b>D/C</b>	-2.1%	-2.4%	4.2%	15.8%	5.9%	2.6%	3.0%	1.0%	-0.1%	0.0%	0.4%	-1.7%





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**Alternative 4**

**Old River at Rock Slough Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 4**

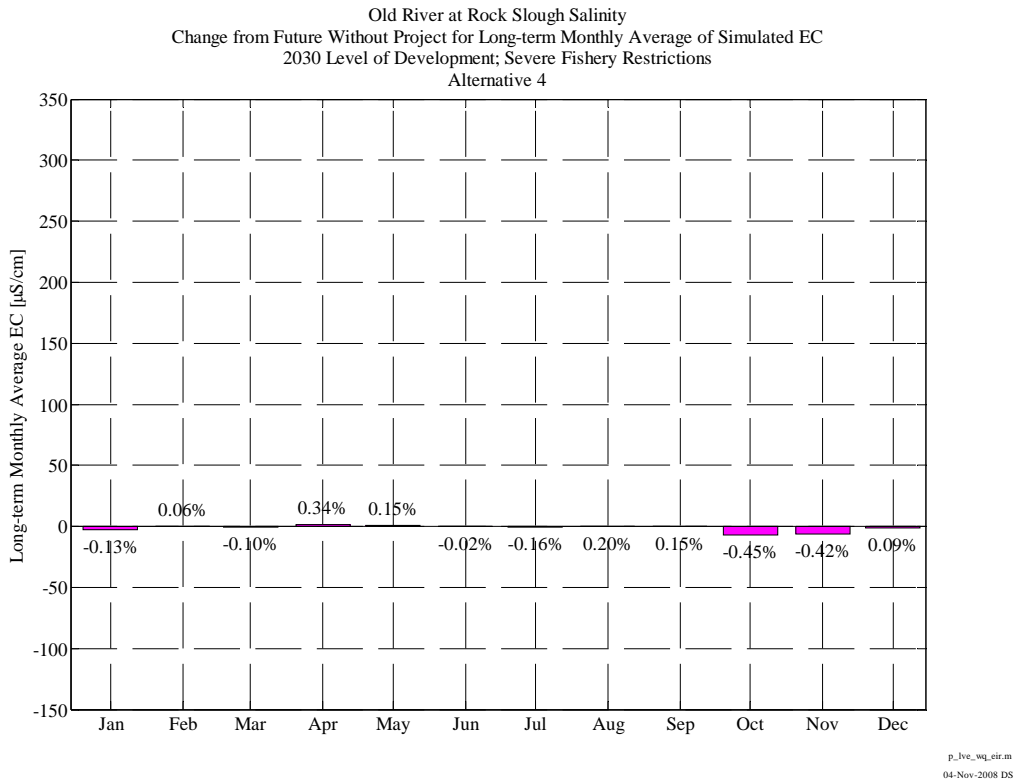
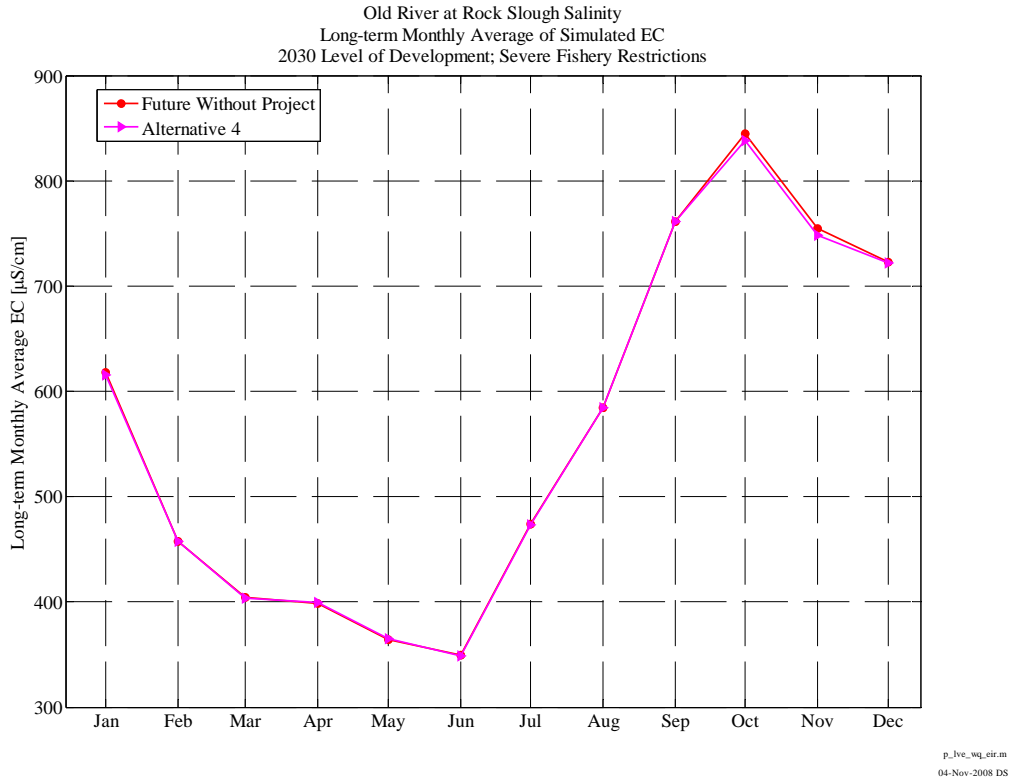
**2030 Level of Development; Severe Fishery Restrictions**

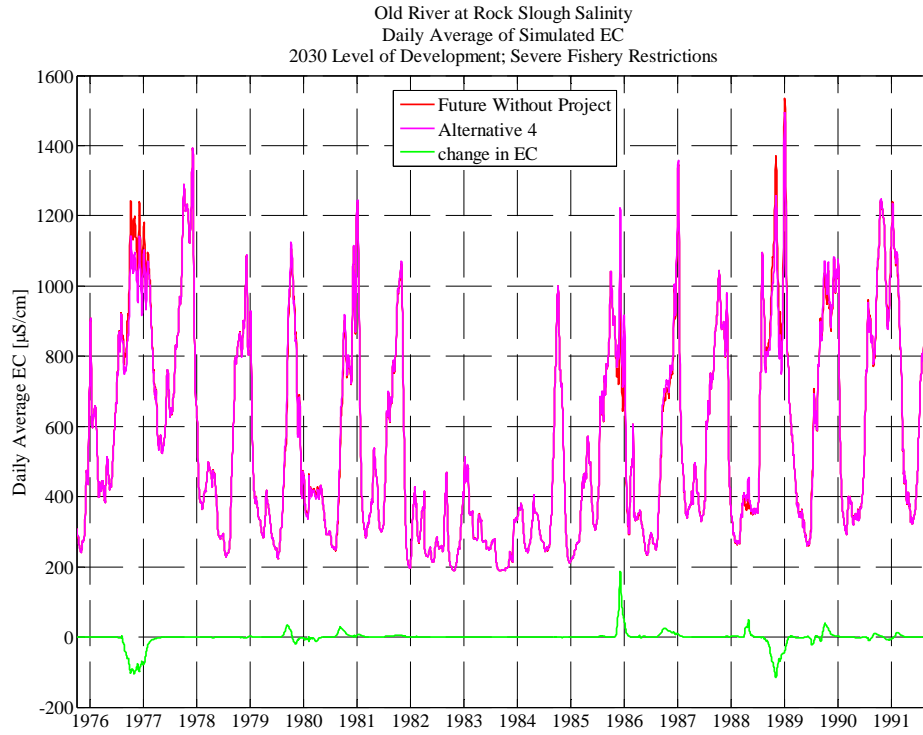
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	270	284	534	699	554	429	437	445	588	821	812	863
1977	1,084	1,030	1,028	1,021	964	725	564	552	705	663	845	1,047
1978	1,238	1,205	915	447	392	467	459	367	286	244	342	704
1979	840	887	912	602	373	310	358	329	261	258	440	849
1980	1,034	720	504	366	410	407	413	360	296	262	326	675
1981	832	794	1,045	821	327	323	440	421	308	532	675	812
1982	1,018	622	216	336	324	333	253	236	247	260	314	300
1983	194	228	343	462	358	285	331	280	254	271	209	191
1984	195	225	322	363	293	255	343	341	277	250	339	743
1985	831	470	227	232	265	392	498	449	320	537	697	856
1986	933	834	902	502	435	364	345	277	259	276	318	600
1987	716	757	1,007	881	418	362	428	415	345	550	712	863
1988	964	870	626	307	270	361	410	374	361	651	893	830
1989	1,050	997	974	1,027	604	439	354	305	273	539	714	930
1990	1,024	940	1,034	630	320	370	342	347	413	779	859	910
1991	1,188	1,104	961	1,147	1,014	634	417	343	391	679	856	1,010
<b>Avg</b>	838	748	722	615	457	403	400	365	349	473	584	761
<b>W/AN/BN</b>	779	674	588	440	369	346	358	313	269	260	327	580
<b>D/C</b>	884	805	826	752	526	448	432	406	412	639	785	902

**Percent (%) Change from Future Without Project for Old River at Rock Slough Salinity  
(Alternative 4 - Future Without Project) / Future Without Project**

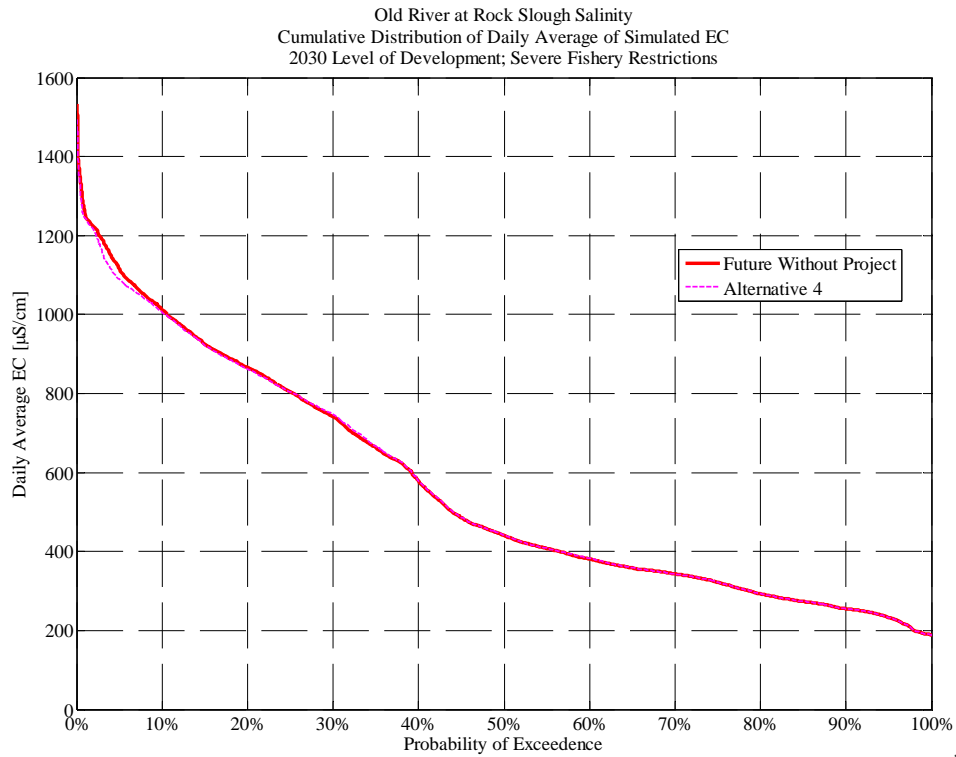
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-2.4%	-7.0%
1977	-8.3%	-8.0%	-7.3%	-4.7%	-1.4%	-0.8%	-0.3%	-0.1%	0.0%	0.1%	0.0%	0.0%
1978	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	-0.2%	-0.1%	0.0%	0.0%	-0.1%	-0.1%
1979	0.0%	-0.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%	3.5%
1980	0.0%	-1.8%	-0.5%	-1.5%	-1.0%	-1.8%	-1.0%	-0.1%	0.0%	-0.2%	3.1%	3.8%
1981	1.3%	0.4%	0.3%	0.7%	0.6%	0.1%	0.0%	0.0%	0.0%	0.4%	0.3%	0.5%
1982	0.5%	0.5%	0.1%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%
1985	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%	0.1%
1986	0.0%	7.2%	12.9%	3.4%	0.3%	0.0%	0.1%	0.5%	0.1%	0.0%	0.7%	2.8%
1987	3.2%	2.0%	1.1%	0.6%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.1%	0.2%	0.8%	0.6%	0.3%	7.7%	3.0%	0.2%	0.0%	-0.6%	-3.2%
1989	-7.3%	-7.8%	-5.0%	-1.7%	0.2%	-0.1%	-0.7%	-0.4%	-0.2%	-2.6%	0.0%	0.9%
1990	3.0%	1.0%	0.3%	0.2%	0.1%	0.0%	-0.2%	-0.4%	-0.3%	-0.3%	-0.4%	1.0%
1991	0.3%	-0.2%	-0.8%	0.0%	1.1%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.4%	-0.4%	0.1%	-0.1%	0.1%	-0.1%	0.3%	0.1%	0.0%	-0.2%	0.2%	0.2%
<b>W/AN/BN</b>	0.1%	0.8%	1.8%	0.3%	-0.1%	-0.3%	-0.2%	0.0%	0.0%	0.0%	0.8%	1.5%
<b>D/C</b>	-0.9%	-1.4%	-1.2%	-0.5%	0.2%	0.0%	0.7%	0.2%	0.0%	-0.3%	-0.3%	-0.9%





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## Barker Slough at North Bay Aqueduct

### *Future Without Project*

#### Barker Slough at North Bay Aqueduct Salinity Monthly Average of Simulated Values (EC, $\mu\text{S/cm}$ )

#### Future Without Project

#### 2030 Level of Development; Severe Fishery Restrictions

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	211	202	208	220	238	250	262	262	239	223	213	208
1977	211	215	216	217	220	229	236	260	272	260	246	236
1978	231	229	229	230	243	402	575	485	309	231	212	212
1979	213	216	217	220	259	316	326	441	374	272	227	218
1980	220	216	214	234	310	433	532	376	267	224	212	212
1981	214	216	222	227	255	283	286	311	283	245	224	219
1982	218	222	233	256	361	512	583	511	324	230	213	212
1983	208	209	245	301	358	471	653	554	340	236	210	210
1984	209	211	220	256	337	359	330	272	235	221	214	214
1985	217	215	243	287	312	322	322	328	297	240	218	213
1986	213	215	223	238	300	417	556	477	307	236	217	216
1987	215	217	220	223	237	250	252	291	276	239	220	215
1988	218	220	221	222	224	230	241	322	280	237	219	215
1989	216	224	227	227	227	226	226	264	265	228	214	210
1990	209	206	209	214	227	245	258	315	281	241	222	217
1991	217	223	227	227	227	227	227	269	305	283	253	242
<b>Avg</b>	215	216	223	237	271	323	367	359	291	240	221	217
<b>W/AN/BN</b>	216	217	226	248	310	416	508	445	308	236	215	214
<b>D/C</b>	214	215	221	229	241	251	257	291	278	244	225	219

**Alternative 1**

**Barker Slough at North Bay Aqueduct Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 1**

**2030 Level of Development; Severe Fishery Restrictions**

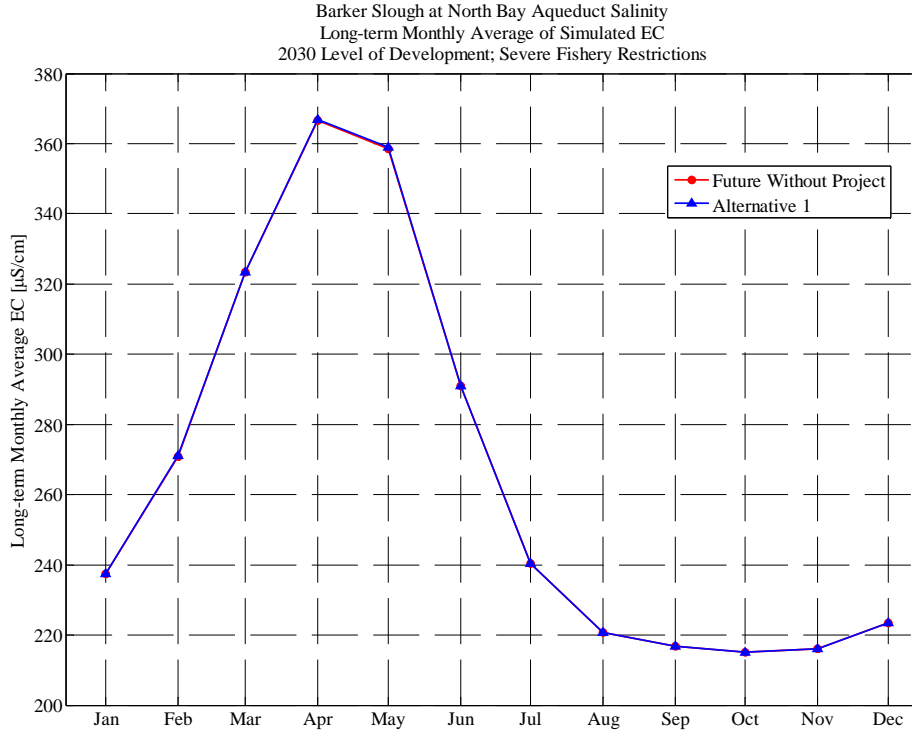
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	211	202	208	220	238	250	263	262	239	222	213	208
1977	211	215	216	217	221	229	237	261	273	260	246	236
1978	231	229	229	230	246	406	575	485	310	231	212	212
1979	213	216	217	220	258	317	326	442	376	272	227	218
1980	220	216	214	235	310	433	533	375	268	225	212	212
1981	214	216	222	227	255	283	286	311	283	245	224	219
1982	218	223	233	256	360	509	582	511	325	230	213	212
1983	208	209	245	301	358	471	652	554	340	236	210	210
1984	209	211	220	255	337	359	330	271	234	221	214	214
1985	217	215	242	286	312	322	322	328	297	240	218	213
1986	213	215	223	238	300	418	558	478	307	236	217	216
1987	215	217	220	223	237	250	252	291	276	239	220	215
1988	218	220	221	222	224	230	241	323	279	236	219	215
1989	216	224	227	227	227	226	226	265	265	228	214	210
1990	209	206	208	214	227	245	259	315	282	241	222	217
1991	218	223	227	227	227	227	227	270	304	283	253	242
<b>Avg</b>	215	216	223	237	271	323	367	359	291	240	221	217
<b>W/AN/BN</b>	216	217	226	248	310	416	508	445	309	236	215	214
<b>D/C</b>	214	215	221	229	241	251	257	292	277	244	225	219

**Percent (%) Change from Future Without Project for Barker Slough at North Bay Aqueduct  
(Alternative 1 - Future Without Project) / Future Without Project**

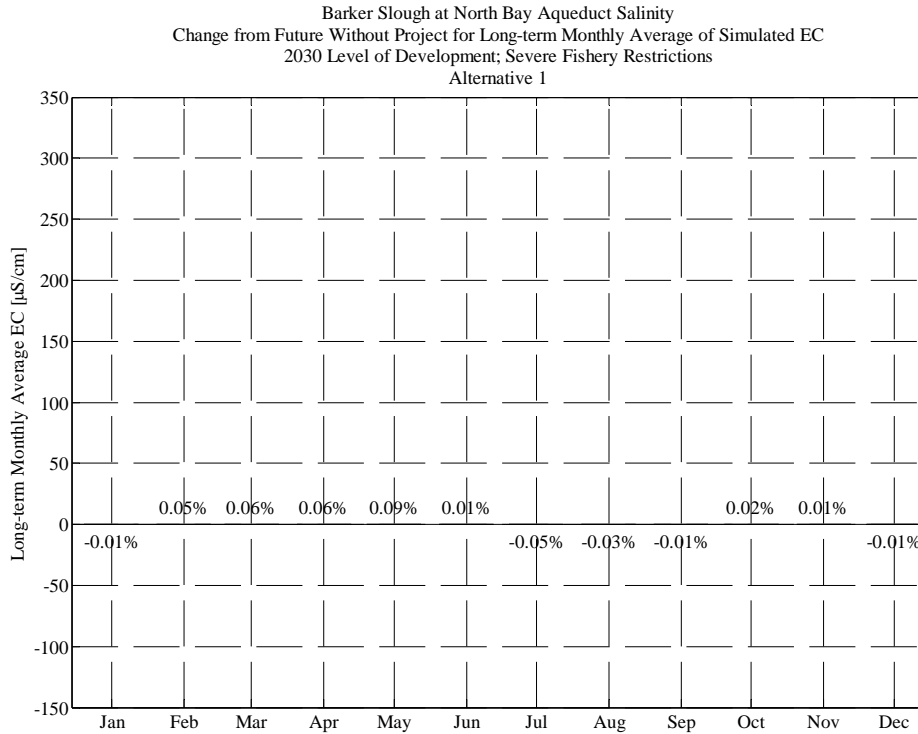
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.2%	0.2%	0.0%	-0.1%	0.0%	0.2%	0.2%	0.0%	-0.1%	-0.1%	-0.1%	0.0%
1977	0.0%	0.1%	0.1%	0.2%	0.2%	0.3%	0.3%	0.3%	0.0%	-0.1%	0.0%	0.0%
1978	0.0%	0.0%	-0.1%	-0.1%	1.1%	1.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	-0.2%	-0.3%	0.2%	0.2%	0.4%	0.5%	0.0%	-0.1%	0.0%
1980	-0.1%	-0.1%	-0.1%	0.3%	0.3%	0.0%	0.2%	-0.1%	0.1%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	-0.2%	-0.1%	0.1%
1982	0.1%	0.1%	0.2%	0.2%	-0.4%	-0.6%	-0.1%	-0.1%	0.1%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	-0.3%	-0.1%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.2%	0.2%	0.1%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	-0.2%	-0.1%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.2%	-0.2%	-0.2%	-0.2%	-0.1%
1989	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	-0.1%	-0.2%	0.0%	0.0%
1990	-0.2%	-0.1%	-0.1%	0.0%	-0.1%	0.1%	0.3%	0.1%	0.2%	0.1%	0.0%	0.0%
1991	0.0%	0.0%	-0.2%	-0.2%	-0.2%	-0.2%	0.0%	0.0%	-0.2%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%	-0.1%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	-0.1%	-0.1%	0.0%	0.0%

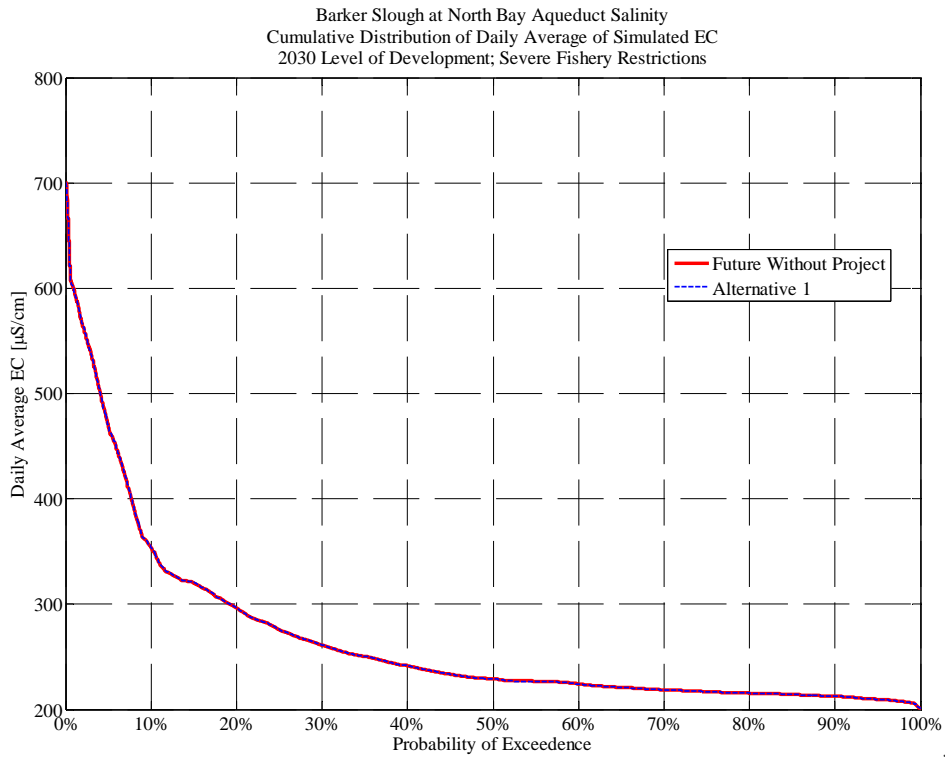
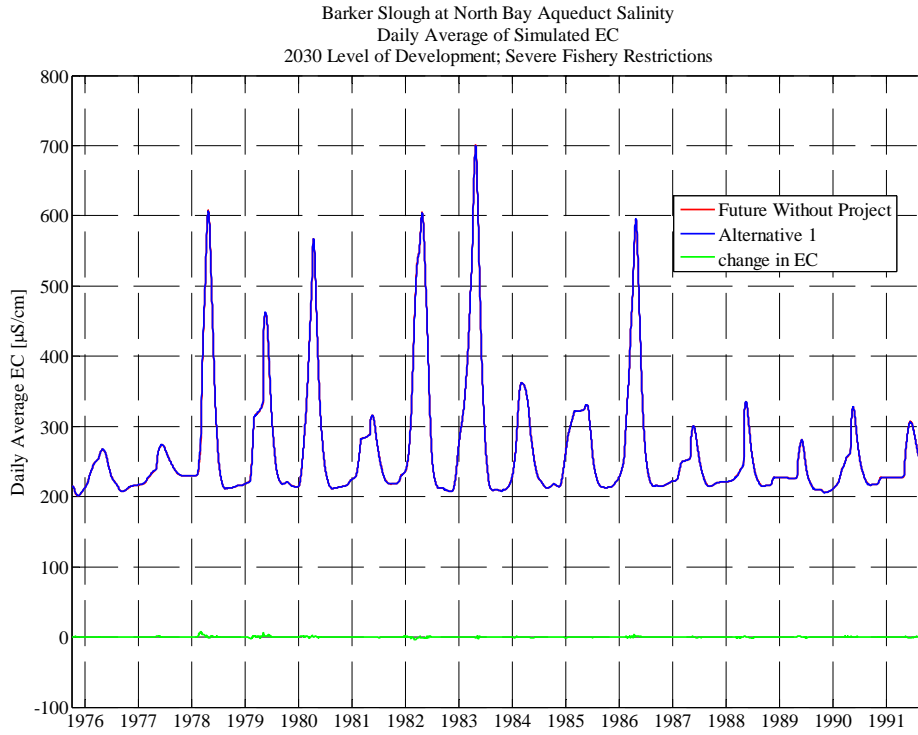




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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS

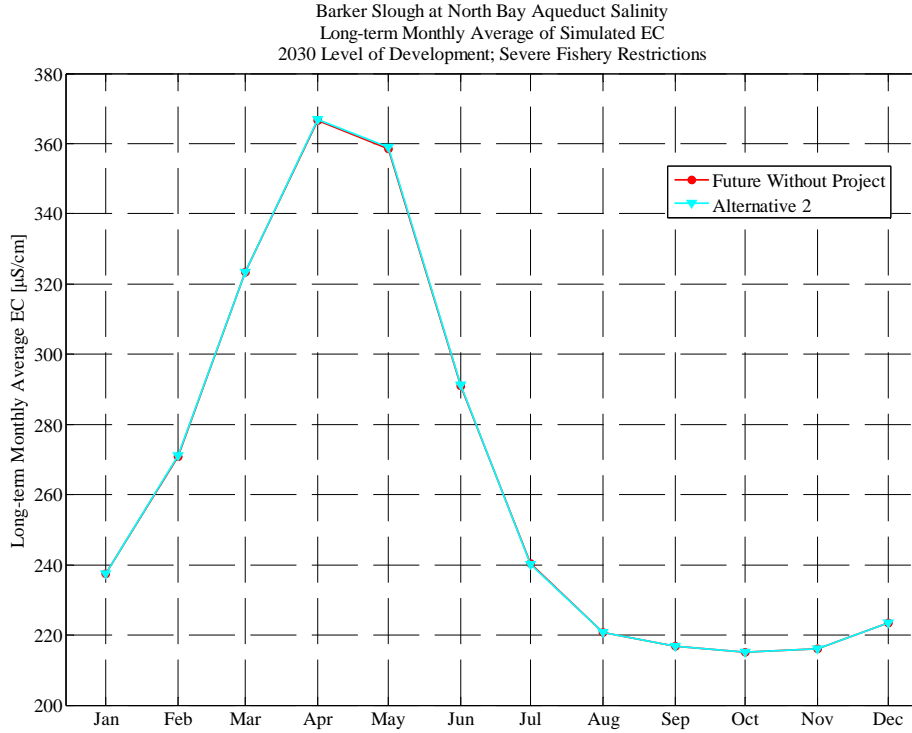


**Alternative 2****Barker Slough at North Bay Aqueduct Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 2****2030 Level of Development; Severe Fishery Restrictions**

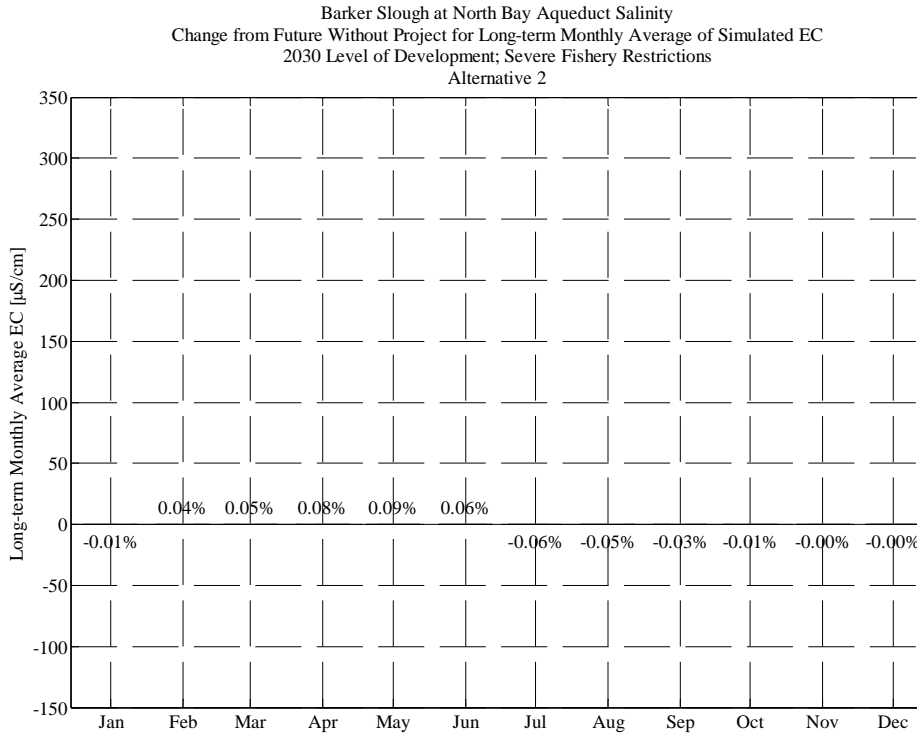
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	211	202	209	220	238	250	262	262	239	222	213	208
1977	211	215	216	217	221	229	237	261	273	260	245	235
1978	230	229	229	229	245	404	575	486	310	231	212	212
1979	213	216	217	220	258	317	327	442	375	271	227	218
1980	220	216	214	235	311	434	534	376	268	225	212	212
1981	214	216	222	227	255	283	286	311	283	245	224	219
1982	218	223	233	256	360	510	583	511	325	230	213	212
1983	208	209	245	301	358	471	652	554	340	236	210	210
1984	209	211	220	255	337	359	330	271	234	221	214	214
1985	217	215	242	286	312	322	322	328	297	240	218	213
1986	213	215	223	238	300	418	556	478	307	236	217	216
1987	215	217	220	223	236	249	251	291	276	239	220	215
1988	218	220	221	222	224	231	242	322	280	237	219	215
1989	216	224	227	227	227	226	226	264	265	228	213	210
1990	209	206	208	214	227	245	258	315	282	241	222	217
1991	217	223	227	227	227	227	228	270	305	283	253	242
<b>Avg</b>	215	216	223	237	271	323	367	359	291	240	221	217
<b>W/AN/BN</b>	216	217	226	248	310	416	508	445	309	236	215	214
<b>D/C</b>	214	215	221	229	241	251	257	292	278	244	225	219

**Percent (%) Change from Future Without Project for Barker Slough at North Bay  
(Alternative 2 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

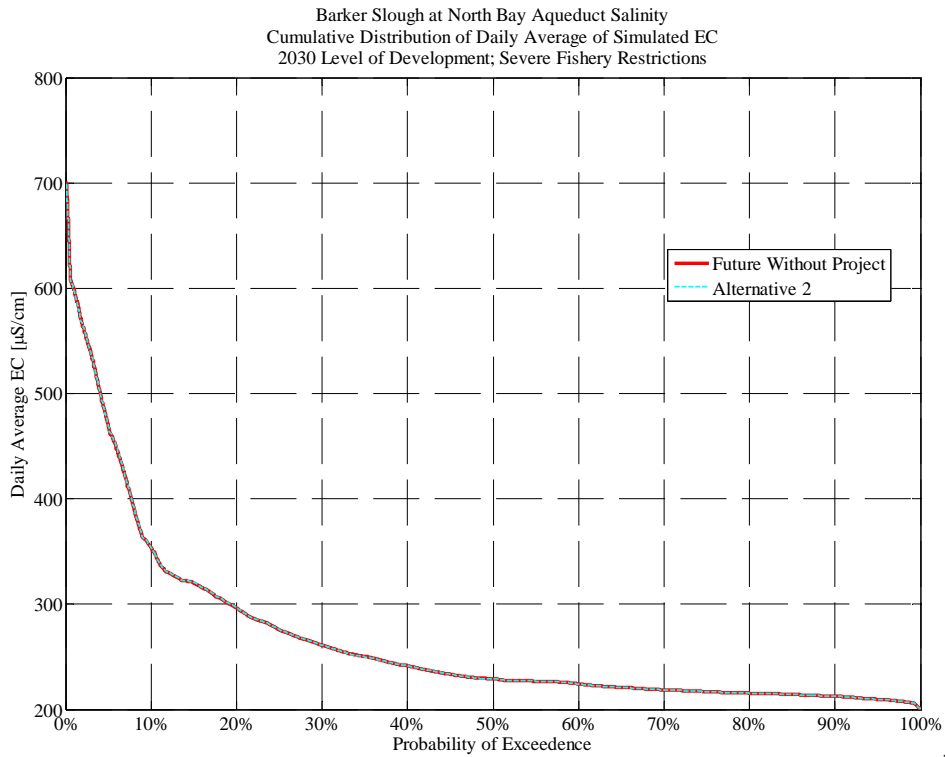
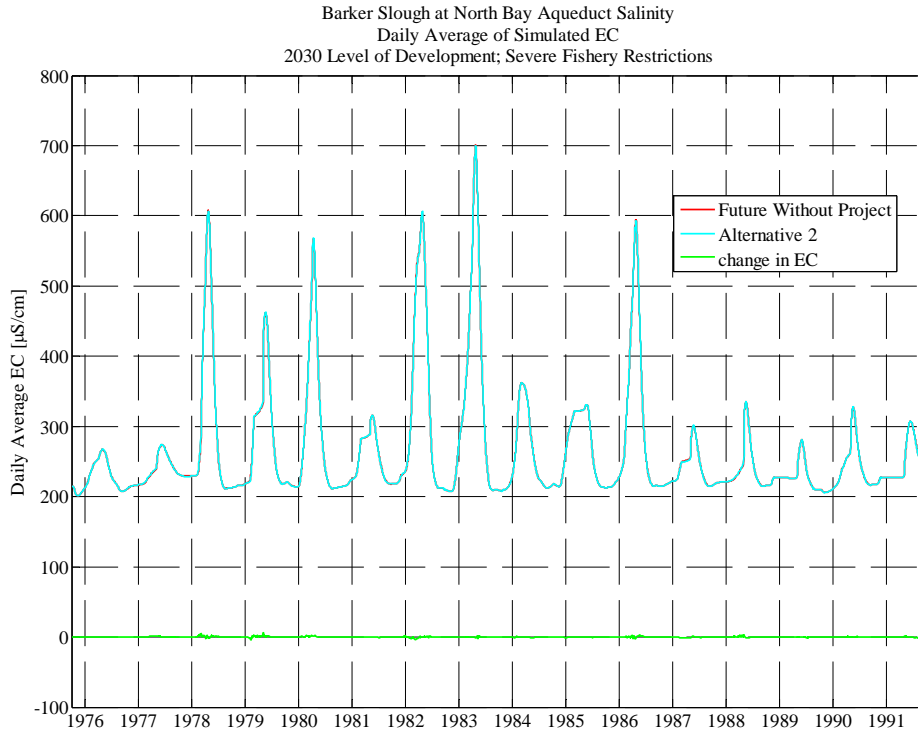
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.1%	0.0%	-0.1%	0.0%	0.1%	0.1%	0.0%	-0.1%	-0.1%	-0.1%	-0.1%
1977	0.0%	0.1%	0.1%	0.2%	0.3%	0.3%	0.3%	0.3%	0.1%	-0.1%	-0.2%	-0.2%
1978	-0.1%	-0.2%	-0.2%	-0.2%	0.6%	0.5%	-0.1%	0.2%	0.3%	0.1%	0.0%	-0.1%
1979	0.0%	0.0%	0.0%	-0.2%	-0.3%	0.3%	0.4%	0.4%	0.2%	-0.1%	-0.1%	0.0%
1980	-0.1%	-0.1%	-0.1%	0.2%	0.4%	0.2%	0.3%	-0.1%	0.1%	0.1%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.1%	0.1%
1982	0.1%	0.1%	0.2%	0.0%	-0.4%	-0.5%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	-0.1%	0.1%	0.0%	0.0%	-0.3%	-0.1%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	-0.1%	0.3%	0.2%	0.1%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	-0.3%	-0.4%	-0.4%	0.0%	0.1%	-0.1%	-0.1%	0.0%
1988	0.0%	0.1%	0.1%	0.1%	0.2%	0.3%	0.6%	0.0%	-0.1%	-0.1%	-0.1%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	-0.1%	-0.2%	0.0%	-0.1%
1990	-0.2%	-0.1%	-0.1%	0.0%	-0.1%	0.0%	0.2%	0.1%	0.2%	0.1%	0.0%	0.0%
1991	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	-0.2%	-0.2%	-0.2%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	-0.1%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	-0.1%	-0.1%	-0.1%



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04-Nov-2008 DS

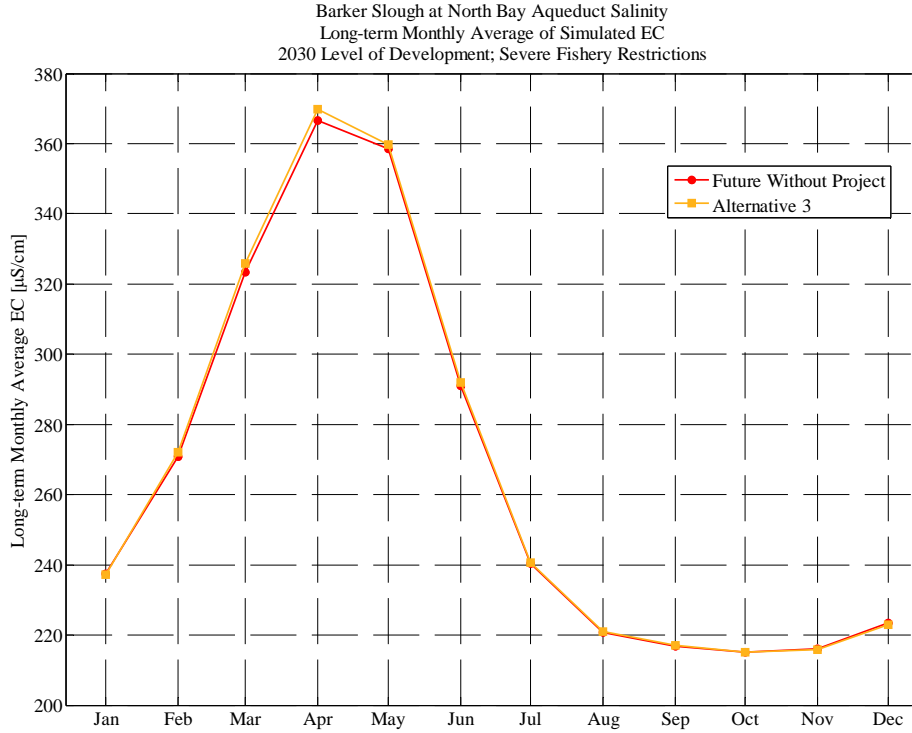


**Alternative 3****Barker Slough at North Bay Aqueduct Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 3****2030 Level of Development; Severe Fishery Restrictions**

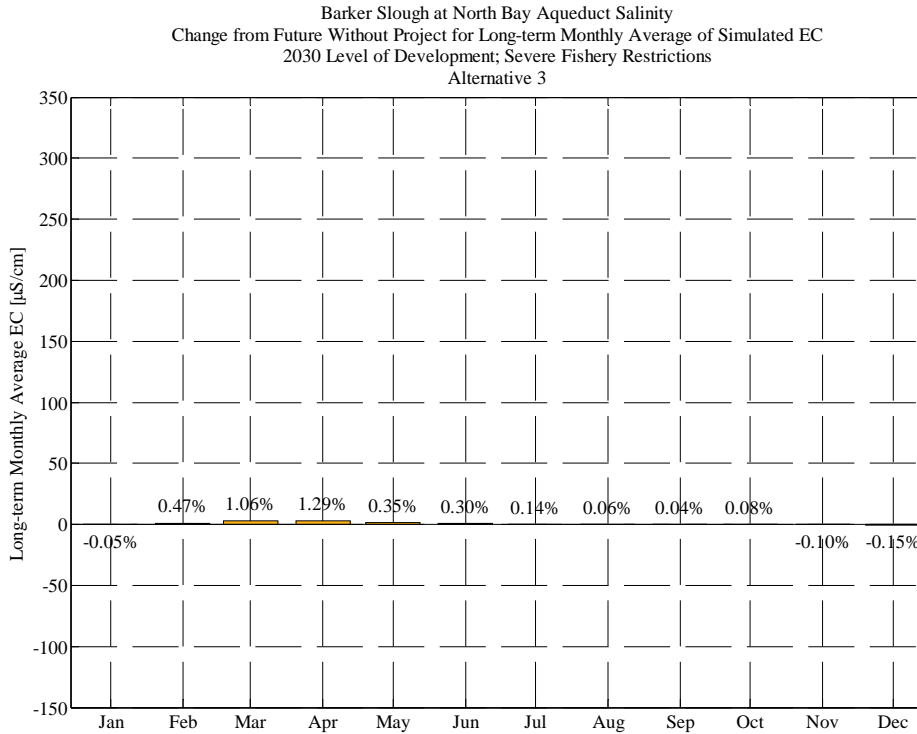
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	210	202	208	220	238	250	262	262	239	223	213	208
1977	211	215	216	217	221	229	237	261	273	262	248	238
1978	232	230	230	230	248	407	576	487	311	231	213	212
1979	213	216	217	220	259	319	327	444	376	272	227	218
1980	220	216	214	234	310	433	533	376	267	224	212	212
1981	214	216	222	227	255	283	286	311	283	245	224	219
1982	218	223	233	256	362	512	583	511	324	230	213	212
1983	208	209	245	301	358	471	653	554	340	236	210	210
1984	209	211	220	256	337	359	330	272	234	221	214	214
1985	217	215	243	287	312	322	322	328	297	240	218	213
1986	213	215	223	239	300	417	557	477	307	236	217	216
1987	215	217	220	223	239	254	255	288	283	243	221	216
1988	217	218	219	222	237	262	282	336	283	236	218	215
1989	218	220	222	223	224	226	229	265	266	229	214	210
1990	209	207	209	214	226	244	257	316	281	241	222	217
1991	217	223	227	227	227	227	228	269	304	284	253	242
<b>Avg</b>	215	216	223	237	272	326	370	360	292	241	221	217
<b>W/AN/BN</b>	216	217	226	248	310	417	508	446	309	236	215	214
<b>D/C</b>	214	215	221	229	242	255	262	293	279	245	226	220

**Percent (%) Change from Future Without Project for Barker Slough at North Bay  
(Alternative 3 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

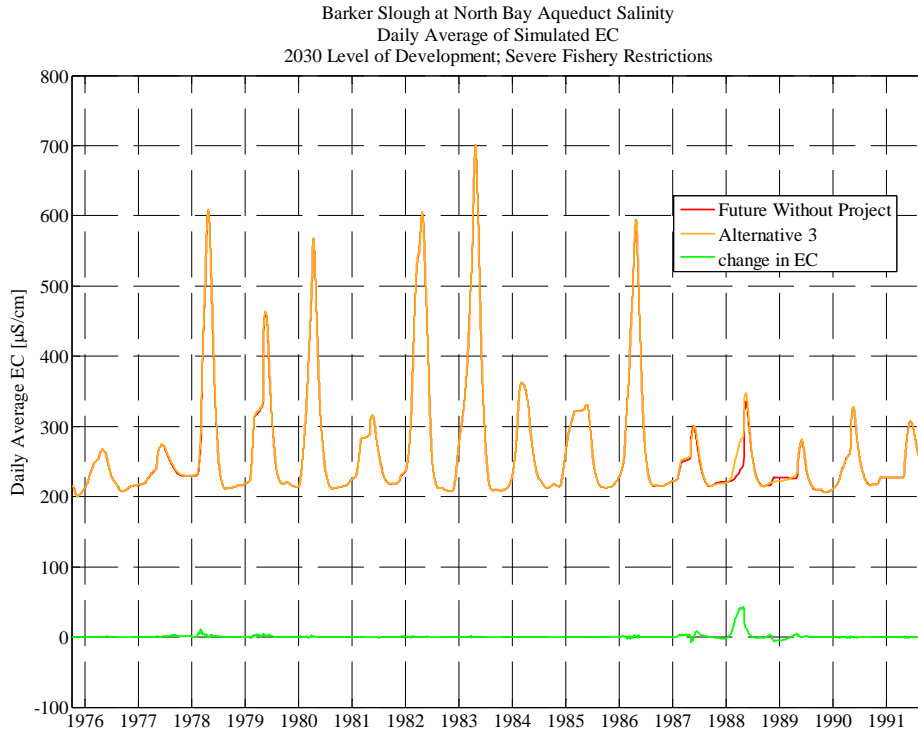
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.1%	-0.1%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.1%	0.1%	0.1%	-0.1%	0.0%
1977	0.0%	0.1%	0.1%	0.2%	0.2%	0.2%	0.3%	0.1%	0.3%	0.6%	0.8%	0.8%
1978	0.6%	0.4%	0.3%	0.3%	1.9%	1.4%	0.2%	0.4%	0.5%	0.2%	0.1%	0.0%
1979	0.1%	0.1%	0.0%	0.0%	0.1%	0.7%	0.5%	0.7%	0.6%	0.2%	0.0%	0.0%
1980	0.0%	-0.1%	-0.1%	0.1%	0.1%	0.1%	0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.2%	0.0%	0.1%
1982	0.1%	0.2%	0.3%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.1%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	-0.1%	0.0%
1986	0.0%	0.0%	0.0%	0.2%	0.0%	-0.1%	0.1%	0.2%	0.1%	0.0%	0.1%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.9%	1.2%	1.2%	-0.9%	2.5%	1.4%	0.5%	0.1%
1988	-0.2%	-0.8%	-1.0%	0.3%	5.8%	13.9%	17.1%	4.4%	1.1%	-0.4%	-0.4%	-0.4%
1989	0.8%	-1.4%	-2.3%	-1.9%	-1.4%	-0.2%	1.4%	0.6%	0.2%	0.3%	0.1%	0.1%
1990	0.1%	0.2%	0.1%	-0.1%	-0.1%	-0.2%	-0.2%	0.2%	-0.1%	-0.2%	-0.2%	-0.1%
1991	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.1%	0.2%	0.1%
<b>Avg</b>	0.1%	-0.1%	-0.2%	-0.1%	0.5%	1.1%	1.3%	0.3%	0.3%	0.1%	0.1%	0.0%
<b>W/AN/BN</b>	0.1%	0.1%	0.1%	0.1%	0.3%	0.3%	0.1%	0.2%	0.1%	0.1%	0.0%	0.0%
<b>D/C</b>	0.1%	-0.2%	-0.3%	-0.2%	0.6%	1.7%	2.2%	0.5%	0.4%	0.2%	0.1%	0.1%



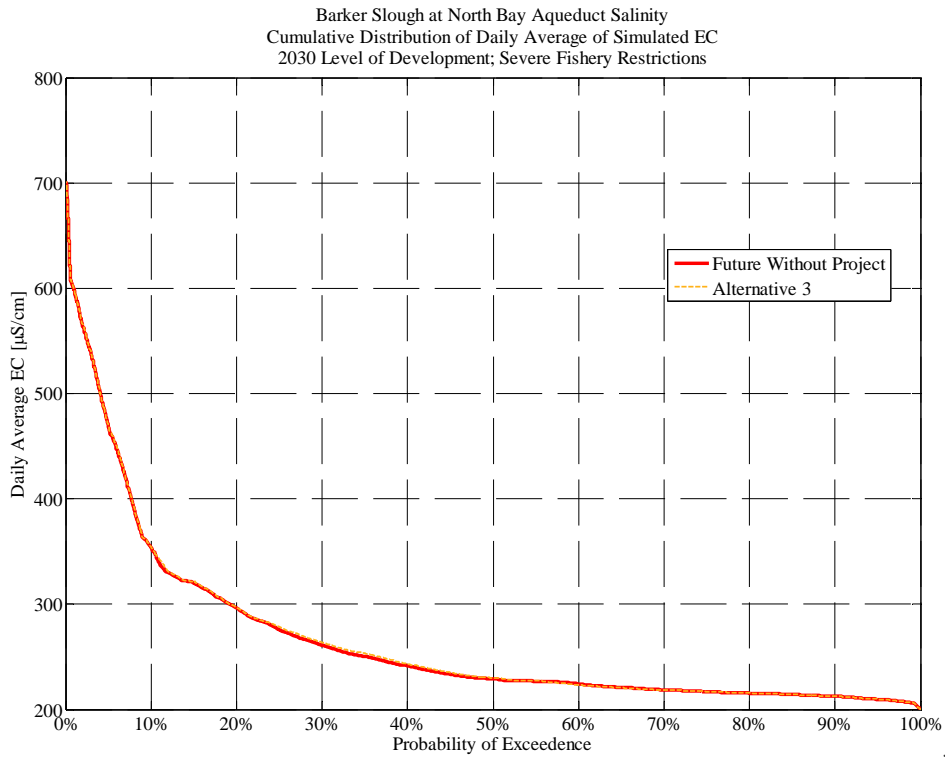
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04-Nov-2008 DS



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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

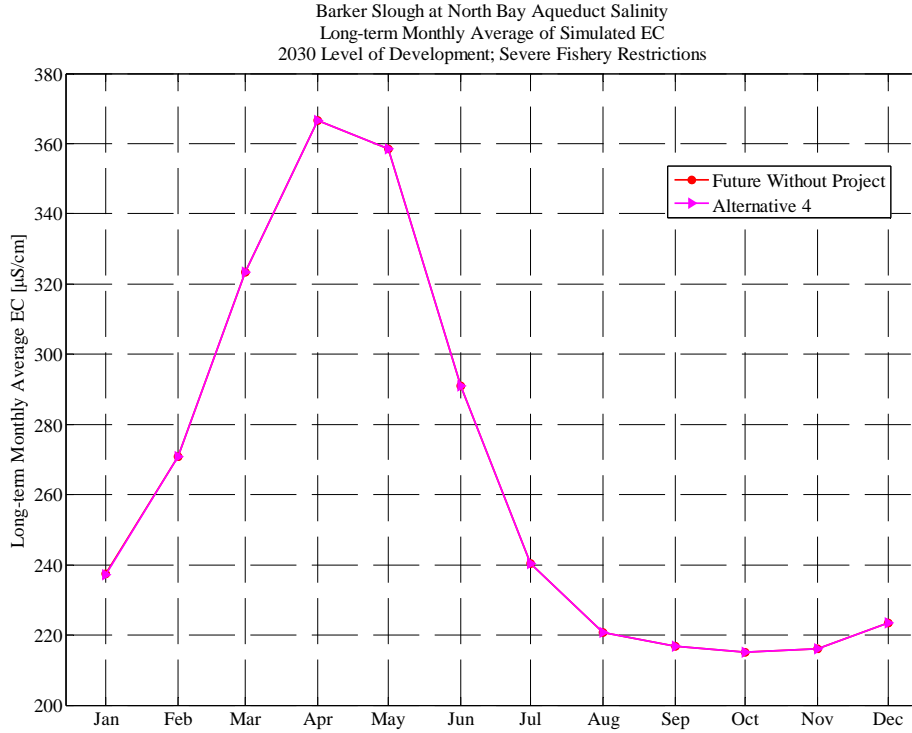


**Alternative 4****Barker Slough at North Bay Aqueduct Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 4****2030 Level of Development; Severe Fishery Restrictions**

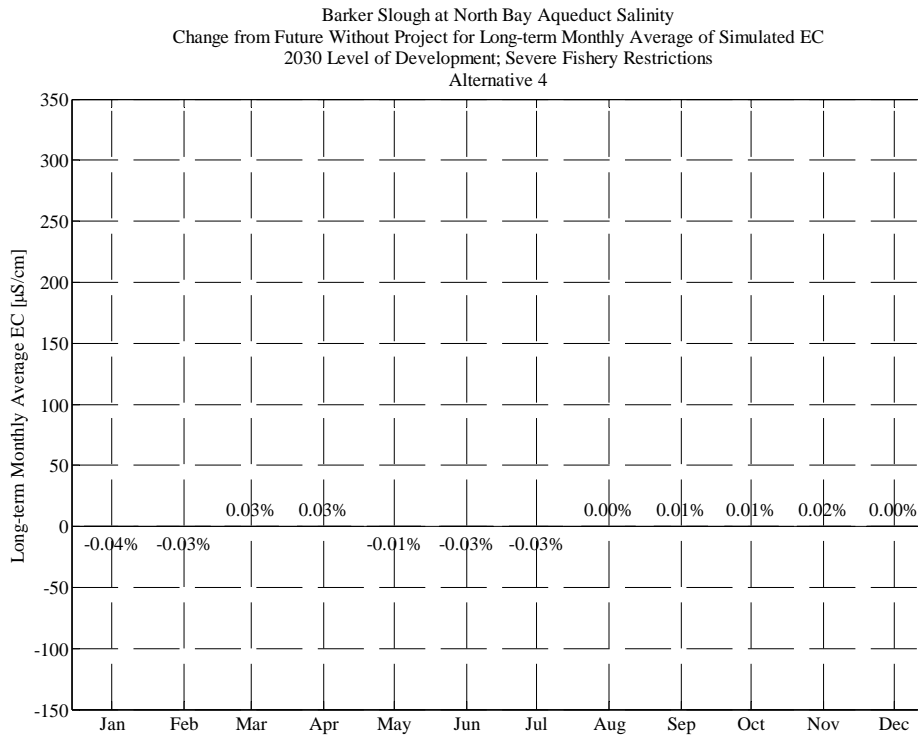
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	211	202	208	220	238	250	262	262	239	223	213	208
1977	211	215	216	217	221	229	236	260	273	260	246	236
1978	231	230	230	230	245	404	575	485	310	231	212	212
1979	213	216	217	220	259	316	326	441	374	272	227	219
1980	221	216	214	234	310	432	532	376	267	224	212	212
1981	214	216	222	227	255	283	286	311	283	245	224	219
1982	218	222	232	254	358	511	582	510	324	230	213	212
1983	208	209	245	301	358	471	653	554	340	236	210	210
1984	209	211	220	256	337	359	330	272	235	221	214	214
1985	217	215	242	286	312	322	322	328	297	240	218	213
1986	213	215	223	238	300	418	557	477	307	236	217	216
1987	215	217	220	223	236	250	252	291	276	239	220	215
1988	218	220	221	222	224	230	241	322	280	237	219	215
1989	216	224	227	227	227	227	226	264	265	228	214	210
1990	209	206	209	214	227	245	258	315	281	241	222	217
1991	217	223	227	227	227	227	227	269	304	283	253	242
<b>Avg</b>	215	216	223	237	271	323	367	359	291	240	221	217
<b>W/AN/BN</b>	216	217	226	248	309	416	508	445	308	236	215	214
<b>D/C</b>	214	215	221	229	241	251	257	291	278	244	225	219

**Percent (%) Change from Future Without Project for Barker Slough at North Bay  
(Alternative 4 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

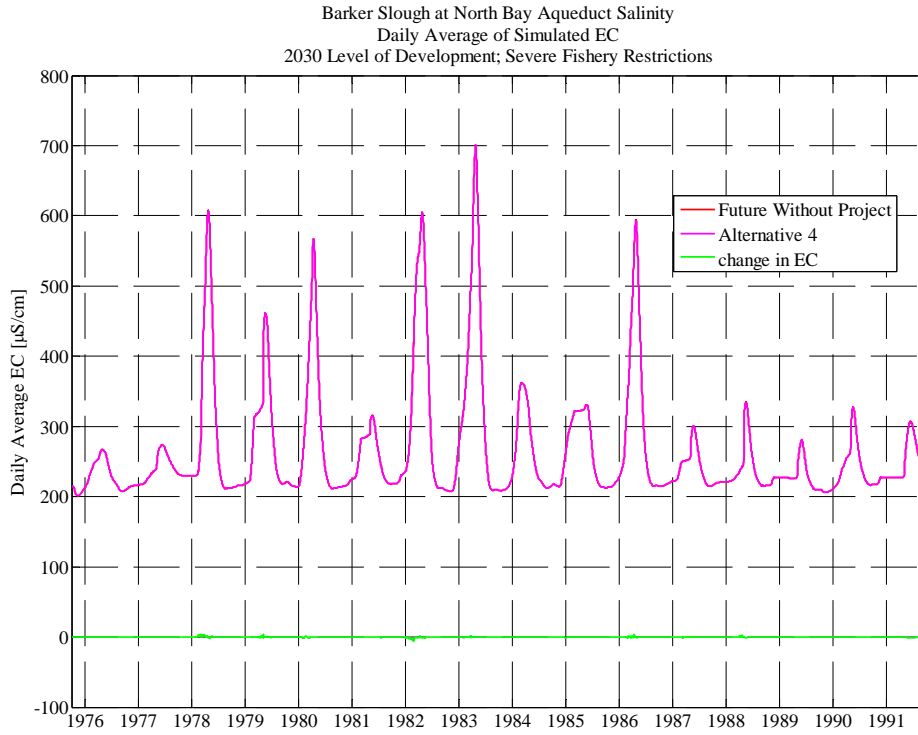
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%	0.1%
1978	0.1%	0.1%	0.1%	0.0%	0.5%	0.6%	-0.1%	0.0%	0.1%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%
1980	0.1%	0.1%	0.0%	-0.1%	0.0%	-0.1%	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	-0.1%	0.1%	0.1%	0.1%	-0.1%	-0.2%	0.0%	0.0%
1982	0.0%	0.1%	-0.1%	-0.6%	-1.0%	-0.2%	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.2%	-0.1%	0.1%	0.1%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	-0.1%	0.0%	0.0%	0.1%	0.0%
1989	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.3%	-0.2%	-0.1%	-0.1%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



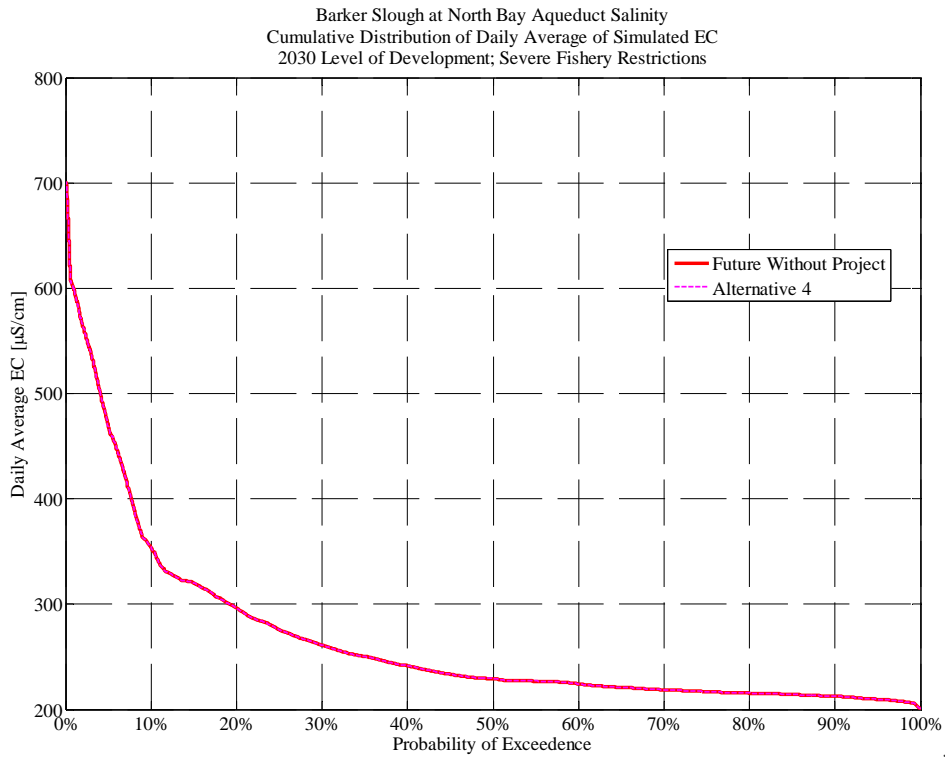
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p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

## Cache Slough at City of Vallejo Intake

### *Future Without Project*

#### Cache Slough at City of Vallejo Intake Salinity Monthly Average of Simulated Values (EC, $\mu\text{S/cm}$ )

#### Future Without Project

#### 2030 Level of Development; Severe Fishery Restrictions

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	201	200	202	206	211	246	234	214	207	205	196	197
1977	201	208	209	210	212	258	243	218	207	202	201	201
1978	205	214	406	731	792	793	628	371	262	210	202	202
1979	204	207	209	643	762	595	419	310	236	209	202	202
1980	204	205	329	641	758	657	437	298	236	208	202	202
1981	203	208	210	445	336	228	286	245	214	206	200	200
1982	202	205	426	709	666	674	729	564	278	212	205	204
1983	202	202	203	666	780	791	676	426	271	217	201	200
1984	200	203	492	552	471	296	274	227	208	204	200	201
1985	203	204	204	204	205	215	304	254	214	205	199	199
1986	200	205	206	530	747	789	578	335	250	212	204	204
1987	205	208	209	210	210	213	270	234	209	202	197	198
1988	202	206	208	571	648	392	300	243	212	203	198	199
1989	203	209	211	213	213	231	267	234	207	202	197	196
1990	197	202	204	206	207	246	309	247	213	205	199	200
1991	203	208	211	212	214	232	325	289	224	206	202	203
<b>Avg</b>	202	206	259	434	464	429	392	294	228	207	200	200
<b>W/AN/BN</b>	202	206	324	639	711	656	534	362	249	210	202	202
<b>D/C</b>	202	206	208	275	273	251	282	242	212	204	199	199

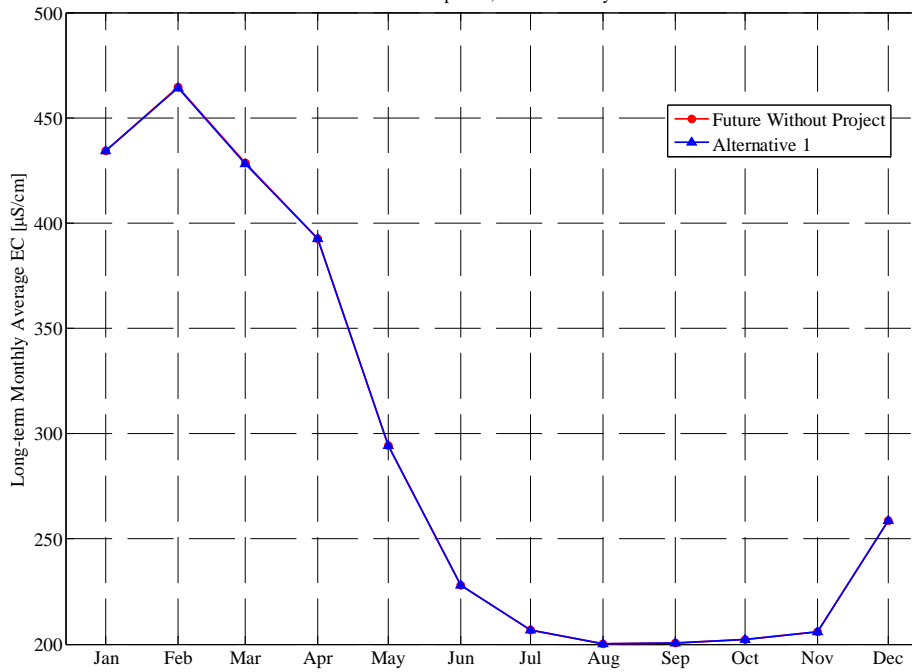
**Alternative 1****Cache Slough at City of Vallejo Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )****Alternative 1****2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	201	201	203	206	211	245	235	214	207	204	197	197
1977	201	207	209	209	211	257	244	219	207	203	201	201
1978	205	215	407	731	792	793	627	370	261	210	202	202
1979	203	207	209	643	762	594	419	310	236	209	202	202
1980	204	205	327	642	758	657	436	296	237	208	202	202
1981	203	208	210	445	336	228	286	245	214	206	200	200
1982	202	205	427	709	665	674	729	564	278	212	205	204
1983	202	202	203	666	780	791	677	426	271	217	201	200
1984	200	203	491	552	472	296	274	226	208	204	200	201
1985	203	204	204	204	205	215	304	254	214	205	199	199
1986	200	205	206	527	742	788	579	336	250	212	204	204
1987	205	208	209	210	210	213	270	235	209	202	197	198
1988	202	206	208	571	648	392	300	243	211	202	198	199
1989	203	209	211	213	213	231	267	234	207	202	197	196
1990	197	201	204	206	207	246	308	247	213	205	199	199
1991	203	208	211	212	214	232	325	289	223	206	202	203
<b>Avg</b>	202	206	259	434	464	428	393	294	228	207	200	200
<b>W/AN/BN</b>	202	206	324	639	710	656	534	361	249	210	202	202
<b>D/C</b>	202	206	208	275	273	251	282	242	212	204	199	199

**Percent (%) Change from Future Without Project for Cache Slough at City of Vallejo Intake****(Alternative 1 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

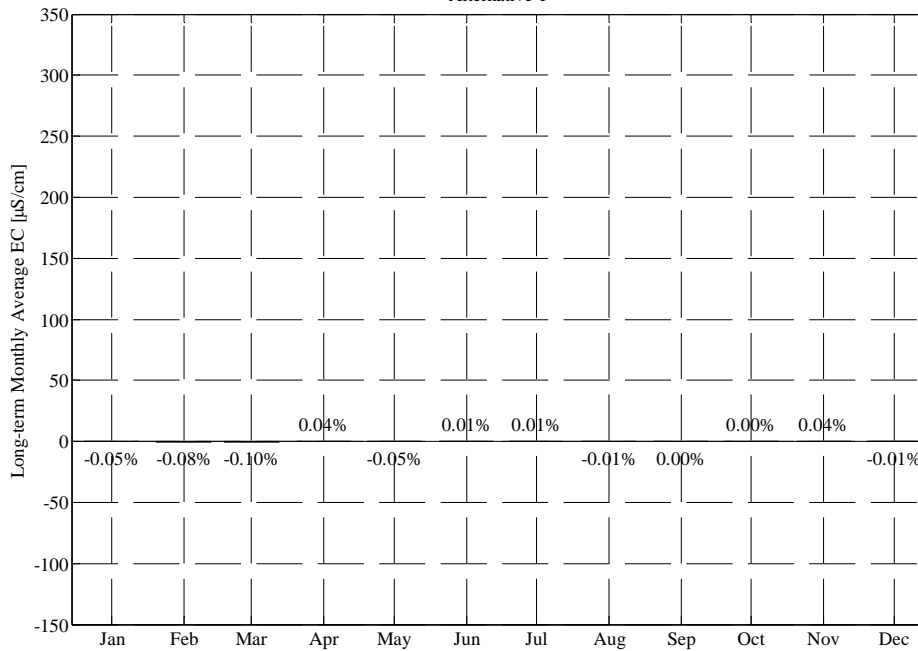
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.1%	0.1%	0.4%	0.1%	-0.1%	-0.5%	0.4%	0.1%	0.0%	0.0%	0.1%	0.1%
1977	0.1%	-0.1%	-0.2%	-0.3%	-0.7%	-0.7%	0.6%	0.2%	0.4%	0.6%	0.0%	0.0%
1978	0.0%	0.6%	0.1%	0.0%	0.1%	0.0%	-0.2%	-0.2%	-0.1%	0.0%	-0.1%	-0.1%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	-0.5%	0.1%	0.1%	0.0%	-0.2%	-0.8%	0.1%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	-0.1%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.1%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	-0.6%	-0.6%	-0.2%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.1%	0.0%	-0.1%	0.0%	0.0%
1988	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	-0.1%	-0.1%	-0.1%	0.0%	-0.1%	-0.2%	-0.1%	-0.1%	0.0%	-0.1%	0.0%
1991	0.0%	-0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	-0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.1%	0.0%	-0.1%	-0.1%	0.0%	0.0%	-0.2%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%

Cache Slough at City of Vallejo Intake Salinity  
 Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Severe Fishery Restrictions

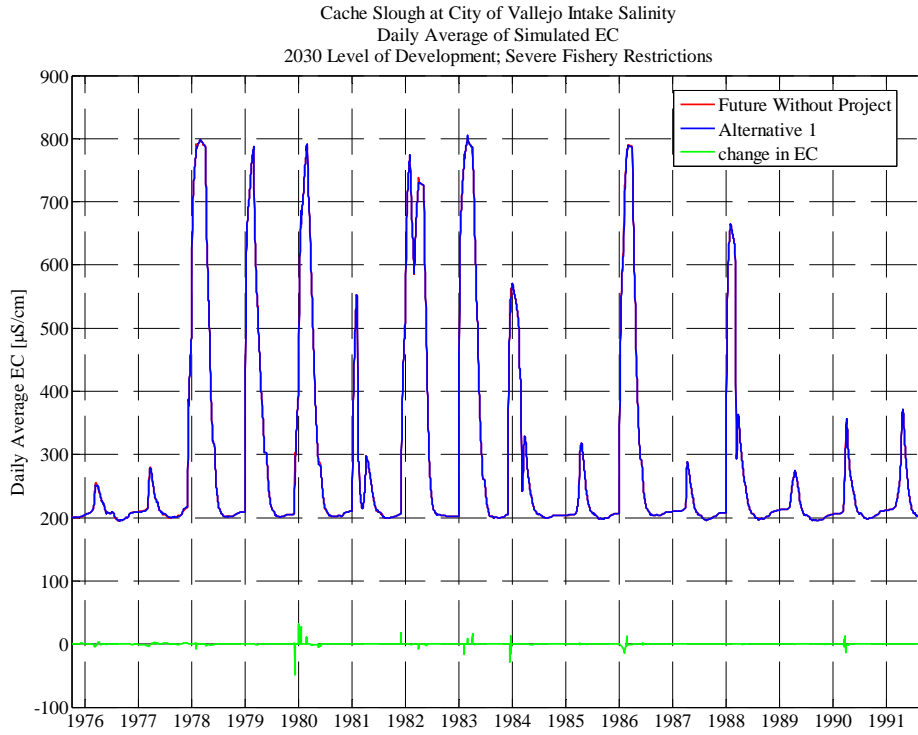


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 04-Nov-2008 DS

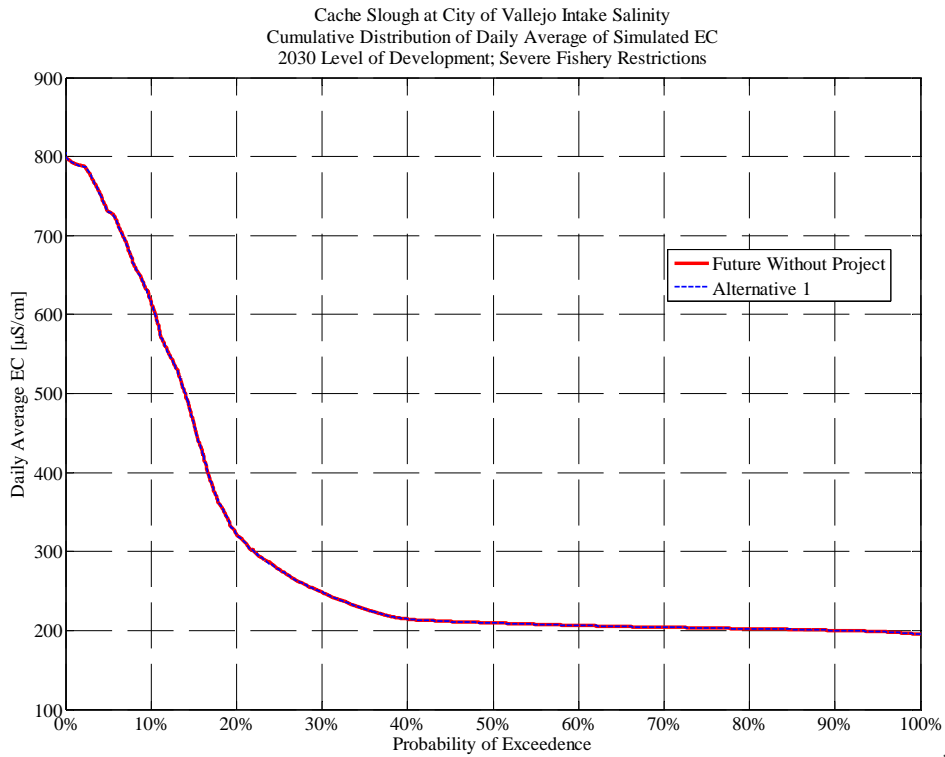
Cache Slough at City of Vallejo Intake Salinity  
 Change from Future Without Project for Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Severe Fishery Restrictions  
 Alternative 1



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 04-Nov-2008 DS



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04-Nov-2008 DS



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**Alternative 2**

**Cache Slough at City of Vallejo Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Alternative 2**

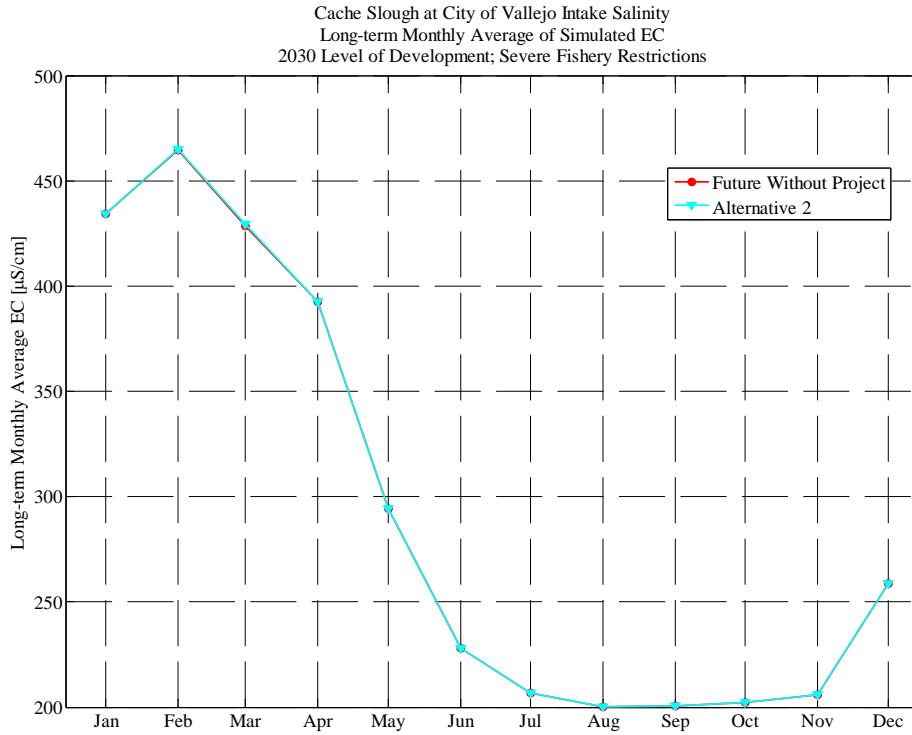
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	201	201	203	206	211	245	235	214	207	204	197	197
1977	201	207	209	209	211	257	244	219	207	202	201	202
1978	205	214	406	731	792	793	628	371	262	210	202	202
1979	203	207	209	643	762	594	419	310	236	209	202	202
1980	204	205	328	642	759	657	436	296	237	208	202	202
1981	203	208	210	446	336	228	286	245	214	206	200	200
1982	202	205	427	709	665	674	729	564	278	212	205	204
1983	202	202	203	669	780	791	676	426	271	217	201	200
1984	200	203	491	552	472	296	274	226	208	204	200	201
1985	203	204	204	204	205	215	304	254	214	205	199	199
1986	200	205	206	527	756	805	582	336	251	212	204	204
1987	205	208	209	210	210	213	270	234	209	202	197	198
1988	202	206	208	571	648	392	300	243	211	202	198	199
1989	203	209	211	213	213	231	267	234	207	202	197	196
1990	197	201	204	206	207	246	309	247	213	205	199	199
1991	203	208	211	212	214	232	325	289	224	206	202	203
<b>Avg</b>	202	206	259	434	465	429	393	294	228	207	200	200
<b>W/AN/BN</b>	202	206	324	639	712	659	535	361	249	210	202	202
<b>D/C</b>	202	206	208	275	273	251	282	242	212	204	199	199

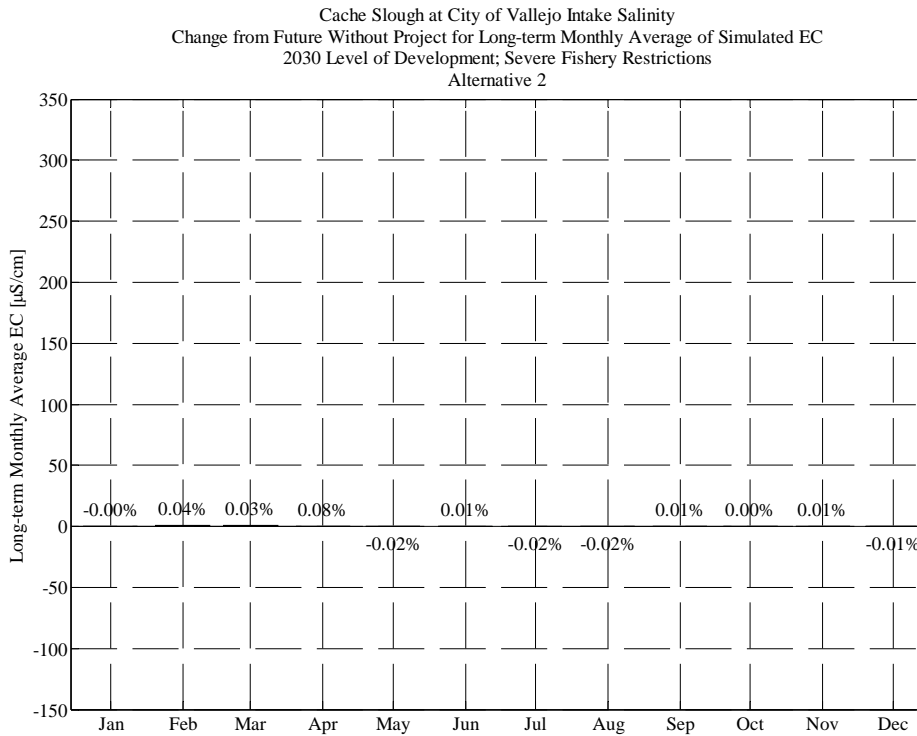
**Percent (%) Change from Future Without Project for Cache Slough at City of Vallejo  
(Alternative 2 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.1%	0.1%	0.5%	0.1%	-0.1%	-0.5%	0.4%	0.1%	0.0%	0.0%	0.1%	0.1%
1977	0.1%	-0.1%	-0.2%	-0.3%	-0.6%	-0.6%	0.6%	0.1%	0.0%	0.0%	-0.1%	0.1%
1978	0.0%	0.2%	-0.1%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	-0.1%	-0.1%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	-0.4%	0.2%	0.2%	0.0%	-0.1%	-0.8%	0.1%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.1%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	-0.6%	1.2%	2.0%	0.7%	0.3%	0.1%	0.0%	-0.1%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	-0.1%	-0.1%	0.0%
1988	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.1%	0.0%	-0.1%	0.0%	0.0%
1989	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	-0.1%	-0.1%	-0.1%	0.0%	-0.3%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	-0.1%	0.0%	0.2%	0.3%	0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%



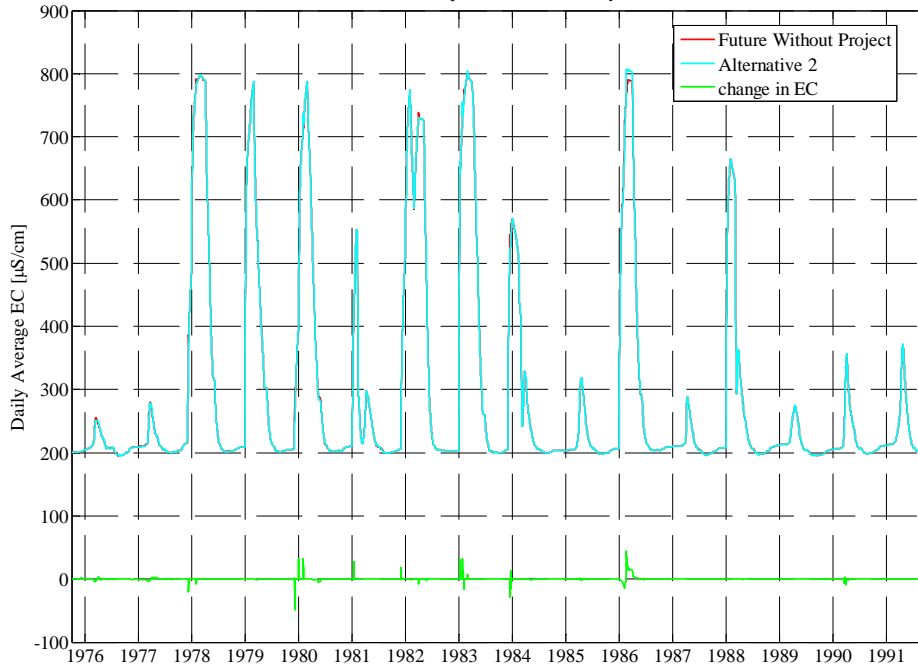


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04-Nov-2008 DS



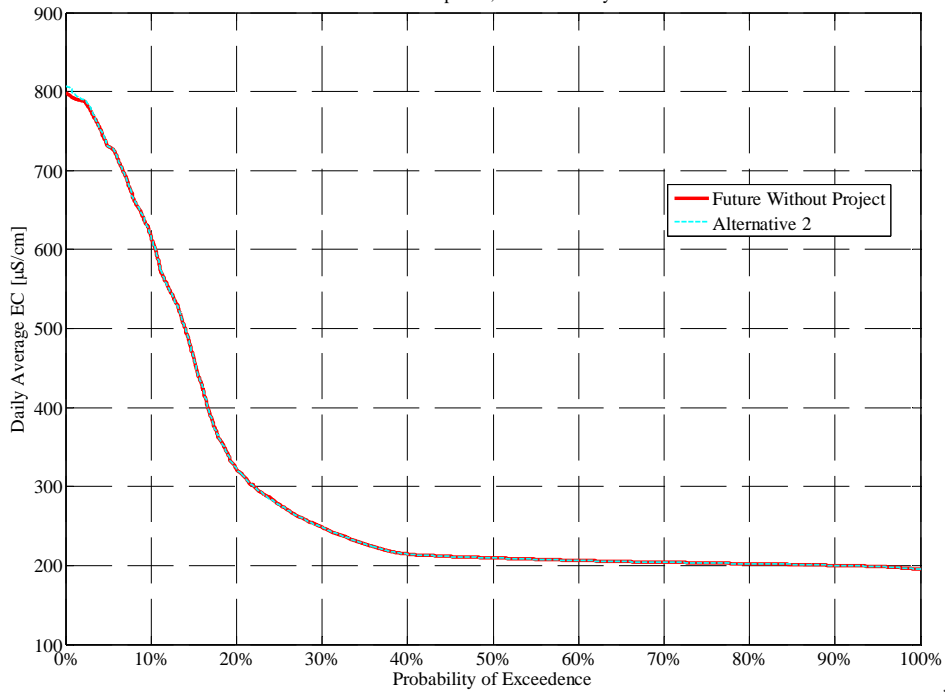
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04-Nov-2008 DS

Cache Slough at City of Vallejo Intake Salinity  
Daily Average of Simulated EC  
2030 Level of Development; Severe Fishery Restrictions



p\_lve\_wq\_eir.m  
04-Nov-2008 DS

Cache Slough at City of Vallejo Intake Salinity  
Cumulative Distribution of Daily Average of Simulated EC  
2030 Level of Development; Severe Fishery Restrictions



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

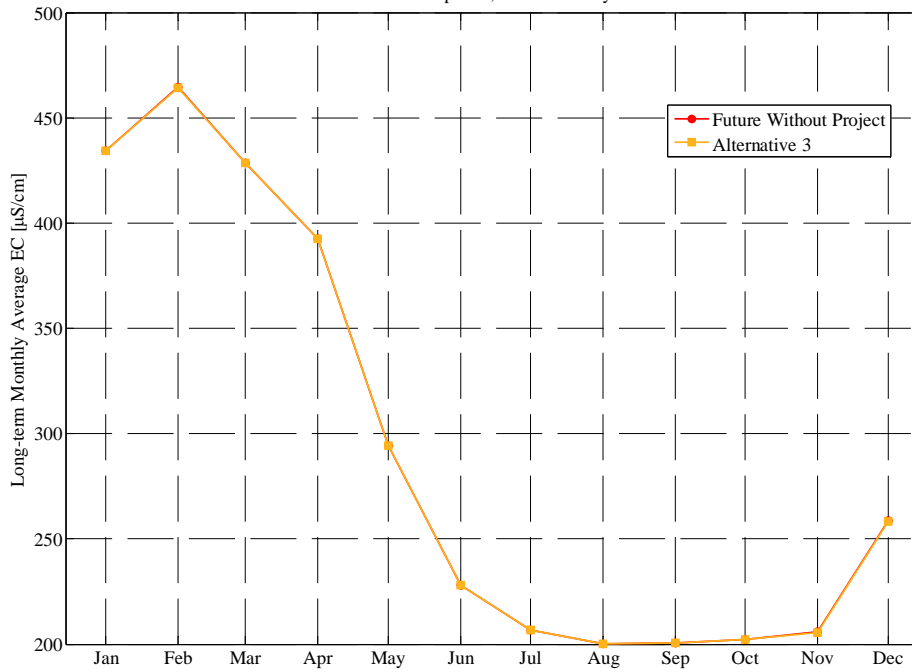
**Alternative 3****Cache Slough at City of Vallejo Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 3****2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	201	200	202	206	211	246	233	214	208	205	196	197
1977	201	208	208	209	211	255	244	219	208	203	201	202
1978	205	214	407	731	792	793	630	372	262	210	202	202
1979	204	208	209	644	762	595	420	311	236	209	202	202
1980	204	205	326	642	758	657	436	298	236	208	202	202
1981	203	208	210	446	336	228	286	245	214	206	200	200
1982	202	205	426	709	666	674	729	564	278	212	205	204
1983	202	202	203	666	780	791	676	426	271	217	201	200
1984	200	203	492	552	472	296	274	226	208	204	200	201
1985	203	204	204	204	205	215	304	254	214	205	199	199
1986	200	204	206	530	747	789	579	336	251	212	205	204
1987	205	208	209	210	210	213	270	234	210	203	197	198
1988	201	206	207	571	648	392	299	243	212	203	198	199
1989	203	208	209	211	212	231	267	234	207	202	196	196
1990	197	202	205	206	207	246	309	247	213	205	199	200
1991	203	208	211	212	214	232	325	289	224	206	202	203
<b>Avg</b>	202	206	258	434	464	428	393	294	228	207	200	200
<b>W/AN/BN</b>	202	206	324	639	711	657	535	362	249	210	202	202
<b>D/C</b>	202	206	207	275	273	251	282	242	212	204	199	199

**Percent (%) Change from Future Without Project for Cache Slough at City of Vallejo  
(Alternative 3 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

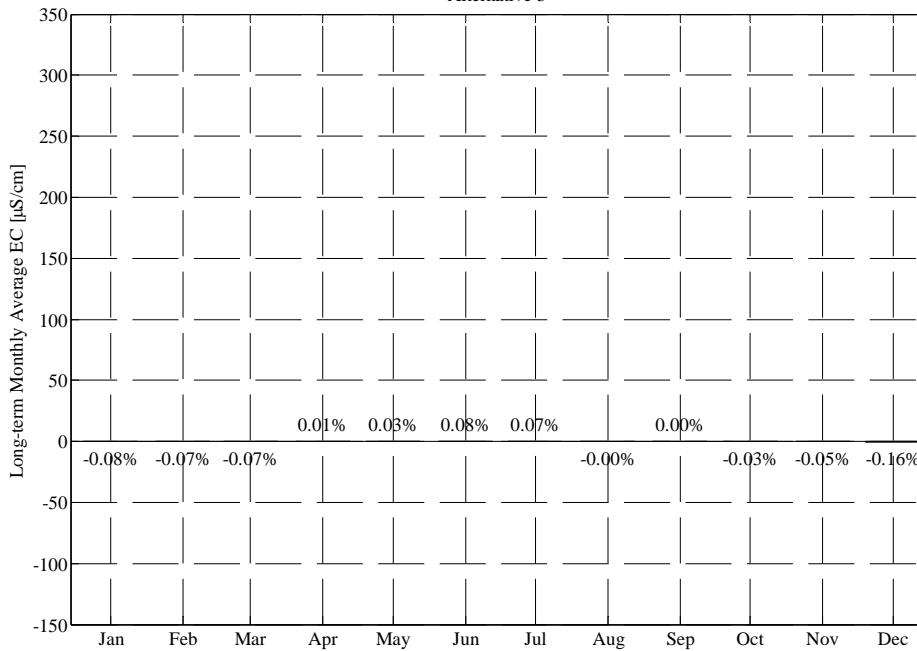
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	-0.4%	0.2%	0.1%	0.1%	-0.2%	0.1%
1977	-0.1%	0.1%	-0.3%	-0.4%	-0.5%	-1.2%	0.4%	0.0%	0.5%	0.7%	0.0%	0.1%
1978	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.1%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.4%	0.3%	0.1%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	-0.8%	0.2%	0.0%	0.0%	-0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.1%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%	0.0%	0.1%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%	0.5%	0.3%	0.1%	0.0%
1988	-0.2%	-0.4%	-0.4%	-0.1%	0.0%	-0.1%	-0.2%	0.0%	0.1%	0.1%	0.1%	0.1%
1989	-0.1%	-0.7%	-1.0%	-0.9%	-0.6%	-0.1%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	-0.1%	-0.2%	-0.1%	-0.1%	-0.1%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	-0.1%	-0.1%	-0.2%	-0.2%	-0.1%	-0.2%	-0.1%	0.0%	0.1%	0.1%	0.0%	0.0%

Cache Slough at City of Vallejo Intake Salinity  
 Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Severe Fishery Restrictions

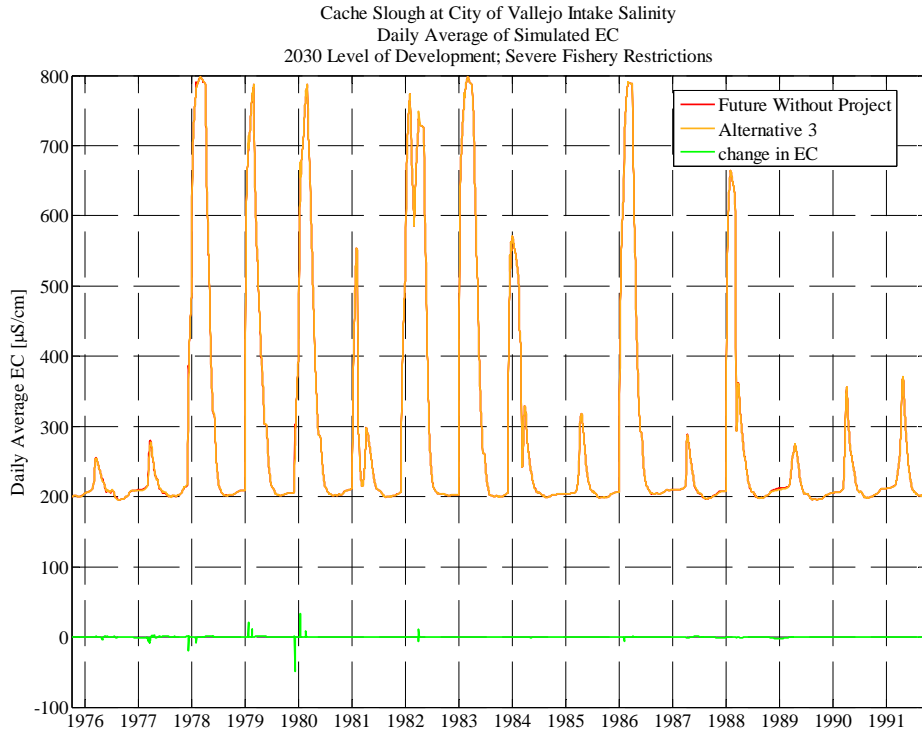


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 04-Nov-2008 DS

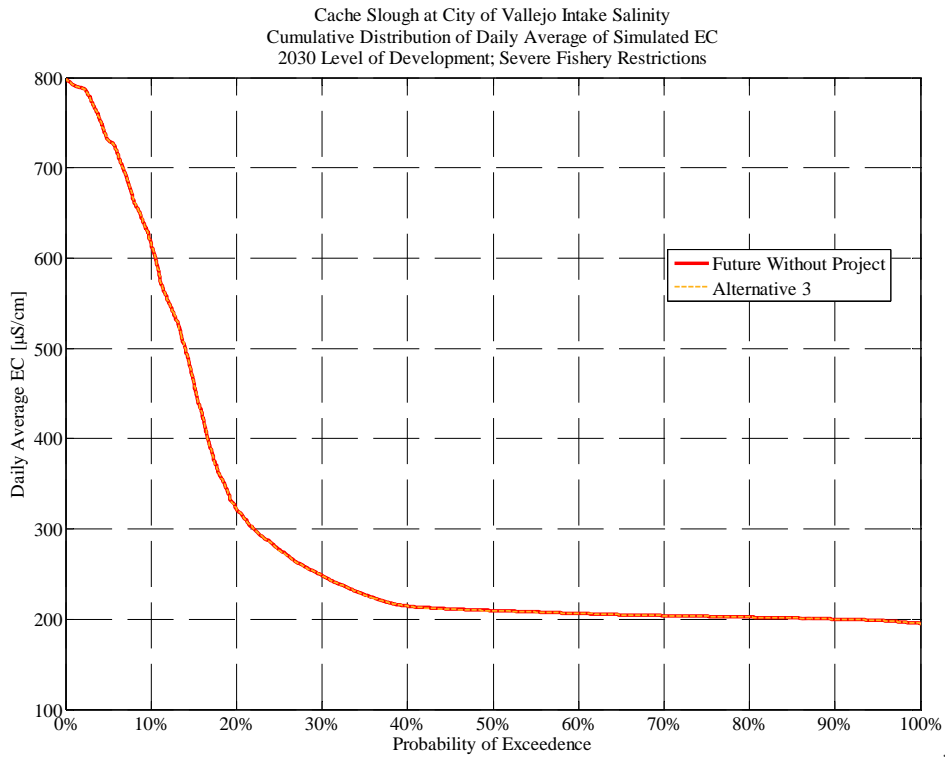
Cache Slough at City of Vallejo Intake Salinity  
 Change from Future Without Project for Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Severe Fishery Restrictions  
 Alternative 3



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 04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 4**

**Cache Slough at City of Vallejo Intake Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 4**

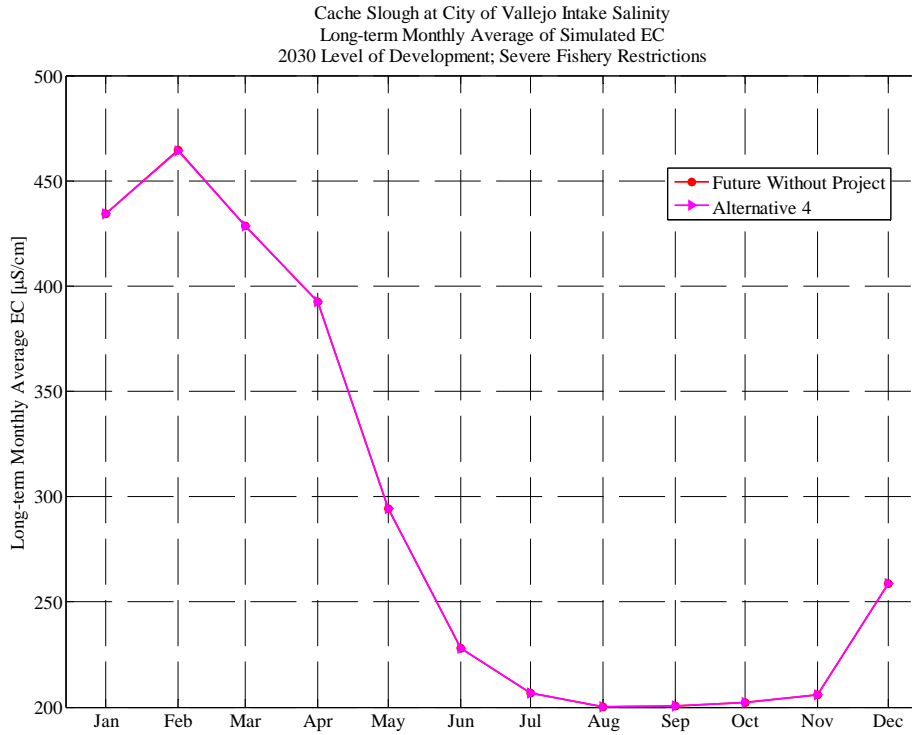
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	201	200	202	206	211	246	234	214	207	205	196	197
1977	201	208	209	210	212	259	243	218	207	202	201	201
1978	205	213	406	731	792	793	628	371	262	210	202	202
1979	204	207	209	643	762	595	419	310	236	209	202	202
1980	204	205	326	641	758	657	437	298	236	208	202	202
1981	203	208	210	445	336	228	287	245	214	206	200	200
1982	202	205	426	709	666	675	729	564	278	212	205	204
1983	202	202	203	666	780	791	676	426	271	217	201	200
1984	200	203	492	552	471	296	274	227	208	204	200	201
1985	203	204	204	204	205	215	304	254	214	205	199	199
1986	200	205	206	527	741	787	578	335	250	212	204	204
1987	205	208	209	210	210	213	270	234	209	202	197	198
1988	202	206	208	571	648	392	300	243	212	203	198	199
1989	203	209	211	213	213	231	267	234	207	202	197	196
1990	197	201	204	206	207	246	309	247	213	205	199	199
1991	203	208	211	212	214	232	325	289	224	206	202	203
<b>Avg</b>	202	206	259	434	464	428	392	294	228	207	200	200
<b>W/AN/BN</b>	202	206	324	638	710	656	534	361	249	210	202	202
<b>D/C</b>	202	206	208	275	273	251	282	242	212	204	199	199

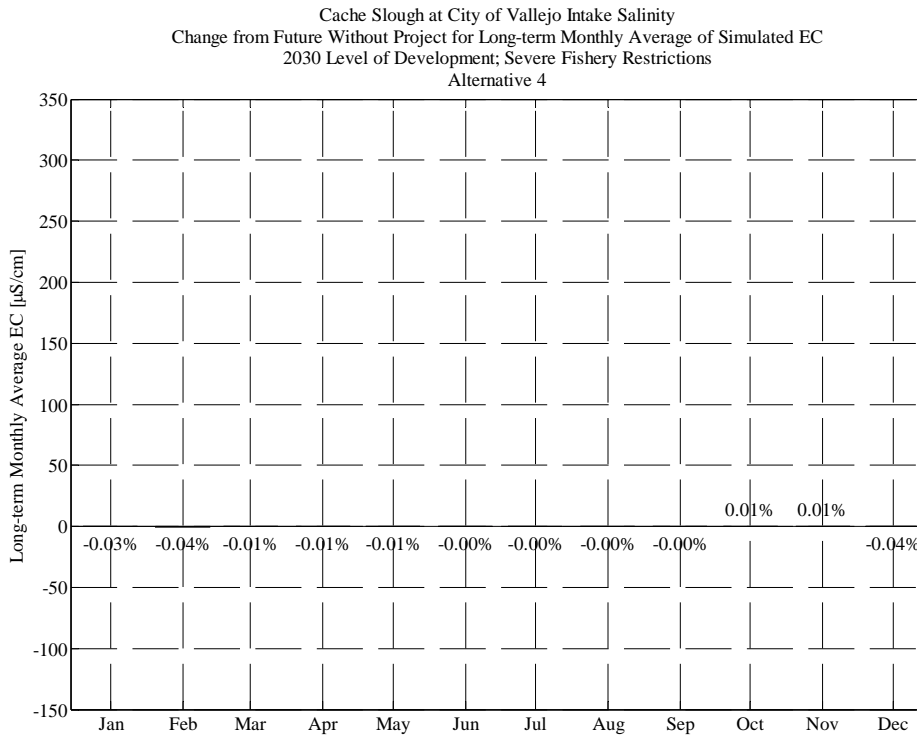
**Percent (%) Change from Future Without Project for Cache Slough at City of Vallejo  
(Alternative 4 - Future Without Project) / Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

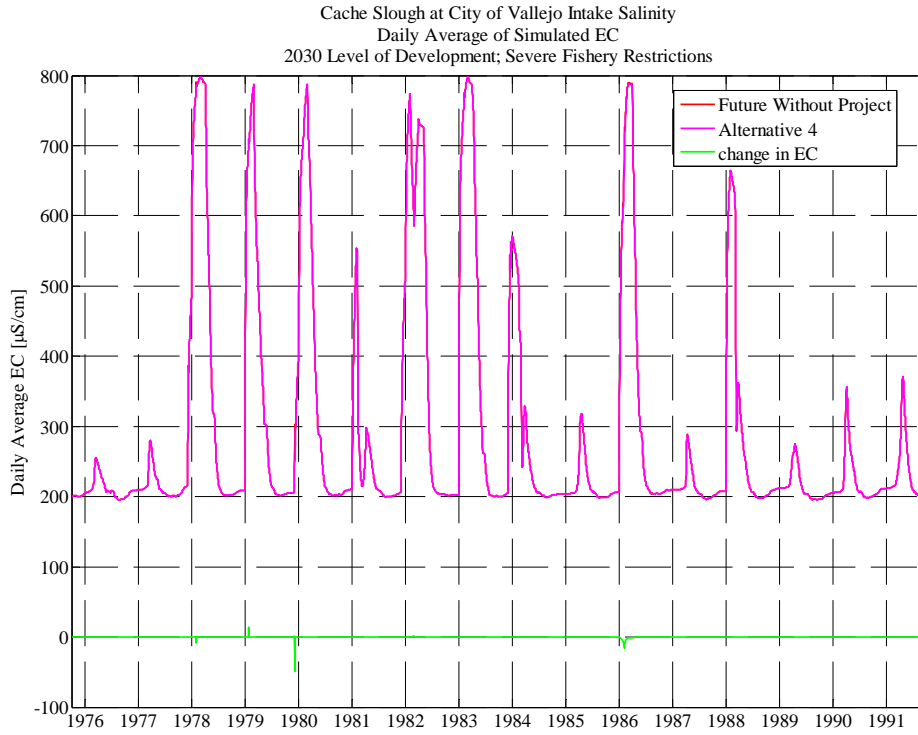
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	-0.8%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	-0.6%	-0.8%	-0.2%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	-0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



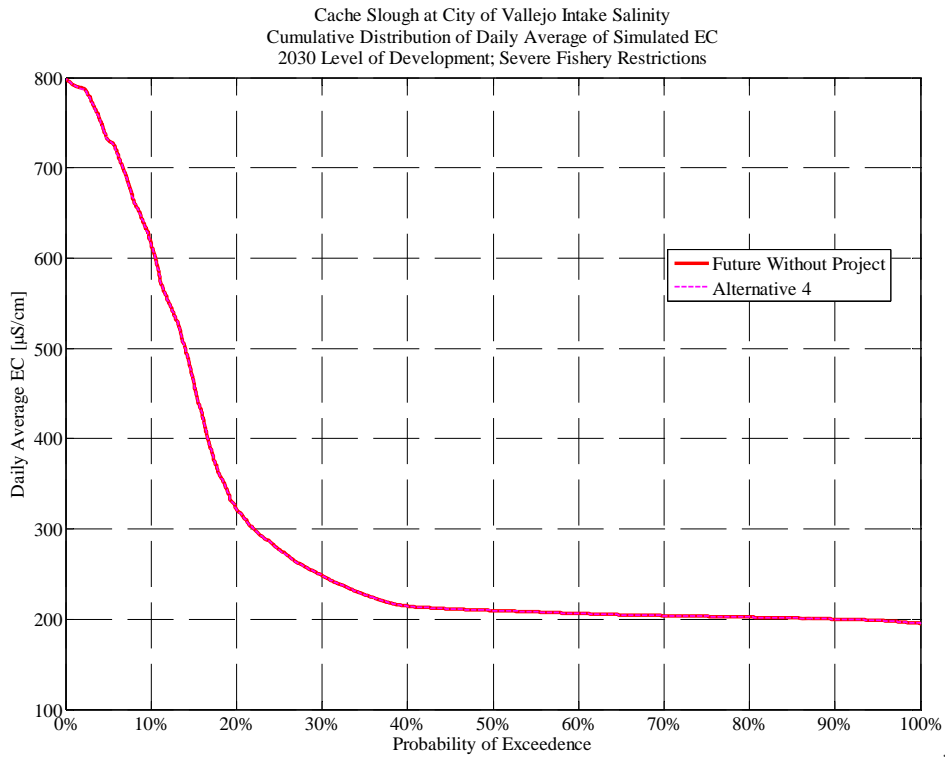
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04-Nov-2008 DS



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## Old River near Tracy Road Bridge

### *Future Without Project*

#### Old River near Tracy Road Bridge Salinity Monthly Average of Simulated Values (EC, $\mu\text{S/cm}$ )

#### Future Without Project

#### 2030 Level of Development; Severe Fishery Restrictions

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	322	317	733	759	888	1,004	640	549	696	658	664	667
1977	829	825	794	852	990	1,021	734	601	726	599	624	711
1978	866	863	834	796	757	695	386	309	426	518	413	525
1979	643	658	729	697	391	341	377	300	426	389	420	580
1980	751	619	748	454	364	403	351	350	370	442	403	491
1981	629	603	712	756	883	871	507	426	647	493	561	619
1982	723	625	764	775	308	332	224	204	354	400	321	263
1983	224	290	380	392	340	281	302	259	237	223	179	247
1984	266	214	311	342	245	368	362	353	503	402	379	538
1985	640	505	757	767	814	872	540	476	644	495	568	638
1986	723	643	751	807	503	321	248	222	376	537	417	466
1987	553	577	697	763	941	915	623	532	701	520	579	648
1988	737	688	788	851	992	1,019	703	617	718	534	718	661
1989	784	853	804	892	1,044	1,017	707	609	697	492	560	683
1990	755	735	805	898	998	1,016	759	625	721	612	683	670
1991	829	845	821	926	1,154	976	722	631	720	562	648	705
<b>Avg</b>	642	616	714	733	726	716	512	441	560	492	509	570
<b>W/AN/BN</b>	599	559	645	609	415	392	321	285	385	416	362	444
<b>D/C</b>	675	661	768	829	967	968	660	563	697	552	623	667

**Alternative 1**

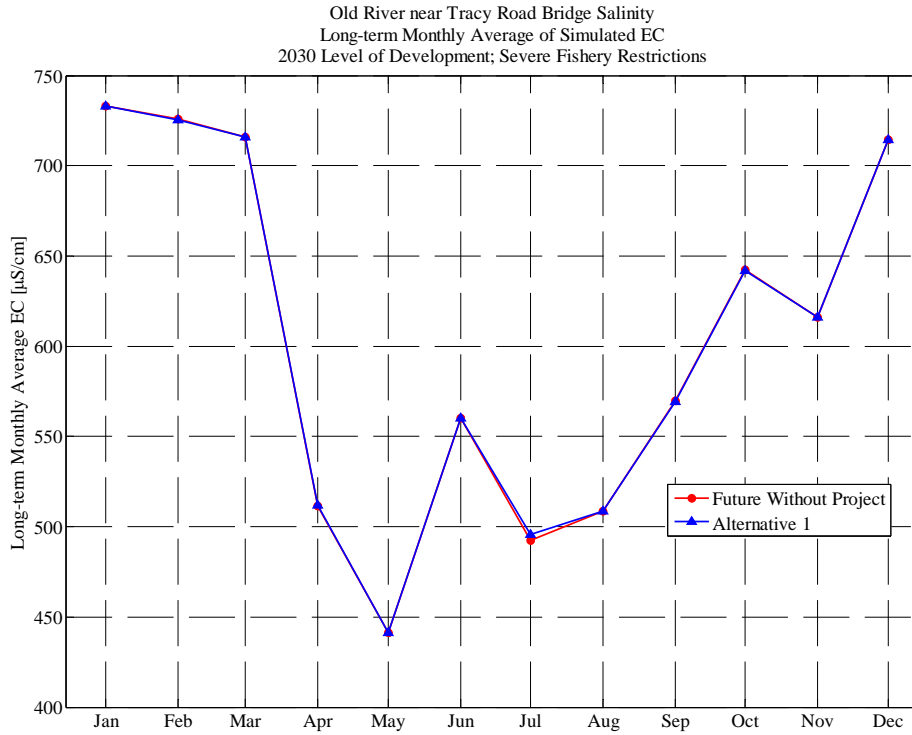
**Old River near Tracy Road Bridge Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 1**

**2030 Level of Development; Severe Fishery Restrictions**

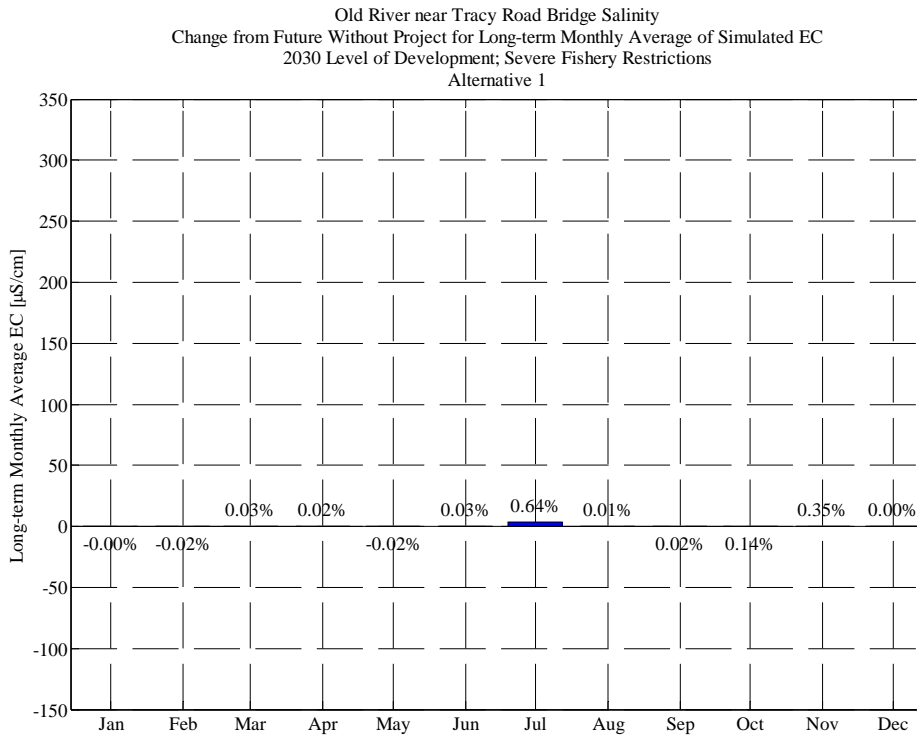
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	329	335	734	759	888	1,004	641	549	696	661	665	641
1977	782	784	792	851	990	1,021	734	601	726	633	647	702
1978	858	869	834	796	757	696	386	309	426	518	425	575
1979	675	673	729	697	391	342	377	300	426	388	413	572
1980	752	619	748	454	363	405	352	350	370	442	405	488
1981	623	598	712	756	883	871	507	426	648	506	552	634
1982	744	636	765	774	308	333	224	204	354	400	321	263
1983	224	290	380	393	340	281	303	259	238	223	179	247
1984	266	214	311	342	244	368	362	353	503	402	379	531
1985	638	506	757	767	814	872	540	476	644	488	558	640
1986	733	665	753	807	503	320	245	221	375	544	418	454
1987	543	573	697	763	942	915	623	532	701	534	578	649
1988	747	700	789	851	992	1,019	704	617	718	547	724	655
1989	754	814	802	891	1,044	1,017	707	609	698	481	555	686
1990	777	742	805	898	998	1,016	759	625	721	608	676	672
1991	829	841	820	926	1,154	976	722	631	720	558	644	701
<b>Avg</b>	642	616	714	733	726	716	512	441	560	496	509	569
<b>W/AN/BN</b>	607	567	646	609	415	392	322	285	385	417	363	447
<b>D/C</b>	669	655	768	829	967	968	660	563	697	557	622	664

**Percent (%) Change from Future Without Project for Old River near Tracy Road Bridge  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

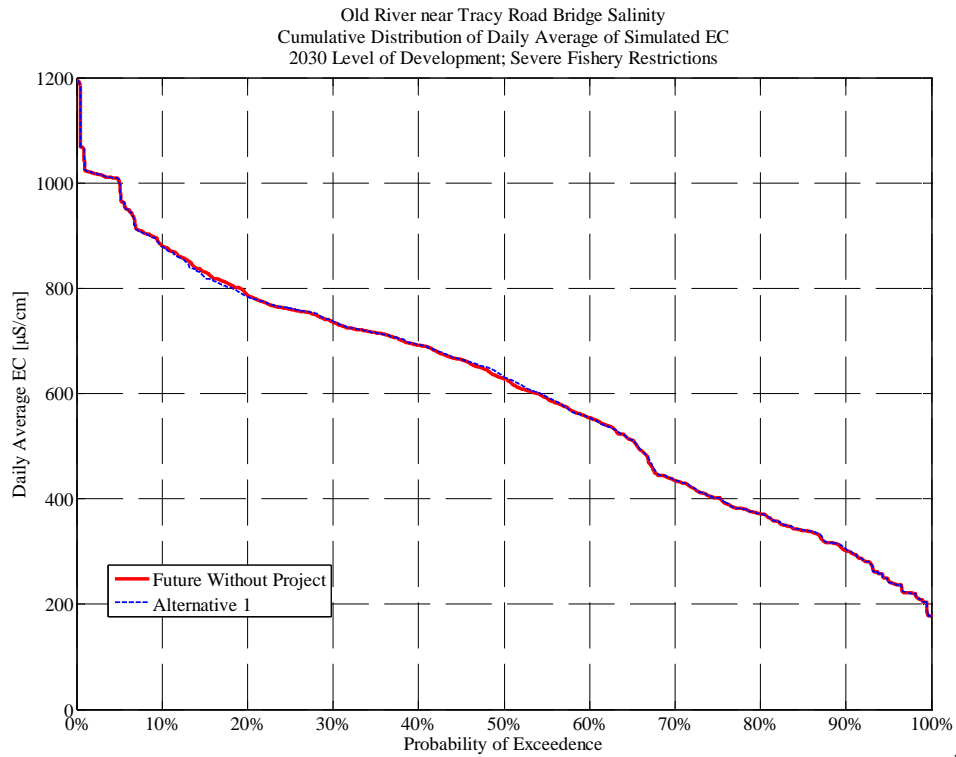
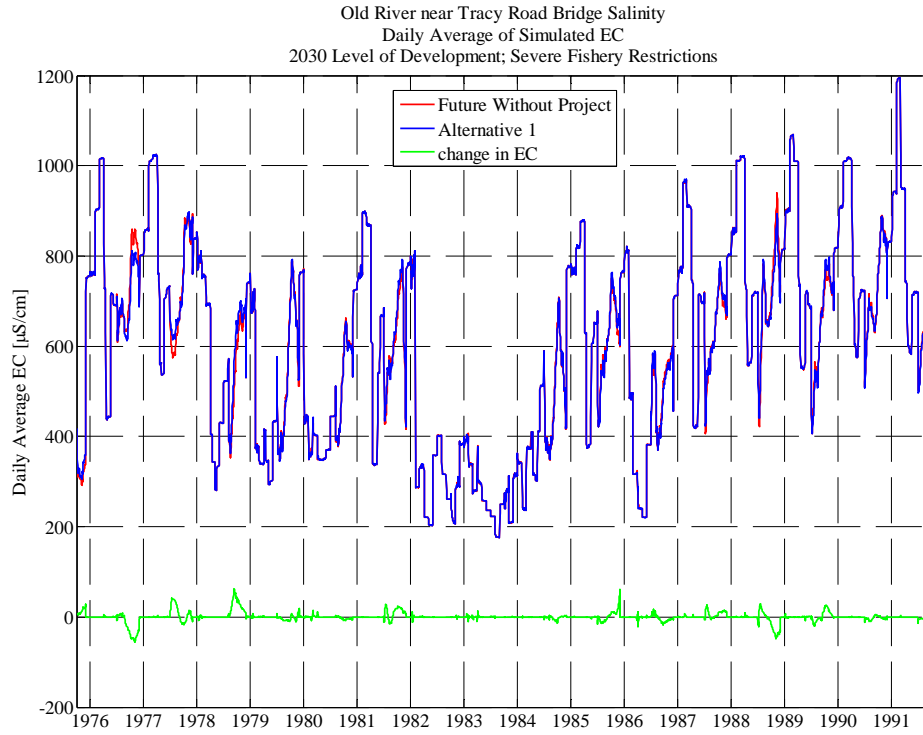
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	2.3%	5.7%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.5%	0.1%	-3.9%
1977	-5.7%	-5.0%	-0.3%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	5.5%	3.7%	-1.3%
1978	-0.9%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	9.3%
1979	4.9%	2.3%	0.1%	0.1%	0.0%	0.2%	0.0%	0.0%	0.0%	-0.4%	-1.7%	-1.4%
1980	0.1%	0.1%	0.1%	0.0%	-0.4%	0.4%	0.3%	0.0%	0.0%	0.0%	0.4%	-0.6%
1981	-0.9%	-0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6%	-1.6%	2.3%
1982	2.9%	1.8%	0.1%	-0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.6%	0.1%	0.2%	0.3%	-0.1%	0.0%
1984	0.0%	0.1%	-0.1%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	-0.1%	-0.1%	-1.3%
1985	-0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.3%	-1.7%	0.2%
1986	1.4%	3.4%	0.3%	0.0%	0.0%	-0.2%	-0.9%	-0.3%	-0.1%	1.4%	0.1%	-2.6%
1987	-1.8%	-0.8%	-0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	2.8%	-0.2%	0.1%
1988	1.3%	1.8%	0.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	2.4%	0.9%	-0.8%
1989	-3.9%	-4.6%	-0.2%	-0.1%	0.0%	0.0%	0.0%	-0.1%	0.1%	-2.2%	-0.9%	0.5%
1990	2.9%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.6%	-1.0%	0.4%
1991	0.0%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.7%	-0.7%	-0.6%
<b>Avg</b>	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%
<b>W/AN/BN</b>	1.2%	1.2%	0.1%	0.0%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.2%	0.2%	0.5%
<b>D/C</b>	-0.7%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	-0.2%	-0.3%



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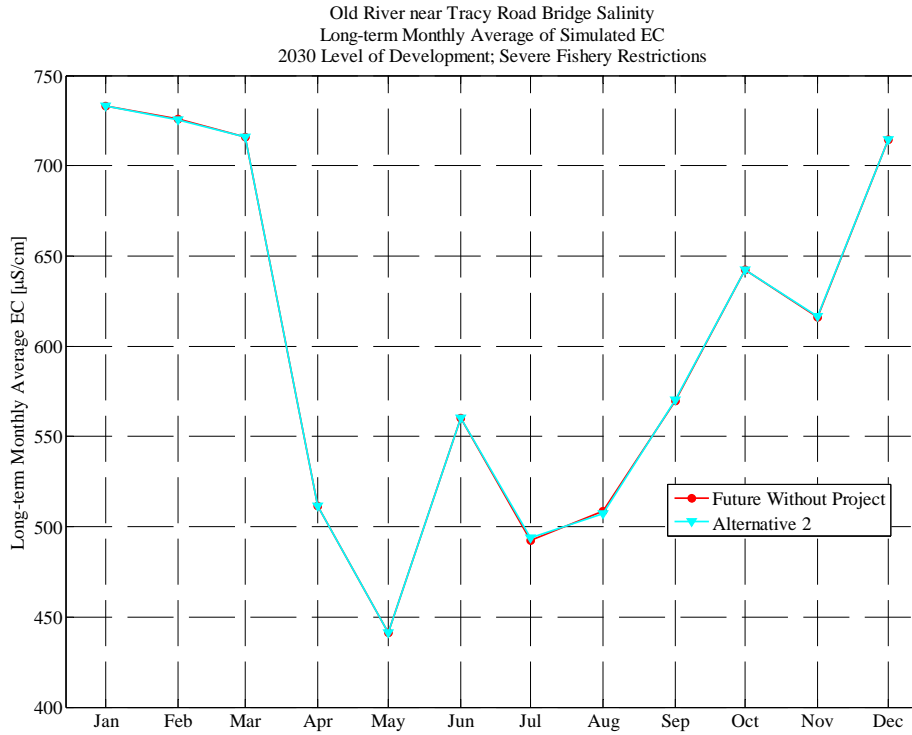


**Alternative 2****Old River near Tracy Road Bridge Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 2****2030 Level of Development; Severe Fishery Restrictions**

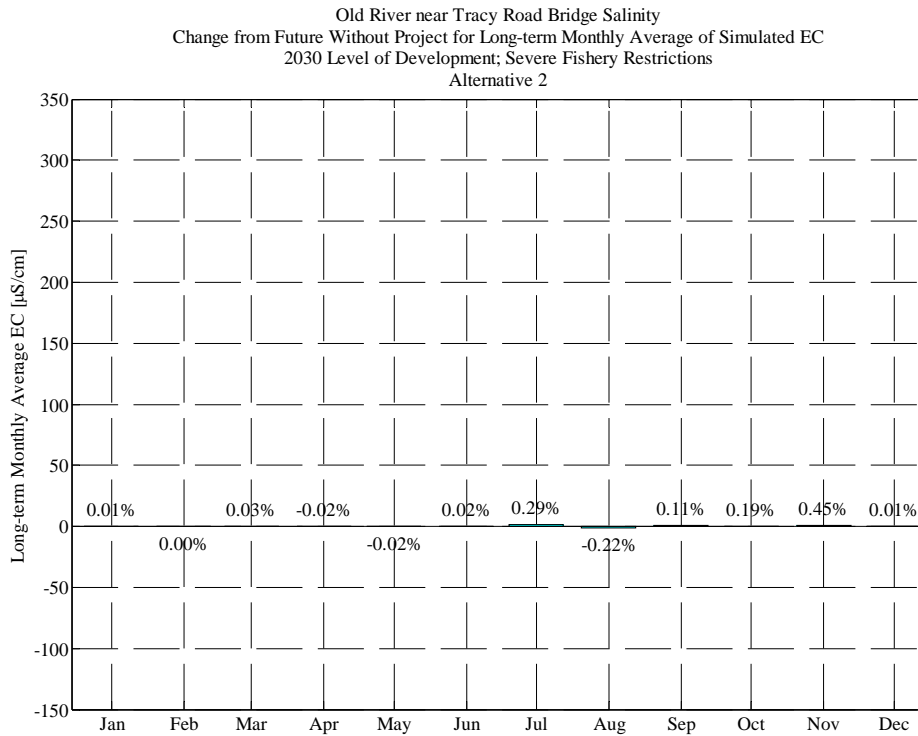
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	329	337	734	759	888	1,004	641	549	696	661	666	642
1977	782	785	792	851	990	1,021	734	601	726	600	625	709
1978	864	863	834	796	757	695	386	309	426	518	426	575
1979	675	673	729	698	391	342	377	300	426	388	413	573
1980	753	623	749	454	364	405	351	350	370	442	405	488
1981	623	598	712	756	883	871	507	426	648	506	552	634
1982	744	640	765	775	308	332	224	204	354	400	321	263
1983	224	290	380	392	341	281	303	259	238	223	179	247
1984	266	214	311	342	245	368	362	353	503	402	379	531
1985	638	507	757	767	814	872	540	476	644	488	558	640
1986	733	665	753	807	503	320	245	221	375	544	417	453
1987	542	573	697	763	941	915	623	532	701	534	578	649
1988	747	701	789	851	992	1,019	704	617	718	546	723	656
1989	755	814	802	891	1,044	1,017	707	609	698	480	556	688
1990	777	742	805	898	998	1,016	759	625	721	608	676	672
1991	828	841	820	926	1,154	976	722	631	720	559	644	702
<b>Avg</b>	642	617	714	733	726	716	512	441	560	494	507	570
<b>W/AN/BN</b>	608	567	646	609	415	392	321	285	385	417	363	447
<b>D/C</b>	669	655	768	829	967	968	660	563	697	554	620	666

**Percent (%) Change from Future Without Project for Old River near Tracy Road Bridge  
(Alternative 2 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

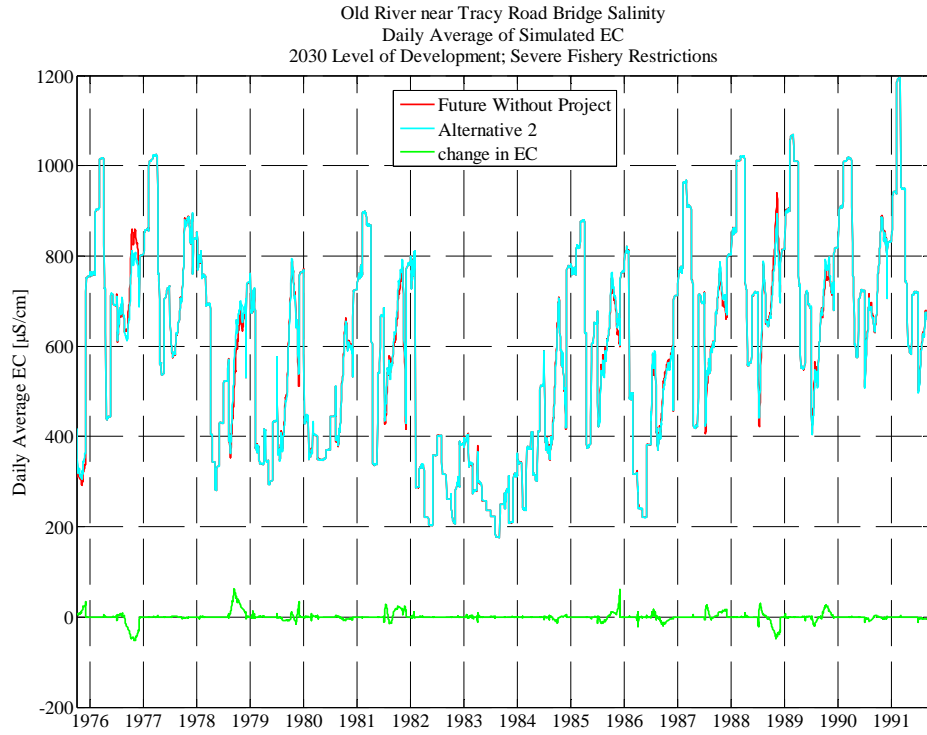
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	2.3%	6.2%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.6%	0.2%	-3.9%
1977	-5.7%	-4.9%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	-0.2%
1978	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	9.5%
1979	4.9%	2.4%	0.1%	0.2%	-0.1%	0.2%	0.0%	0.0%	0.0%	-0.4%	-1.6%	-1.3%
1980	0.2%	0.6%	0.2%	0.0%	0.0%	0.3%	-0.1%	0.0%	0.0%	0.0%	0.4%	-0.6%
1981	-0.9%	-0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6%	-1.6%	2.3%
1982	2.9%	2.5%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.3%	0.1%	0.2%	0.3%	-0.1%	0.0%
1984	0.0%	0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	-1.3%
1985	-0.3%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.3%	-1.7%	0.2%
1986	1.4%	3.4%	0.3%	0.0%	0.0%	-0.2%	-0.9%	-0.3%	-0.1%	1.4%	-0.1%	-2.9%
1987	-1.9%	-0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%	-0.2%	0.1%
1988	1.3%	2.0%	0.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	2.3%	0.6%	-0.8%
1989	-3.8%	-4.6%	-0.2%	-0.1%	0.0%	0.0%	0.0%	-0.1%	0.1%	-2.3%	-0.8%	0.8%
1990	2.9%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.6%	-0.9%	0.3%
1991	-0.1%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.7%	-0.6%	-0.5%
<b>Avg</b>	0.2%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	-0.2%	0.1%
<b>W/AN/BN</b>	1.3%	1.3%	0.1%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.2%	0.2%	0.5%
<b>D/C</b>	-0.7%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	-0.5%	-0.2%



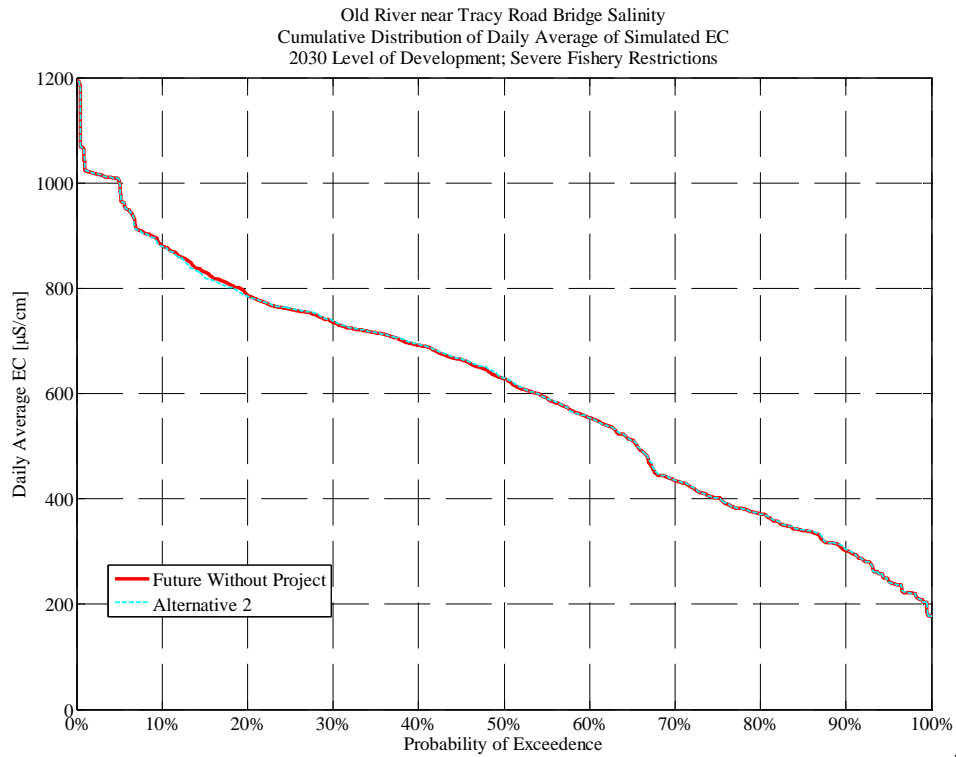
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 3**

**Old River near Tracy Road Bridge Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )  
Alternative 3**

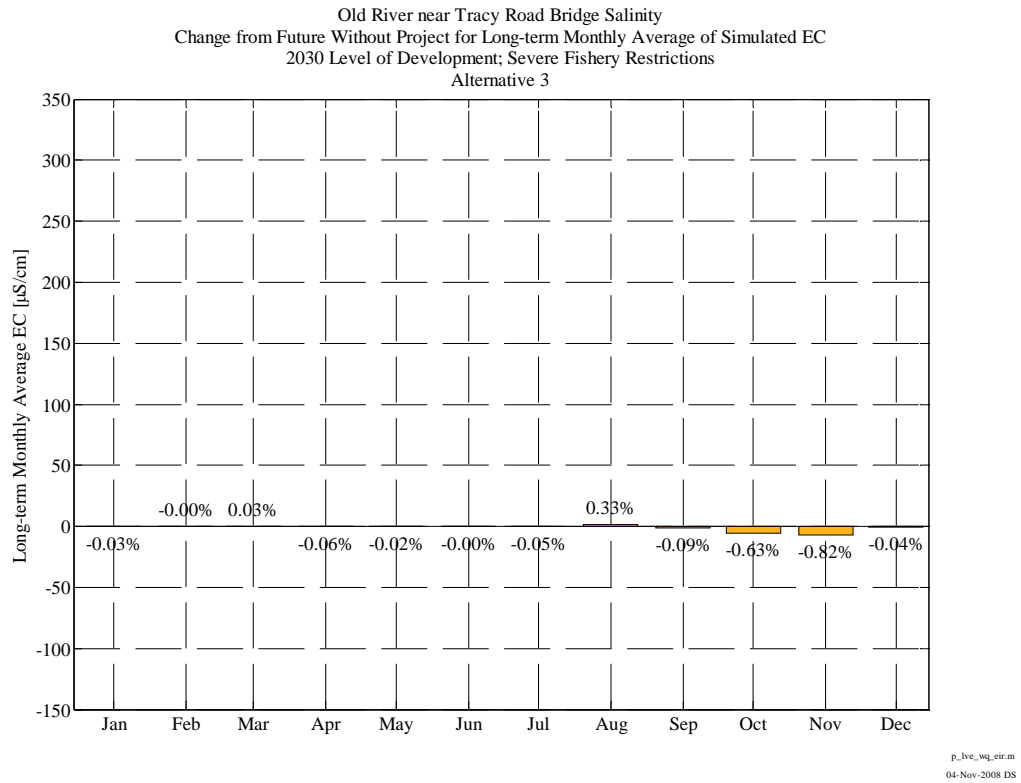
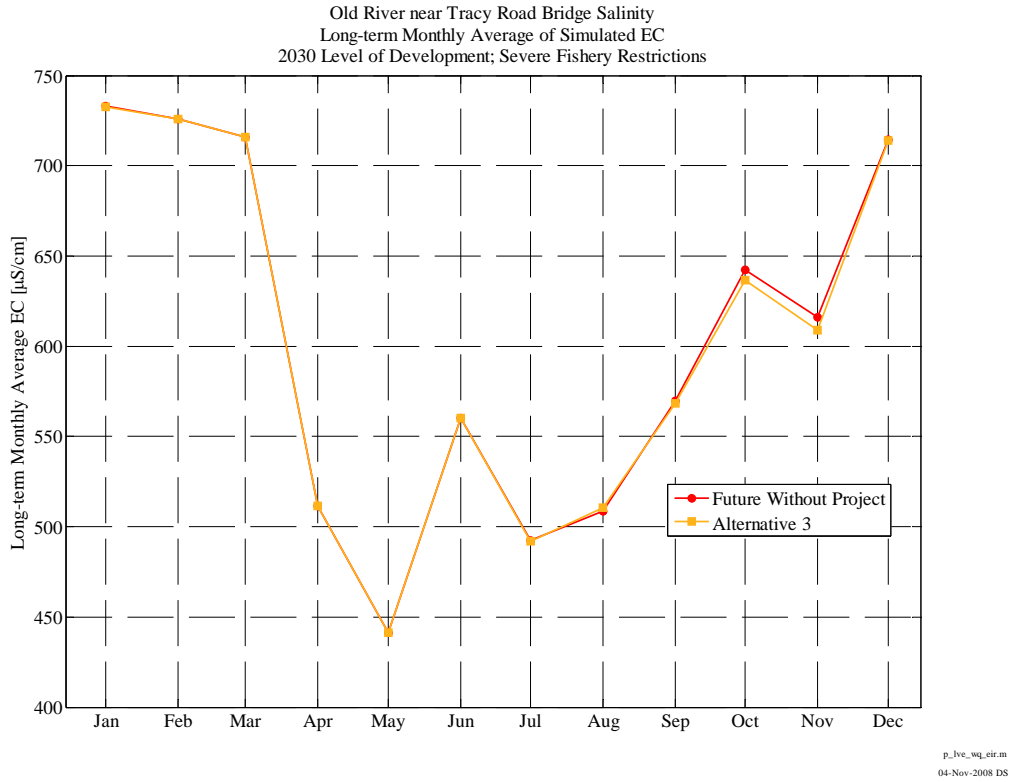
**2030 Level of Development; Severe Fishery Restrictions**

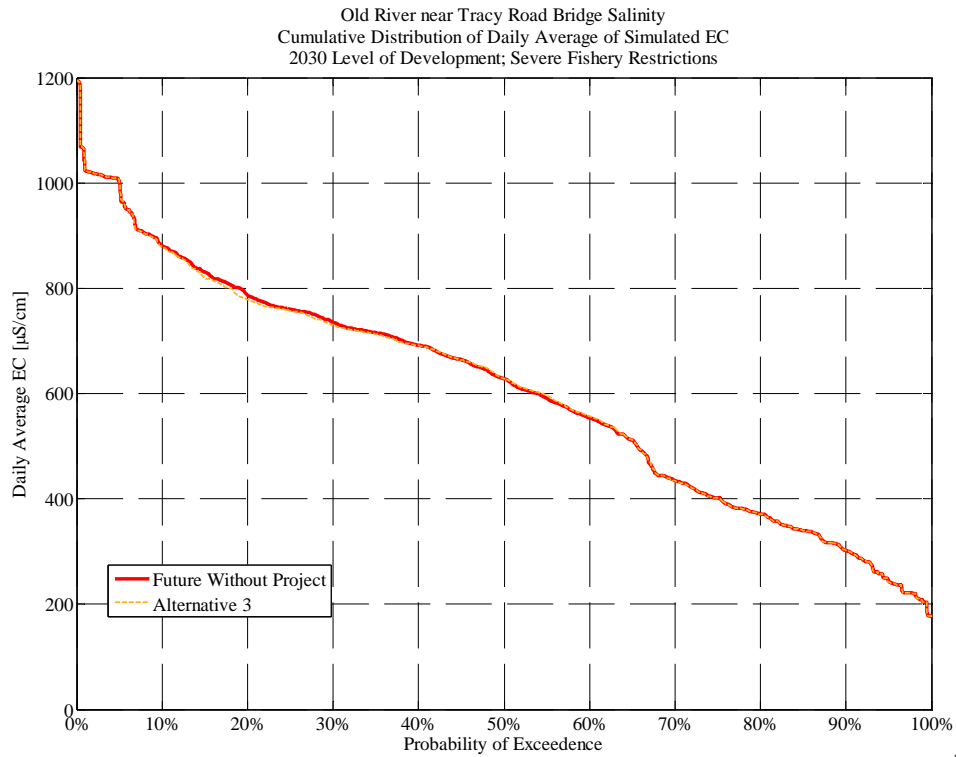
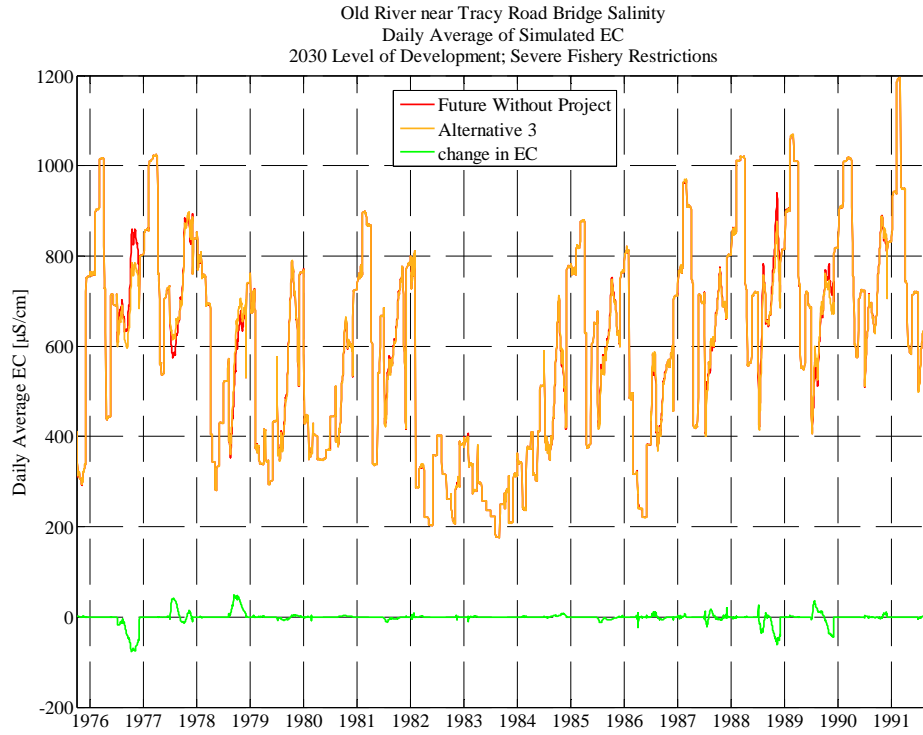
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	322	317	733	759	888	1,004	640	549	696	644	651	623
1977	758	763	791	851	990	1,021	734	601	726	632	649	704
1978	861	869	834	796	757	696	386	309	426	518	422	567
1979	682	673	729	697	391	342	377	300	426	386	414	576
1980	753	622	748	454	364	403	351	350	370	442	403	493
1981	632	604	712	756	883	871	507	426	647	485	557	615
1982	721	625	764	775	308	333	224	204	354	400	321	263
1983	224	290	380	392	339	282	302	259	237	223	179	247
1984	266	214	311	342	245	368	362	353	503	401	380	540
1985	643	511	757	767	814	872	540	476	644	486	564	632
1986	719	642	752	806	503	321	245	221	375	542	418	461
1987	551	578	697	762	942	915	623	532	701	511	591	648
1988	733	688	789	849	992	1,019	703	617	718	519	710	661
1989	753	802	802	891	1,045	1,017	707	609	697	511	576	690
1990	739	695	803	898	998	1,016	759	625	721	612	682	669
1991	827	850	821	926	1,154	976	722	631	720	561	649	704
<b>Avg</b>	636	609	714	733	726	716	511	441	560	492	510	568
<b>W/AN/BN</b>	604	562	645	609	415	392	321	285	384	416	363	450
<b>D/C</b>	662	645	767	829	967	968	660	563	697	551	625	661

**Percent (%) Change from Future Without Project for Old River near Tracy Road Bridge  
(Alternative 3 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-2.0%	-2.0%	-6.6%
1977	-8.7%	-7.5%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.4%	3.9%	-1.0%
1978	-0.6%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	7.9%
1979	5.9%	2.3%	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	-0.8%	-1.5%	-0.8%
1980	0.3%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
1981	0.4%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.6%	-0.7%	-0.7%
1982	-0.3%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	-0.1%	0.0%	0.0%	-0.1%	-0.3%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.2%	0.5%
1985	0.6%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.7%	-0.7%	-0.9%
1986	-0.5%	-0.1%	0.1%	0.0%	0.0%	-0.1%	-1.1%	-0.3%	-0.1%	0.9%	0.3%	-1.1%
1987	-0.2%	0.0%	0.0%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	-1.8%	1.9%	0.0%
1988	-0.6%	0.1%	0.1%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	-2.7%	-1.2%	0.1%
1989	-4.0%	-6.0%	-0.3%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	4.0%	2.8%	1.1%
1990	-2.2%	-5.4%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	-0.2%
1991	-0.2%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	0.2%	-0.1%
<b>Avg</b>	-0.6%	-0.8%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.3%	-0.1%
<b>W/AN/BN</b>	0.7%	0.5%	0.0%	0.0%	0.0%	0.1%	-0.2%	0.0%	0.0%	0.0%	0.2%	1.0%
<b>D/C</b>	-1.6%	-1.8%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.5%	-0.9%





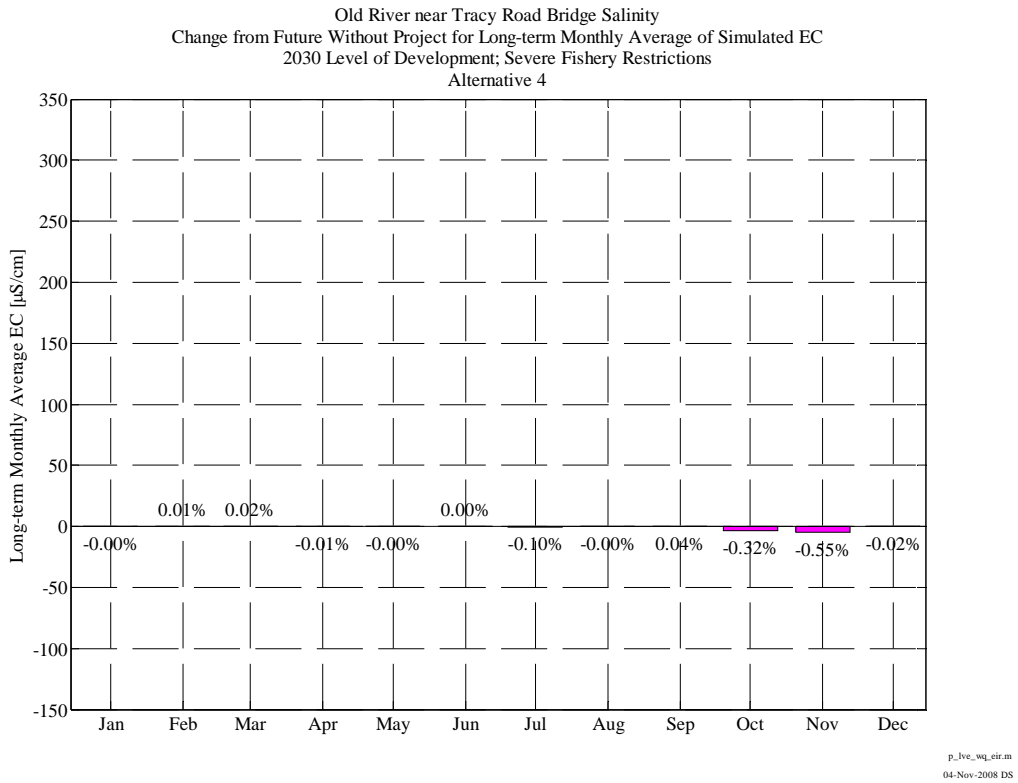
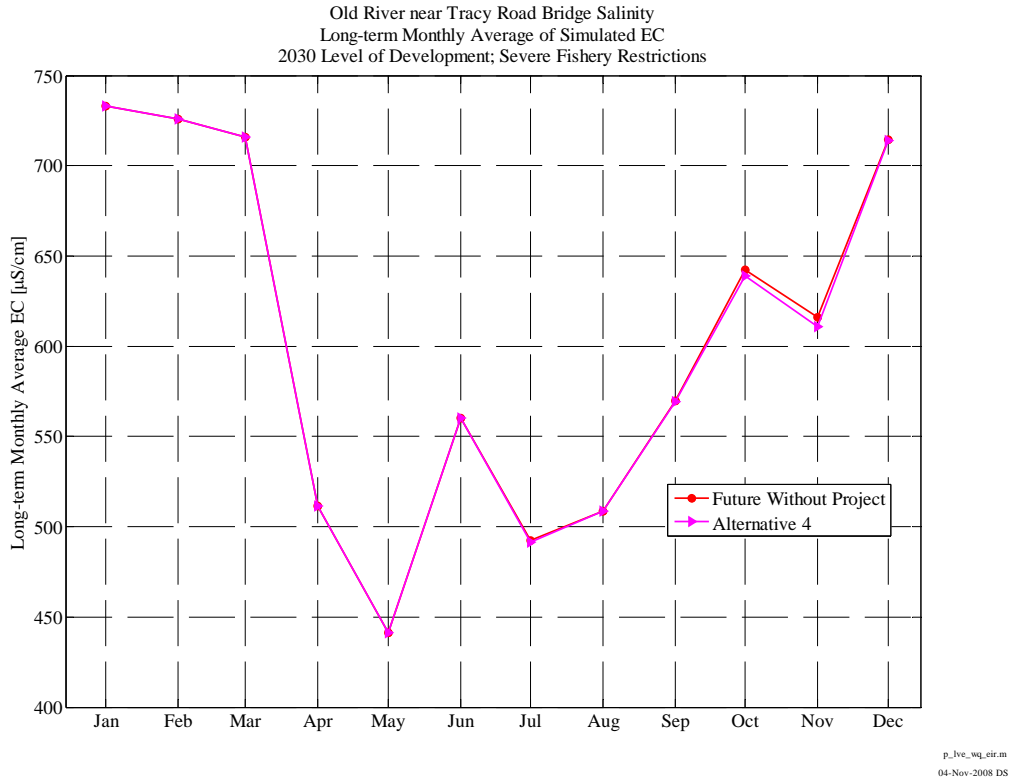


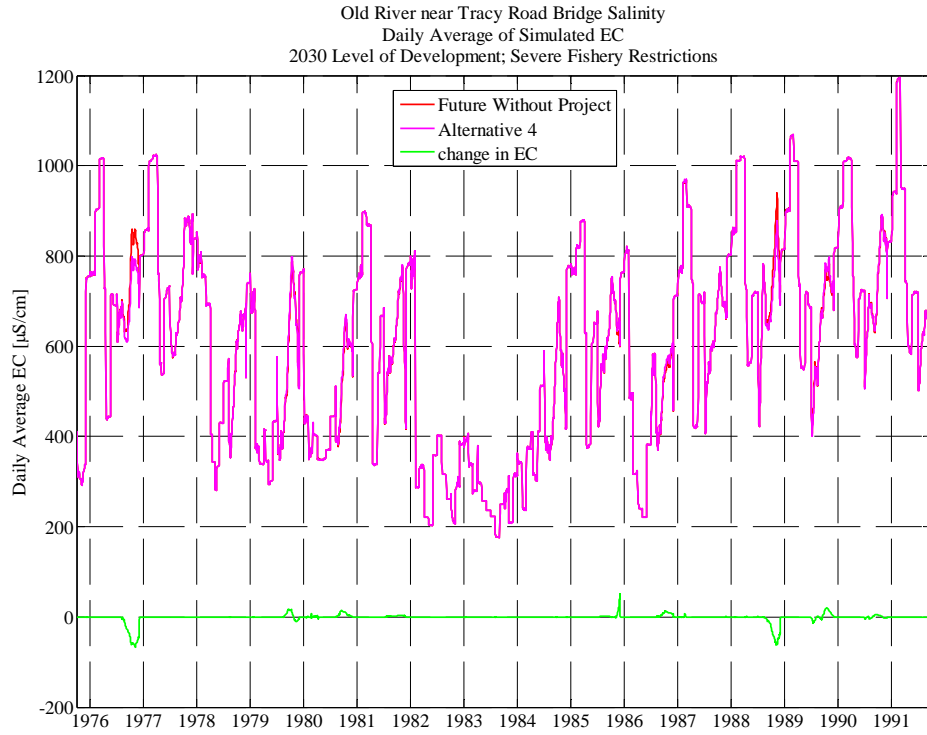
**Alternative 4****Old River near Tracy Road Bridge Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 4****2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	322	317	733	759	888	1,004	640	549	696	657	658	637
1977	770	769	791	852	990	1,021	734	601	726	599	624	711
1978	866	863	834	796	757	695	386	309	426	518	413	525
1979	643	657	729	697	391	341	377	300	426	389	421	594
1980	757	610	748	454	364	405	351	350	370	442	405	503
1981	637	606	712	756	883	871	507	426	647	494	563	621
1982	726	627	764	775	308	332	224	204	354	400	321	263
1983	224	290	380	392	340	281	302	259	237	223	179	247
1984	266	214	311	342	245	368	362	353	503	402	380	538
1985	640	504	756	767	814	872	540	476	644	495	569	639
1986	723	657	753	807	503	321	248	222	376	537	418	472
1987	564	586	698	763	943	915	623	532	701	520	579	648
1988	737	688	788	851	992	1,019	703	617	718	534	716	649
1989	742	802	802	891	1,044	1,017	707	609	697	484	560	683
1990	773	743	805	898	998	1,016	759	625	721	610	680	674
1991	832	843	820	926	1,154	976	722	631	720	562	648	705
<b>Avg</b>	639	611	714	733	726	716	512	441	560	492	508	569
<b>W/AN/BN</b>	601	560	645	609	415	392	321	285	385	416	362	449
<b>D/C</b>	669	651	767	829	967	968	660	563	697	551	622	663

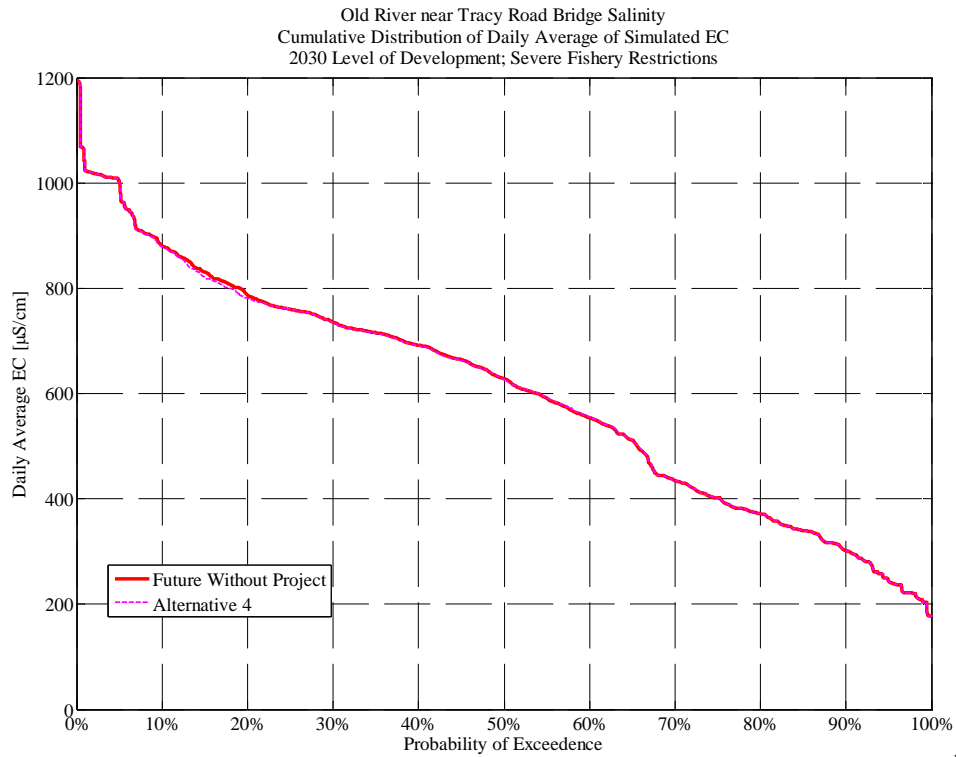
**Percent (%) Change from Future Without Project for Old River near Tracy Road Bridge  
(Alternative 4 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-1.0%	-4.6%
1977	-7.1%	-6.8%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%
1979	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	2.3%
1980	0.8%	-1.3%	0.0%	0.0%	0.0%	0.3%	-0.1%	0.0%	0.0%	0.0%	0.5%	2.4%
1981	1.3%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.3%	0.3%
1982	0.4%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1985	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%
1986	0.0%	2.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	1.1%
1987	2.0%	1.5%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	-0.3%	-1.7%
1989	-5.3%	-6.0%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.6%	0.0%	0.1%
1990	2.3%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.3%	0.6%
1991	0.4%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.3%	-0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
<b>W/AN/BN</b>	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.8%
<b>D/C</b>	-0.7%	-1.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.1%	-0.6%





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## Old River near Middle River

### *Future Without Project*

**Old River near Middle River Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	403	474	745	744	889	1,003	587	563	682	647	570	592
1977	603	637	794	836	994	1,010	658	611	710	654	633	674
1978	661	683	827	744	736	676	376	304	422	516	446	461
1979	525	513	731	648	360	332	369	291	417	574	455	548
1980	505	535	754	425	342	398	343	343	364	439	420	498
1981	454	495	716	732	878	861	470	427	649	598	561	584
1982	550	581	772	711	292	314	221	199	350	395	313	260
1983	207	275	378	346	324	258	293	257	235	220	172	245
1984	331	209	303	333	229	361	351	346	499	553	461	477
1985	427	483	761	746	806	867	499	479	638	629	545	552
1986	547	559	752	787	456	313	235	215	372	559	447	454
1987	425	444	702	743	944	897	574	551	688	620	578	603
1988	588	608	792	829	994	1,010	650	624	707	653	647	640
1989	641	671	805	880	1,052	1,006	648	616	671	602	582	580
1990	609	630	810	889	996	1,006	680	631	710	641	620	632
1991	630	666	822	920	1,176	954	665	635	708	646	631	664
<b>Avg</b>	507	529	717	707	717	704	476	443	551	559	505	529
<b>W/AN/BN</b>	475	479	645	570	391	379	313	279	380	465	388	420
<b>D/C</b>	531	567	772	813	970	957	603	571	685	632	596	613

**Alternative 1**

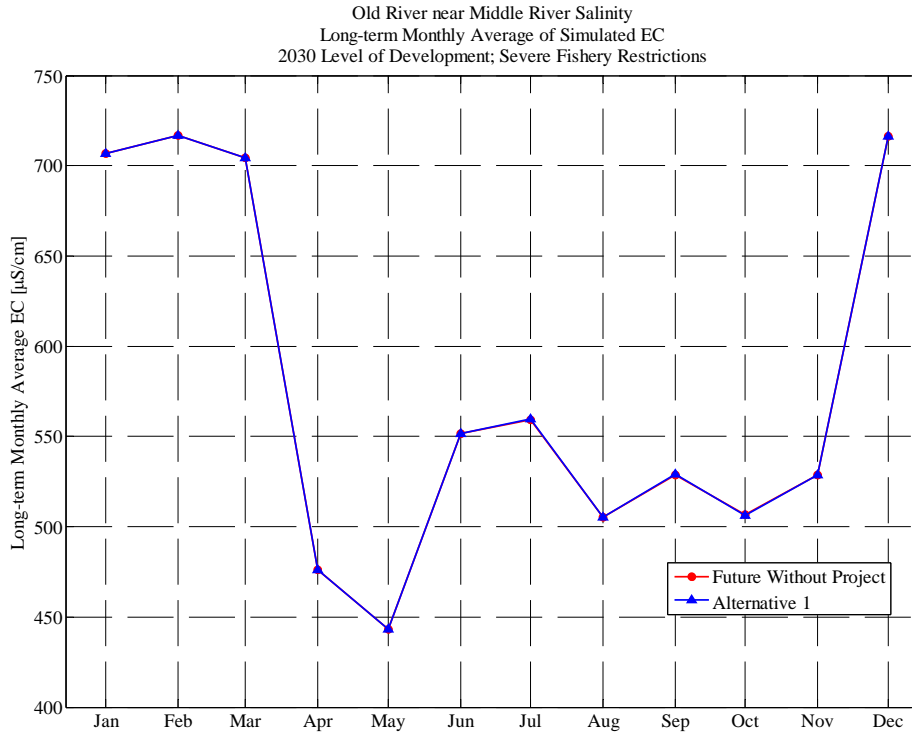
**Old River near Middle River Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )  
Alternative 1**

**2030 Level of Development; Severe Fishery Restrictions**

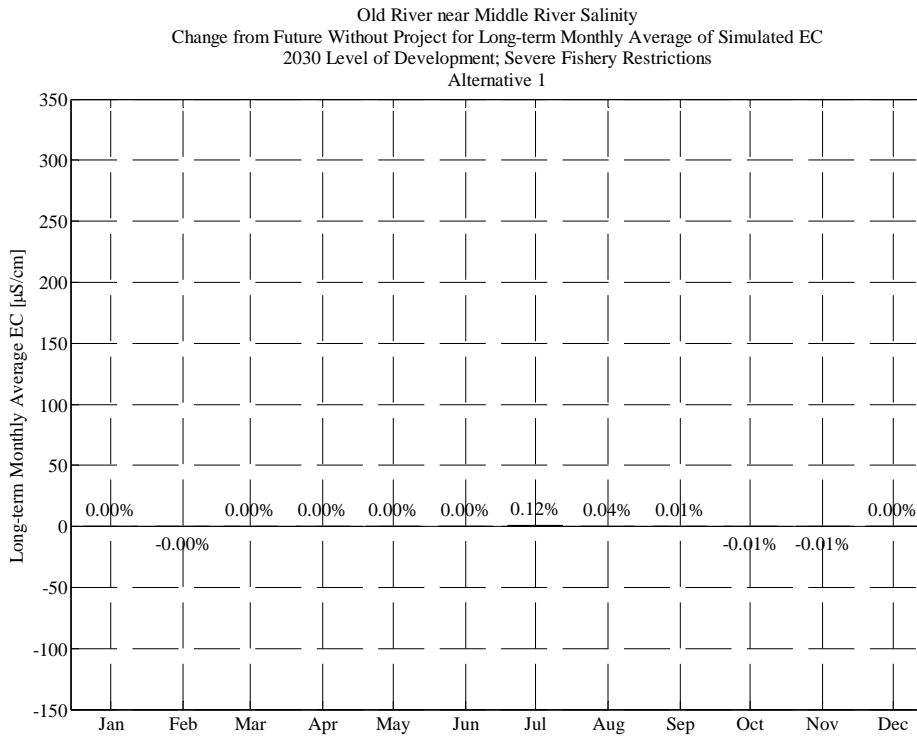
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	403	475	745	744	889	1,003	587	563	682	648	571	590
1977	595	630	794	836	994	1,010	658	610	710	659	639	674
1978	659	686	827	744	736	676	376	304	422	516	446	461
1979	530	514	731	648	360	332	369	291	417	574	454	548
1980	505	535	754	425	342	398	343	343	364	439	420	498
1981	453	494	716	732	878	861	470	427	649	599	560	586
1982	553	583	772	711	292	314	221	199	350	395	313	260
1983	207	275	378	346	324	258	293	257	235	220	172	245
1984	331	209	303	333	229	361	351	346	499	556	462	477
1985	427	483	761	746	806	867	499	479	638	629	544	552
1986	548	561	752	787	456	313	235	215	372	559	447	454
1987	425	443	702	743	944	897	574	551	688	622	578	603
1988	588	609	792	829	994	1,010	650	624	707	654	649	640
1989	636	663	805	880	1,052	1,006	648	616	672	602	581	580
1990	613	632	810	889	996	1,006	680	631	710	641	619	633
1991	630	665	822	920	1,176	954	665	635	708	645	631	663
<b>Avg</b>	506	529	717	707	717	704	476	443	551	560	505	529
<b>W/AN/BN</b>	476	481	645	570	391	379	313	279	380	465	388	420
<b>D/C</b>	530	566	772	813	970	957	604	571	685	633	597	613

**Percent (%) Change from Future Without Project for Old River near Middle River Salinity  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	-0.4%
1977	-1.4%	-1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.9%	0.0%
1978	-0.4%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.9%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	-0.2%	0.4%
1982	0.5%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.2%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%
1986	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.1%
1988	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%
1989	-0.7%	-1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%
1990	0.6%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.2%
1991	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.1%	-0.1%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
<b>W/AN/BN</b>	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
<b>D/C</b>	-0.2%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	0.0%

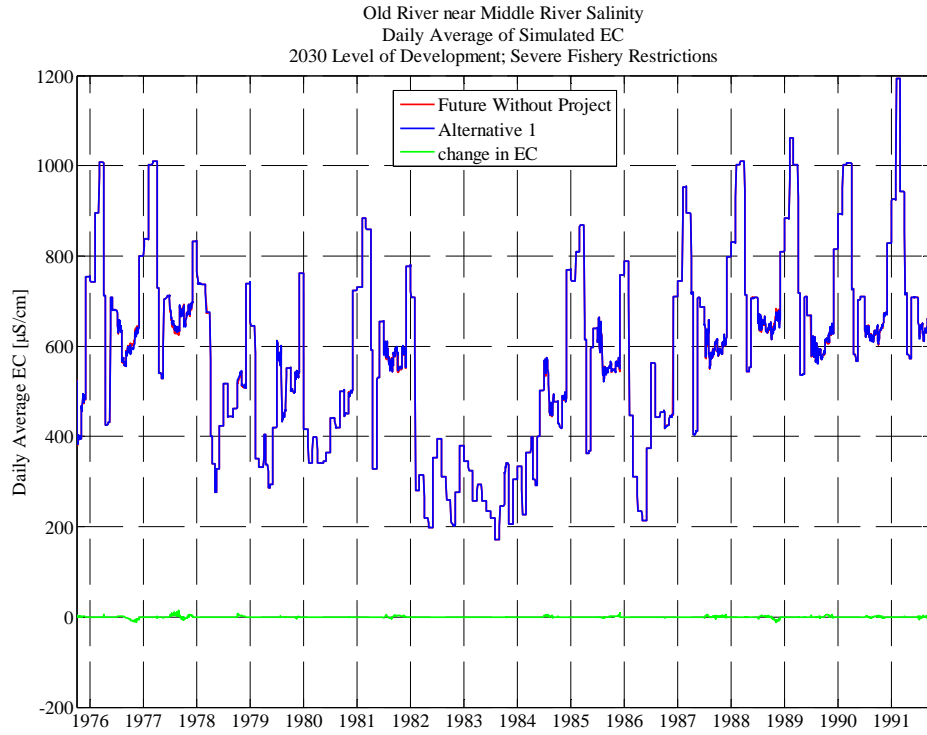


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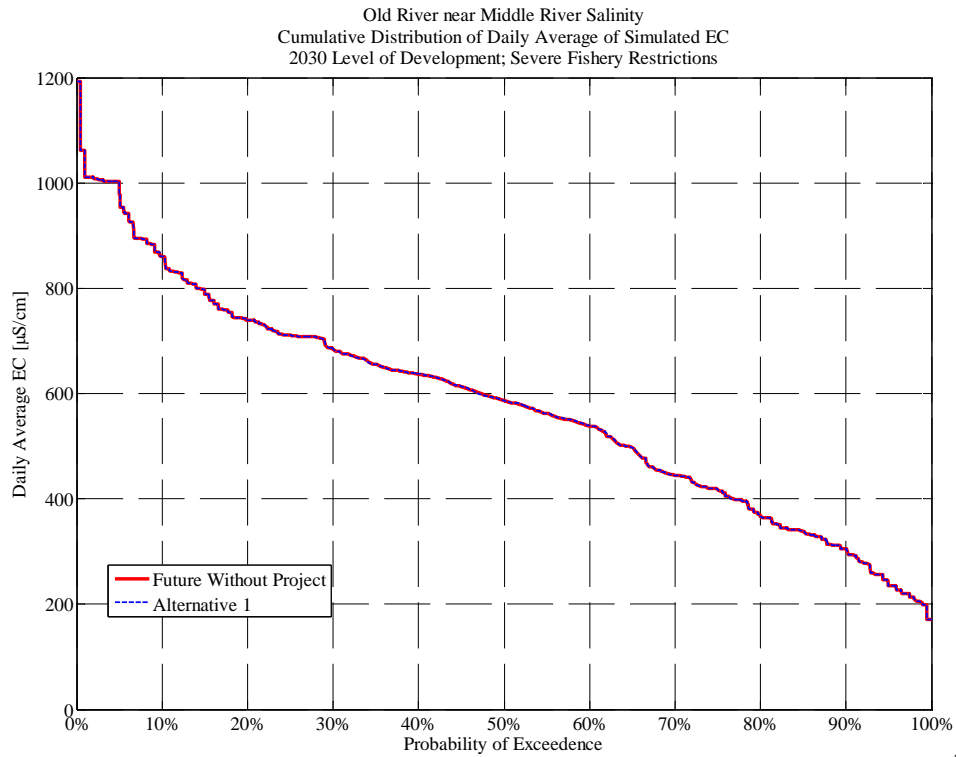


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**Alternative 2**

**Old River near Middle River Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )  
Alternative 2**

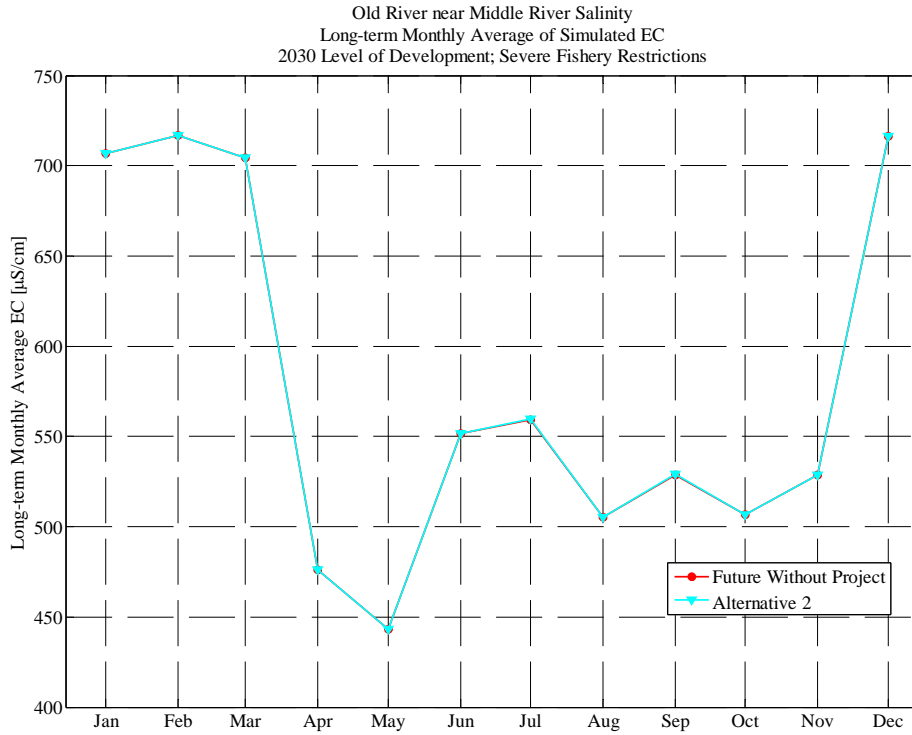
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	403	475	745	744	889	1,003	587	563	682	648	571	590
1977	595	630	794	836	994	1,010	658	610	710	654	634	674
1978	661	683	827	744	736	676	376	304	422	516	446	461
1979	530	514	731	648	360	332	369	291	417	574	454	548
1980	505	535	754	425	342	398	343	343	364	439	420	498
1981	453	494	716	732	878	861	470	427	649	599	560	586
1982	553	584	772	711	292	314	221	199	350	395	313	260
1983	207	275	378	346	324	258	293	257	235	220	172	245
1984	331	209	303	333	229	361	351	346	499	556	462	477
1985	427	483	761	746	806	867	499	479	638	629	544	552
1986	548	561	752	787	456	313	235	215	372	559	447	454
1987	425	443	702	743	944	897	574	551	688	622	579	603
1988	588	609	792	829	994	1,010	650	624	707	654	648	640
1989	637	664	805	880	1,052	1,006	648	616	672	602	581	581
1990	613	632	810	889	996	1,006	680	631	710	641	619	633
1991	630	665	822	920	1,176	954	665	635	708	645	631	664
<b>Avg</b>	507	529	717	707	717	704	476	443	551	560	505	529
<b>W/AN/BN</b>	477	480	645	570	391	379	313	279	380	465	388	420
<b>D/C</b>	530	566	772	813	970	957	604	571	685	633	596	614

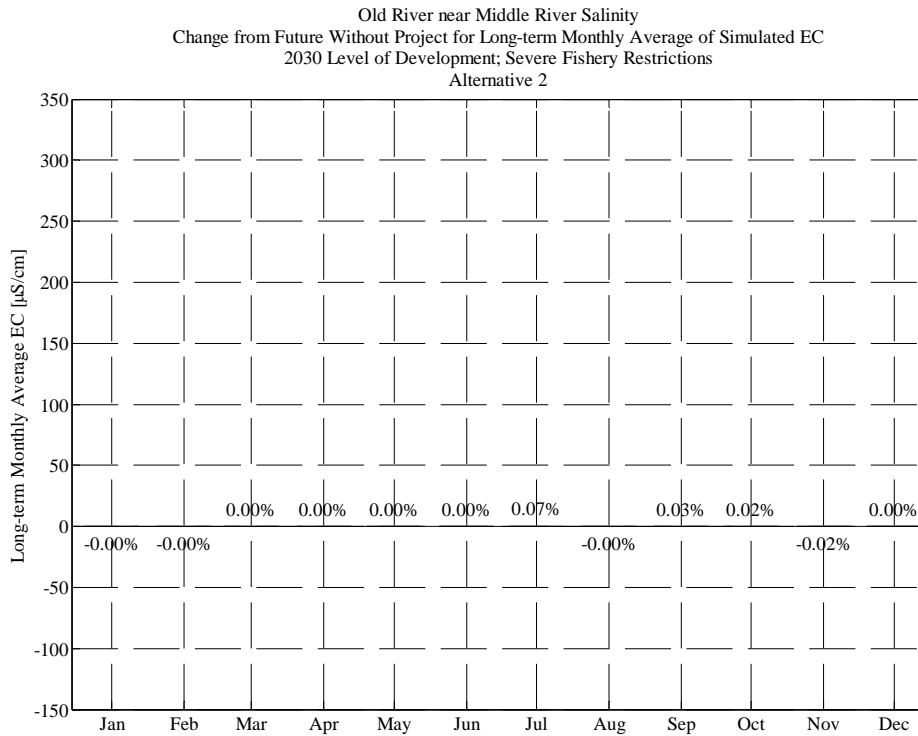
**Percent (%) Change from Future Without Project for Old River near Middle River Salinity  
(Alternative 2 - Future Without Project) / Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

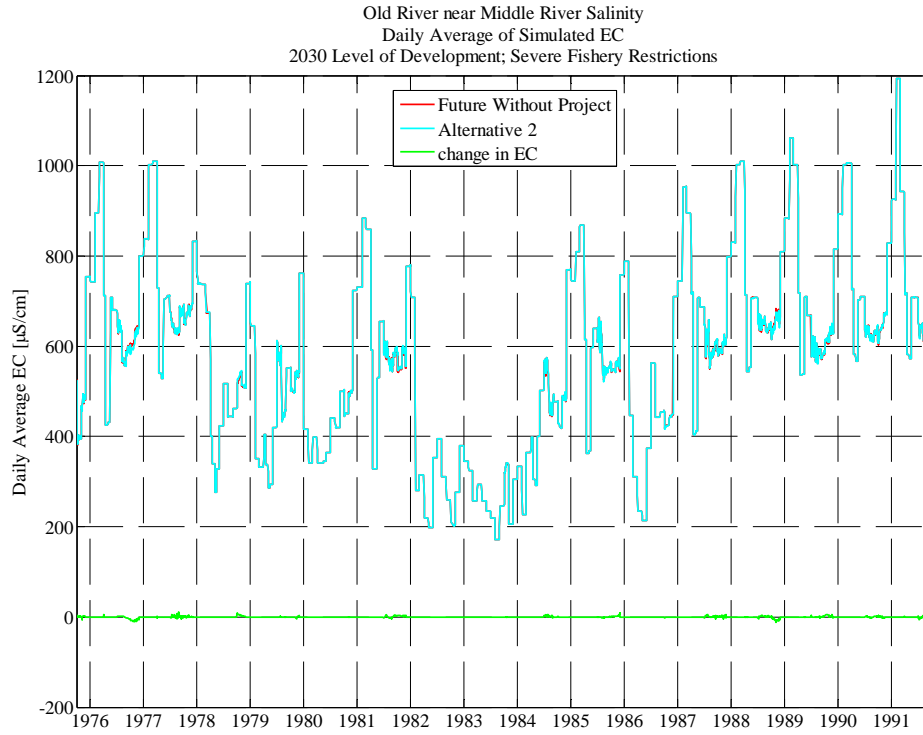
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	-0.4%
1977	-1.3%	-1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.9%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	-0.2%	0.4%
1982	0.5%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.2%	0.0%
1985	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%
1986	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.1%
1988	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%
1989	-0.6%	-1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1990	0.7%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.1%
1991	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.1%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
<b>W/AN/BN</b>	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
<b>D/C</b>	-0.2%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%



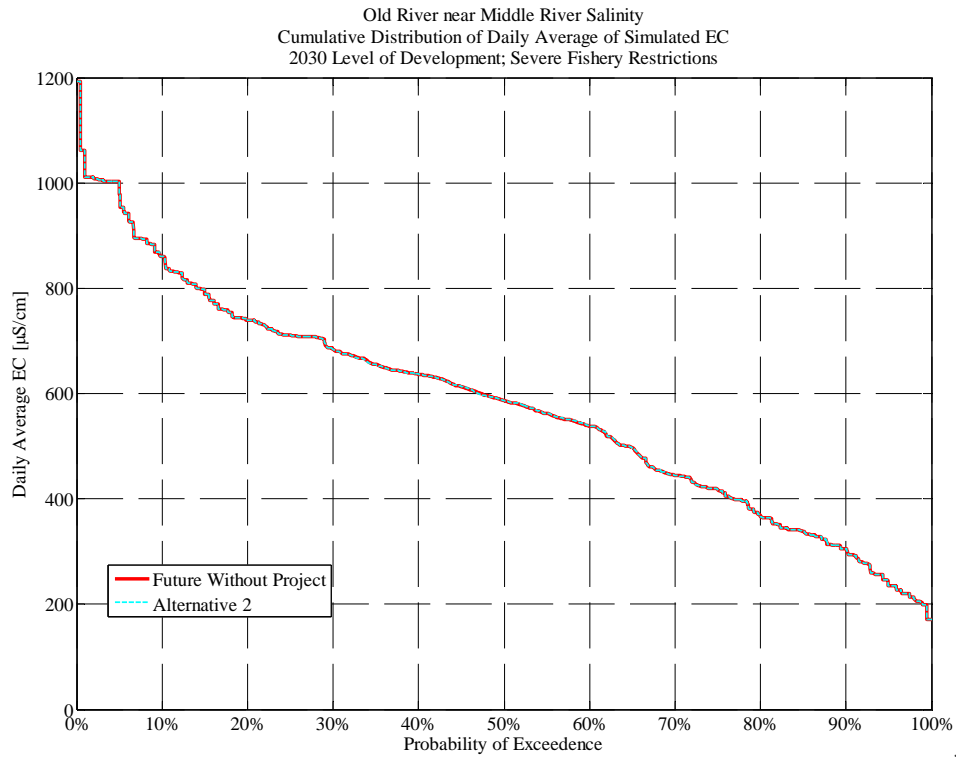
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 3**

**Old River near Middle River Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )**

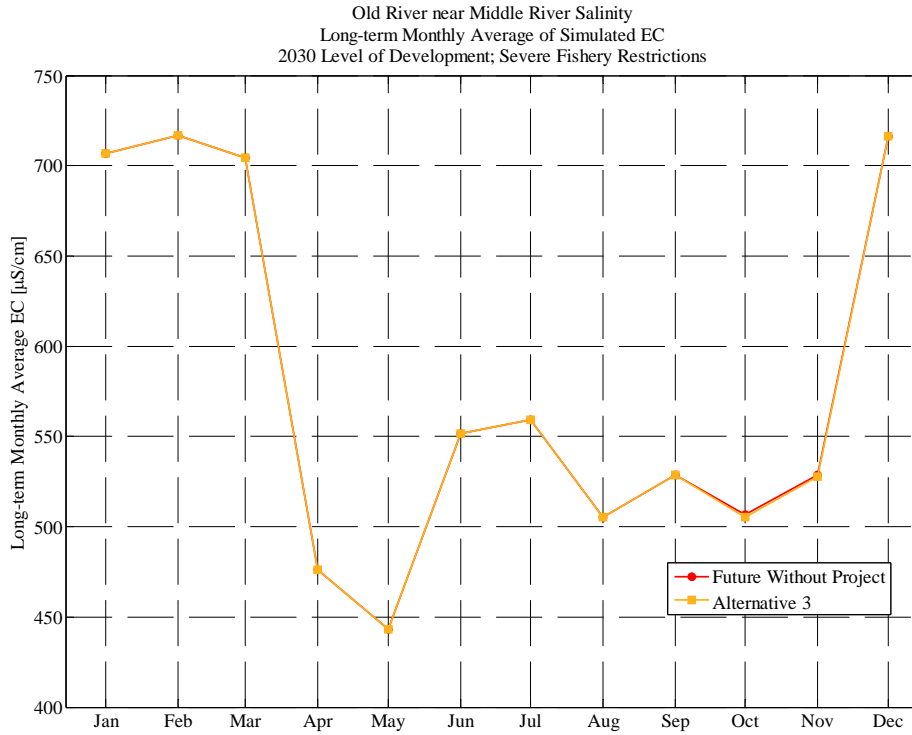
**Alternative 3****2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	403	474	745	744	889	1,003	587	563	682	646	568	587
1977	592	628	794	836	994	1,010	658	611	710	659	638	673
1978	659	685	827	744	736	677	376	304	422	516	446	461
1979	531	514	731	648	360	332	369	291	417	573	454	548
1980	505	536	754	425	342	398	343	343	364	439	420	498
1981	454	495	716	732	878	861	470	427	649	597	560	584
1982	550	581	772	711	292	313	221	199	350	395	313	260
1983	207	275	378	346	324	258	293	257	235	220	172	245
1984	331	209	303	333	229	361	351	346	499	553	461	477
1985	427	483	761	746	806	867	499	479	638	628	545	551
1986	546	559	752	787	456	313	235	215	372	559	447	454
1987	425	443	702	743	944	897	574	551	688	620	580	601
1988	587	606	792	829	994	1,010	650	624	707	653	646	639
1989	635	662	805	880	1,053	1,006	648	616	671	605	585	582
1990	608	625	810	889	996	1,006	680	631	710	641	621	632
1991	629	665	822	920	1,176	954	665	635	708	646	631	664
<b>Avg</b>	506	528	717	707	717	704	476	443	551	559	505	528
<b>W/AN/BN</b>	476	480	645	570	391	379	313	279	380	465	388	420
<b>D/C</b>	529	565	772	813	970	957	604	571	685	633	597	613

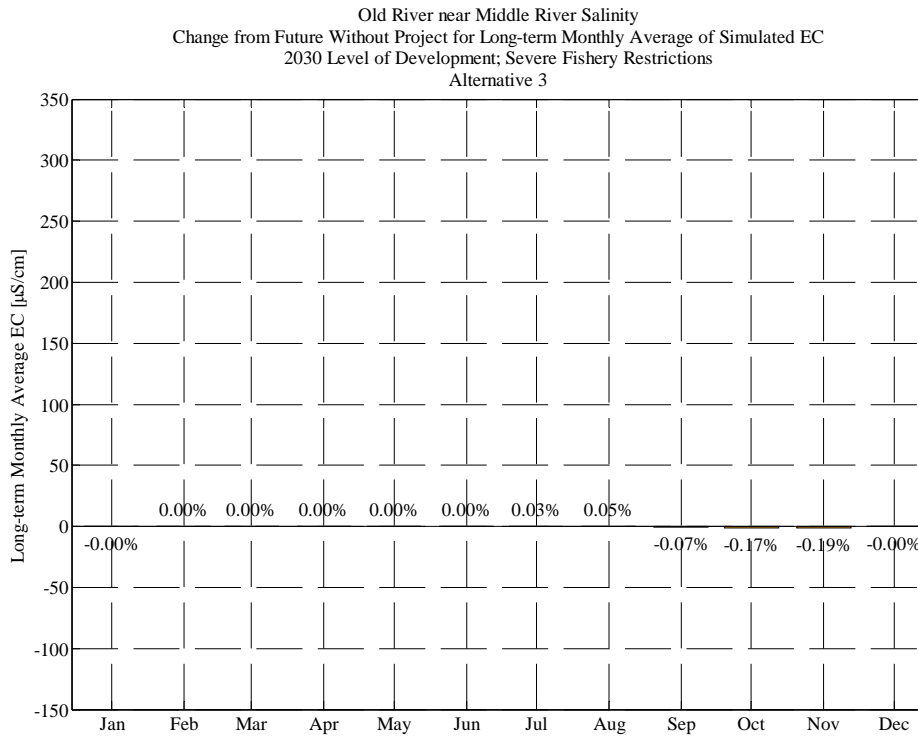
**Percent (%) Change from Future Without Project for Old River near Middle River Salinity  
(Alternative 3 - Future Without Project) / Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

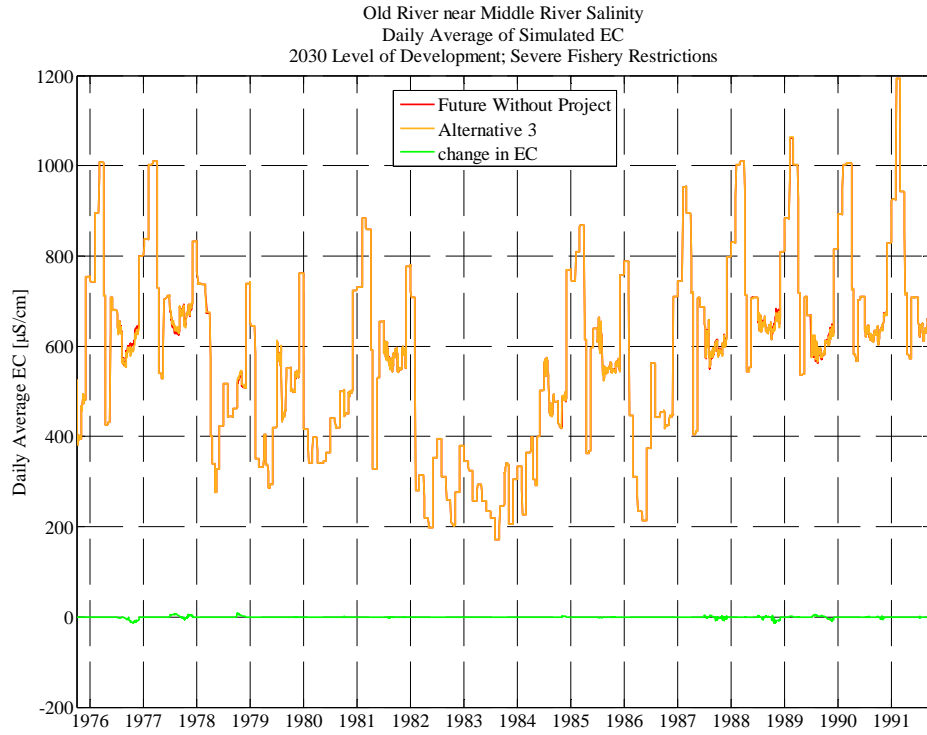
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	-0.3%	-0.9%
1977	-1.9%	-1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.8%	-0.1%
1978	-0.4%	0.4%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	1.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%
1980	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.2%	-0.1%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	-0.2%
1986	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	-0.2%
1988	-0.2%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%
1989	-0.9%	-1.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.4%	0.5%	0.3%
1990	-0.2%	-0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
1991	-0.2%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
<b>Avg</b>	-0.2%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%
<b>W/AN/BN</b>	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	-0.4%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	-0.1%



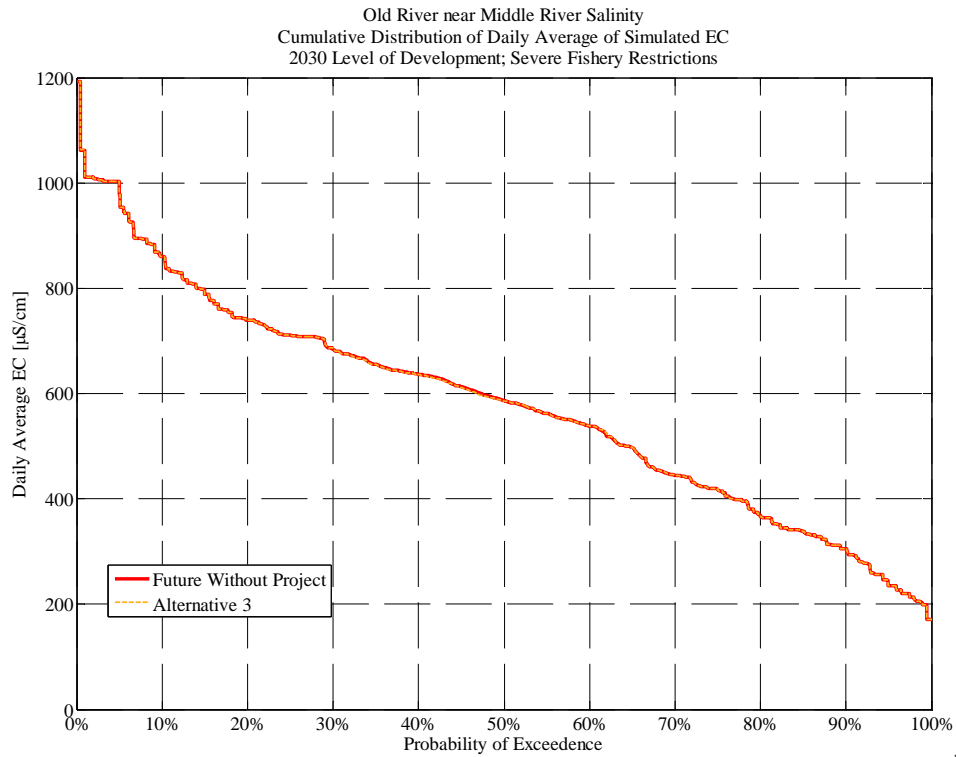
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 4**

**Old River near Middle River Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 4**

**2030 Level of Development; Severe Fishery Restrictions**

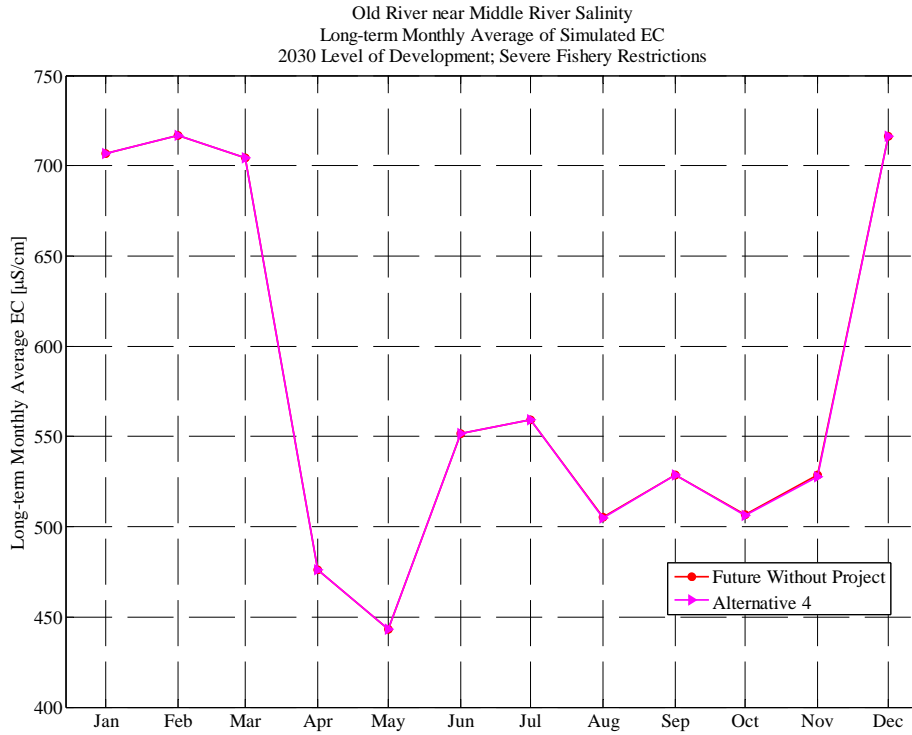
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	403	474	745	744	889	1,003	587	563	682	647	569	589
1977	594	629	794	836	994	1,010	658	611	710	654	633	674
1978	661	683	827	744	736	676	376	304	422	516	446	461
1979	525	513	731	648	360	332	369	291	417	574	455	548
1980	506	534	754	425	342	398	343	343	364	439	420	498
1981	454	495	716	732	878	861	470	427	649	598	561	584
1982	551	581	772	711	292	314	221	199	350	395	313	260
1983	207	275	378	346	324	258	293	257	235	220	172	245
1984	331	209	303	333	229	361	351	346	499	553	461	477
1985	427	482	761	746	806	867	499	479	638	629	546	552
1986	547	560	752	787	456	313	235	215	372	559	447	454
1987	426	444	702	743	944	897	574	551	688	620	578	603
1988	588	608	792	829	994	1,010	650	624	707	653	647	639
1989	634	662	805	880	1,052	1,006	648	616	671	602	582	580
1990	612	632	810	889	996	1,006	680	631	710	641	619	632
1991	630	666	822	920	1,176	954	665	635	708	646	631	664
<b>Avg</b>	506	528	717	707	717	704	476	443	551	559	505	529
<b>W/AN/BN</b>	476	479	645	570	391	379	313	279	380	465	388	420
<b>D/C</b>	530	566	772	813	970	957	604	571	685	632	596	613

**Percent (%) Change from Future Without Project for Old River near Middle River Salinity  
(Alternative 4 - Future Without Project) / Future Without Project**

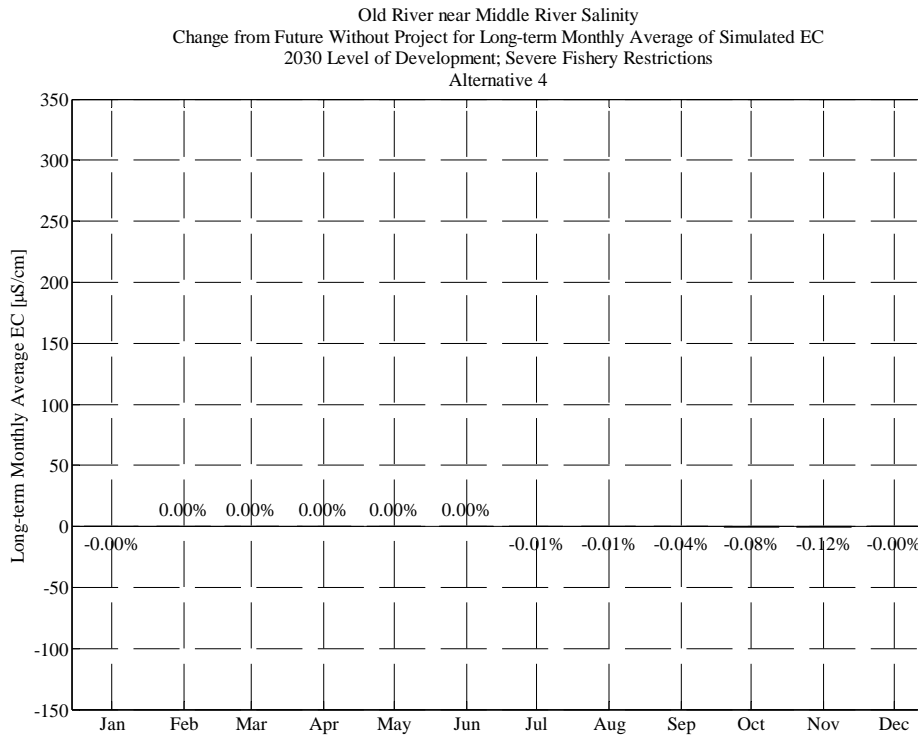
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.6%
1977	-1.5%	-1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.2%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%
1989	-1.1%	-1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	-0.1%
1990	0.4%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.1%
1991	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	-0.2%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%

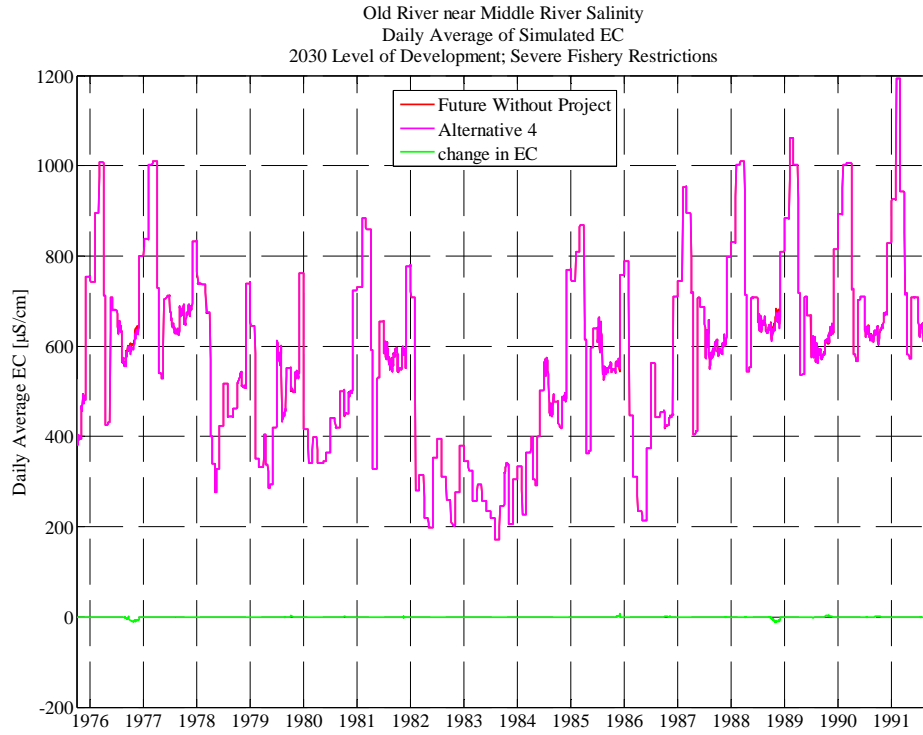




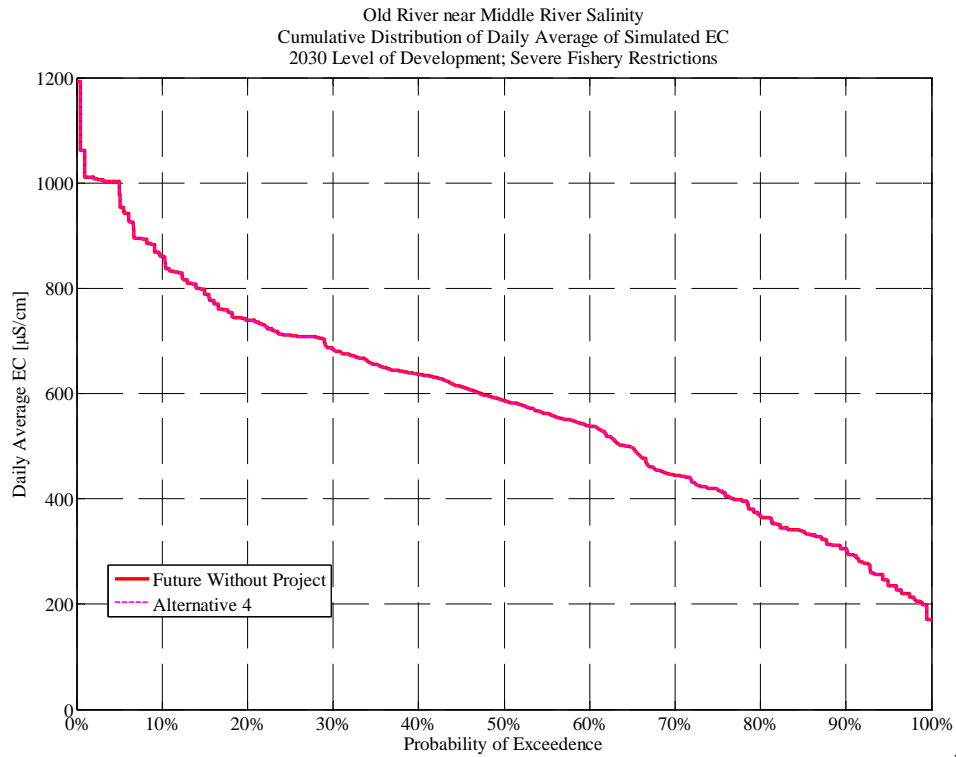
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04-Nov-2008 DS



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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

## San Joaquin River at Brandt Bridge

### *Future Without Project*

#### San Joaquin River at Brandt Bridge Salinity Monthly Average of Simulated Values (EC, $\mu\text{S/cm}$ )

#### Future Without Project

#### 2030 Level of Development; Severe Fishery Restrictions

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	416	516	742	743	886	1,001	597	556	685	679	598	639
1977	628	668	789	835	989	1,010	681	607	715	691	690	733
1978	711	728	825	744	735	675	376	303	421	515	447	460
1979	554	524	730	646	360	331	368	291	416	608	475	547
1980	498	562	750	425	341	397	342	342	364	438	420	497
1981	450	506	713	731	875	860	474	426	646	632	597	621
1982	563	632	770	709	292	312	221	199	350	394	313	260
1983	198	275	378	345	324	257	292	257	235	219	172	244
1984	341	210	303	332	228	360	350	345	497	596	499	477
1985	417	502	757	745	804	866	505	477	637	673	576	583
1986	557	588	747	787	455	313	235	214	371	558	448	454
1987	423	446	699	741	939	898	583	542	690	674	628	646
1988	619	656	786	827	989	1,009	661	620	709	662	667	686
1989	701	694	802	876	1,048	1,007	661	609	680	654	637	612
1990	654	685	806	888	994	1,006	710	628	713	680	649	685
1991	665	680	817	916	1,169	959	677	632	711	691	671	713
<b>Avg</b>	525	554	713	706	714	704	483	441	552	585	530	553
<b>W/AN/BN</b>	489	503	643	570	391	378	312	279	379	476	396	420
<b>D/C</b>	553	595	768	811	966	957	617	566	687	671	635	657

**Alternative 1**

**San Joaquin River at Brandt Bridge Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 1**

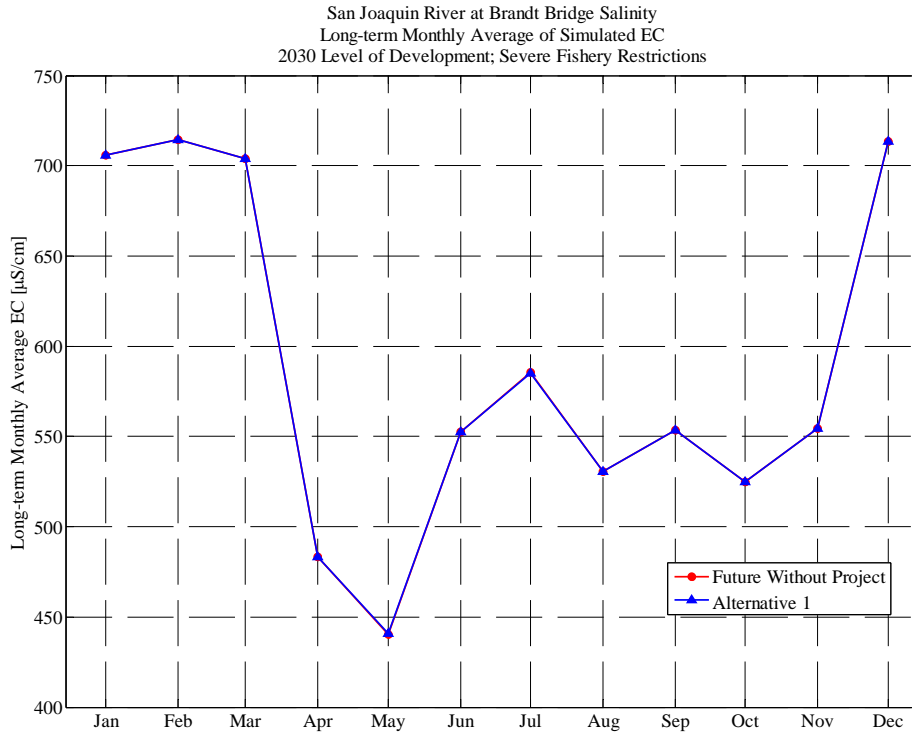
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	416	516	742	743	886	1,001	596	556	685	679	598	639
1977	628	668	789	835	989	1,010	680	607	715	691	690	733
1978	711	728	825	744	735	676	376	303	421	515	447	460
1979	554	524	730	646	360	331	368	291	416	608	475	547
1980	498	562	750	425	341	397	342	343	364	438	420	497
1981	450	506	713	731	875	860	474	426	646	632	597	621
1982	563	632	770	709	292	312	221	199	350	394	313	260
1983	198	275	378	345	324	257	292	257	235	219	172	244
1984	341	210	303	332	228	360	350	345	497	596	499	477
1985	417	502	757	745	804	866	505	477	637	673	576	583
1986	557	588	747	787	455	313	235	214	371	558	448	454
1987	423	446	699	741	939	898	583	542	691	674	628	646
1988	619	656	786	827	989	1,009	661	620	709	663	668	686
1989	701	694	802	876	1,048	1,007	661	609	680	654	638	612
1990	654	685	806	888	994	1,006	709	628	713	677	649	685
1991	665	680	817	916	1,169	959	677	632	711	690	670	713
<b>Avg</b>	525	554	713	706	714	704	483	441	552	585	530	553
<b>W/AN/BN</b>	489	503	643	570	391	378	312	279	379	476	396	420
<b>D/C</b>	553	595	768	811	966	957	616	566	687	670	635	657

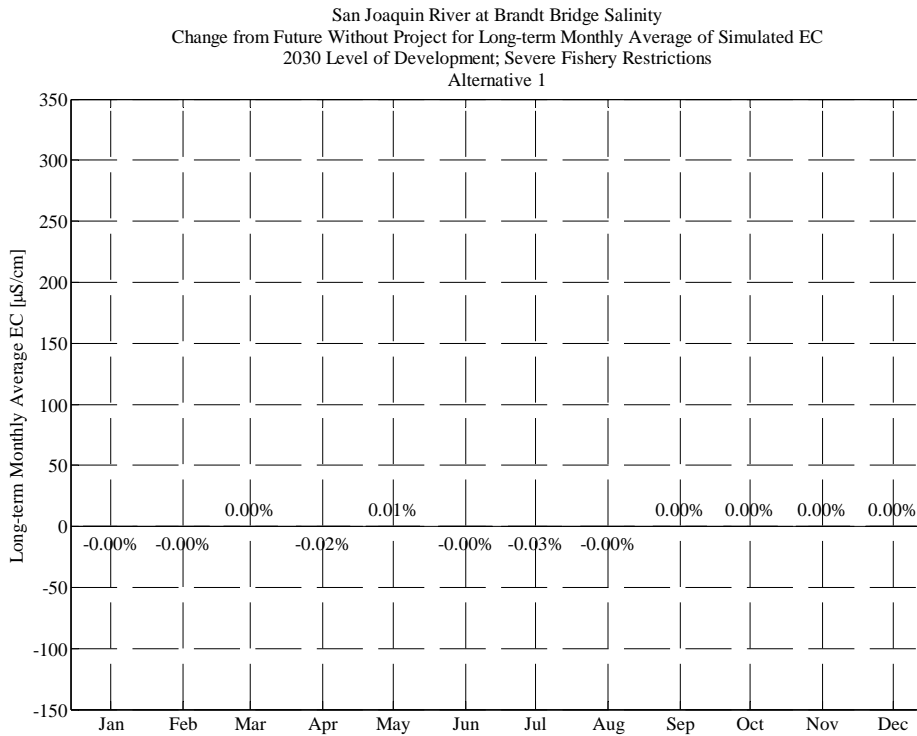
**Percent (%) Change from Future Without Project for San Joaquin River at Brandt Bridge  
(Alternative 1 - Future Without Project) / Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

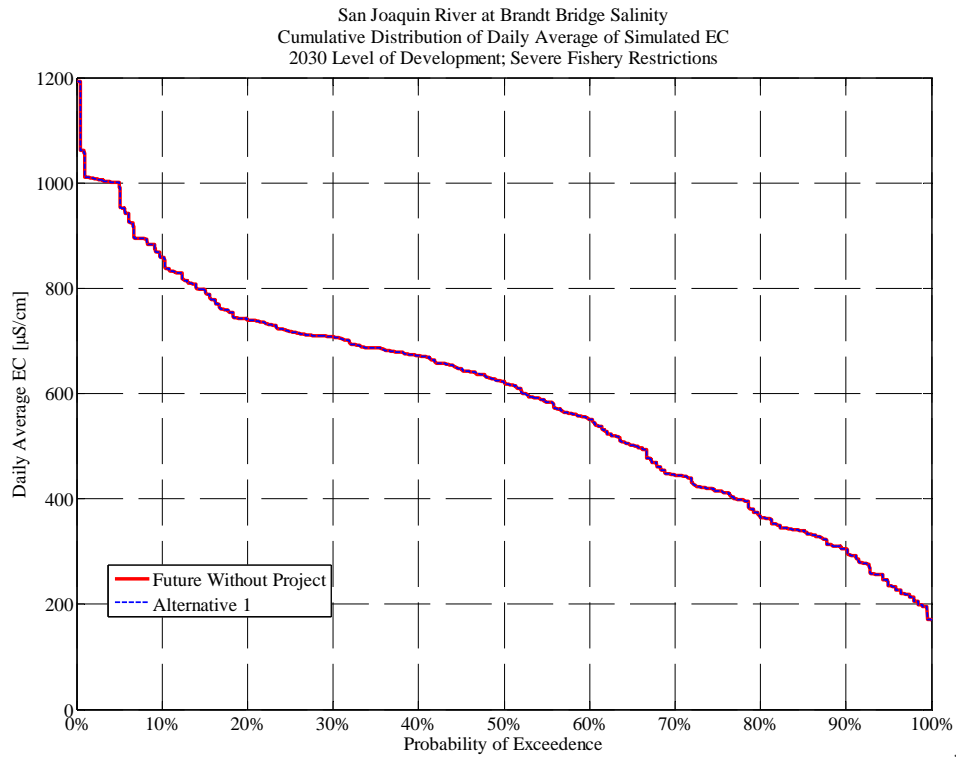
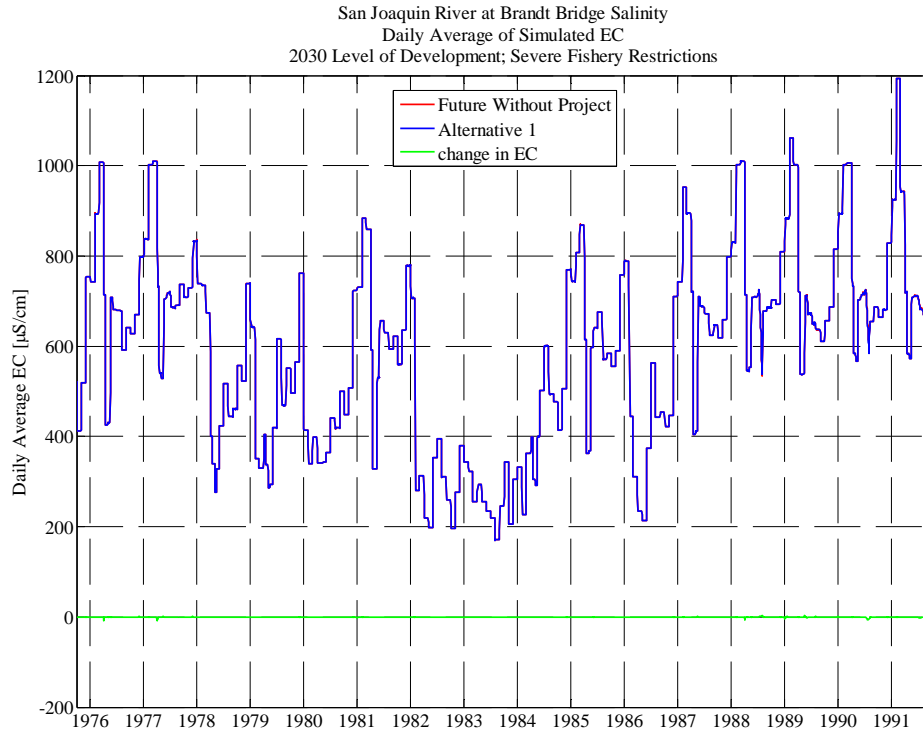
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.1%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.5%	-0.1%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



**Alternative 2**

**San Joaquin River at Brandt Bridge Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )  
Alternative 2**

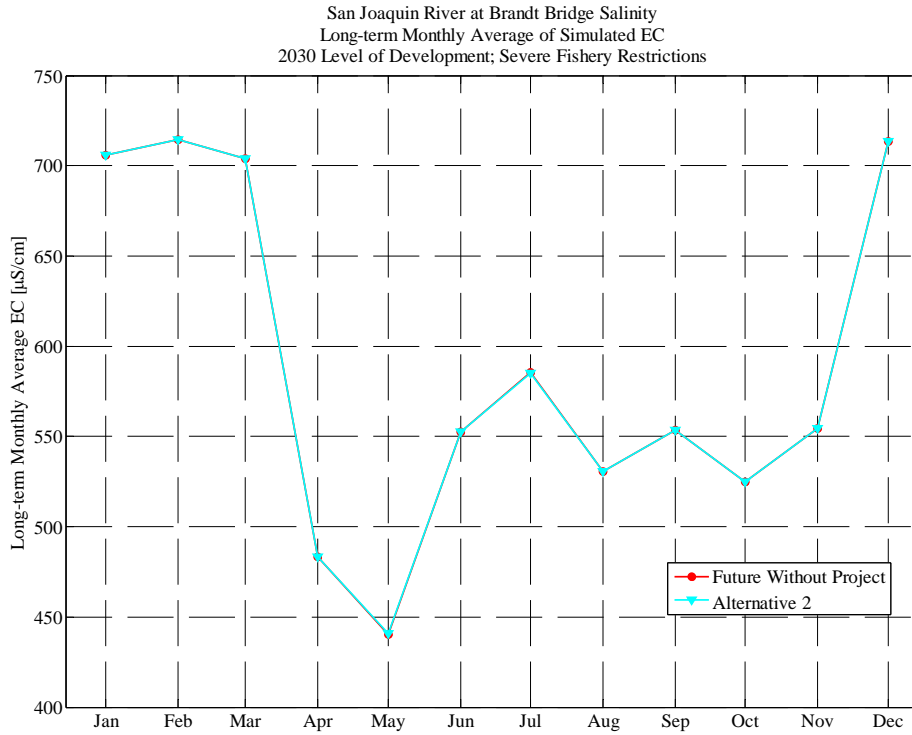
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	416	516	742	743	886	1,001	596	556	685	679	598	639
1977	628	668	789	835	989	1,010	680	607	715	691	690	733
1978	711	728	825	744	735	675	376	303	421	515	447	460
1979	554	524	730	646	360	331	368	291	416	608	475	547
1980	498	562	750	425	341	397	342	343	364	438	420	497
1981	450	506	713	731	875	860	474	426	646	632	597	621
1982	563	632	770	709	292	312	221	199	350	394	313	260
1983	198	275	378	345	324	257	292	257	235	219	172	244
1984	341	210	303	332	228	360	350	345	497	596	499	477
1985	417	502	757	745	804	866	505	477	637	673	576	583
1986	557	588	747	787	455	313	235	214	371	558	448	454
1987	423	446	699	741	939	898	583	542	691	674	628	646
1988	619	656	786	827	989	1,009	661	620	709	664	668	686
1989	701	694	802	876	1,048	1,007	661	609	680	654	638	612
1990	654	685	806	888	994	1,006	709	628	713	677	649	685
1991	665	680	817	916	1,169	959	677	632	711	690	670	713
<b>Avg</b>	525	554	713	706	714	704	483	441	552	585	530	553
<b>W/AN/BN</b>	489	503	643	570	391	378	312	279	379	476	396	420
<b>D/C</b>	553	595	768	811	966	957	616	566	687	670	635	657

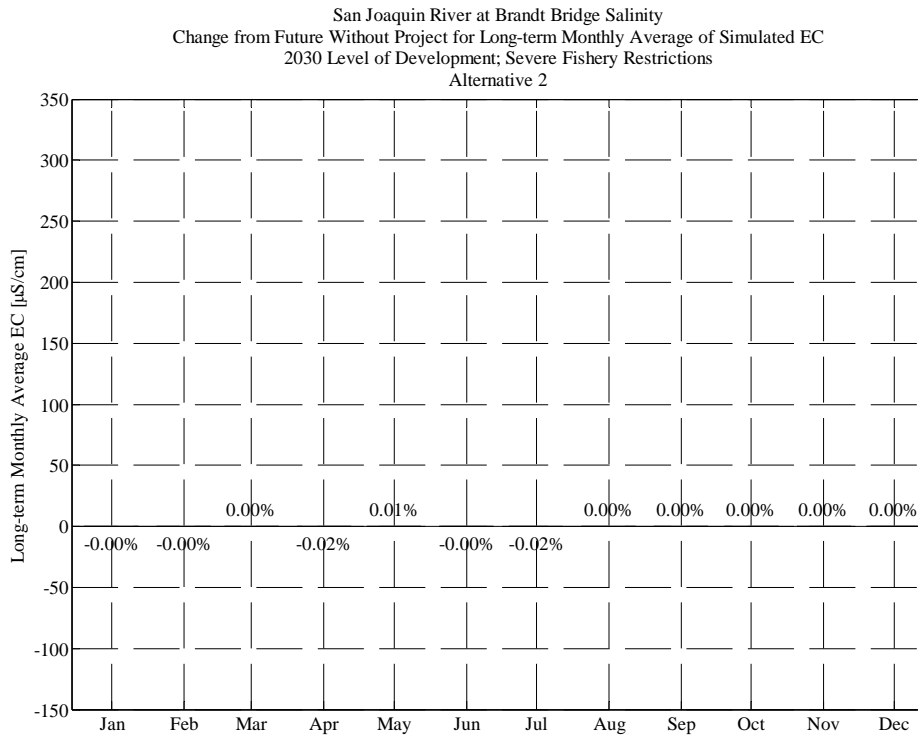
**Percent (%) Change from Future Without Project for San Joaquin River at Brandt Bridge  
(Alternative 2 - Future Without Project) / Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.3%	0.1%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.4%	-0.1%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

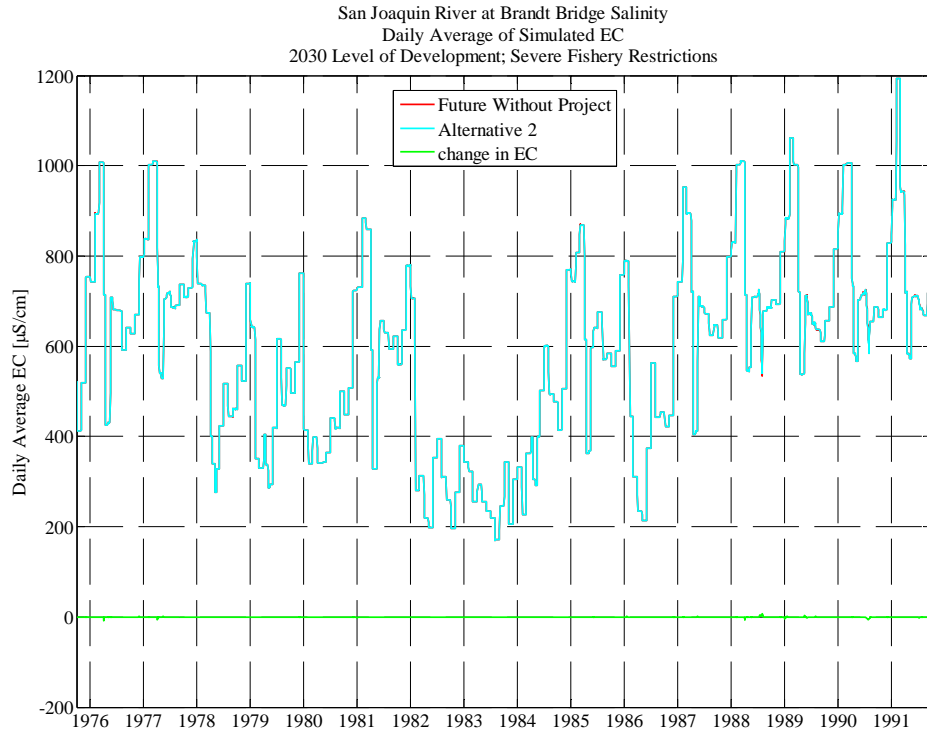


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04-Nov-2008 DS

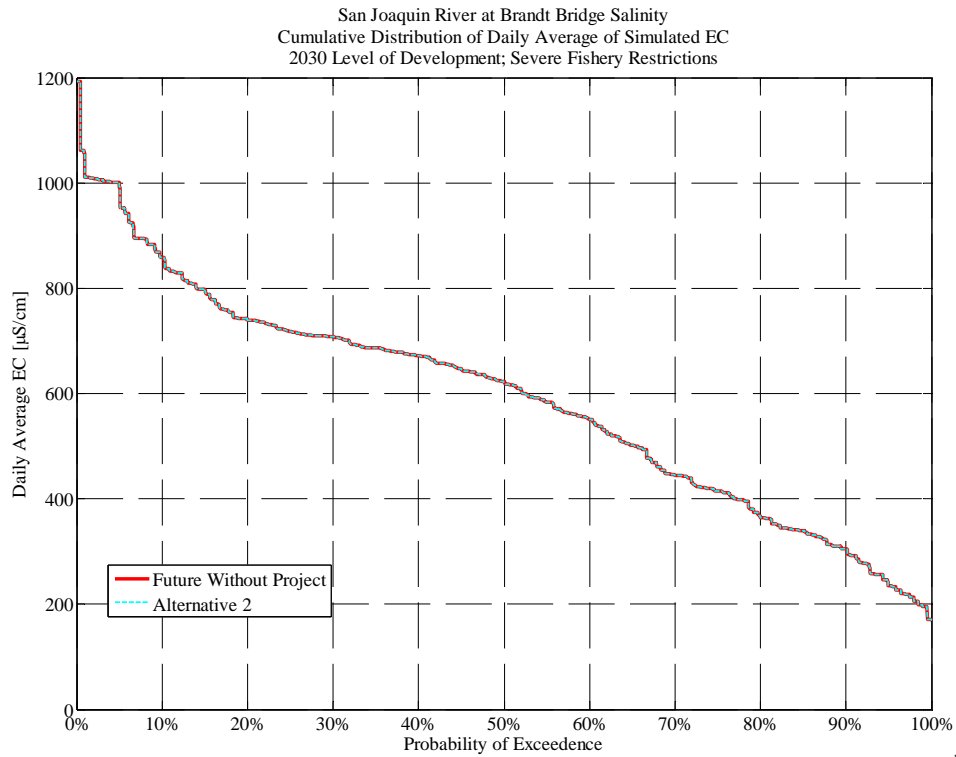


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04-Nov-2008 DS





p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 3**

**San Joaquin River at Brandt Bridge Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 3**

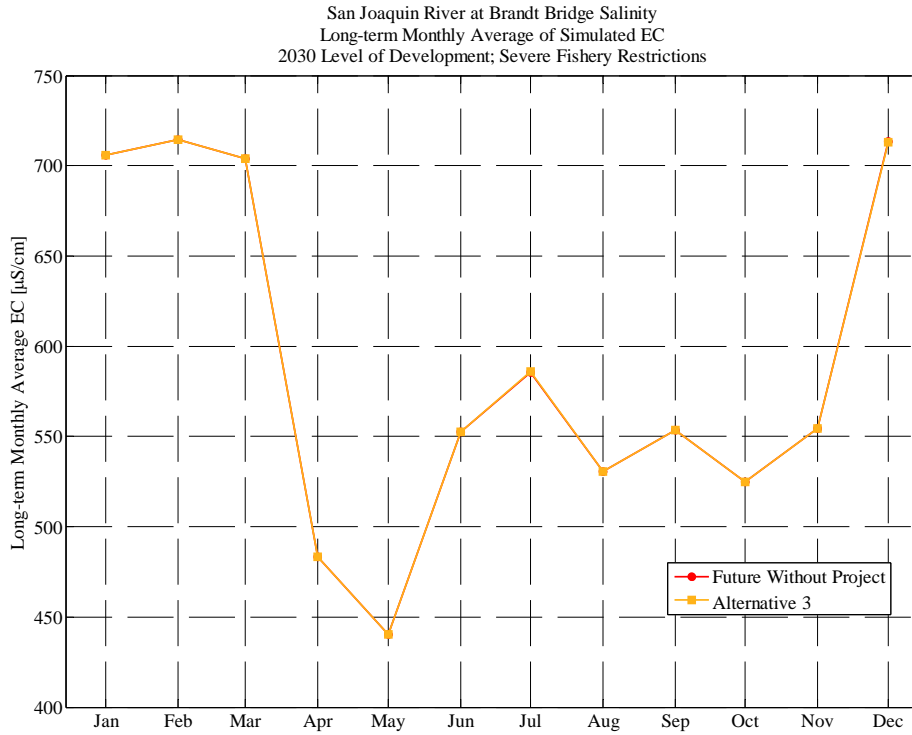
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	416	516	742	743	886	1,001	597	556	685	679	598	639
1977	628	668	789	835	989	1,010	681	607	715	691	690	733
1978	711	728	825	744	735	676	376	303	421	515	447	460
1979	554	524	730	646	360	331	368	291	416	608	475	547
1980	498	562	750	425	341	397	342	342	364	438	420	497
1981	450	506	713	731	875	860	474	426	646	632	597	621
1982	563	632	770	709	292	312	221	199	350	394	313	260
1983	198	275	378	345	324	257	292	257	235	219	172	244
1984	341	210	303	332	228	360	350	345	497	596	499	477
1985	417	502	757	745	804	866	505	477	637	673	576	583
1986	557	588	747	787	455	313	235	214	371	558	448	454
1987	423	446	699	741	939	898	583	542	690	674	628	646
1988	619	656	785	828	989	1,009	661	620	709	675	670	686
1989	701	694	802	876	1,049	1,007	661	609	681	654	637	612
1990	654	685	806	888	994	1,006	710	628	713	682	650	685
1991	665	680	817	916	1,169	959	677	632	711	691	671	713
<b>Avg</b>	525	554	713	706	714	704	483	441	552	586	531	553
<b>W/AN/BN</b>	489	503	643	570	391	378	312	279	379	476	396	420
<b>D/C</b>	553	595	768	811	966	957	616	566	687	672	635	657

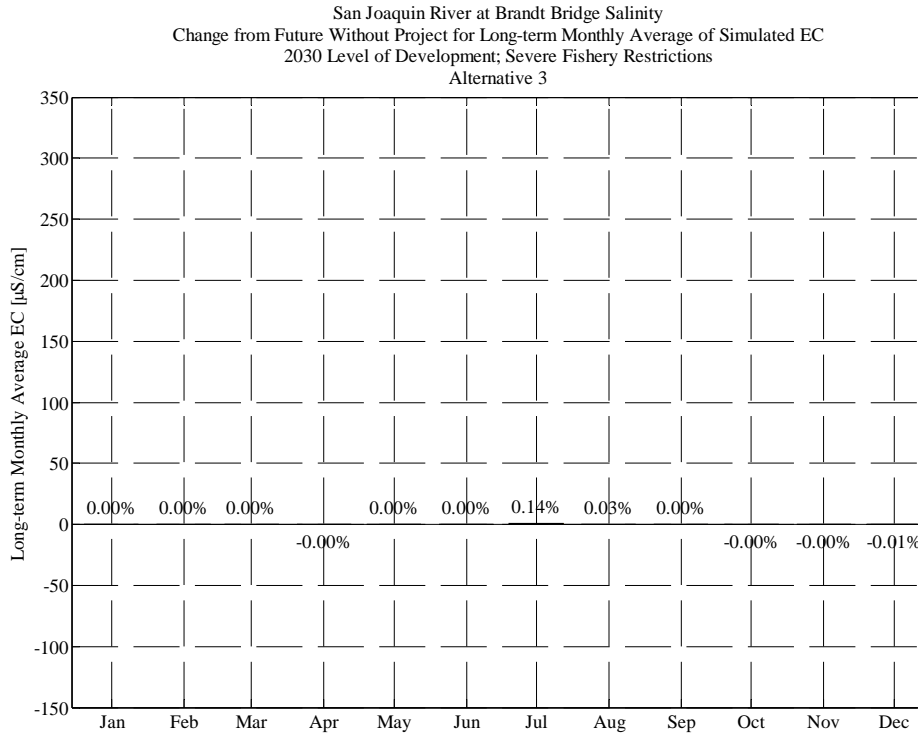
**Percent (%) Change from Future Without Project for San Joaquin River at Brandt Bridge  
(Alternative 3 - Future Without Project) / Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

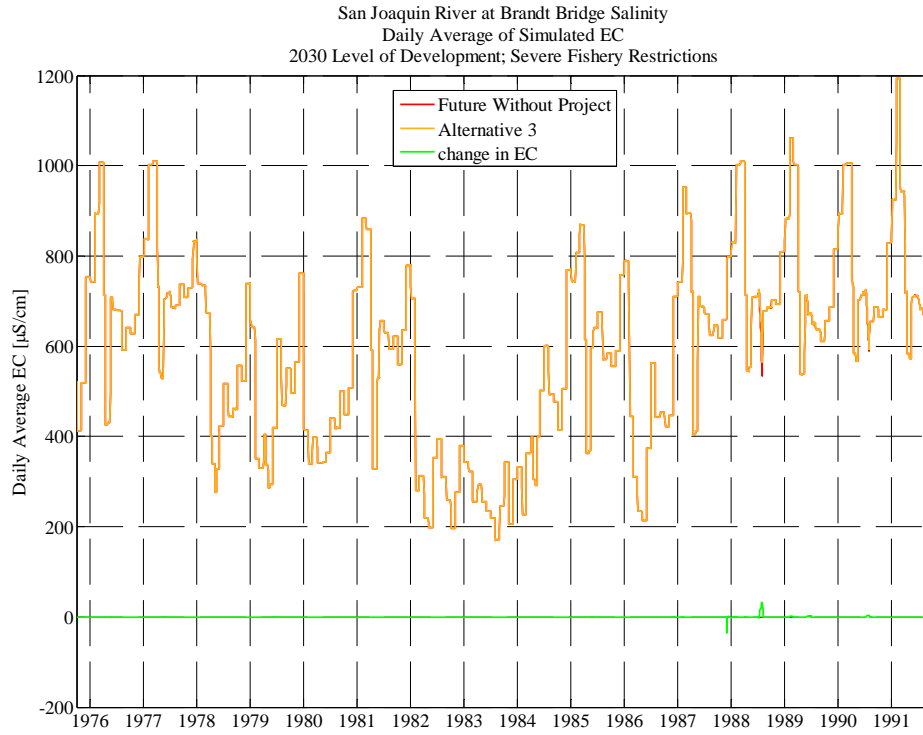
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.9%	0.5%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.1%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	0.0%



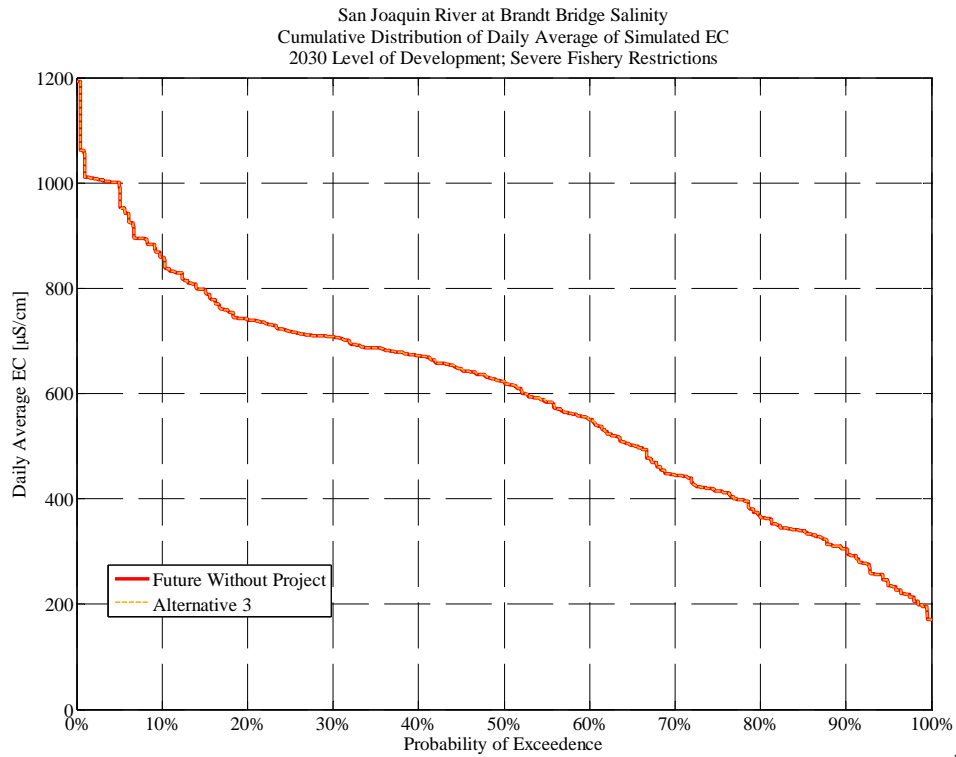
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04-Nov-2008 DS



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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



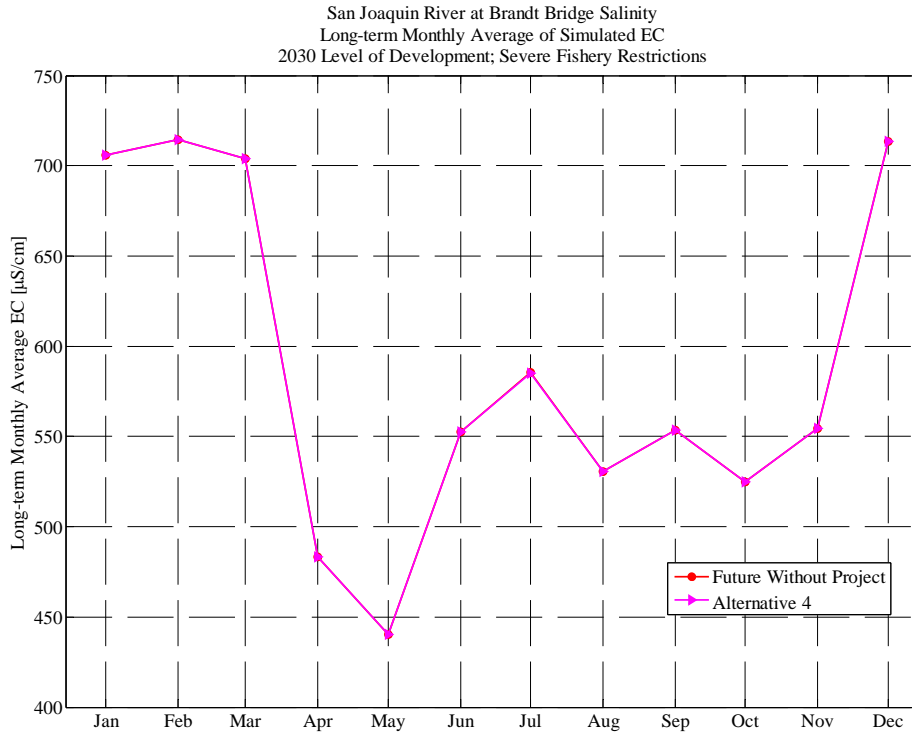
p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 4****San Joaquin River at Brandt Bridge Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 4****2030 Level of Development; Severe Fishery Restrictions**

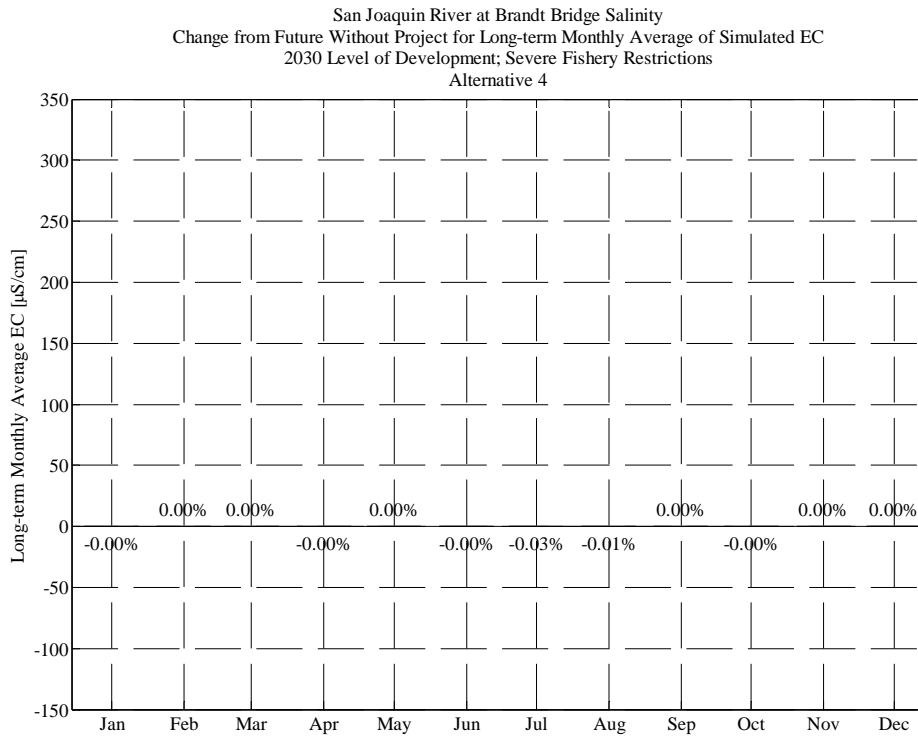
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	416	516	742	743	886	1,001	597	556	685	679	598	639
1977	628	668	789	835	989	1,010	681	607	715	691	690	733
1978	711	728	825	744	735	675	376	303	421	515	447	460
1979	554	524	730	646	360	331	368	291	416	608	475	547
1980	498	562	750	425	341	397	342	342	364	438	420	497
1981	450	506	713	731	875	860	474	426	646	632	597	621
1982	563	632	770	709	292	312	221	199	350	394	313	260
1983	198	275	378	345	324	257	292	257	235	219	172	244
1984	341	210	303	332	228	360	350	345	497	596	499	477
1985	417	502	757	745	804	866	505	477	637	673	576	583
1986	557	588	747	787	455	313	235	214	371	558	448	454
1987	423	446	699	741	939	898	583	542	690	674	628	646
1988	619	656	786	827	989	1,009	661	620	709	662	668	686
1989	701	694	802	876	1,048	1,007	661	609	680	654	637	612
1990	654	685	806	888	994	1,006	710	628	713	676	648	685
1991	665	680	817	916	1,169	959	677	632	711	691	671	713
<b>Avg</b>	525	554	713	706	714	704	483	441	552	585	530	553
<b>W/AN/BN</b>	489	503	643	570	391	378	312	279	379	476	396	420
<b>D/C</b>	553	595	768	811	966	957	617	566	687	670	635	657

**Percent (%) Change from Future Without Project for San Joaquin River at Brandt Bridge  
(Alternative 4 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

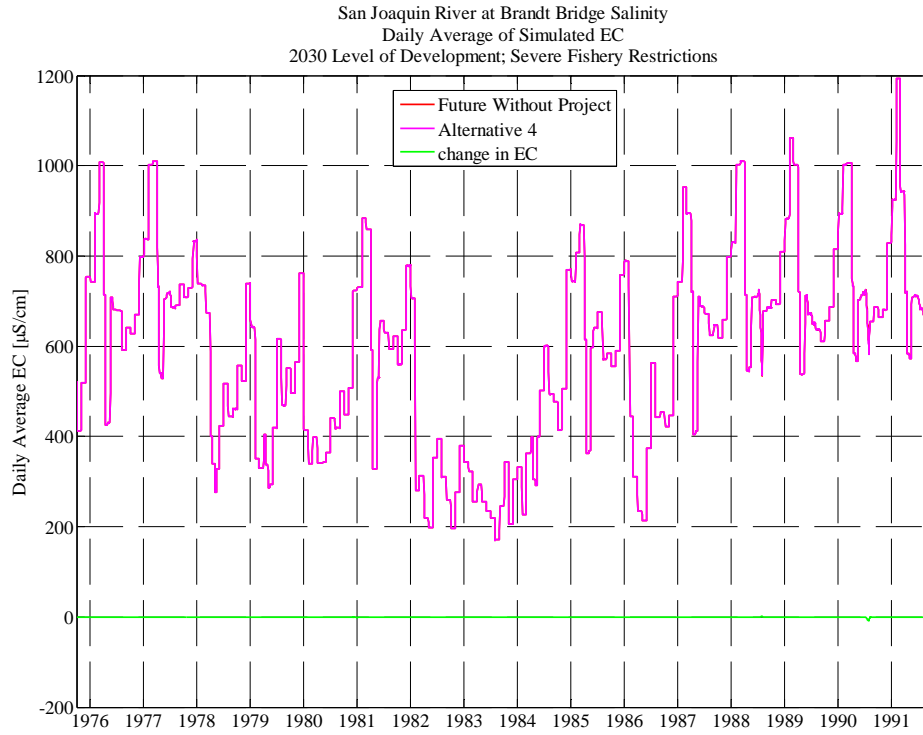
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.6%	-0.1%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%



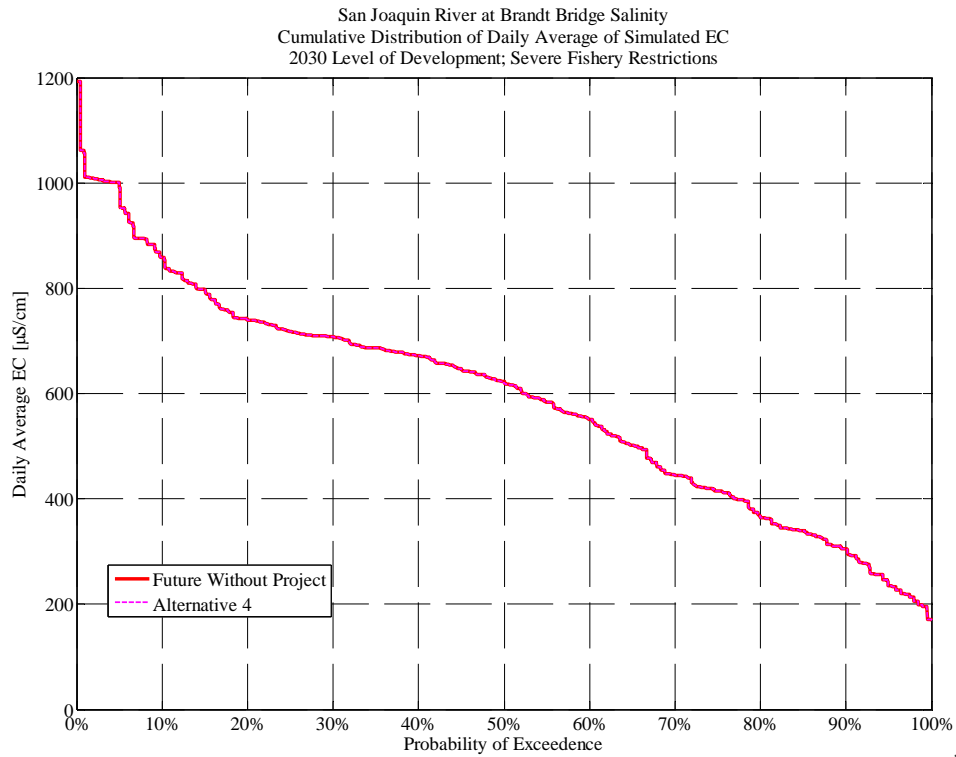
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

## San Joaquin River at Vernalis

### *Future Without Project*

**San Joaquin River at Vernalis Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	411	518	751	738	891	999	549	562	671	673	587	640
1977	626	669	797	832	999	1,000	604	613	698	674	687	735
1978	707	729	828	730	732	668	368	300	418	512	436	457
1979	555	521	737	637	349	329	365	285	405	608	462	546
1980	495	563	758	413	337	398	338	338	360	436	412	496
1981	446	507	721	726	881	857	445	423	644	622	587	619
1982	560	634	774	695	280	308	219	197	349	391	305	258
1983	196	273	379	337	321	252	292	255	232	217	167	244
1984	342	206	302	332	226	361	343	339	491	593	487	472
1985	414	502	765	741	806	866	471	475	628	671	564	581
1986	555	587	755	782	440	308	233	210	369	555	435	452
1987	419	445	709	739	949	888	536	552	677	665	618	644
1988	617	657	794	823	999	1,005	612	623	698	677	674	683
1989	700	693	807	878	1,060	1,001	605	612	652	625	630	609
1990	656	686	814	888	999	1,000	624	632	698	651	647	684
1991	661	679	827	920	1,191	941	629	631	698	668	662	714
<b>Avg</b>	523	554	720	701	716	699	452	441	543	577	523	552
<b>W/AN/BN</b>	487	502	648	561	384	375	308	275	375	473	386	418
<b>D/C</b>	550	595	776	809	975	951	564	569	674	658	628	657



**Alternative 1**

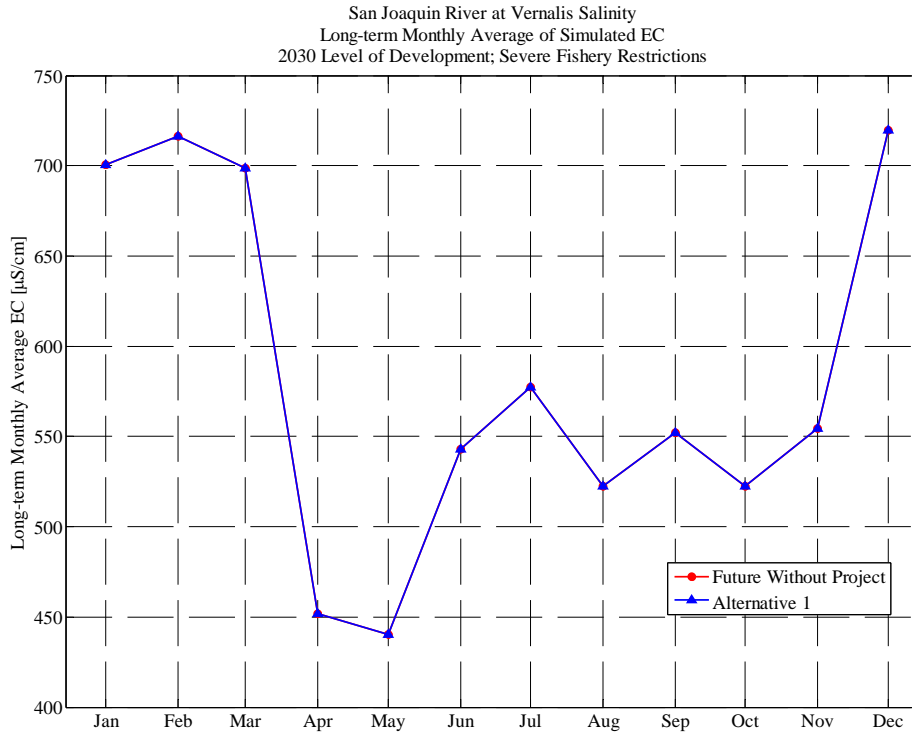
**San Joaquin River at Vernalis Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )**

**Alternative 1****2030 Level of Development; Severe Fishery Restrictions**

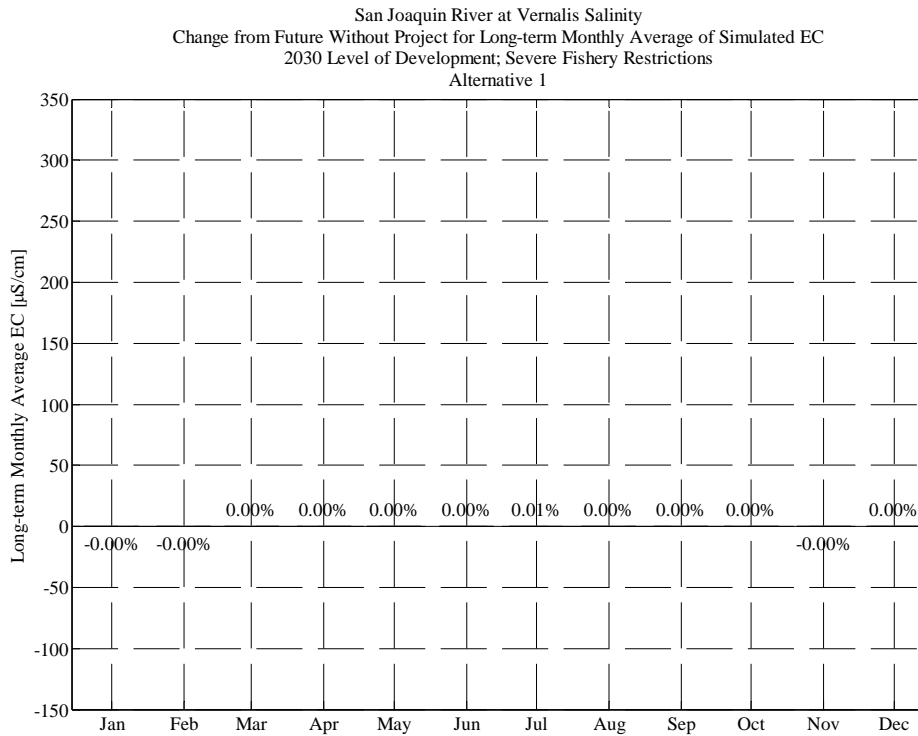
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	411	518	751	738	891	999	549	562	671	673	587	640
1977	626	669	797	832	999	1,000	604	613	698	674	687	735
1978	707	729	828	730	732	669	368	300	418	512	436	457
1979	555	521	737	637	349	329	365	285	405	608	462	546
1980	495	563	758	413	337	398	338	338	360	436	412	496
1981	446	507	721	726	881	857	445	423	644	622	587	619
1982	560	634	774	695	280	308	219	197	349	391	305	258
1983	196	273	379	337	321	252	292	255	232	217	167	244
1984	342	206	302	332	226	361	343	339	491	593	487	472
1985	414	502	765	741	806	866	471	475	628	671	564	581
1986	555	587	755	782	440	308	233	210	369	555	435	452
1987	419	445	709	739	949	888	536	552	677	665	618	644
1988	617	657	794	823	999	1,005	612	623	698	676	674	683
1989	700	693	807	878	1,059	1,001	605	612	652	626	630	609
1990	656	686	814	888	999	1,000	624	632	698	651	647	684
1991	661	679	827	920	1,191	941	629	631	698	668	662	714
<b>Avg</b>	523	554	720	701	716	699	452	441	543	577	523	552
<b>W/AN/BN</b>	487	502	648	561	384	375	308	275	375	473	386	418
<b>D/C</b>	550	595	776	809	975	951	564	569	674	659	629	657

**Percent (%) Change from Future Without Project for San Joaquin River at Vernalis Salinity****(Alternative 1 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

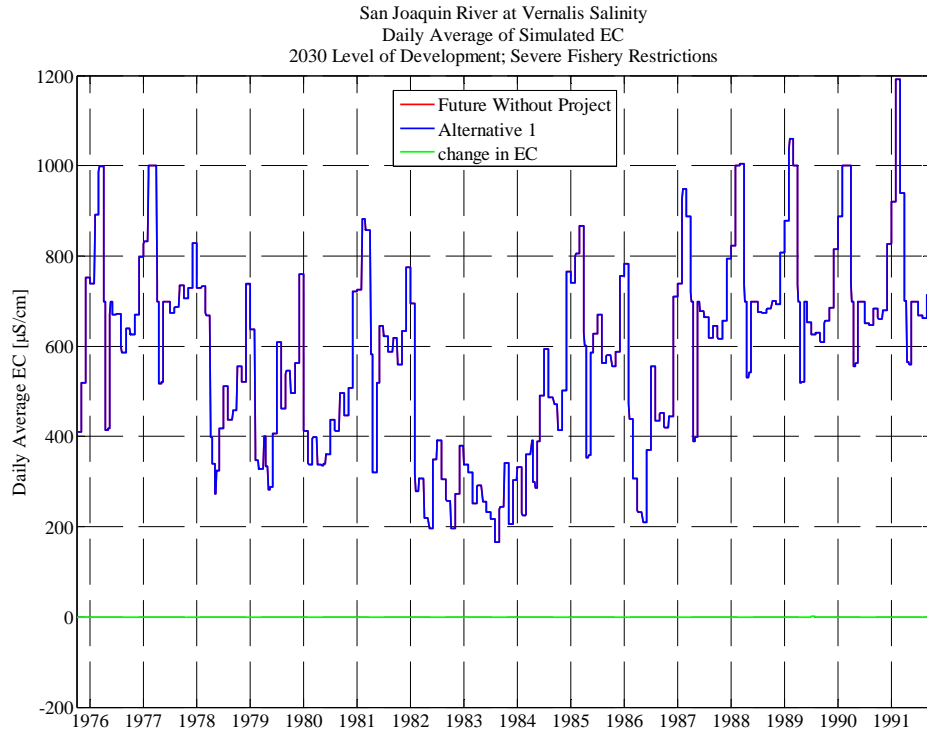
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



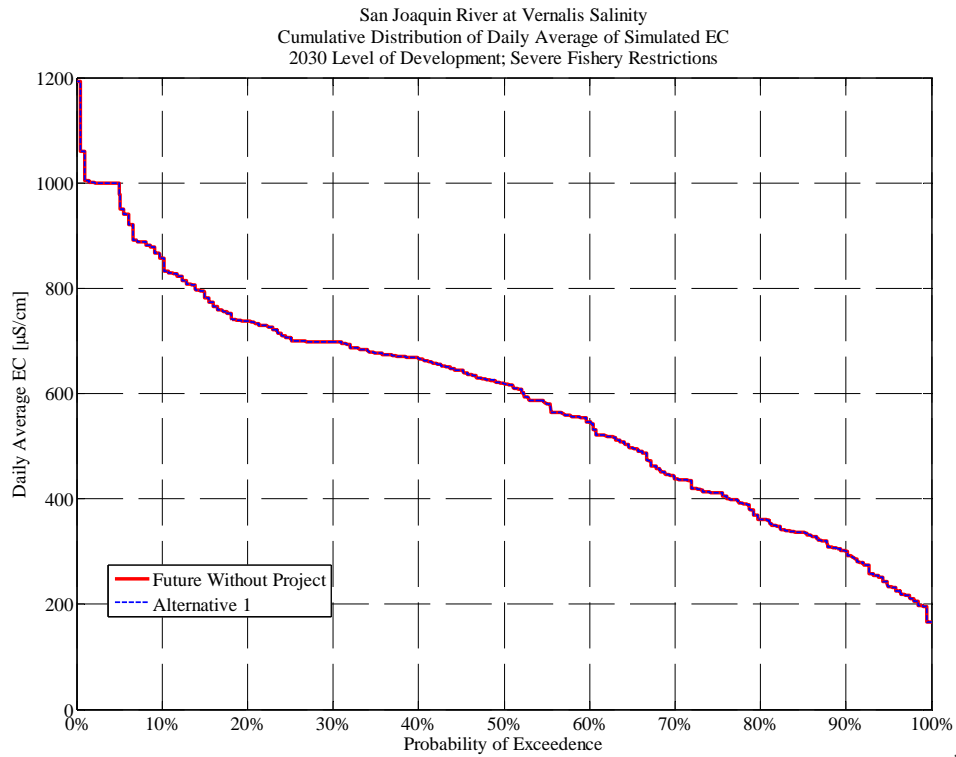
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04-Nov-2008 DS



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04-Nov-2008 DS



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04-Nov-2008 DS



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05-Nov-2008 DS

**Alternative 2**

**San Joaquin River at Vernalis Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 2**

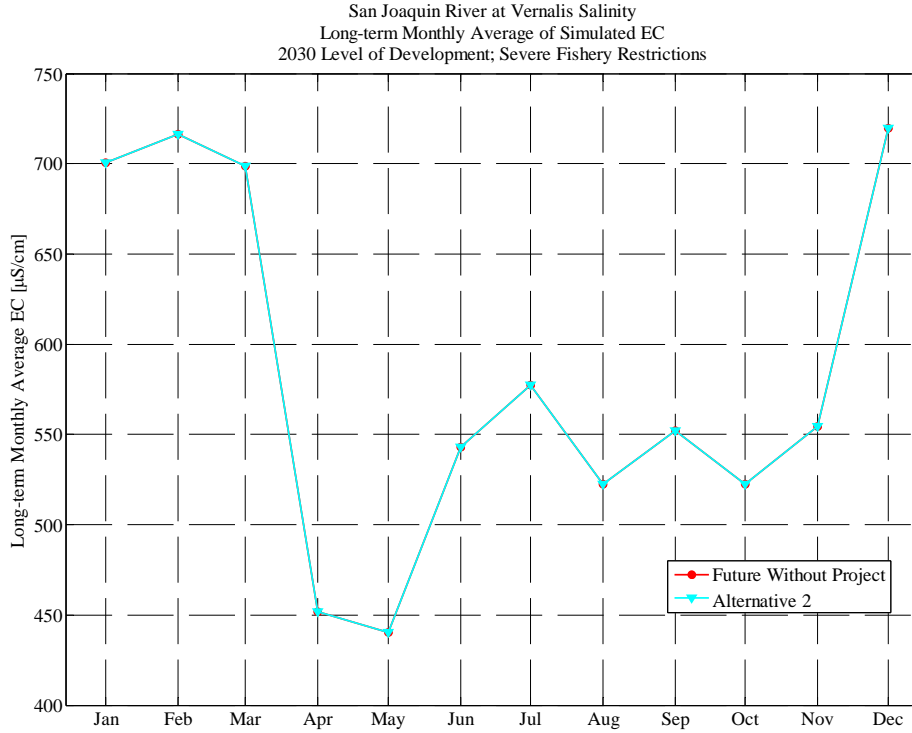
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	411	518	751	738	891	999	549	562	671	673	587	640
1977	626	669	797	832	999	1,000	604	613	698	674	687	735
1978	707	729	828	730	732	669	368	300	418	512	436	457
1979	555	521	737	637	349	329	365	285	405	608	462	546
1980	495	563	758	413	337	398	338	338	360	436	412	496
1981	446	507	721	726	881	857	445	423	644	622	587	619
1982	560	634	774	695	280	308	219	197	349	391	305	258
1983	196	273	379	337	321	252	292	255	232	217	167	244
1984	342	206	302	332	226	361	343	339	491	593	487	472
1985	414	502	765	741	806	866	471	475	628	671	564	581
1986	555	587	755	782	440	308	233	210	369	555	435	452
1987	419	445	709	739	949	888	536	552	677	665	618	644
1988	617	657	794	823	999	1,005	612	623	698	676	674	683
1989	700	693	807	878	1,059	1,001	605	612	652	626	630	609
1990	656	686	814	888	999	1,000	624	632	698	651	647	684
1991	661	679	827	920	1,191	941	629	631	698	668	662	714
<b>Avg</b>	523	554	720	701	716	699	452	441	543	577	523	552
<b>W/AN/BN</b>	487	502	648	561	384	375	308	275	375	473	386	418
<b>D/C</b>	550	595	776	809	975	951	564	569	674	659	629	657

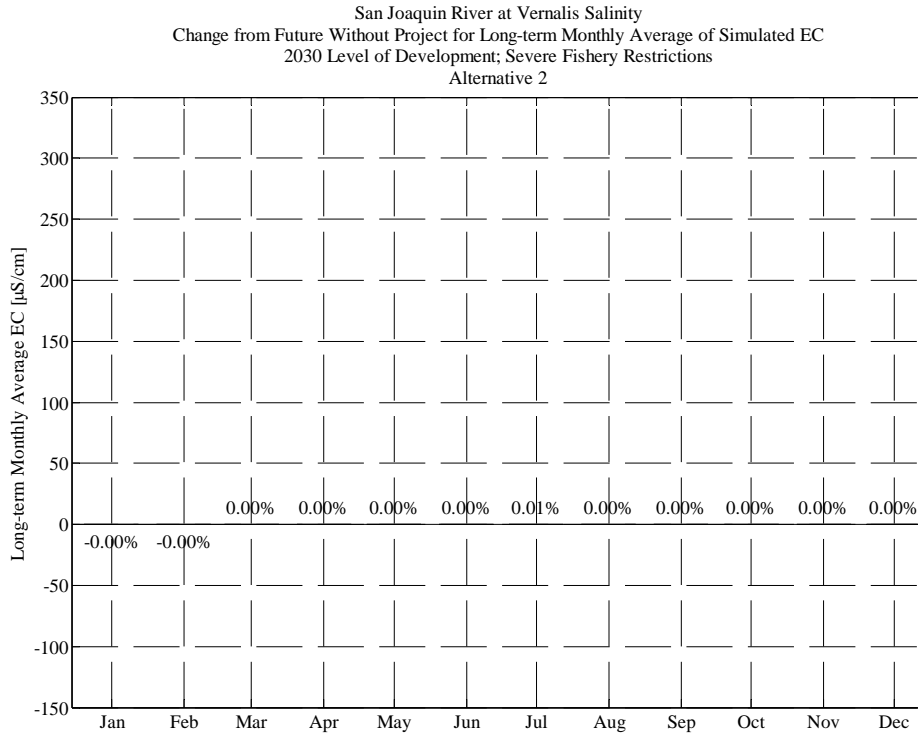
**Percent (%) Change from Future Without Project for San Joaquin River at Vernalis  
(Alternative 2 - Future Without Project) / Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

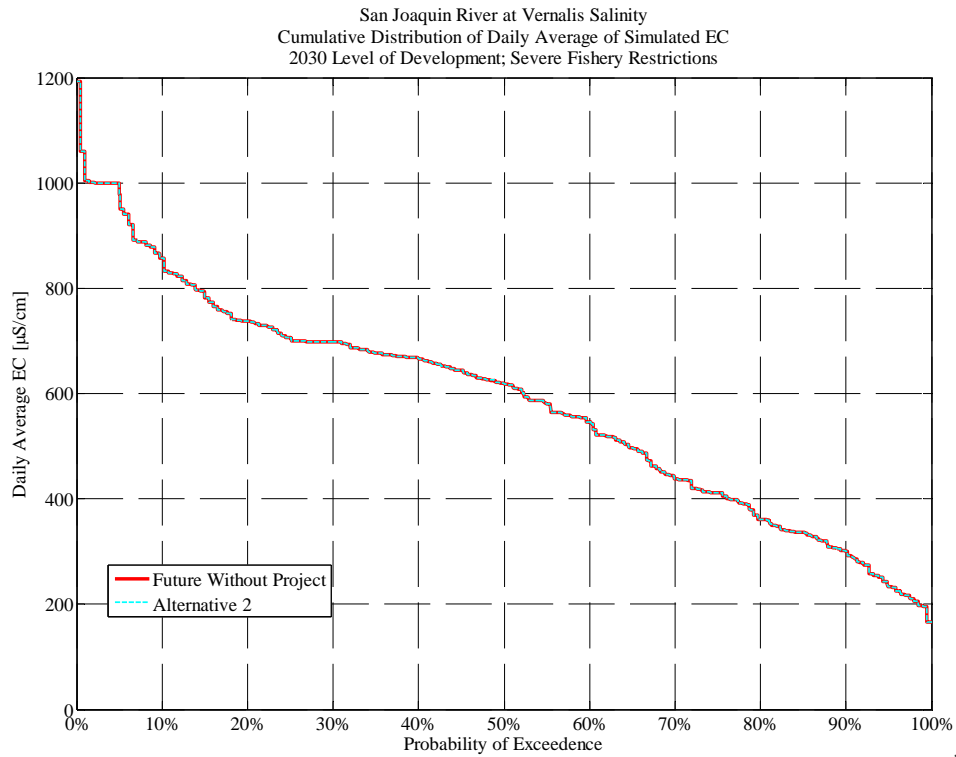
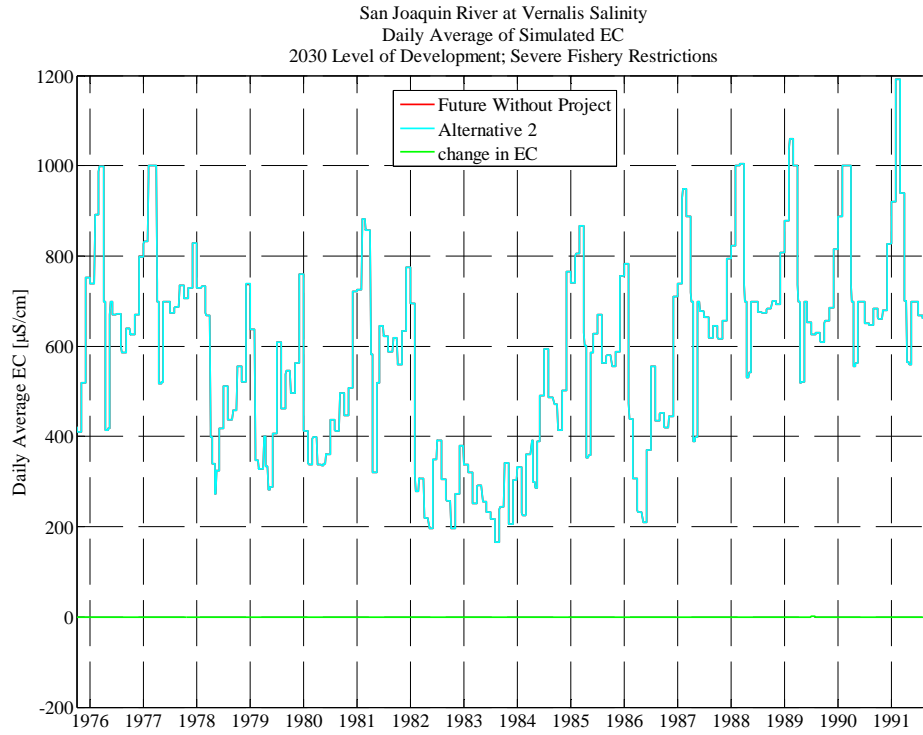
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



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04-Nov-2008 DS

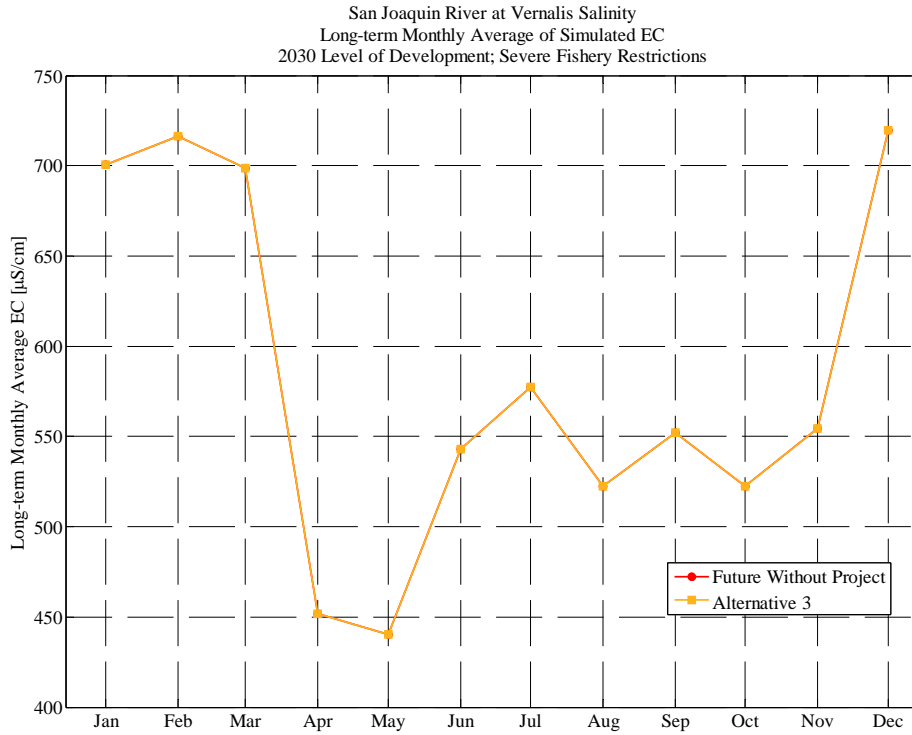


**Alternative 3****San Joaquin River at Vernalis Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 3****2030 Level of Development; Severe Fishery Restrictions**

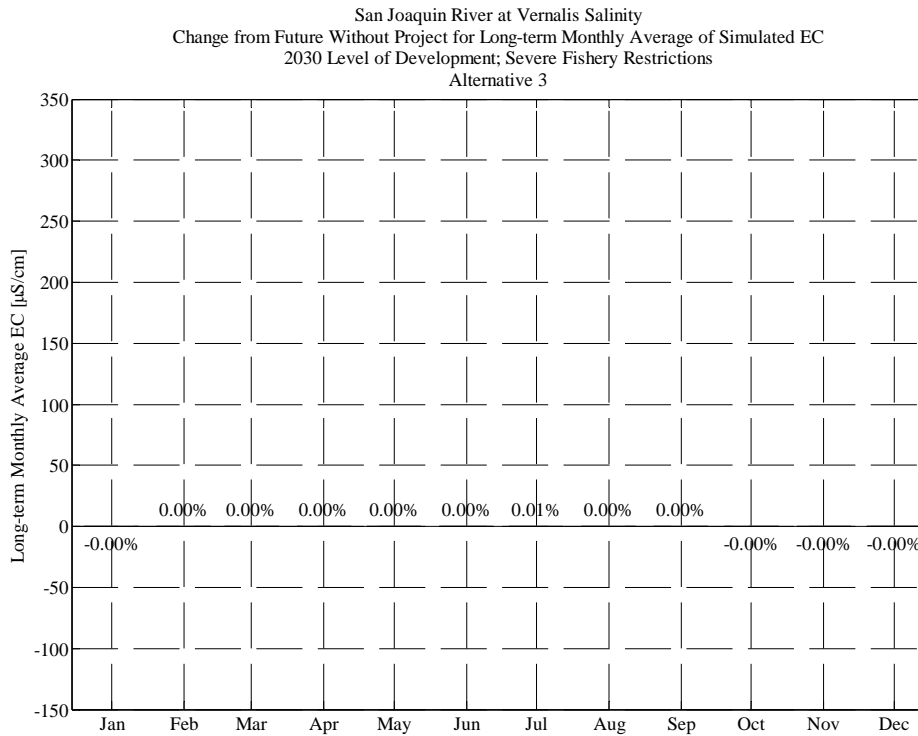
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	411	518	751	738	891	999	549	562	671	673	587	640
1977	626	669	797	832	999	1,000	604	613	698	674	687	735
1978	707	729	828	730	732	669	368	300	418	512	436	457
1979	555	521	737	637	349	329	365	285	405	608	462	546
1980	495	563	758	413	337	398	338	338	360	436	412	496
1981	446	507	721	726	881	857	445	423	644	622	587	619
1982	560	634	774	695	280	308	219	197	349	391	305	258
1983	196	273	379	337	321	252	292	255	232	217	167	244
1984	342	206	302	332	226	361	343	339	491	593	487	472
1985	414	502	765	741	806	866	471	475	628	671	564	581
1986	555	587	755	782	440	308	233	210	369	555	435	452
1987	419	445	709	739	949	888	536	552	677	665	618	644
1988	617	657	794	823	999	1,005	612	623	698	677	674	683
1989	700	693	807	878	1,060	1,001	605	612	652	626	630	609
1990	656	686	814	888	999	1,000	624	632	698	651	647	684
1991	661	679	827	920	1,191	941	629	631	698	668	662	714
<b>Avg</b>	522	554	720	701	716	699	452	441	543	577	523	552
<b>W/AN/BN</b>	487	502	648	561	384	375	308	275	375	473	386	418
<b>D/C</b>	550	595	776	809	975	951	564	569	674	659	629	657

**Percent (%) Change from Future Without Project for San Joaquin River at Vernalis  
(Alternative 3 - Future Without Project) / Future Without Project****2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

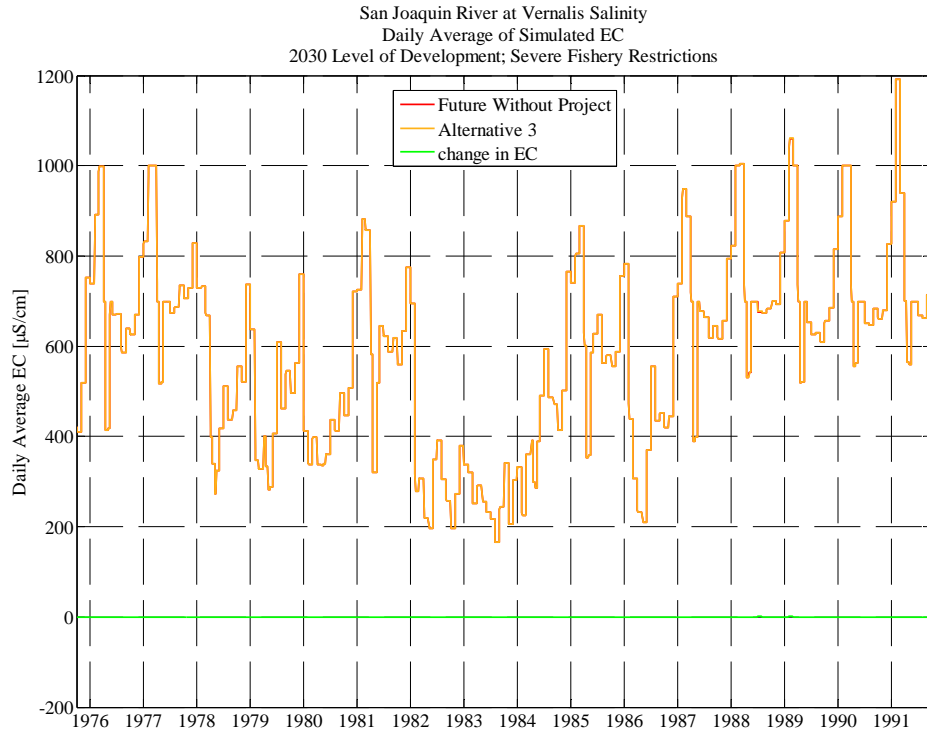


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04-Nov-2008 DS

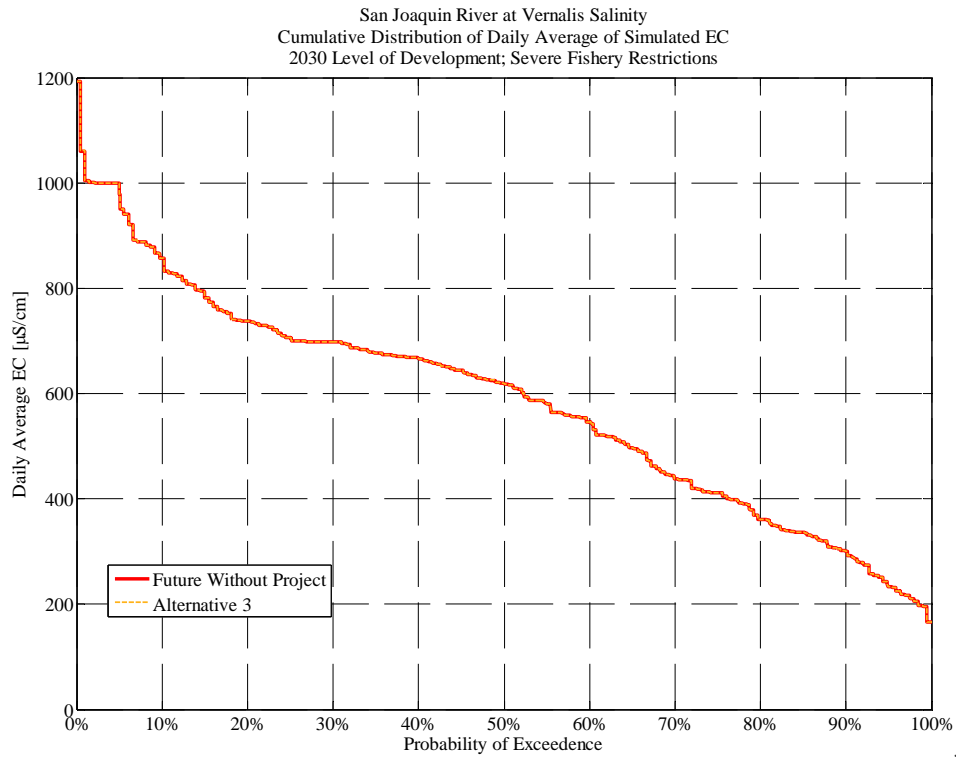


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04-Nov-2008 DS





p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 4**

**San Joaquin River at Vernalis Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 4**

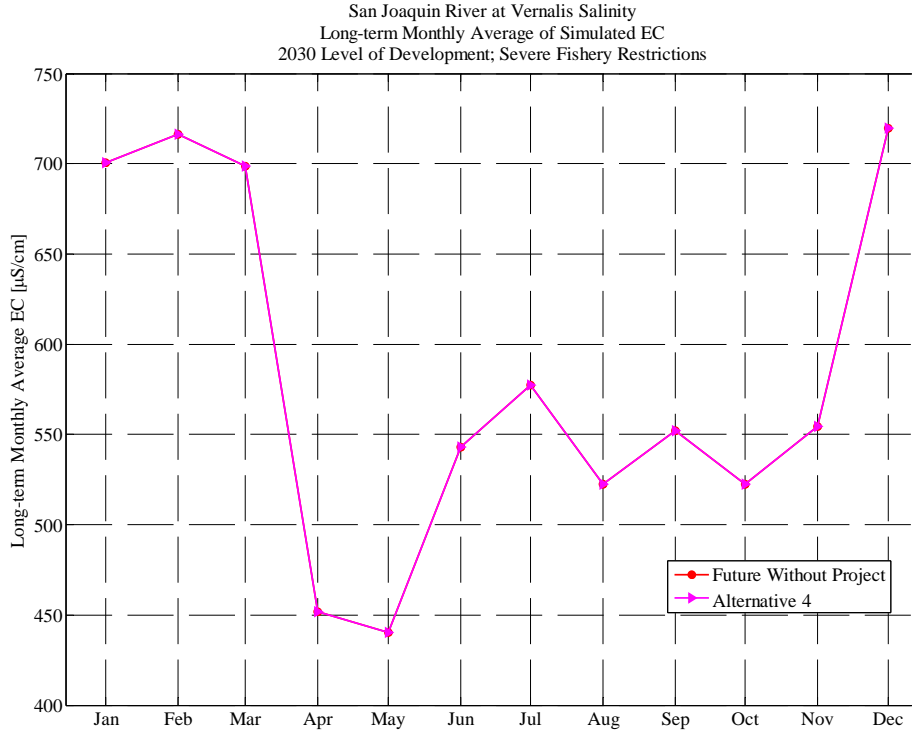
**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	411	518	751	738	891	999	549	562	671	673	587	640
1977	626	669	797	832	999	1,000	604	613	698	674	687	735
1978	707	729	828	730	732	669	368	300	418	512	436	457
1979	555	521	737	637	349	329	365	285	405	608	462	546
1980	495	563	758	413	337	398	338	338	360	436	412	496
1981	446	507	721	726	881	857	445	423	644	622	587	619
1982	560	634	774	695	280	308	219	197	349	391	305	258
1983	196	273	379	337	321	252	292	255	232	217	167	244
1984	342	206	302	332	226	361	343	339	491	593	487	472
1985	414	502	765	741	806	866	471	475	628	671	564	581
1986	555	587	755	782	440	308	233	210	369	555	435	452
1987	419	445	709	739	949	888	536	552	677	665	618	644
1988	617	657	794	823	999	1,005	612	623	698	677	674	683
1989	700	693	807	878	1,060	1,001	605	612	652	626	630	609
1990	656	686	814	888	999	1,000	624	632	698	651	647	684
1991	661	679	827	920	1,191	941	629	631	698	668	662	714
<b>Avg</b>	523	554	720	701	716	699	452	441	543	577	523	552
<b>W/AN/BN</b>	487	502	648	561	384	375	308	275	375	473	386	418
<b>D/C</b>	550	595	776	809	975	951	564	569	674	658	629	657

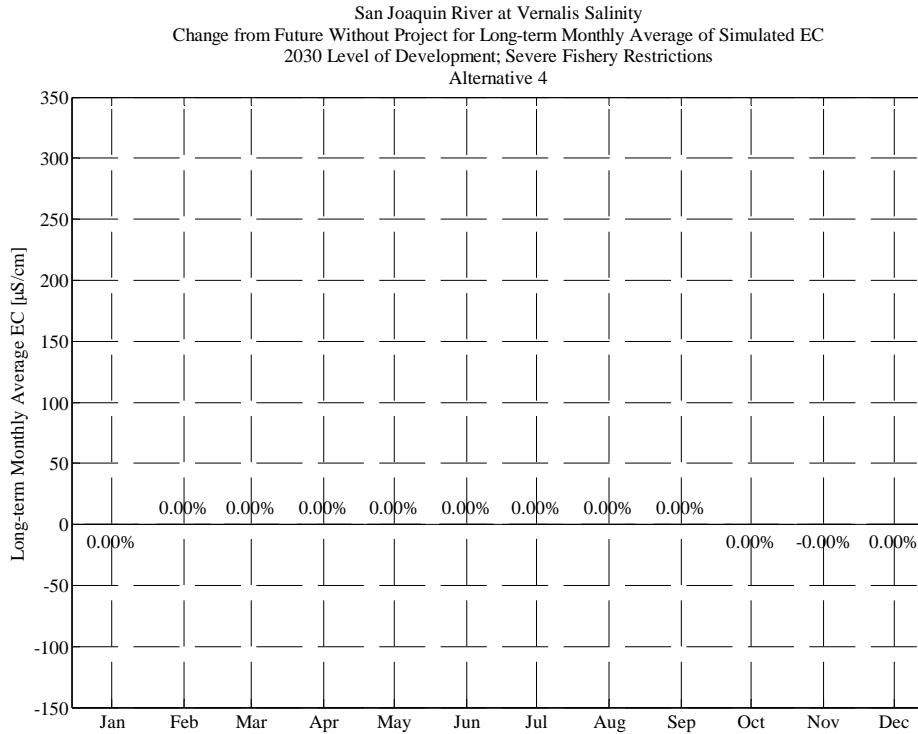
**Percent (%) Change from Future Without Project for San Joaquin River at Vernalis  
(Alternative 4 - Future Without Project) / Future Without Project**

**2030 Level of Development; Severe Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

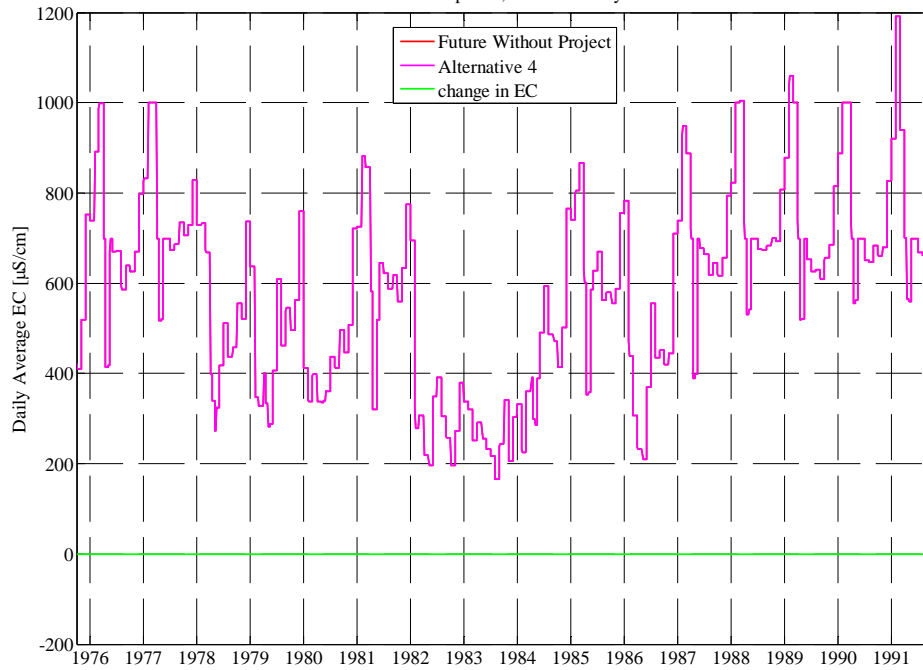


p\_lve\_wq\_eir.m  
04-Nov-2008 DS



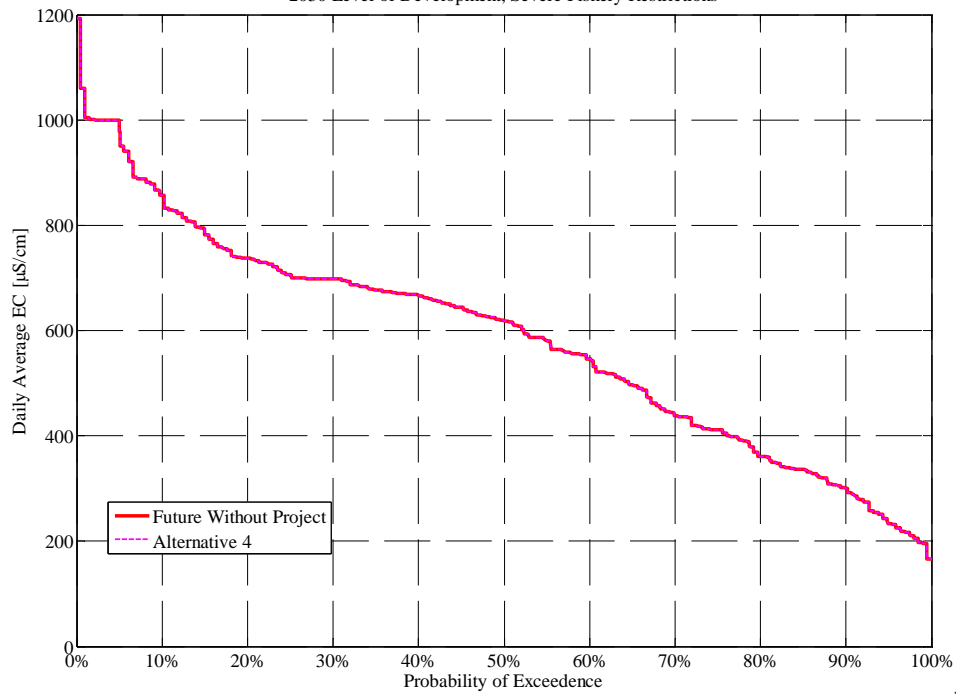
p\_lve\_wq\_eir.m  
04-Nov-2008 DS

San Joaquin River at Vernalis Salinity  
 Daily Average of Simulated EC  
 2030 Level of Development; Severe Fishery Restrictions



p\_lve\_wq\_eir.m  
 04-Nov-2008 DS

San Joaquin River at Vernalis Salinity  
 Cumulative Distribution of Daily Average of Simulated EC  
 2030 Level of Development; Severe Fishery Restrictions

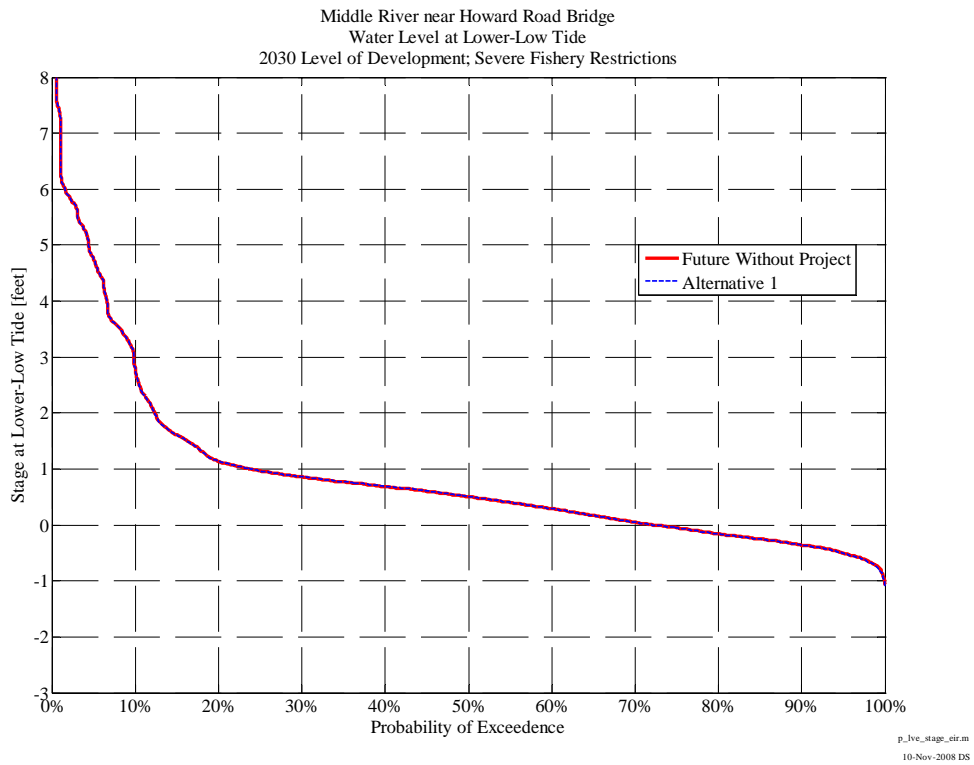
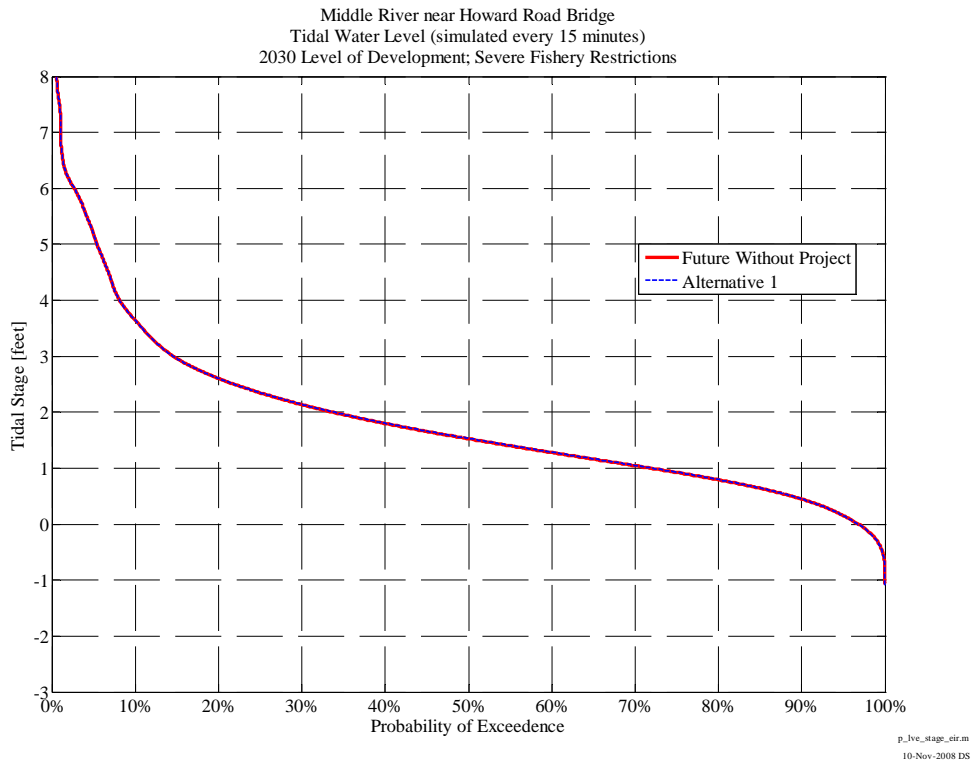


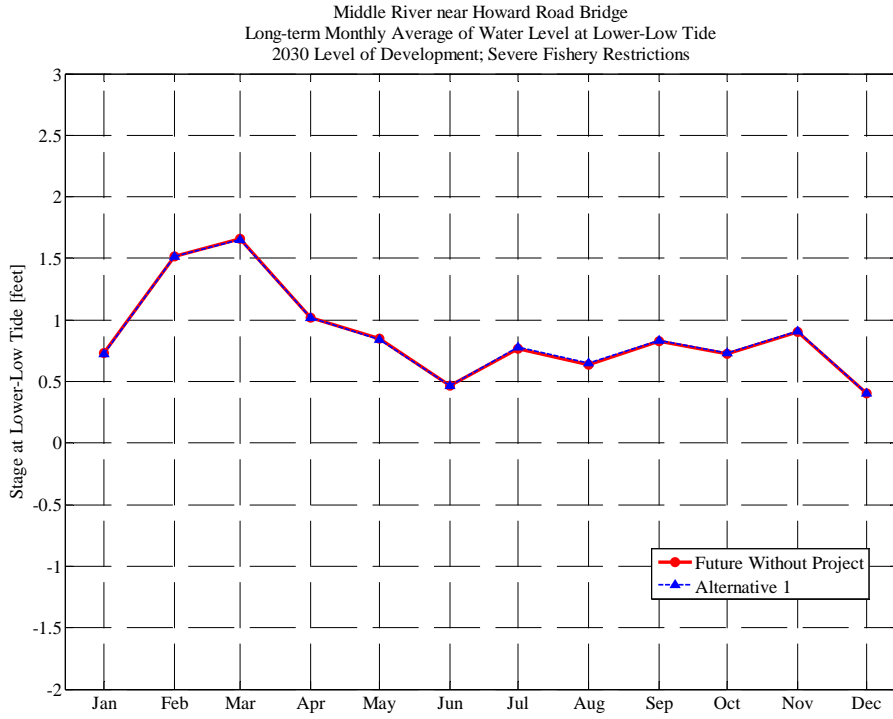
p\_lve\_wq\_eir.m  
 05-Nov-2008 DS

## Water Level

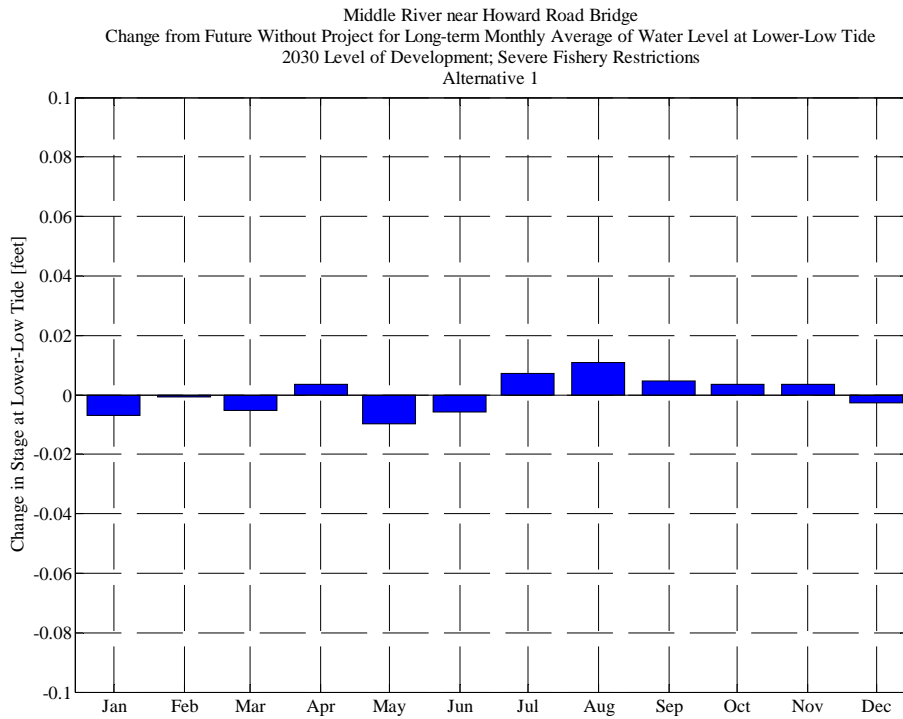
# Middle River near Howard Road Bridge

## Alternative 1



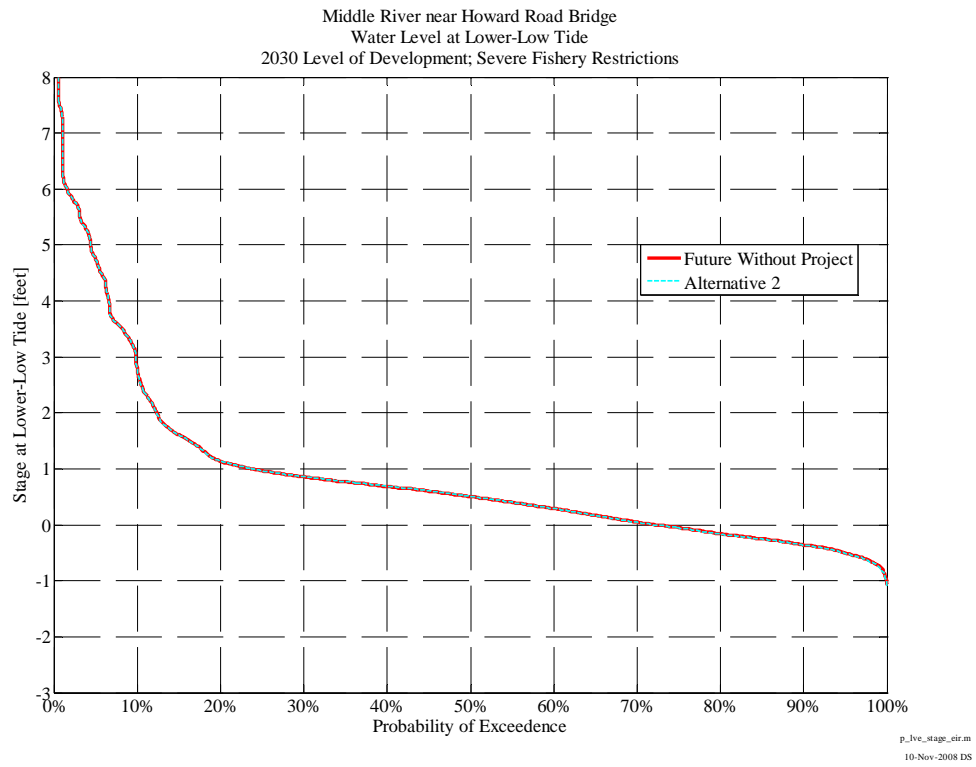
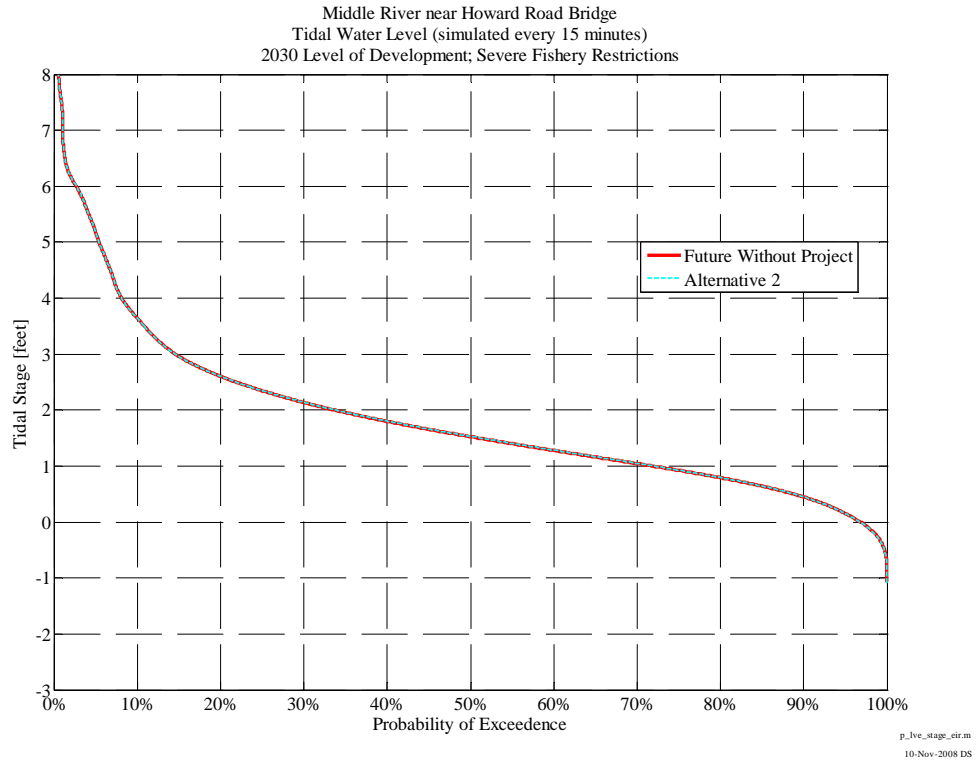


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

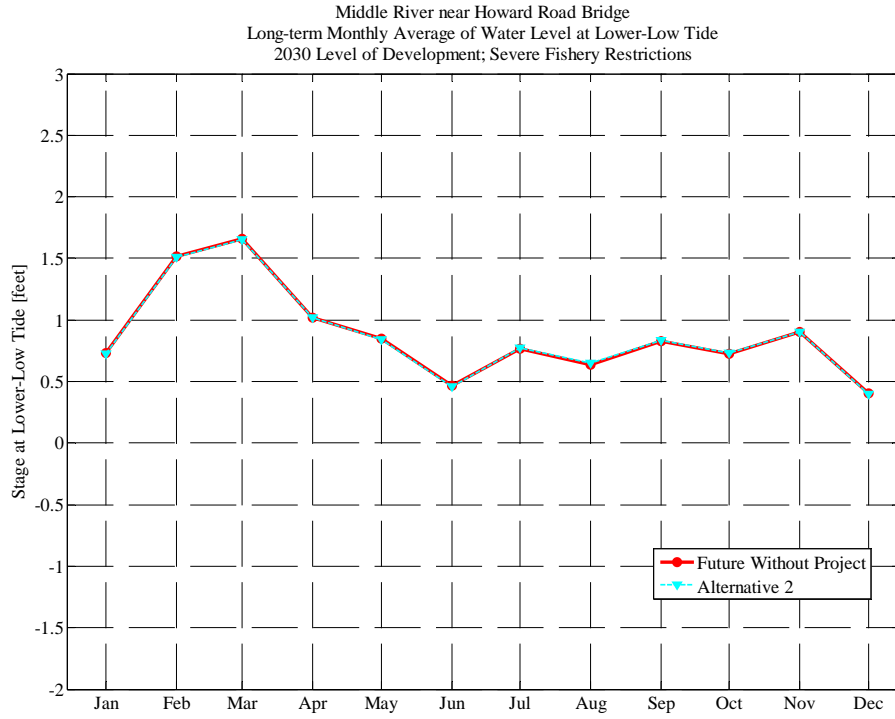


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

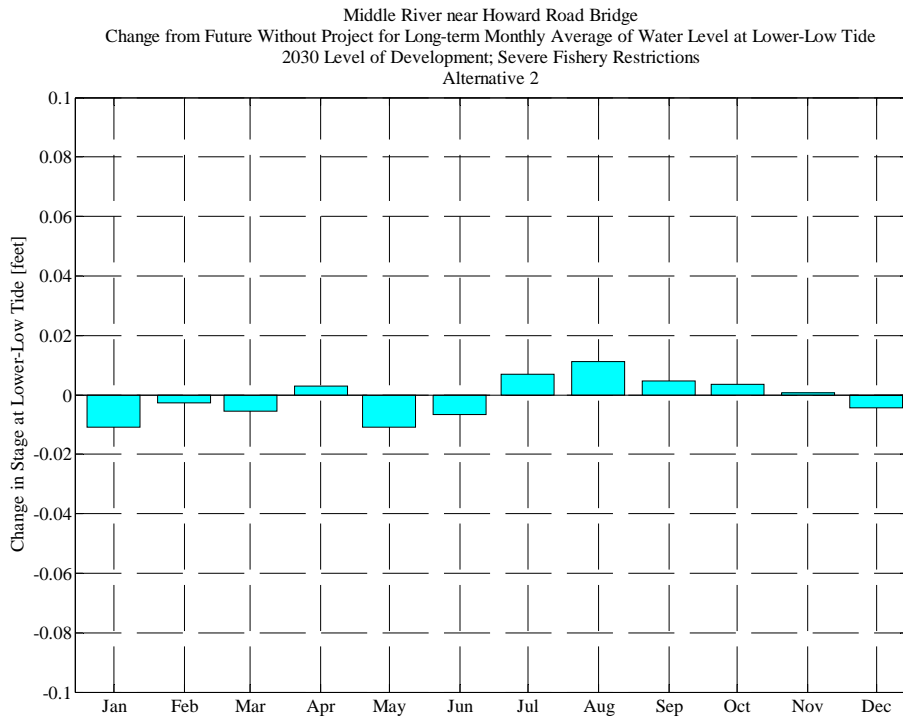
## Alternative 2





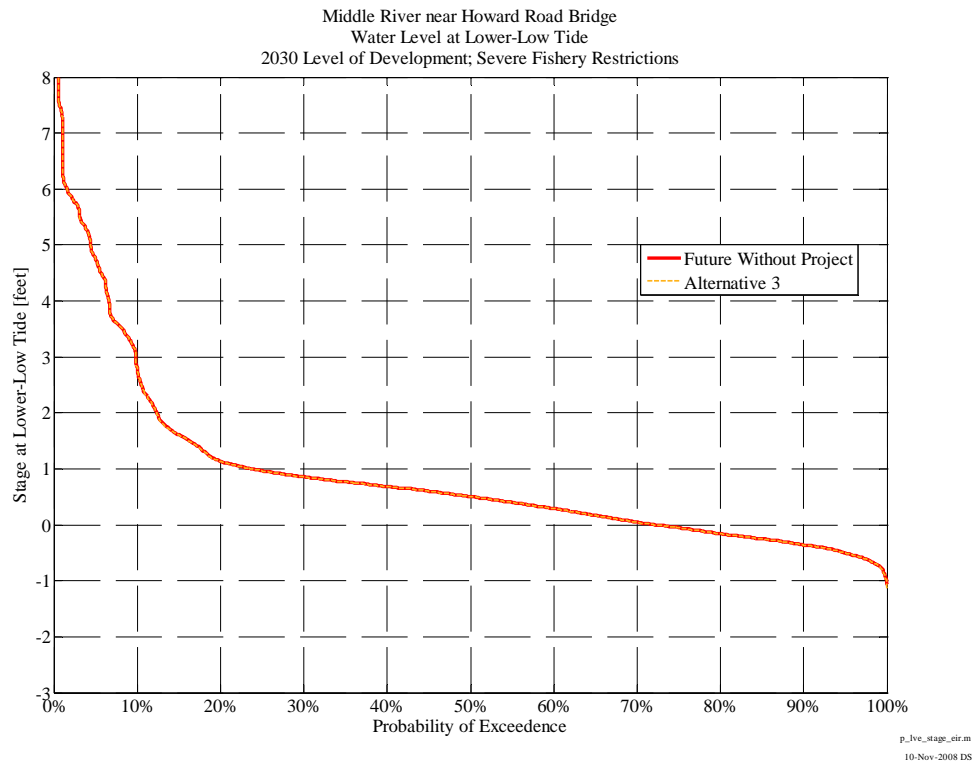
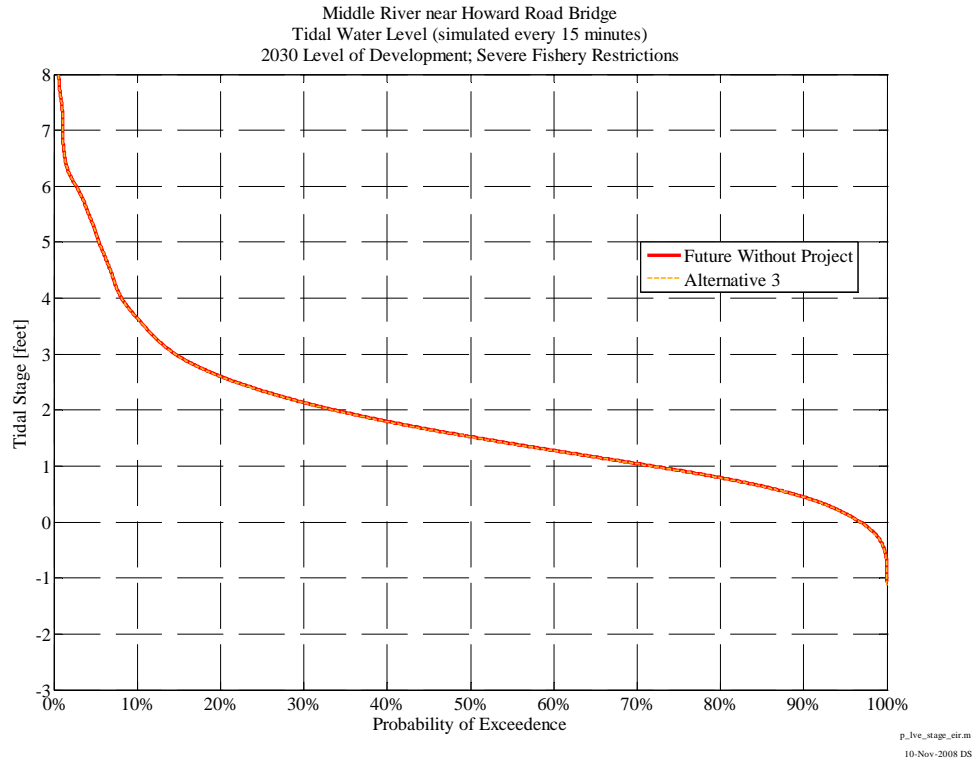


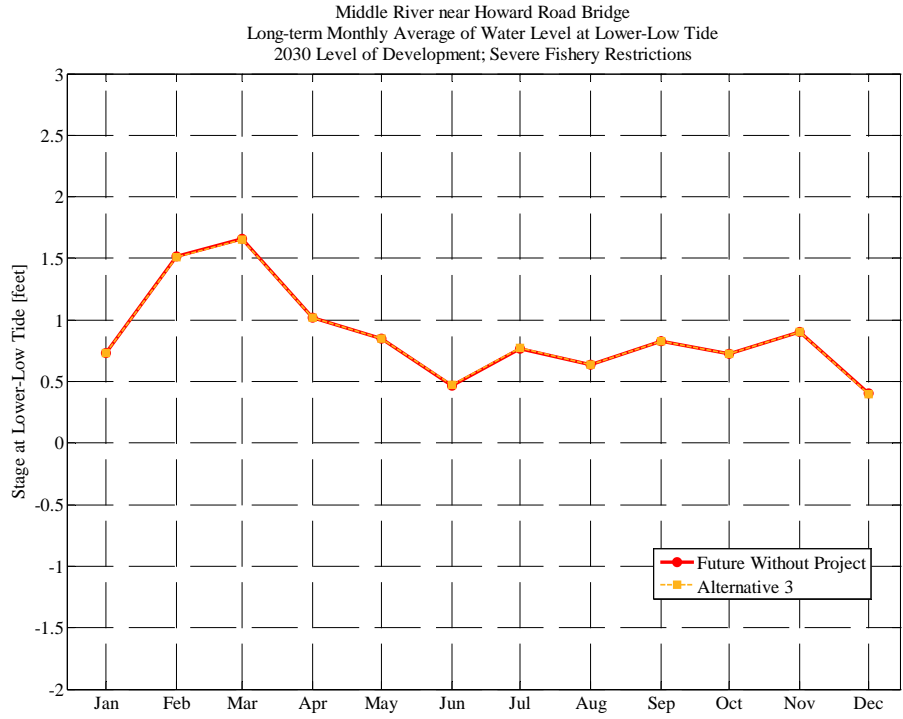
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



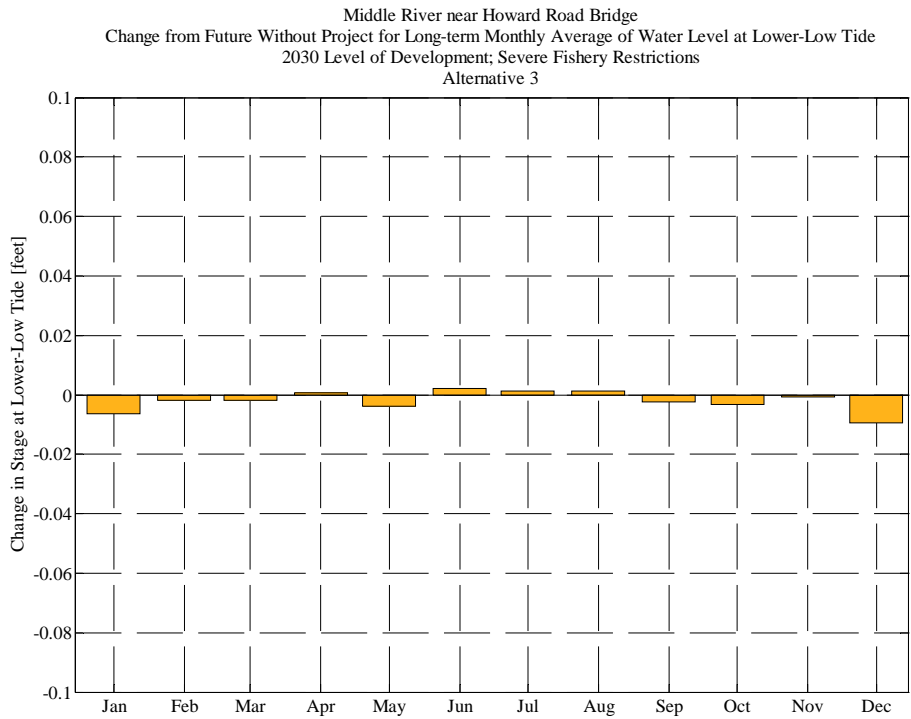
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



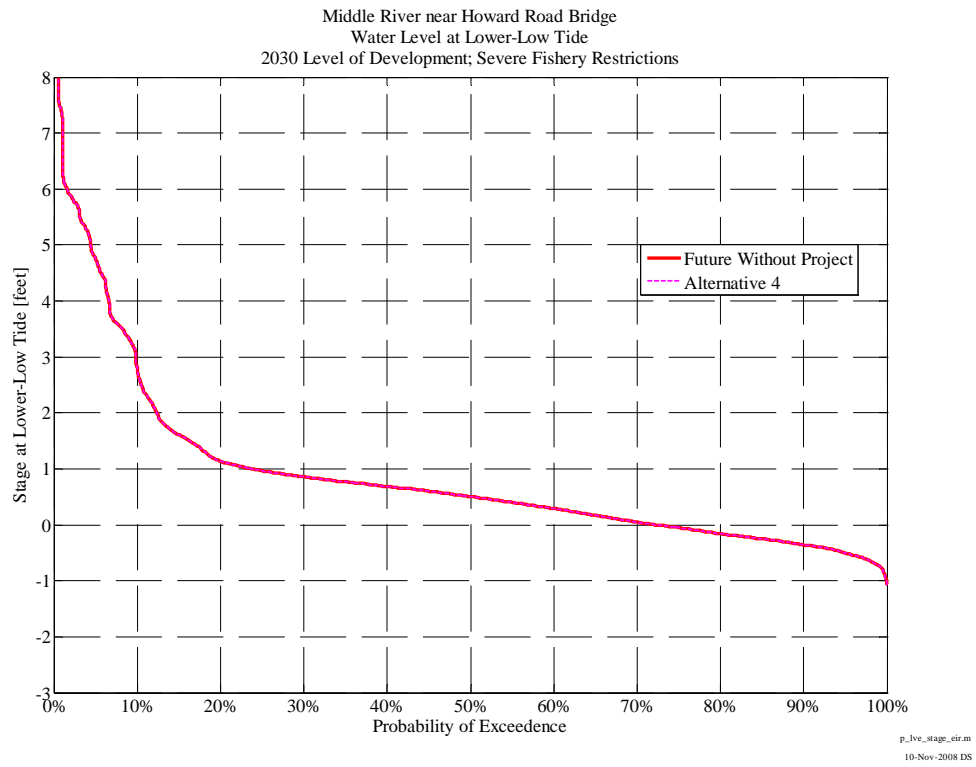
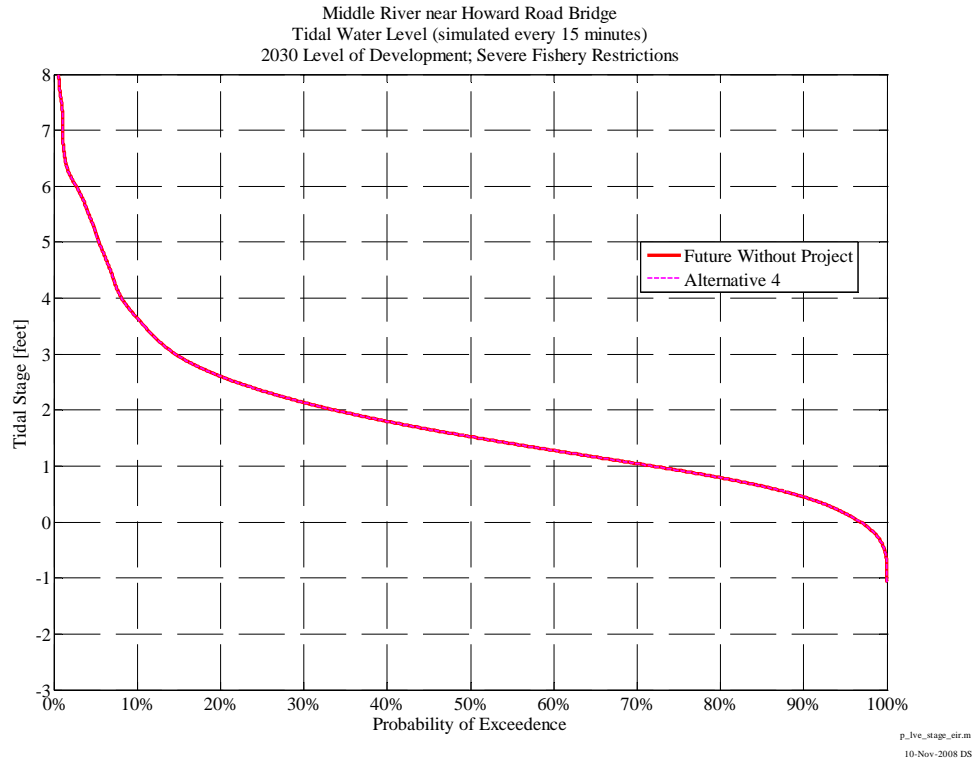


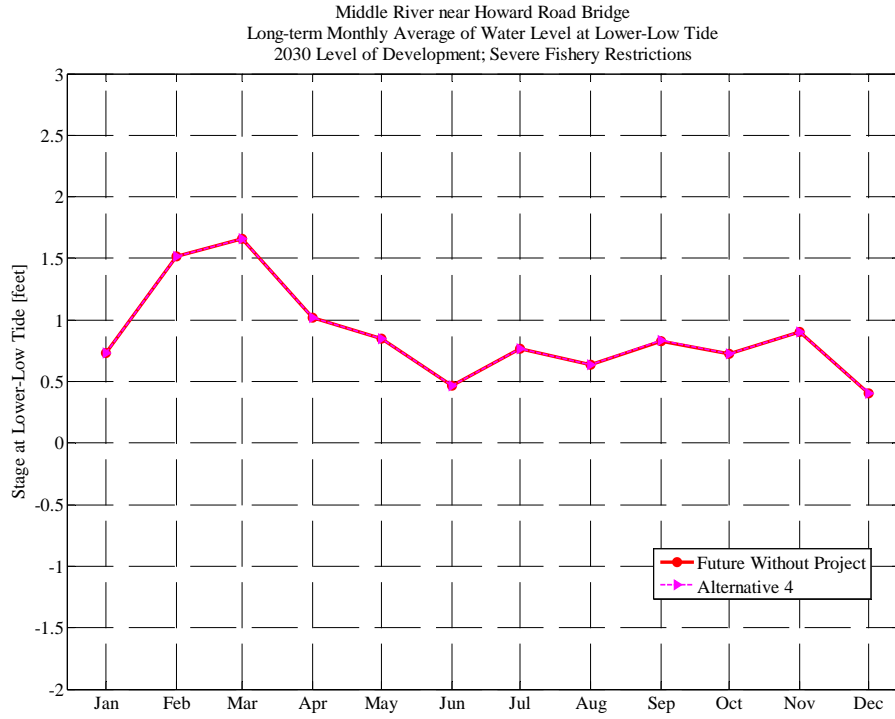
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



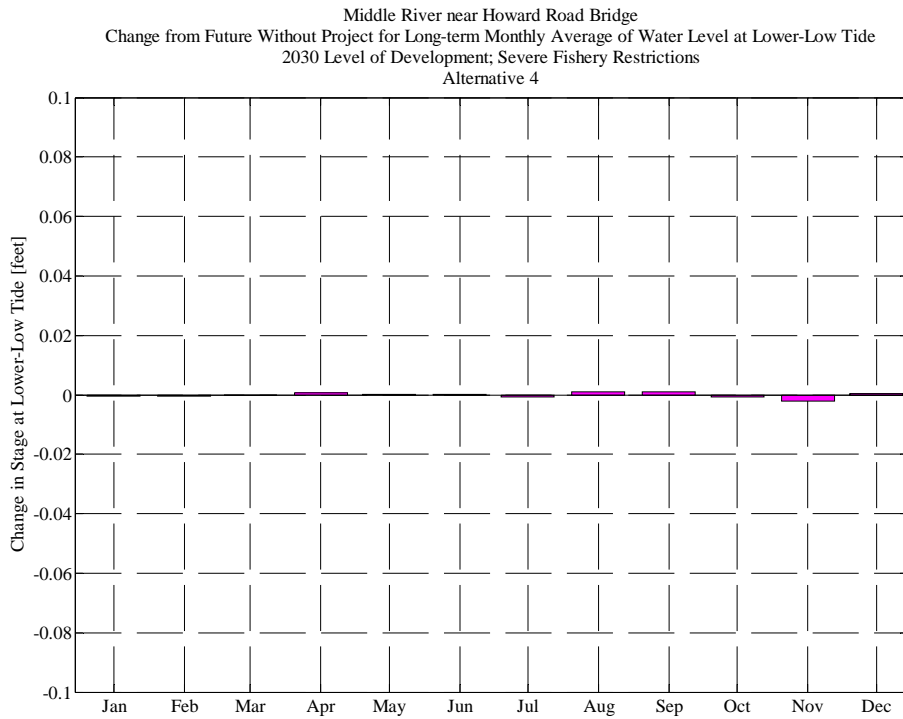
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

## Alternative 4





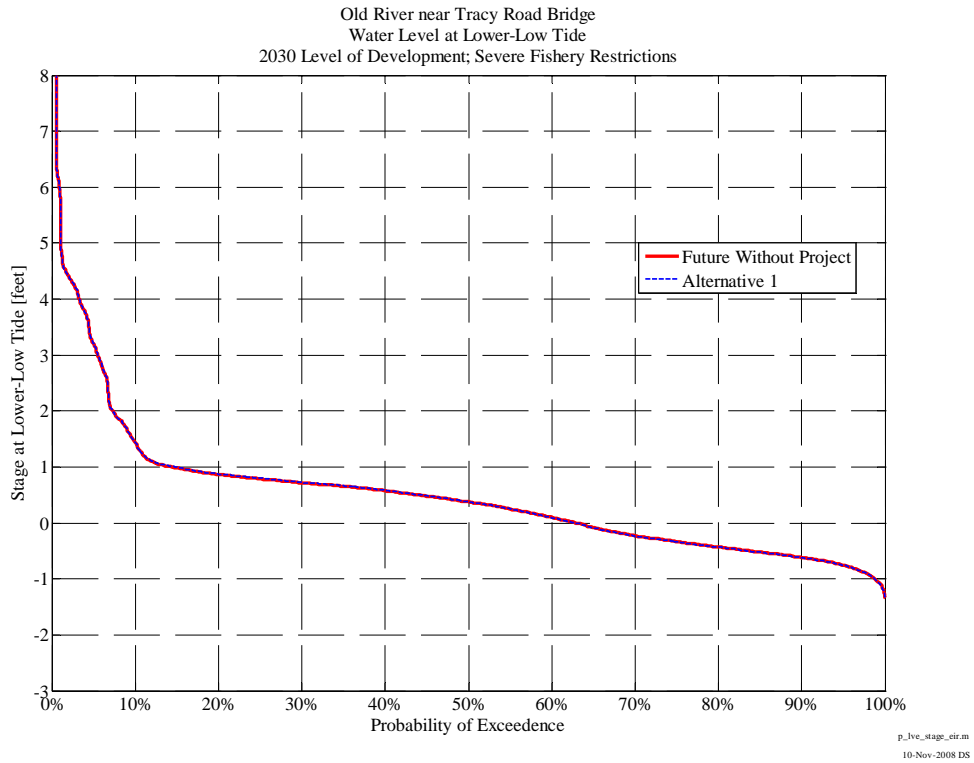
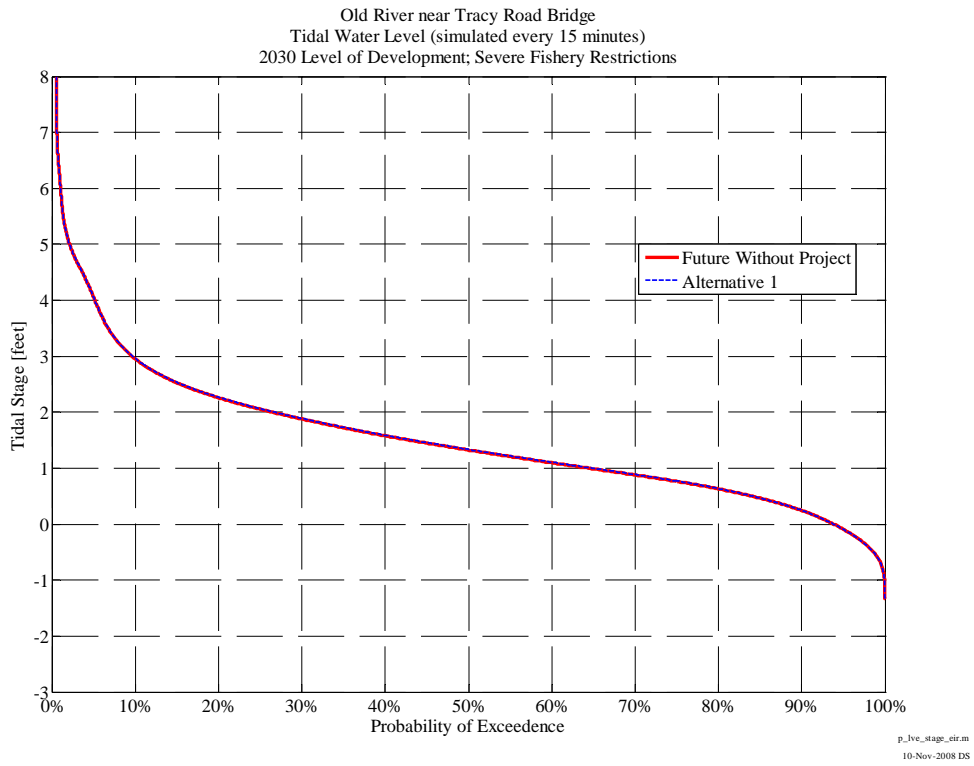
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

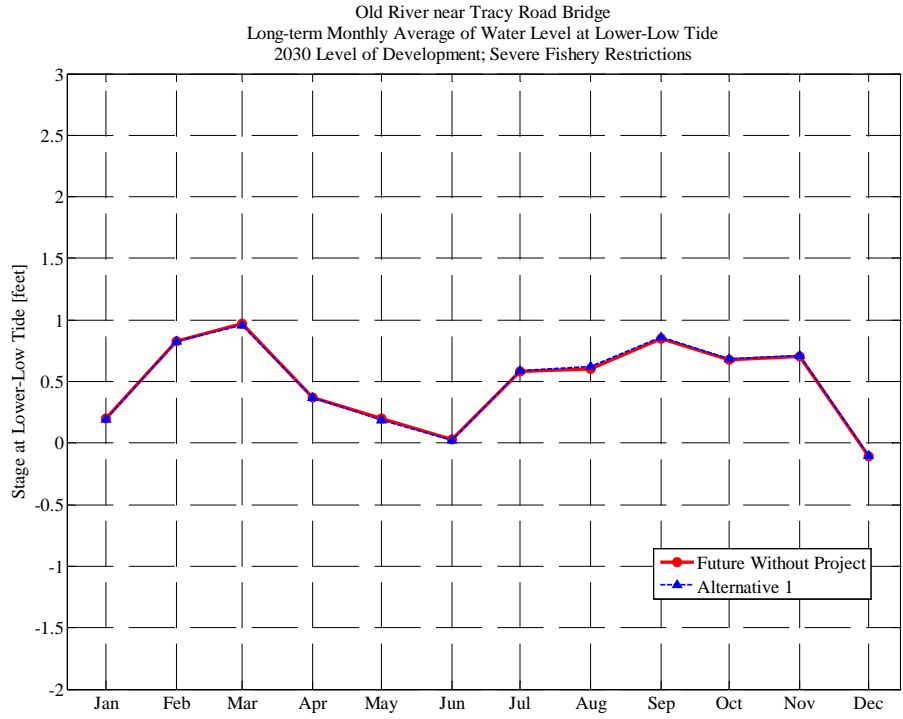


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

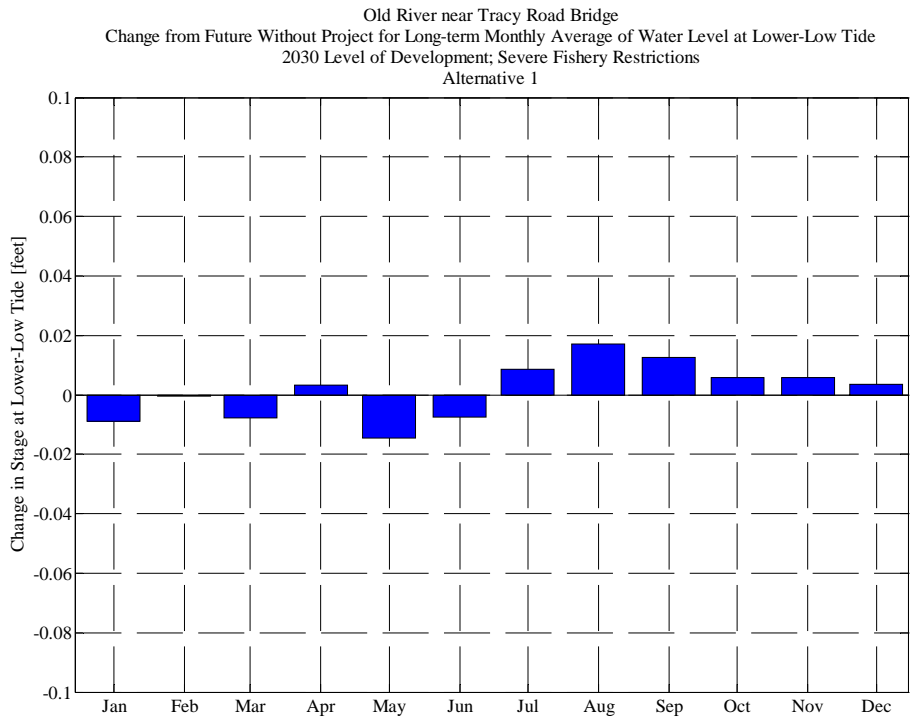
# Old River near Tracy Road Bridge

## Alternative 1



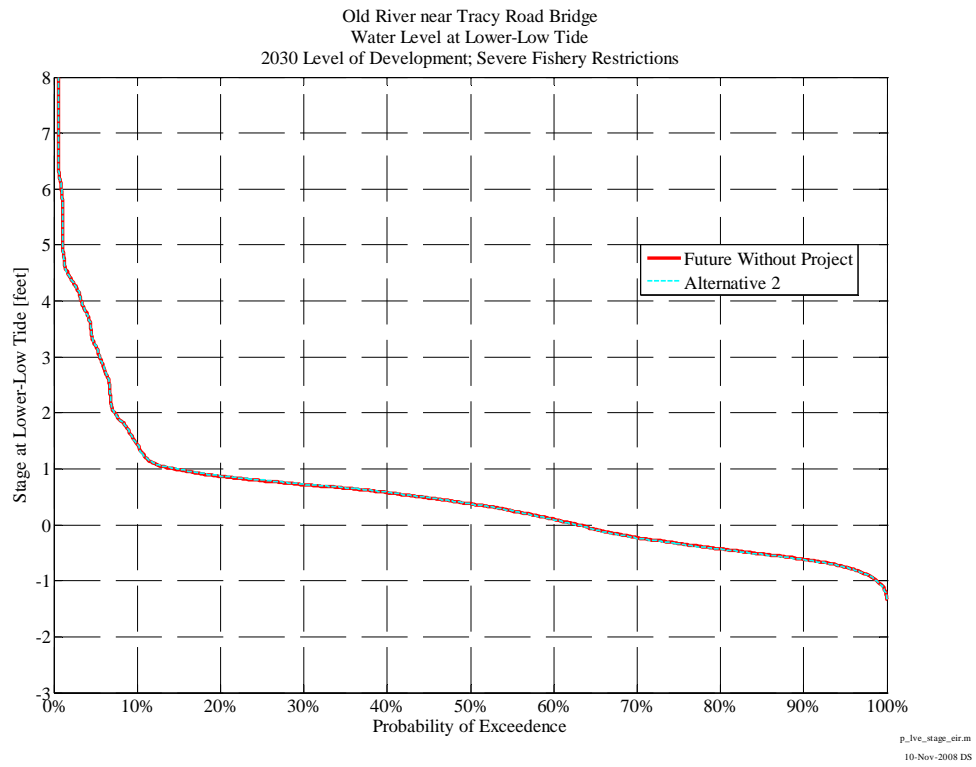
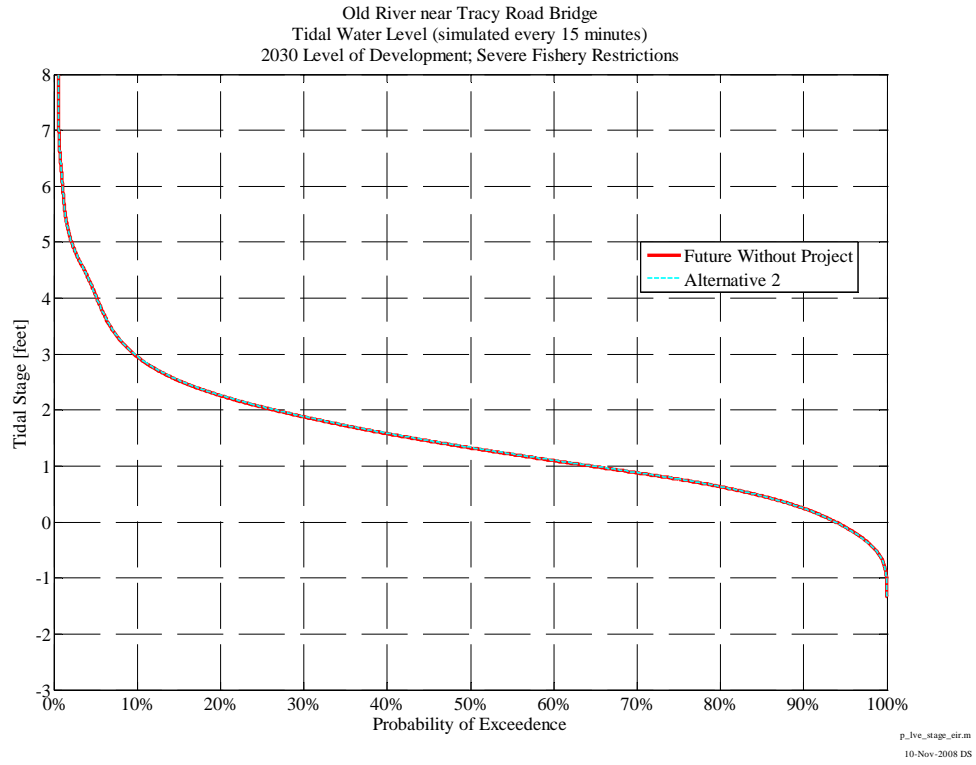


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

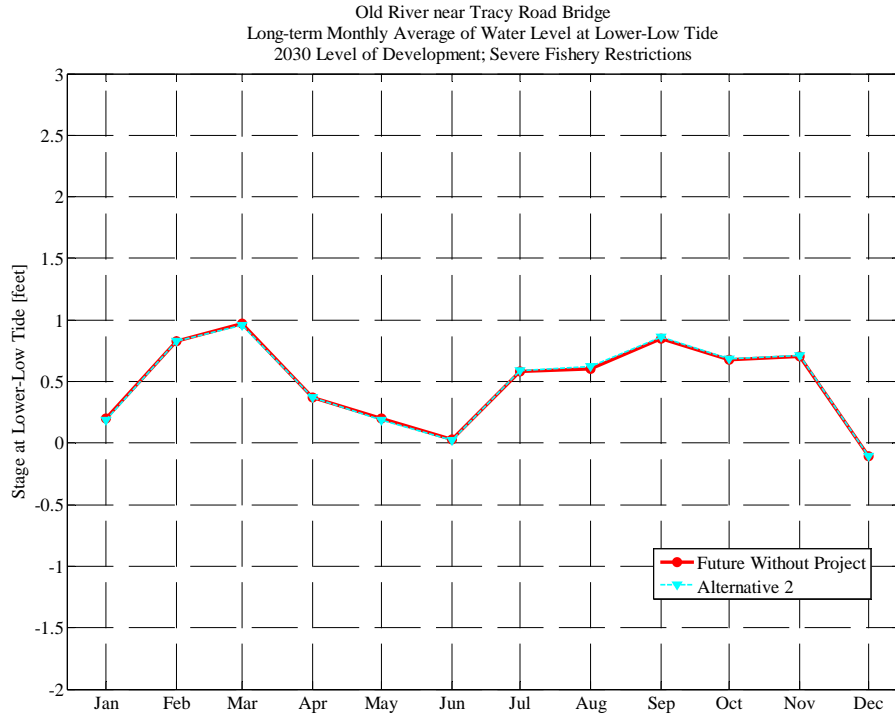


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

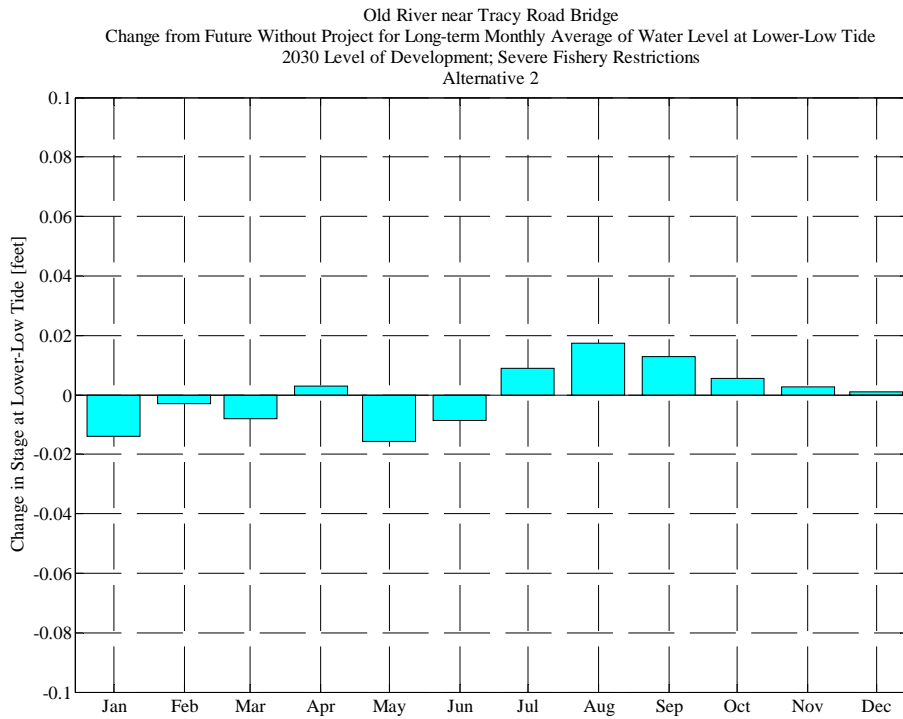
## Alternative 2





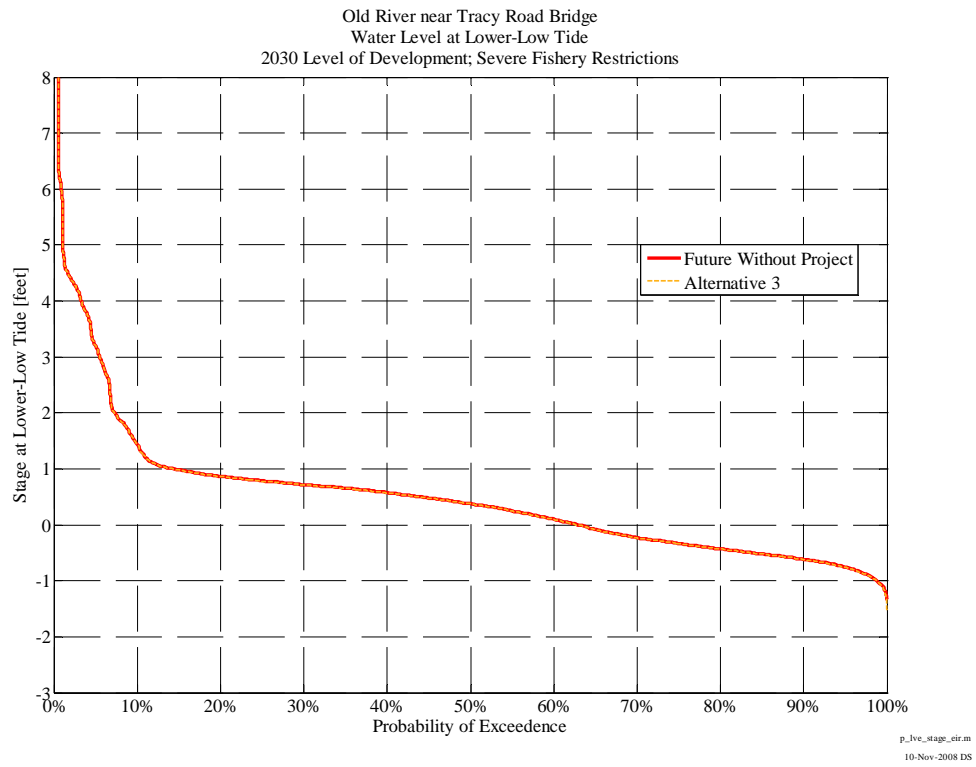
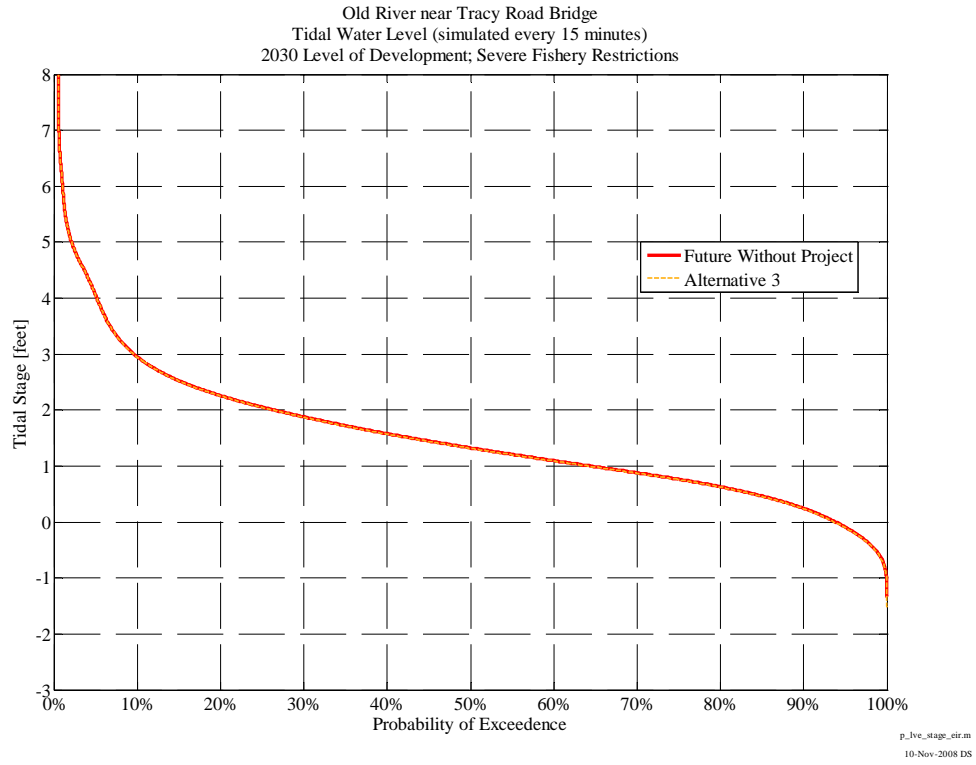


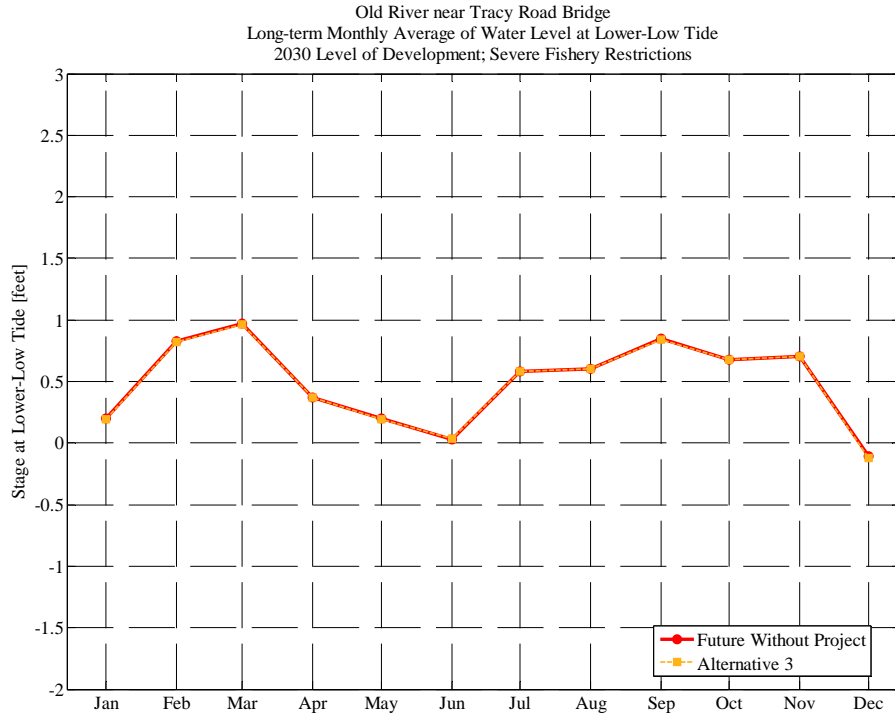
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



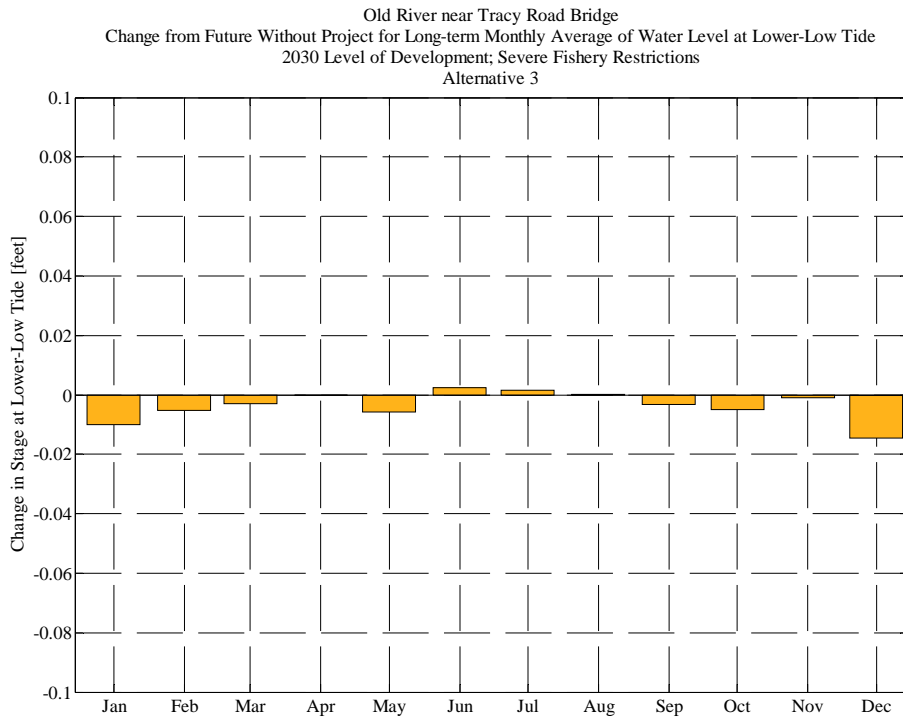
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



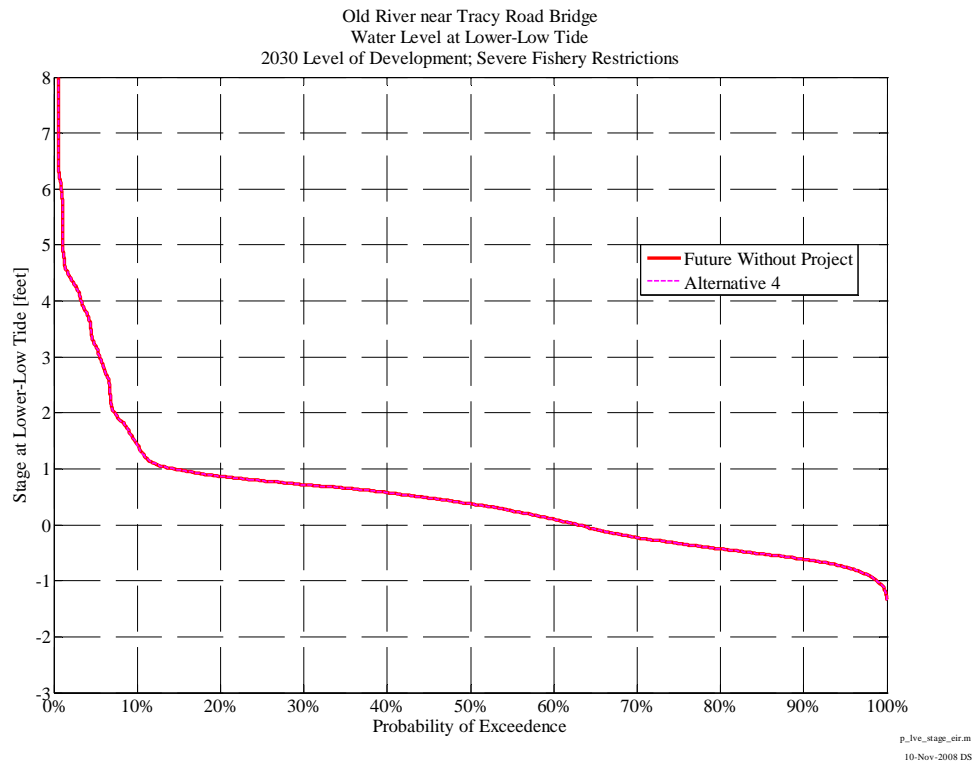
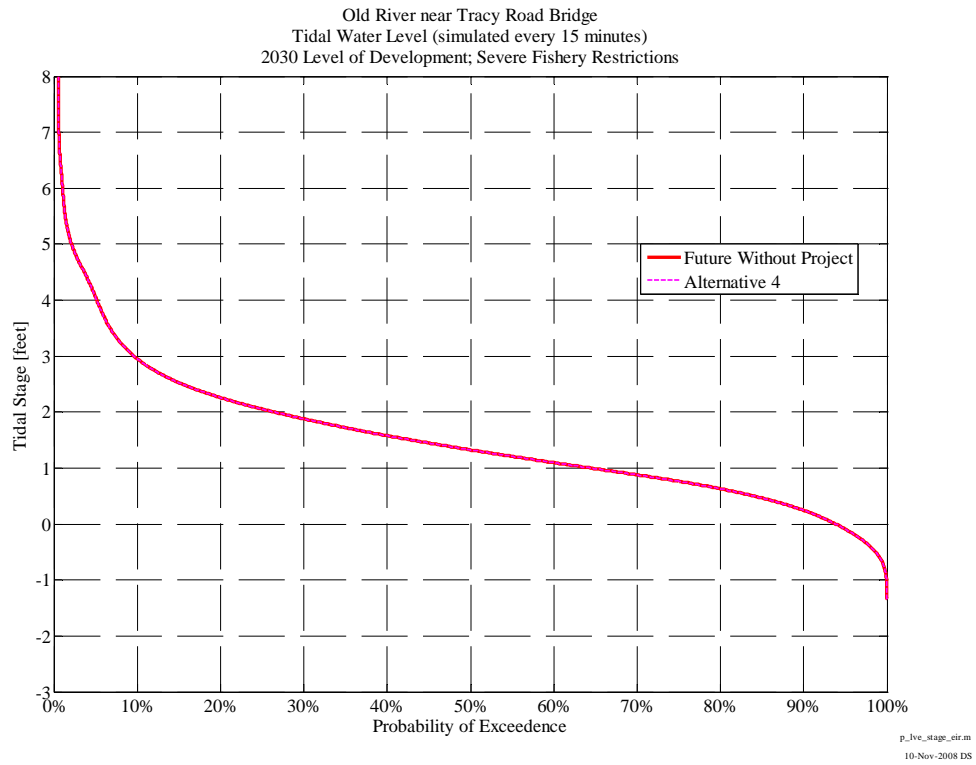


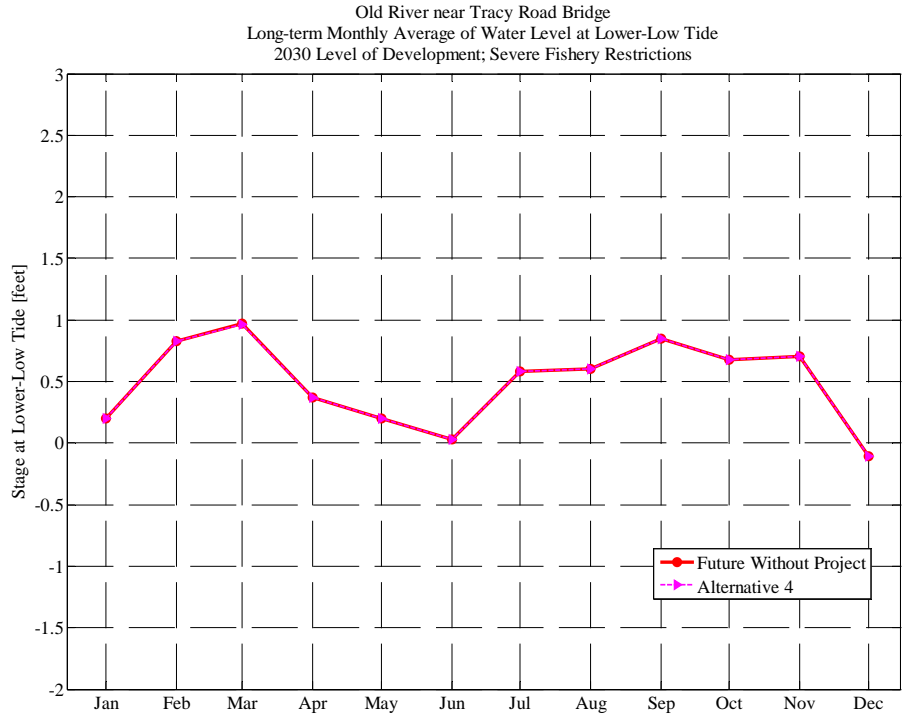
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



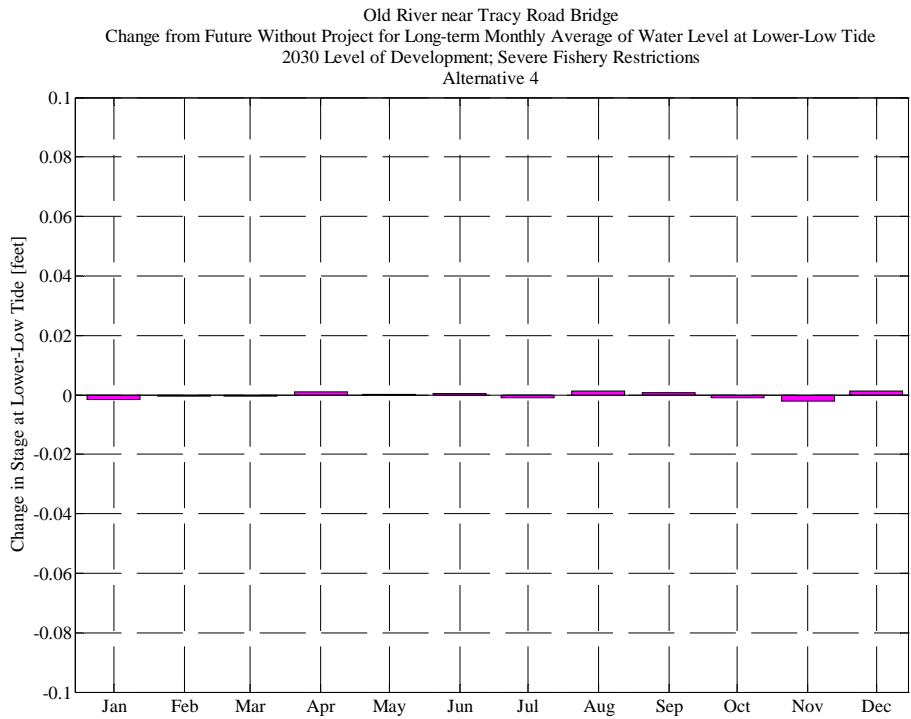
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 4





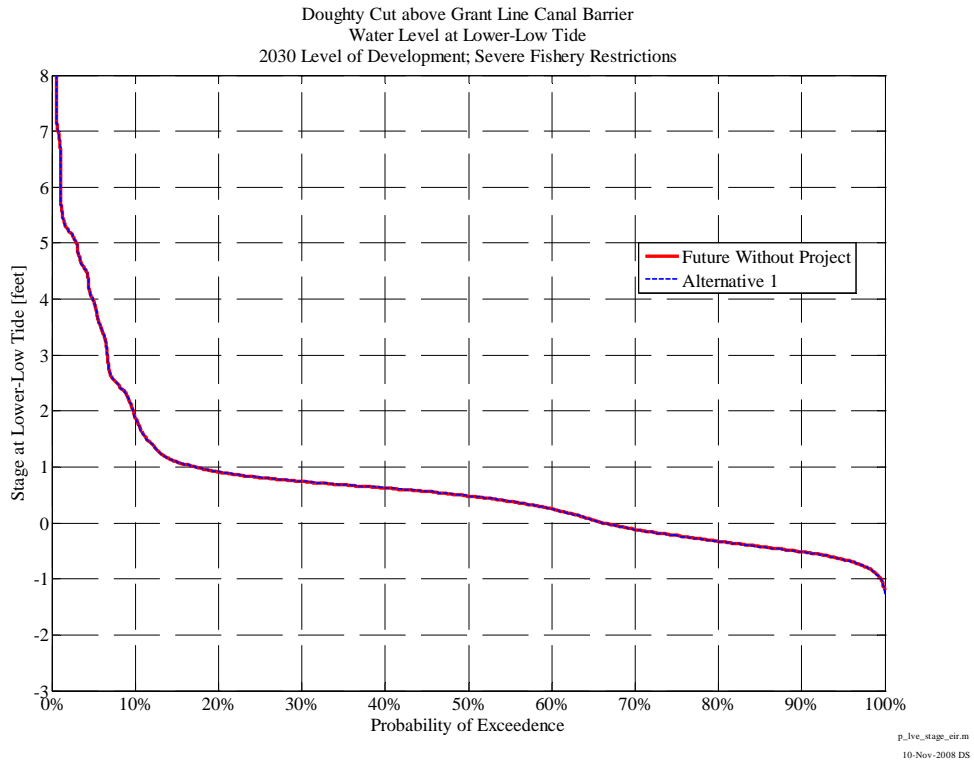
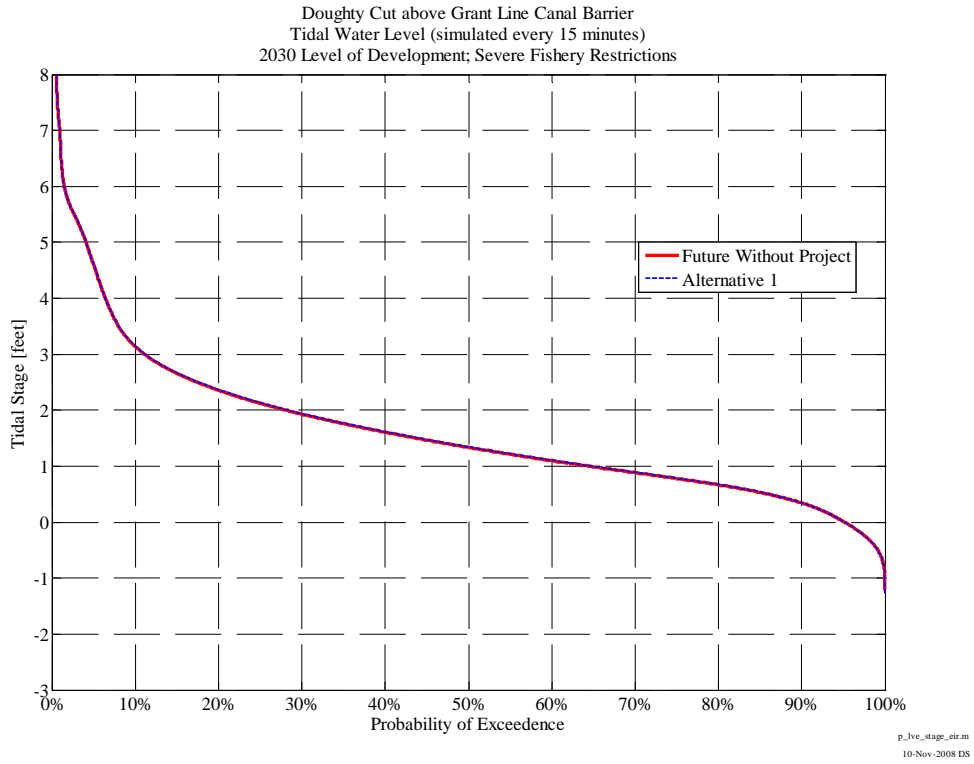
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

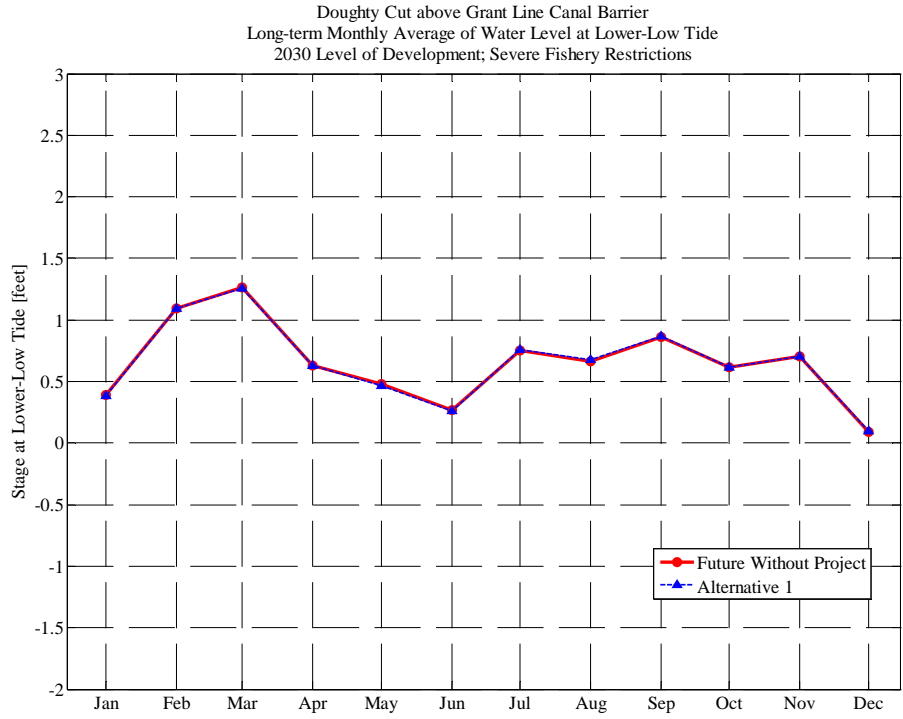


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

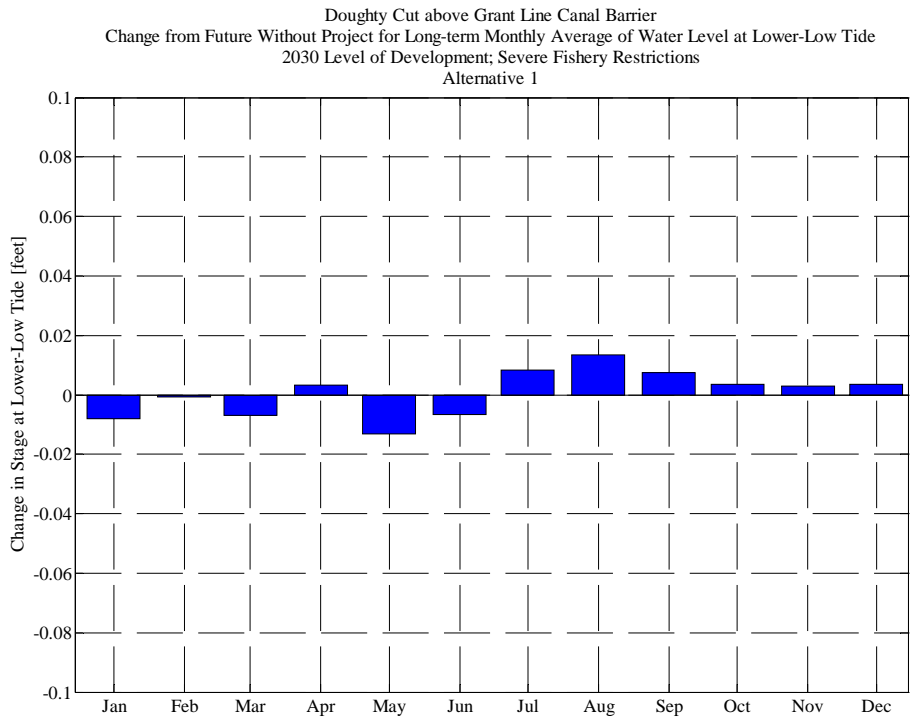
# Doughty Cut above Grant Line Canal Barrier

## Alternative 1



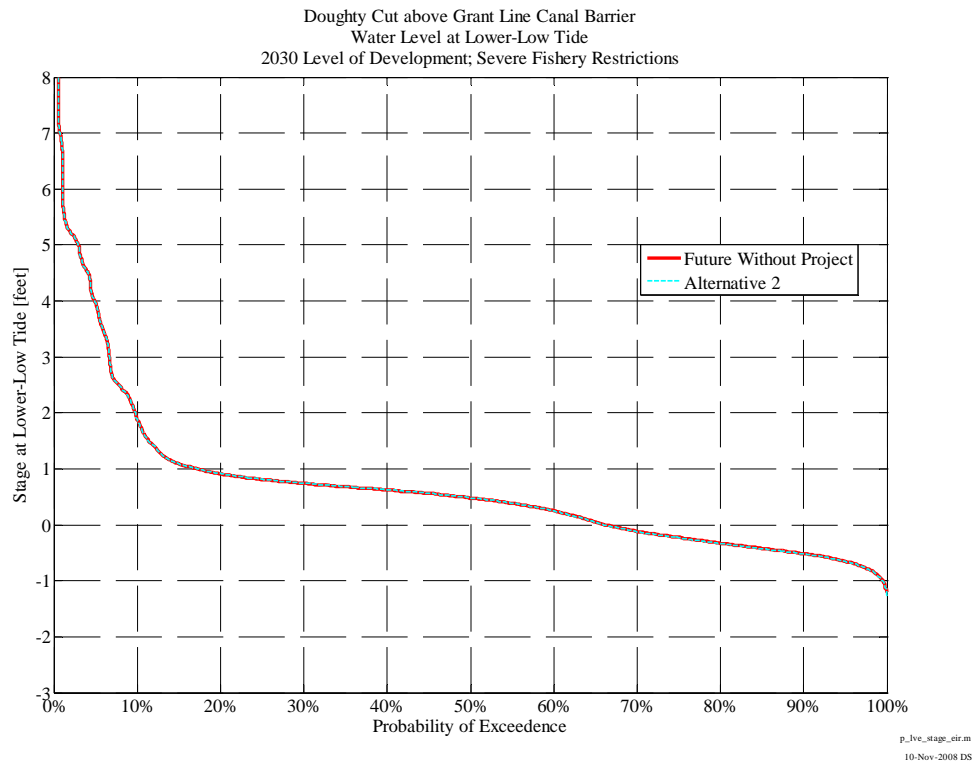
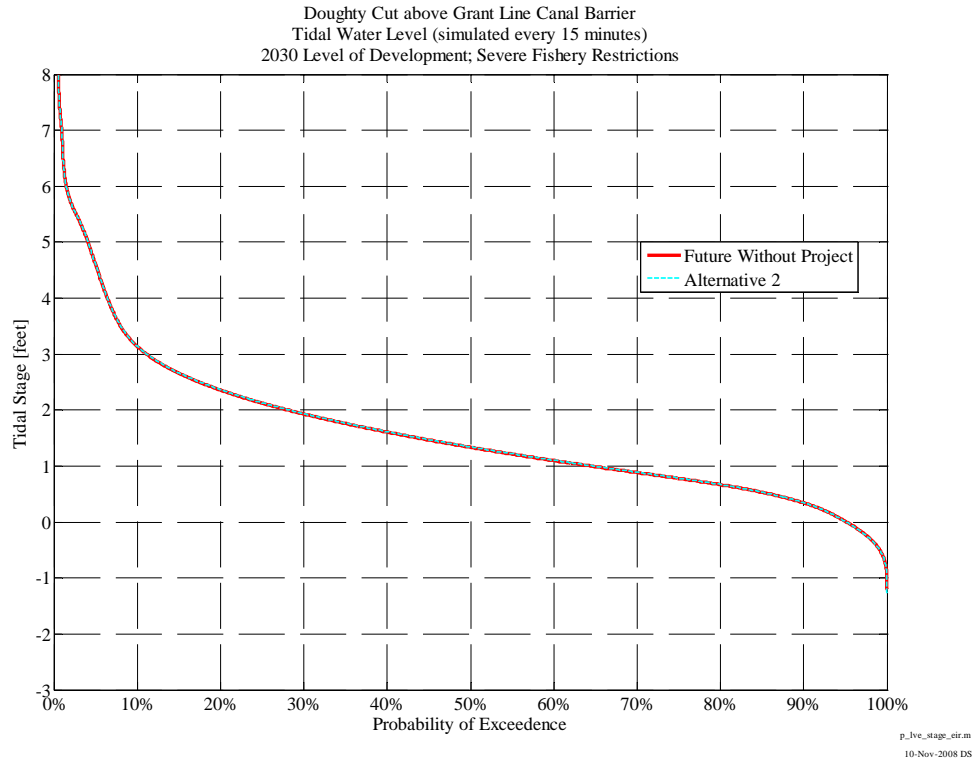


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

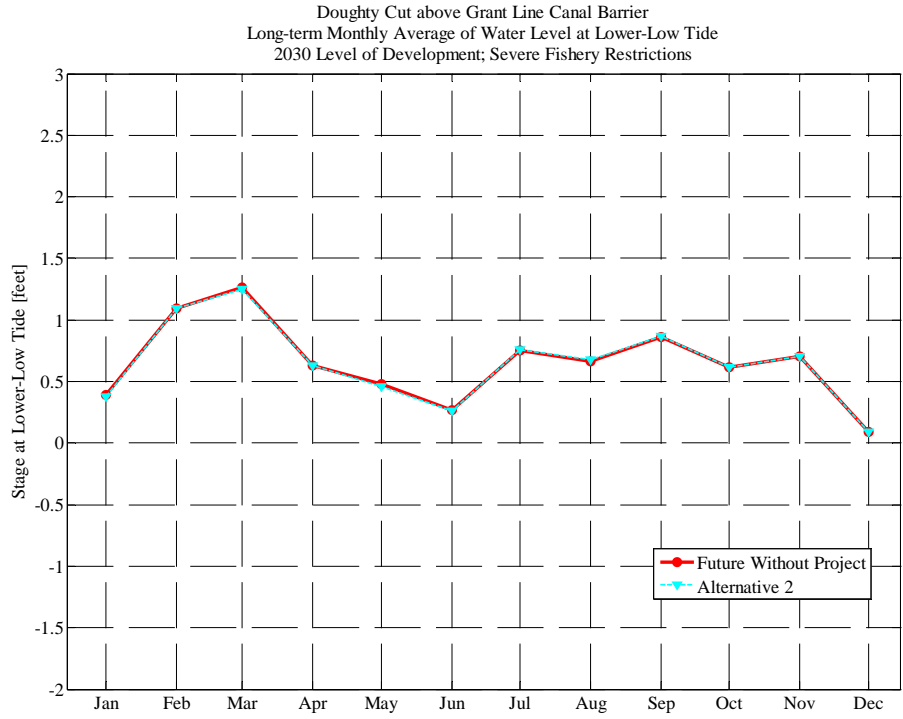


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

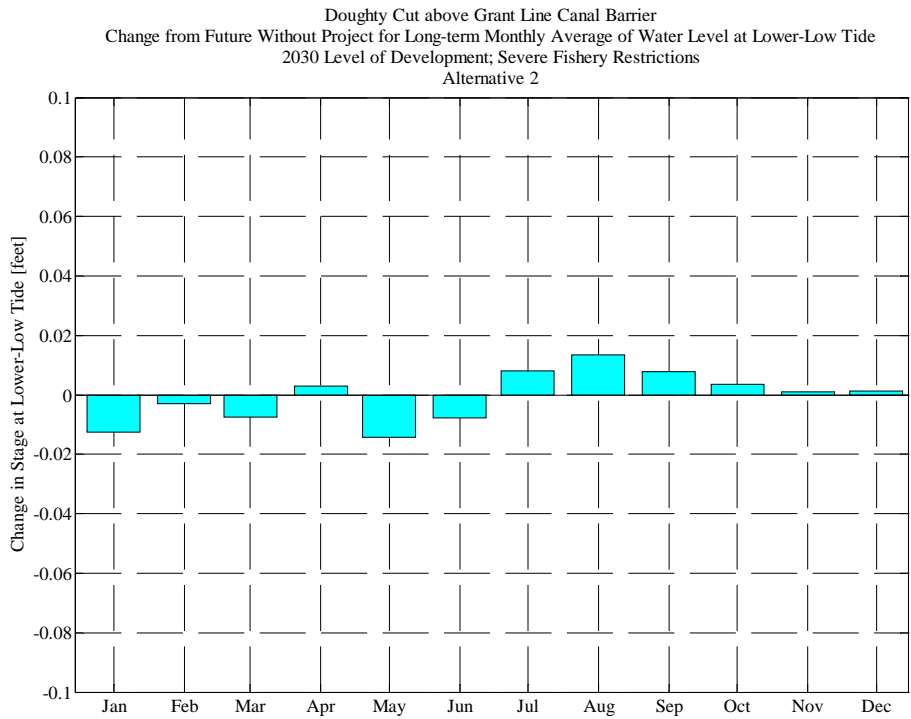
## Alternative 2





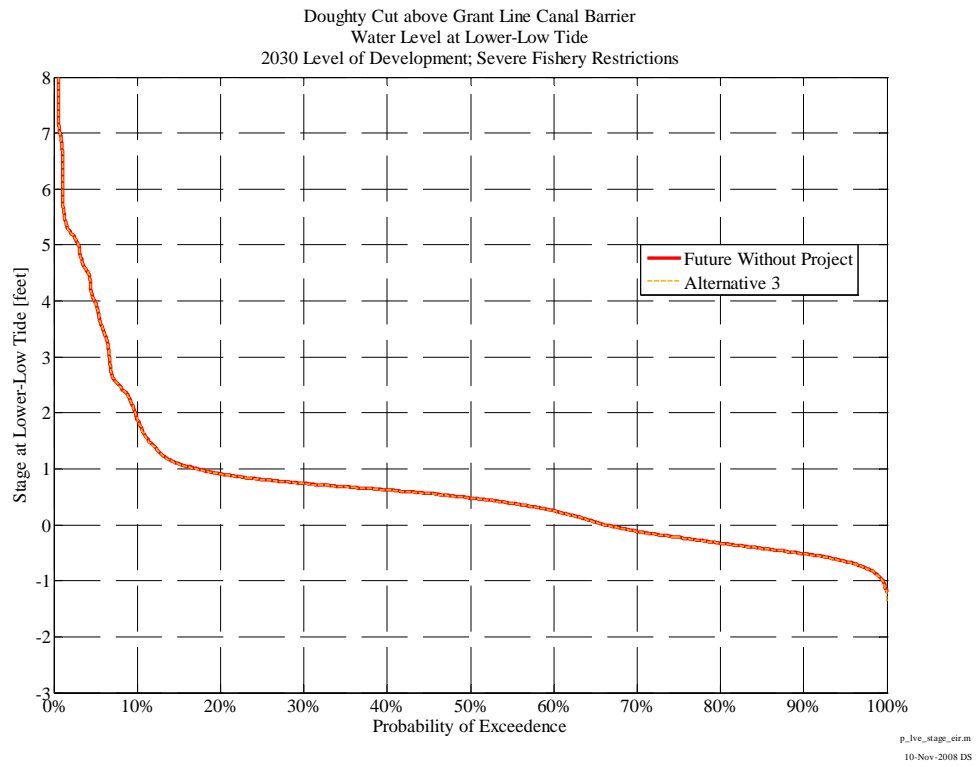
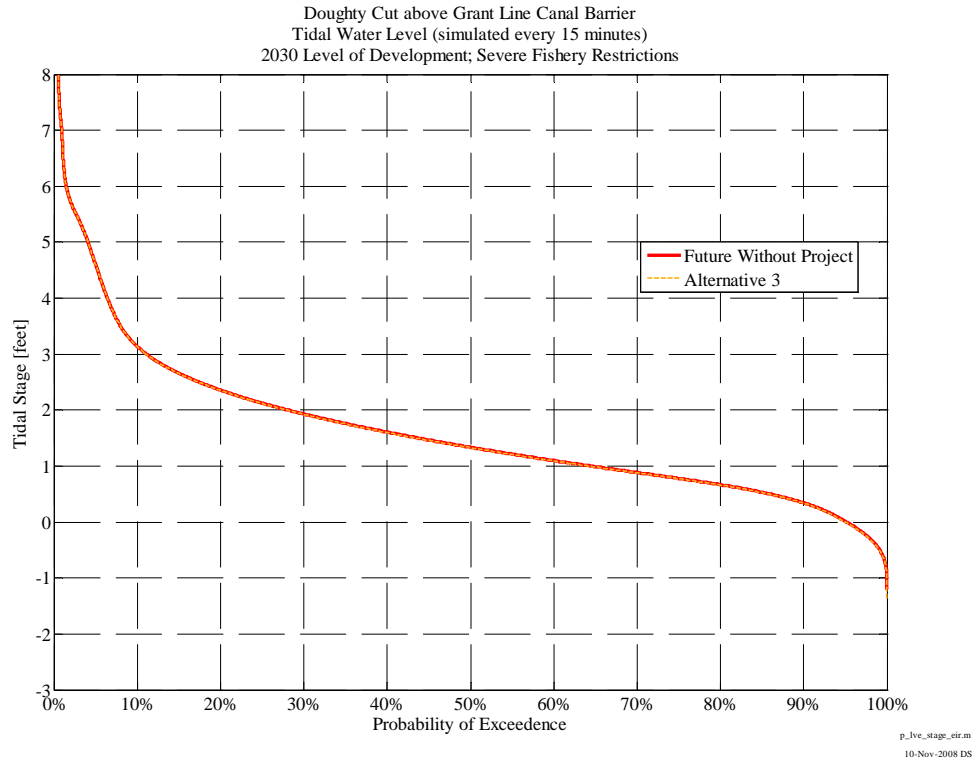


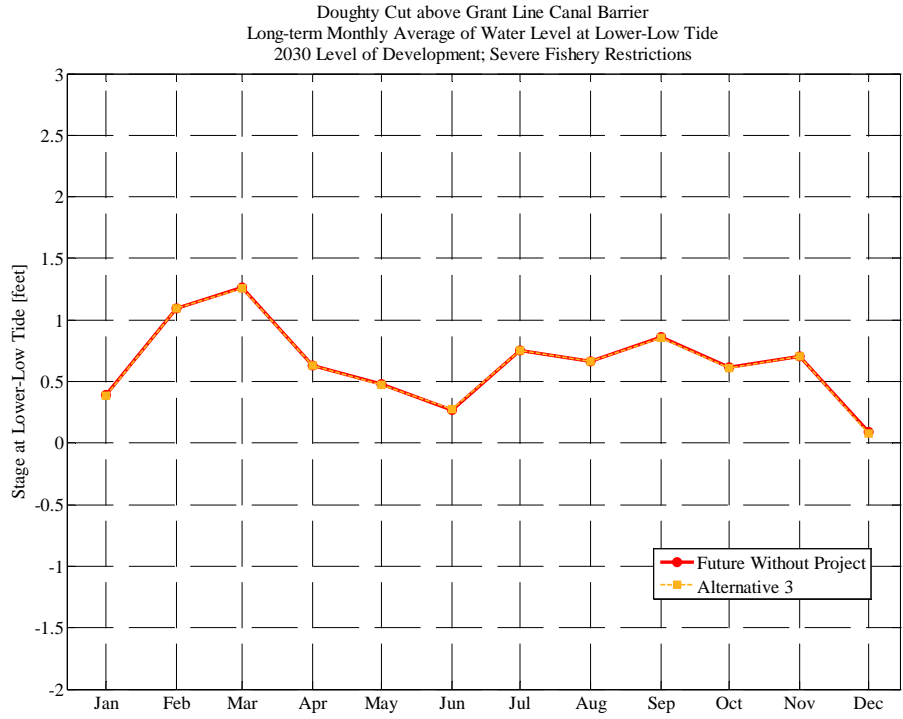
p\_lve\_stage\_eir.m  
 10-Nov-2008 DS



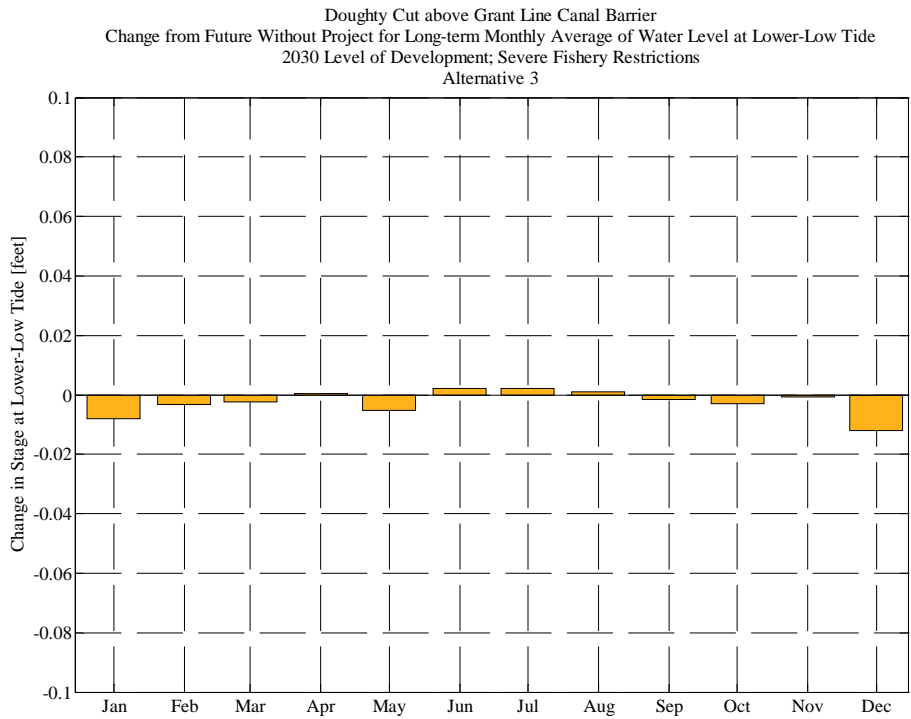
p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

### Alternative 3



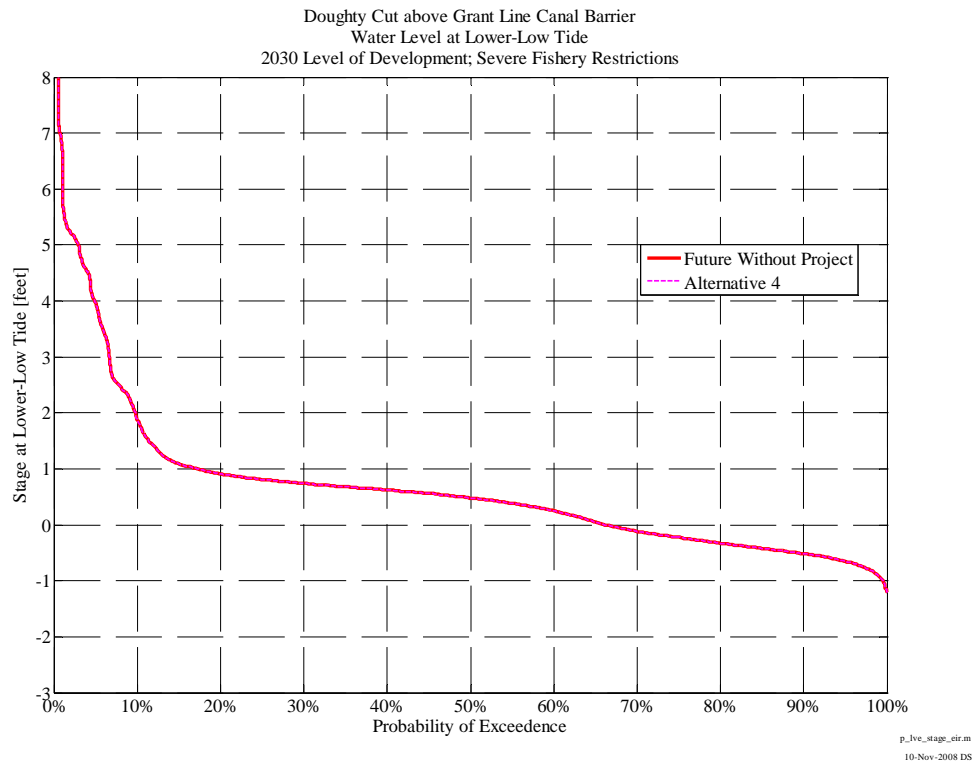
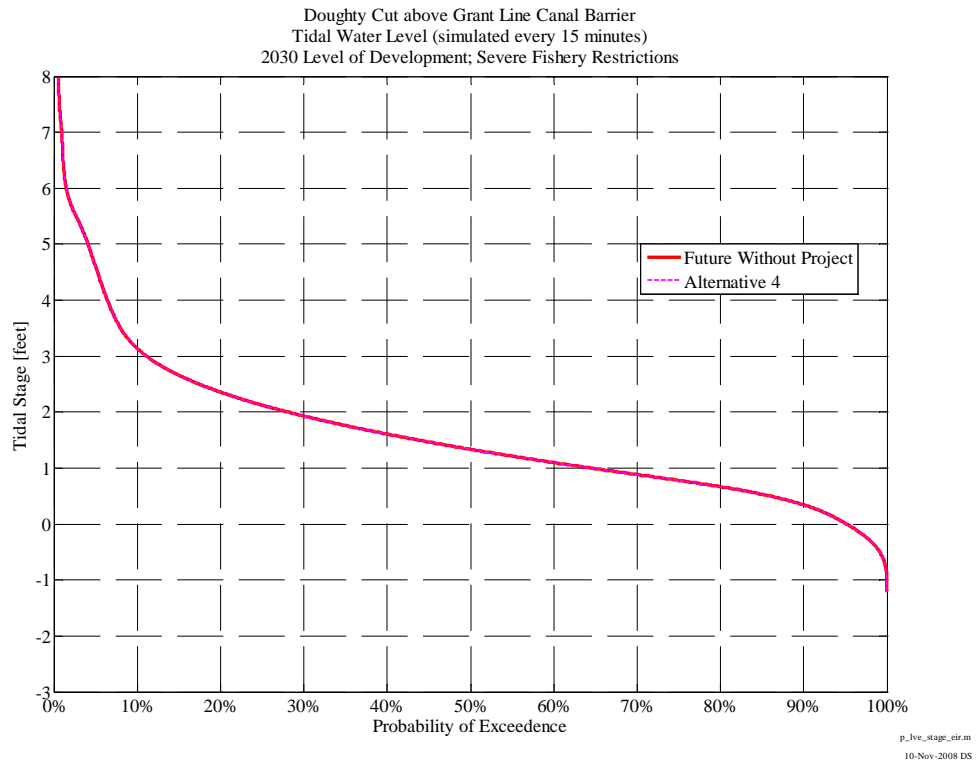


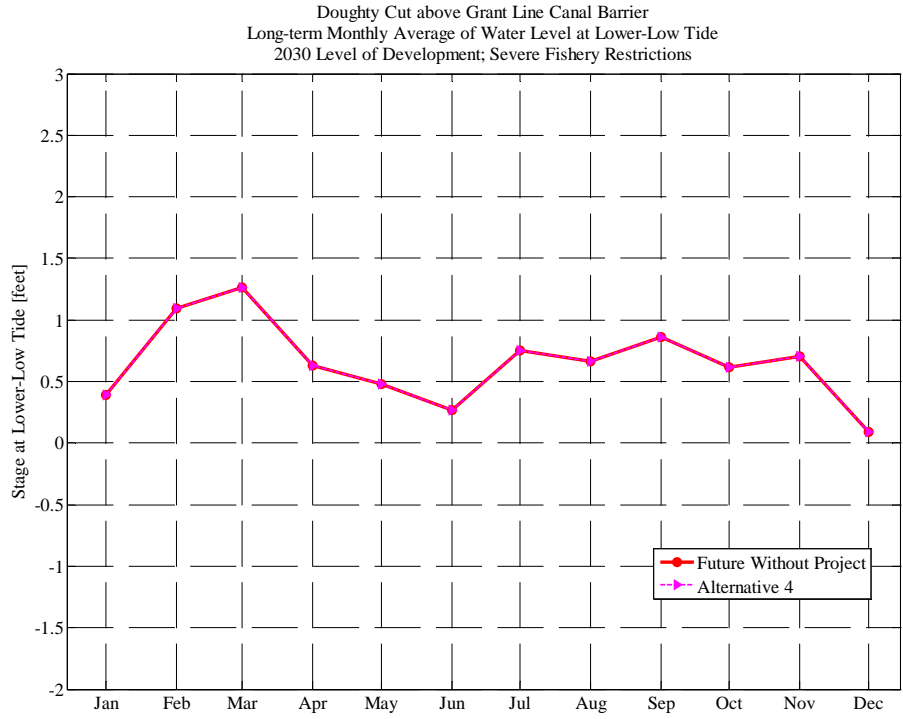
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



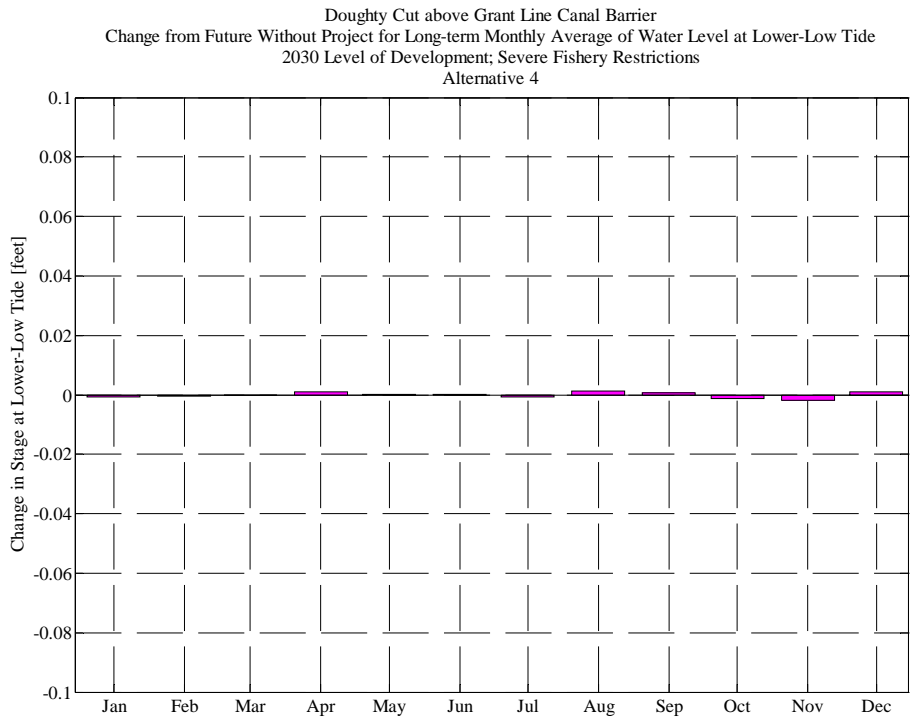
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 4





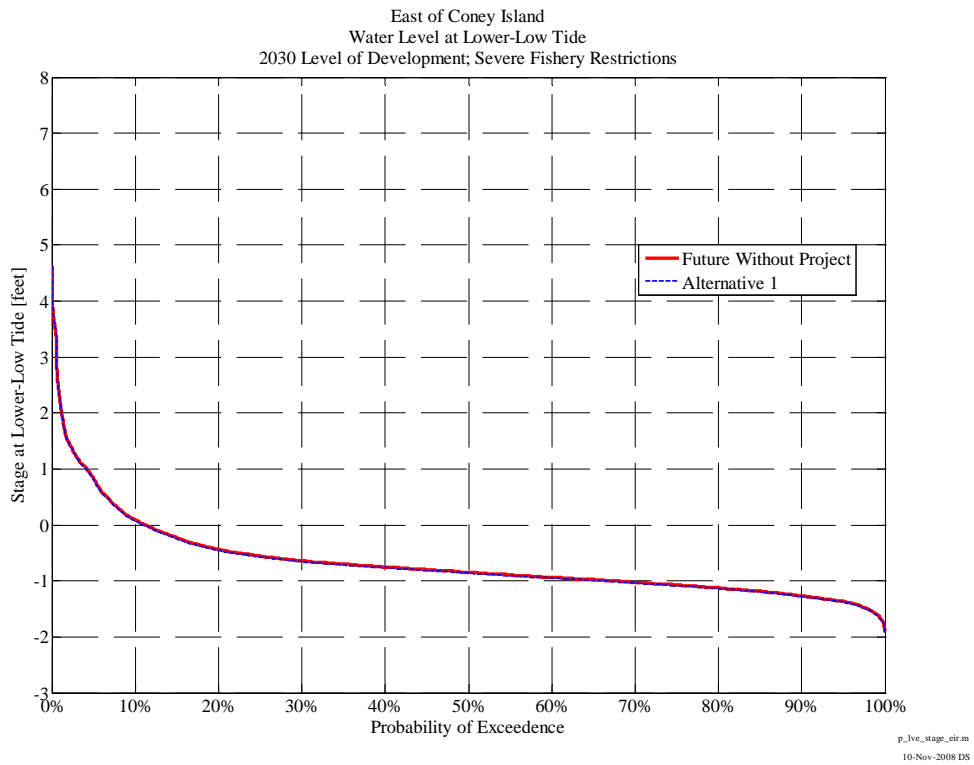
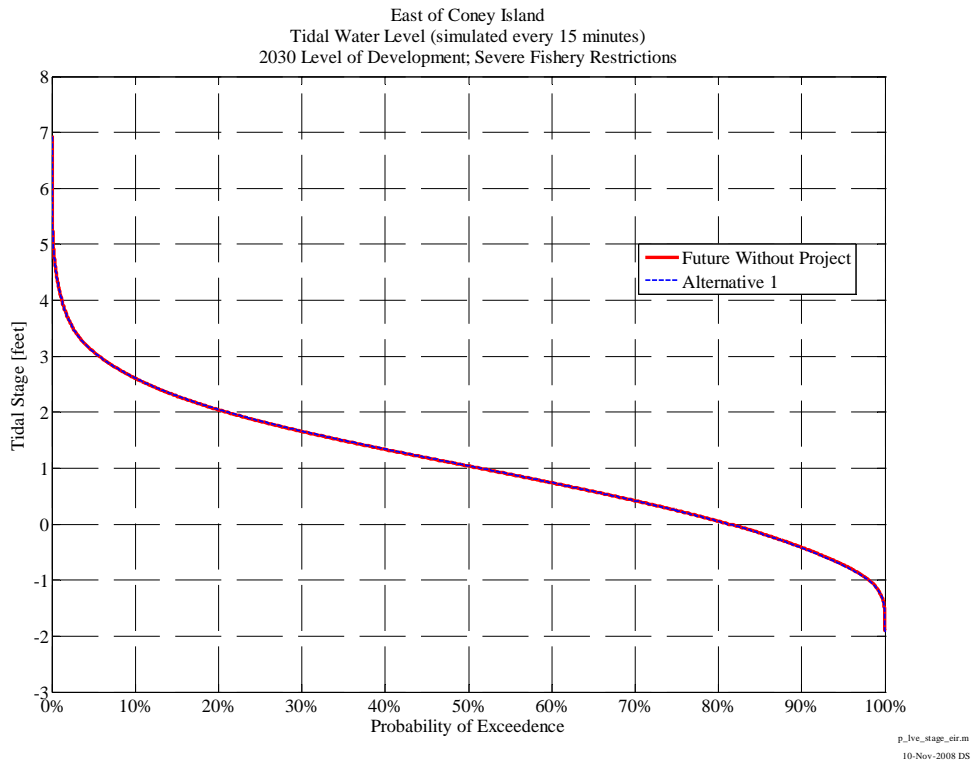
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

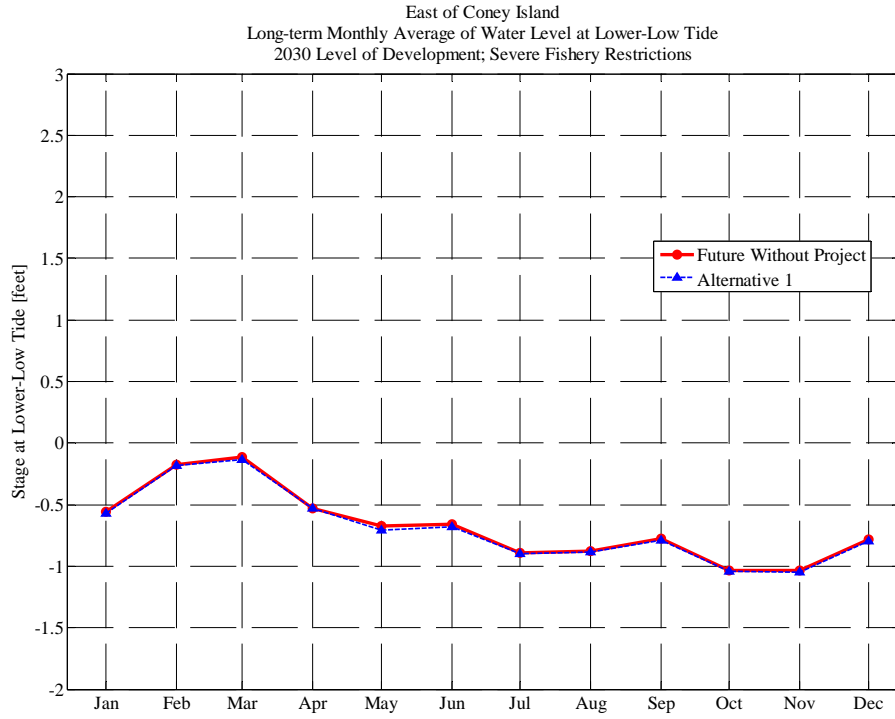


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

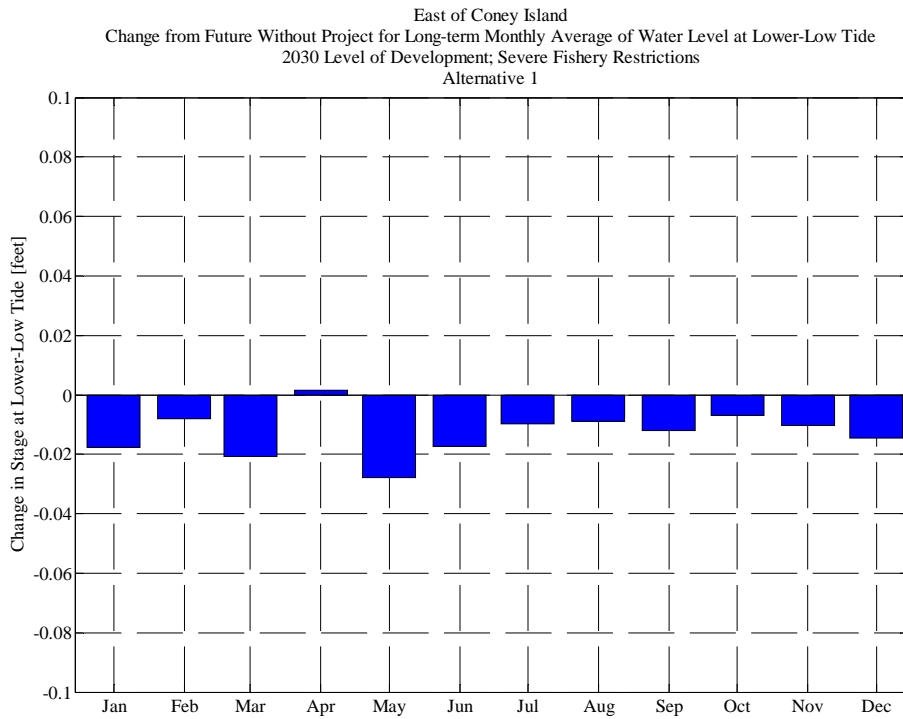
# East of Coney Island

## Alternative 1



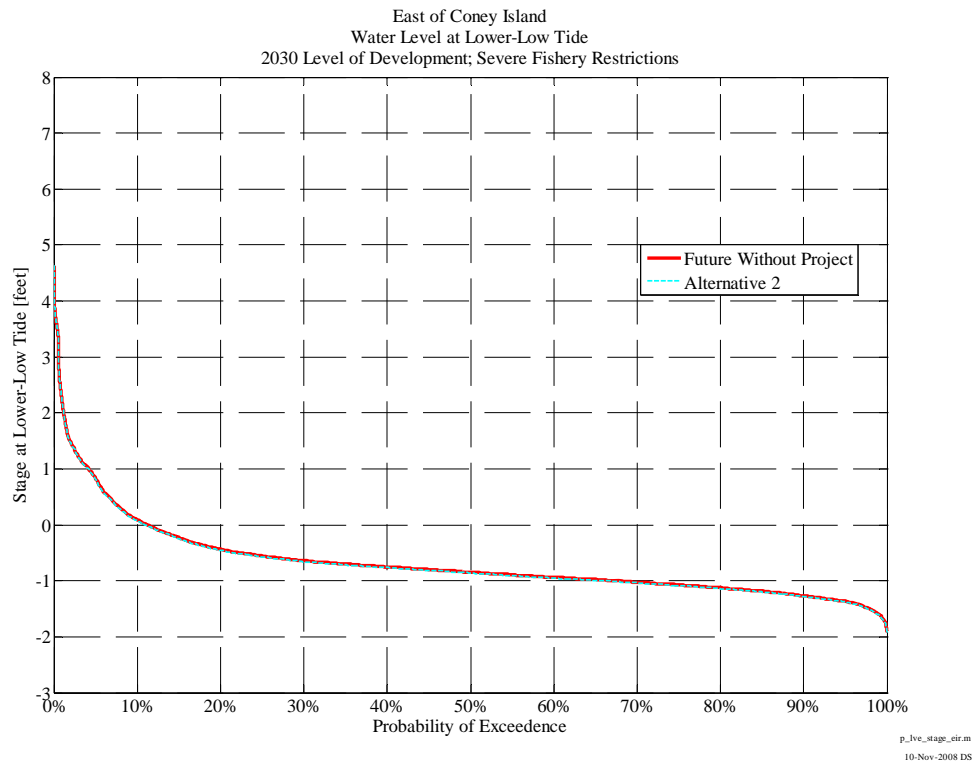
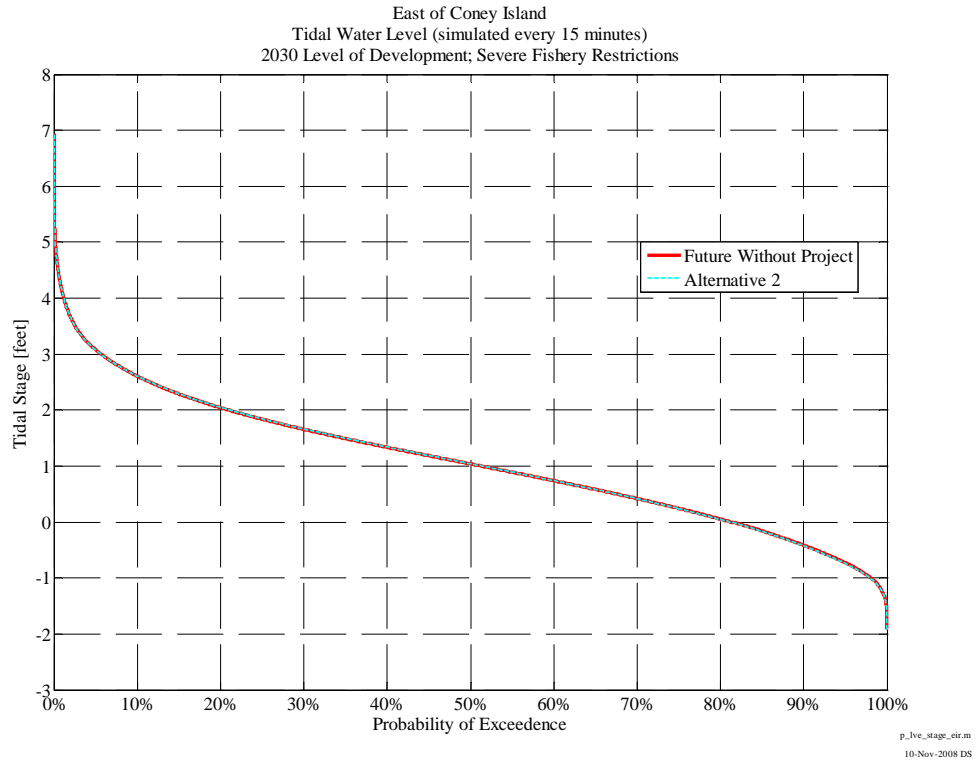


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

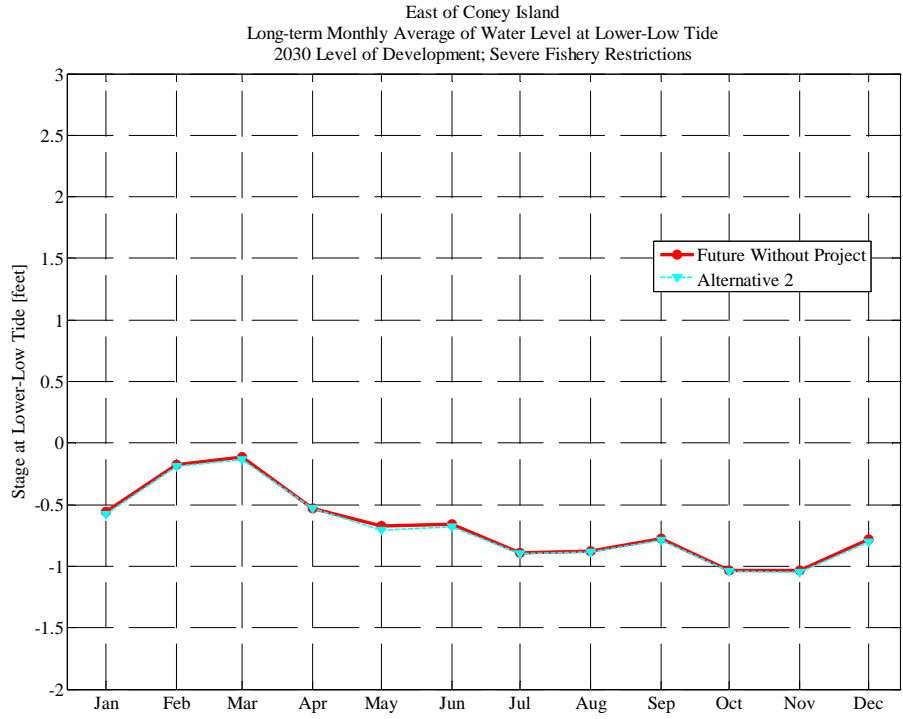


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

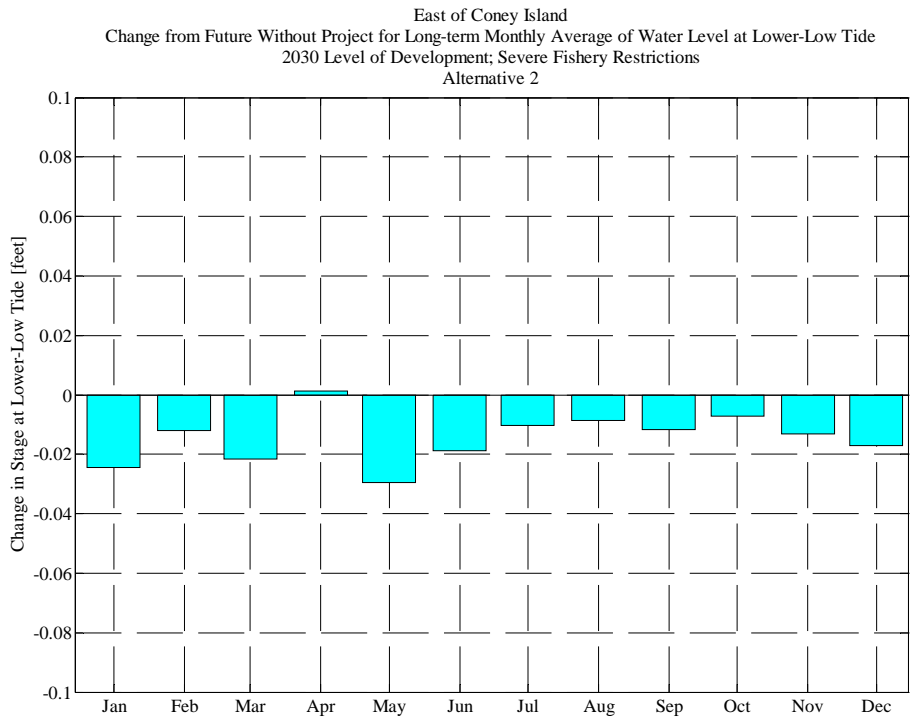
## Alternative 2





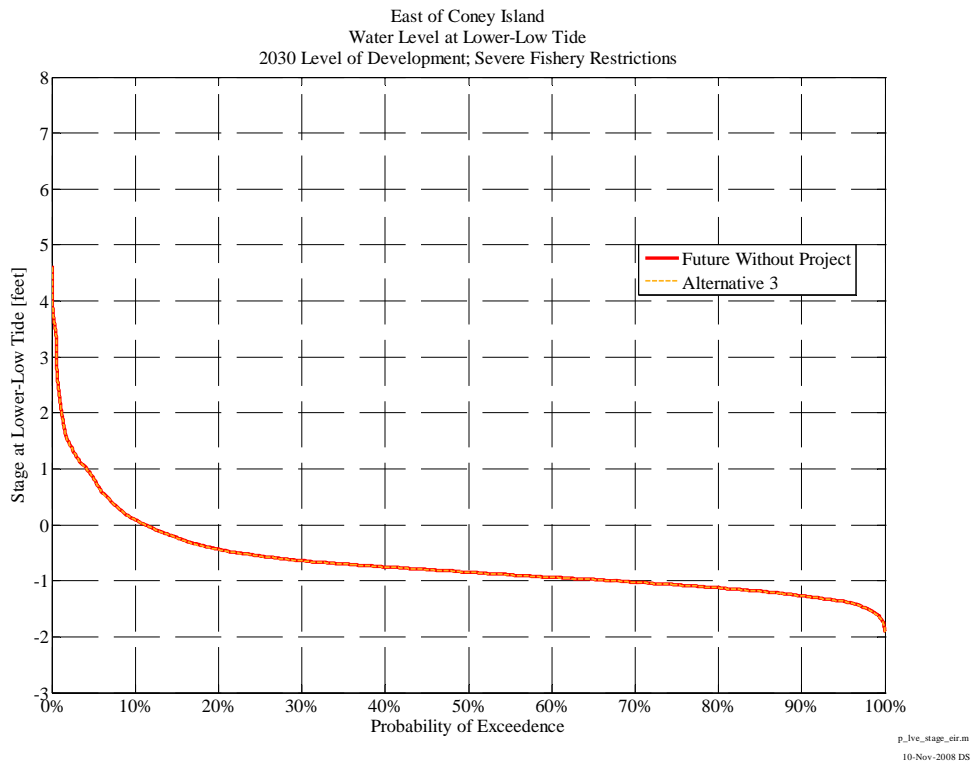
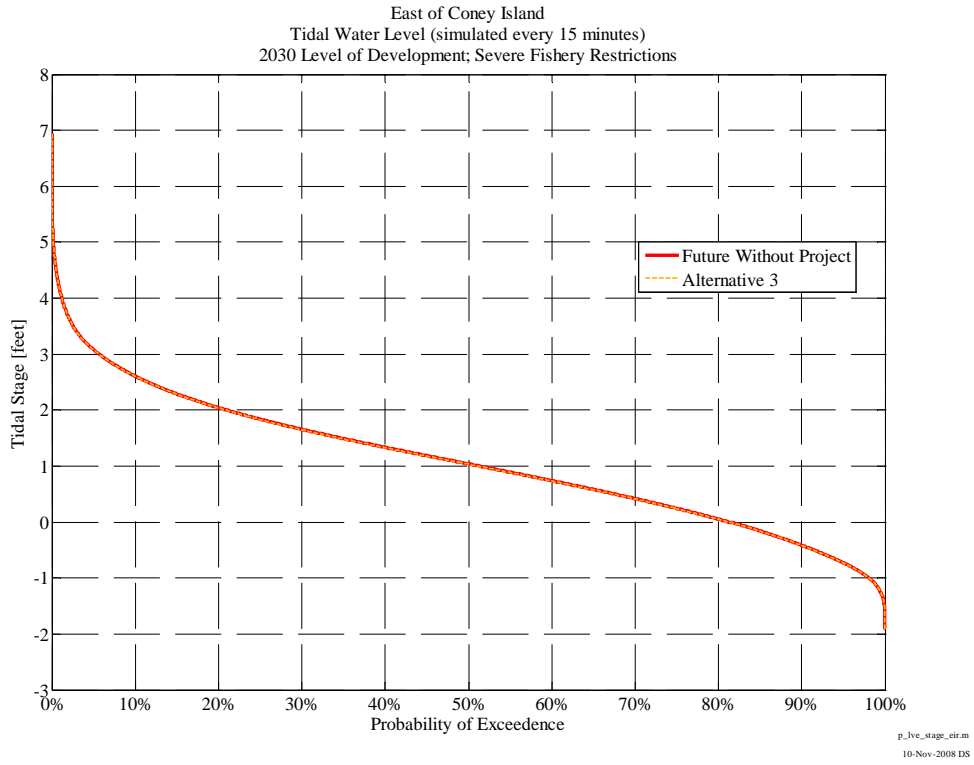


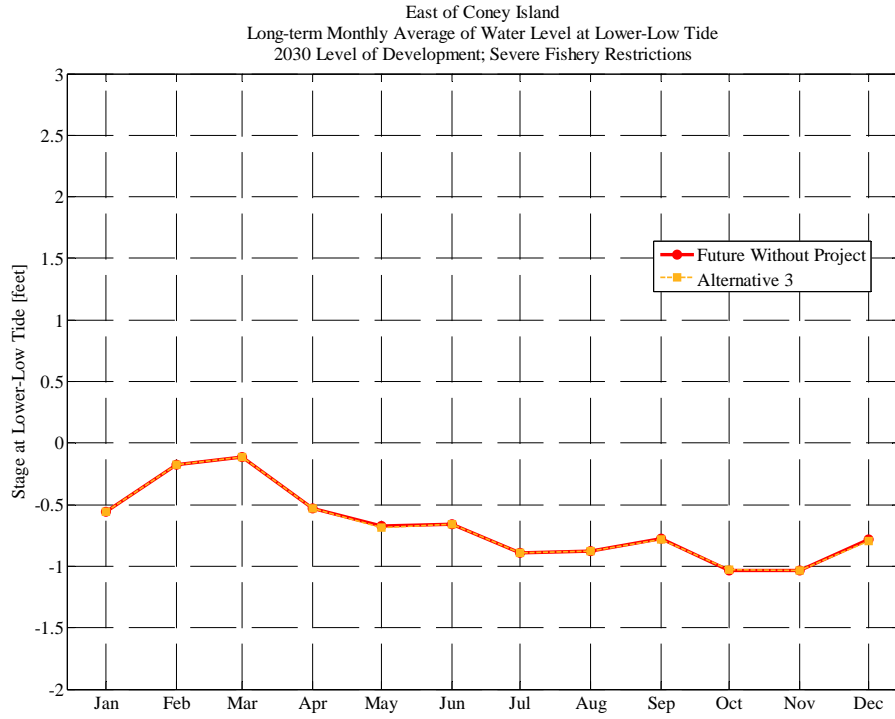
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



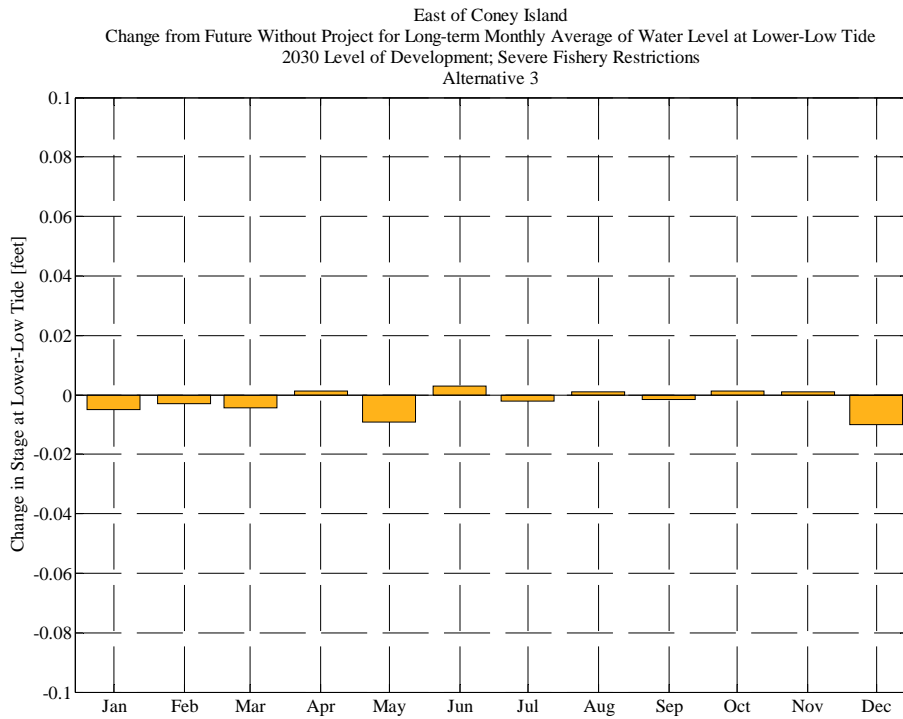
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



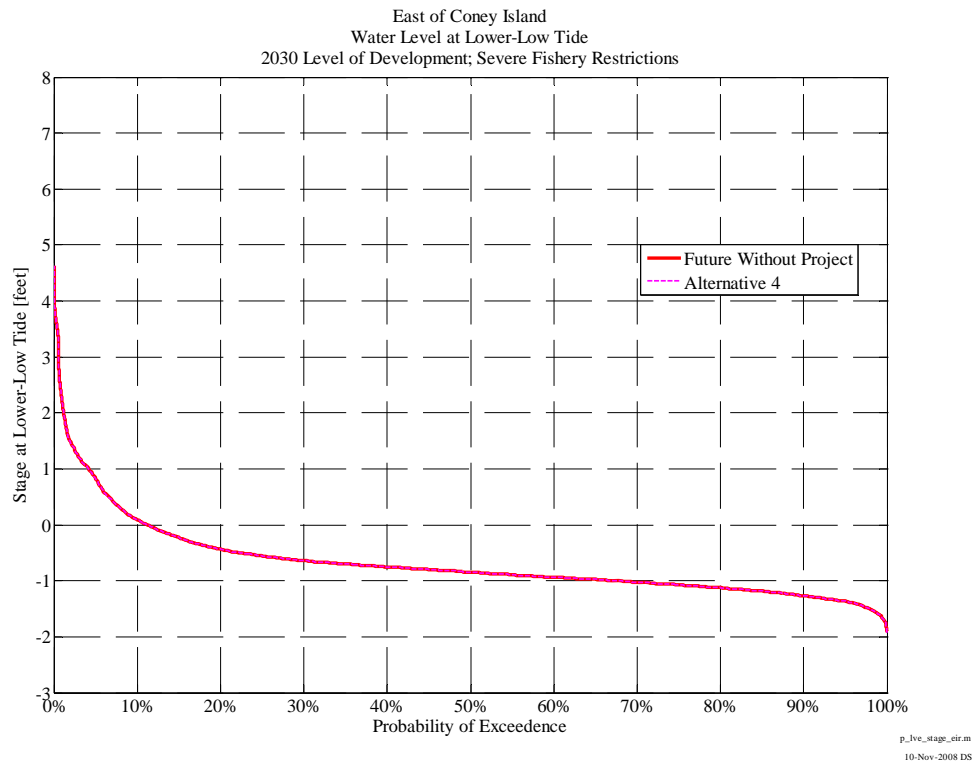
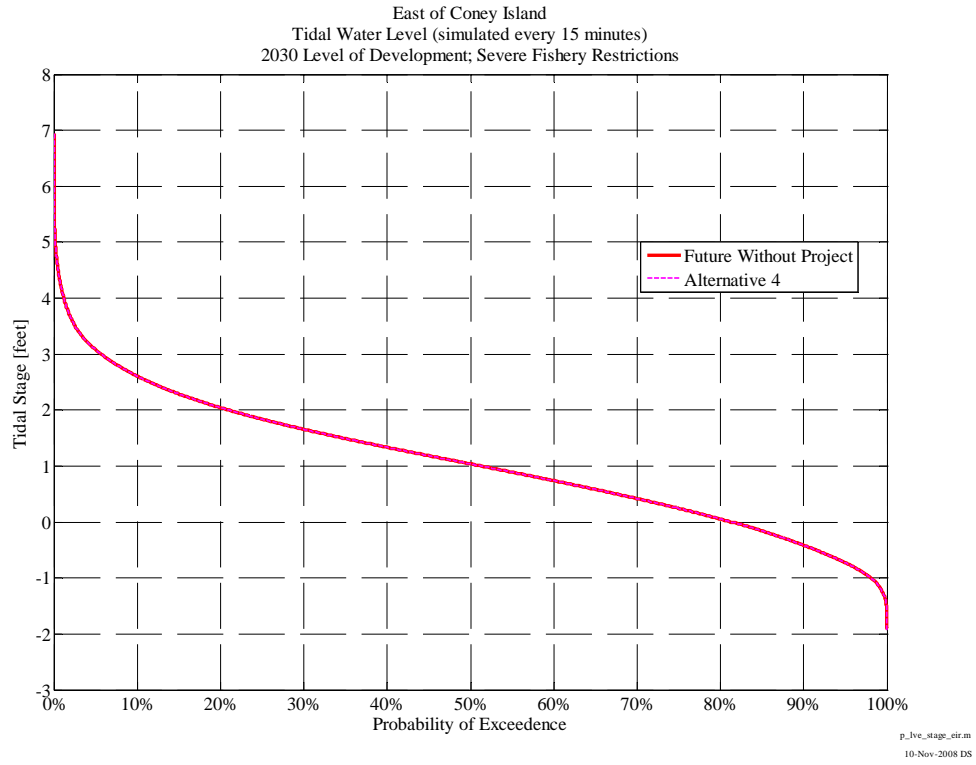


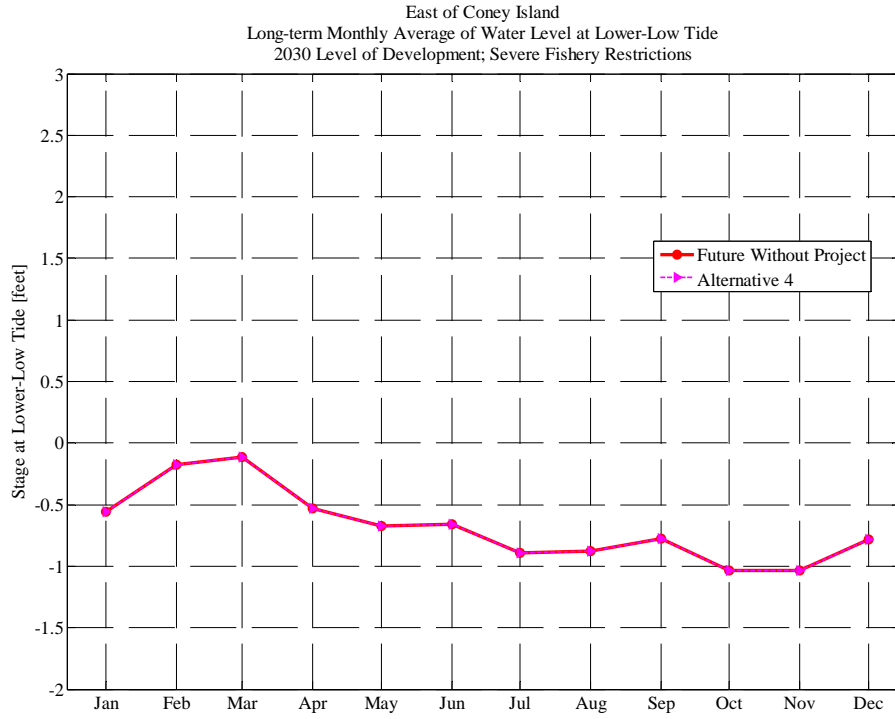
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



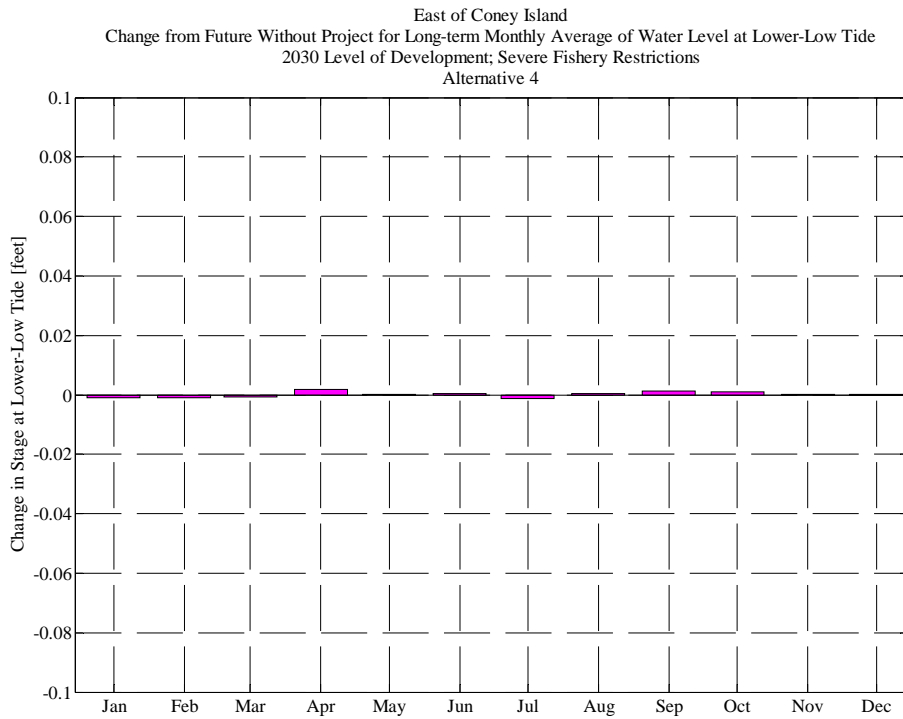
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10-Nov-2008 DS

### Alternative 4





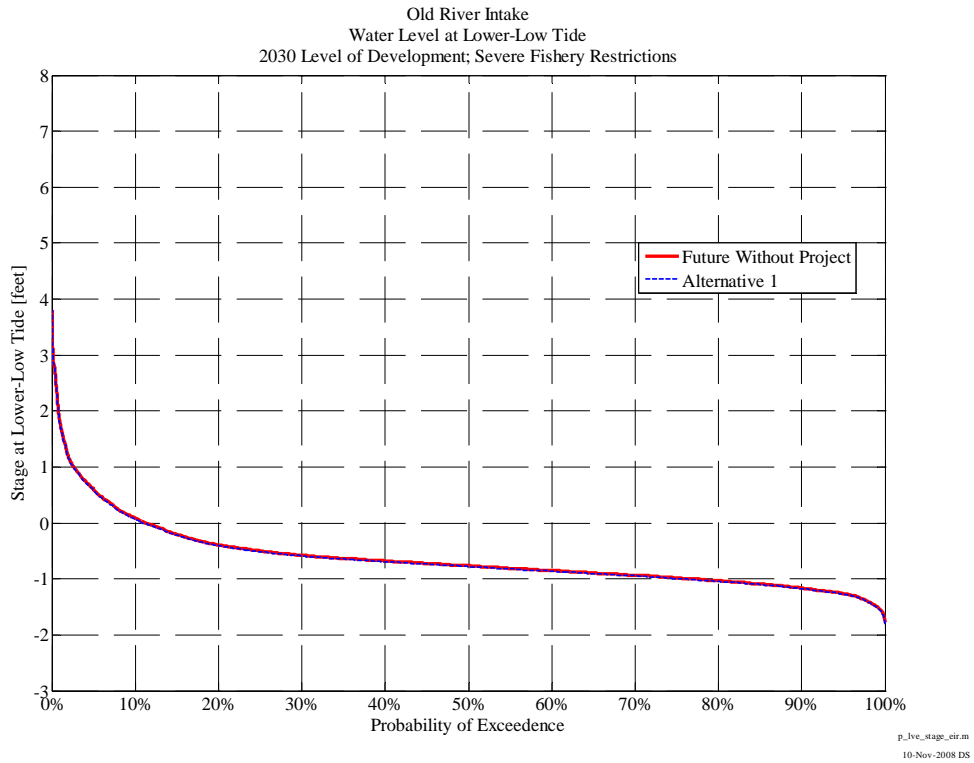
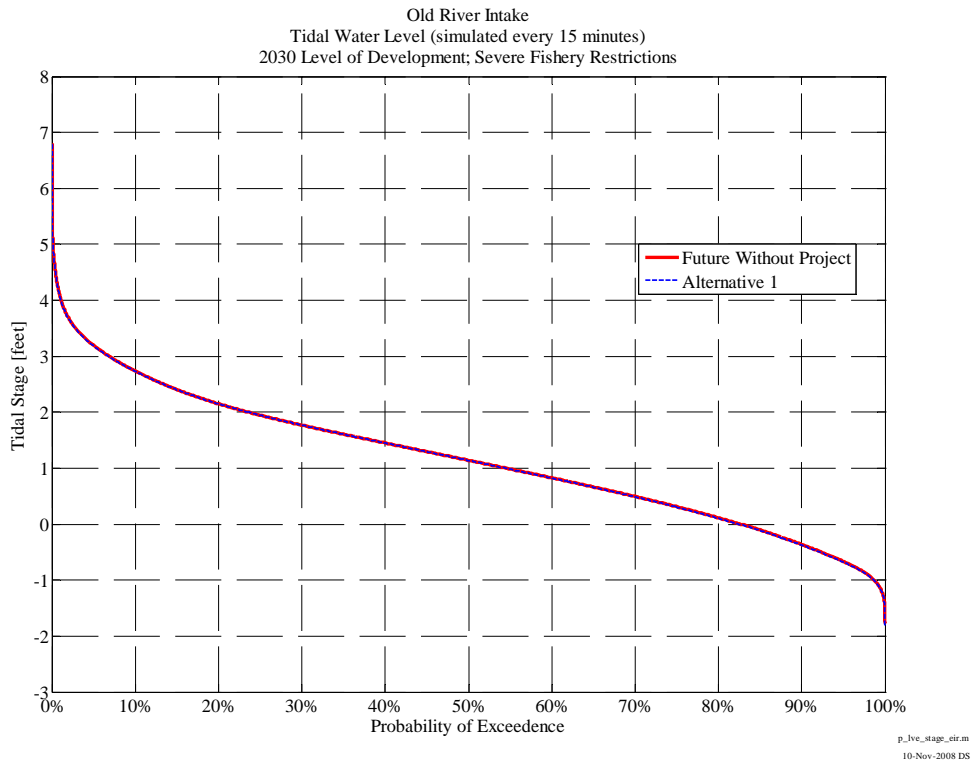
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10-Nov-2008 DS

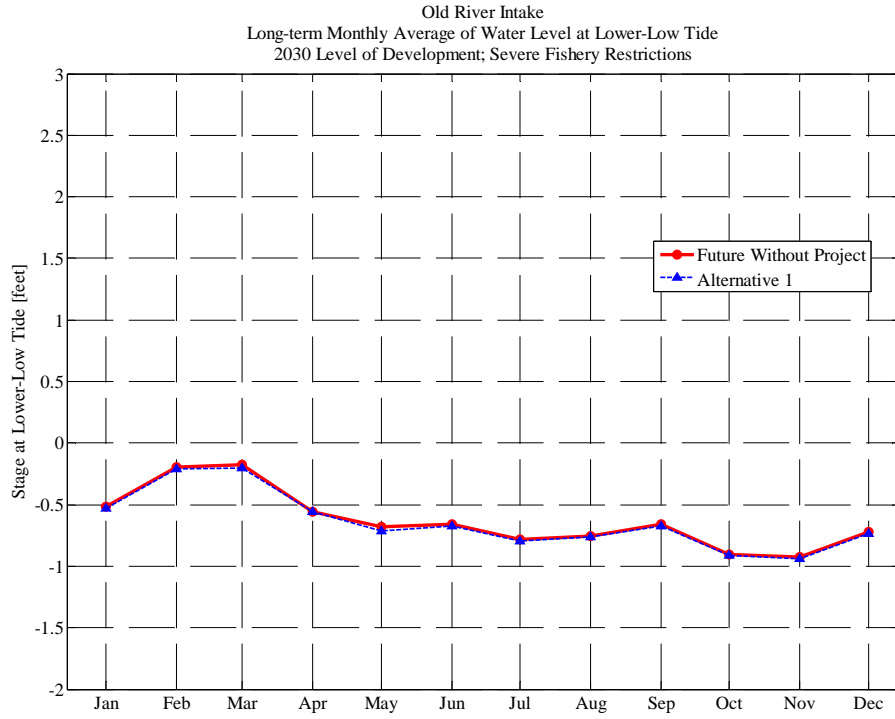


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

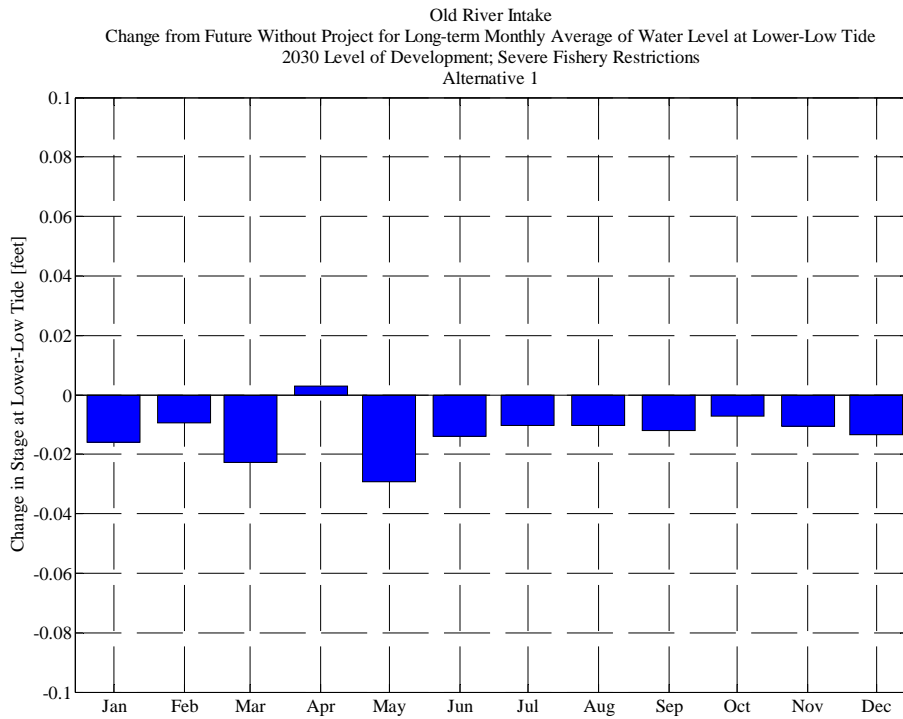
# Old River Intake

## Alternative 1



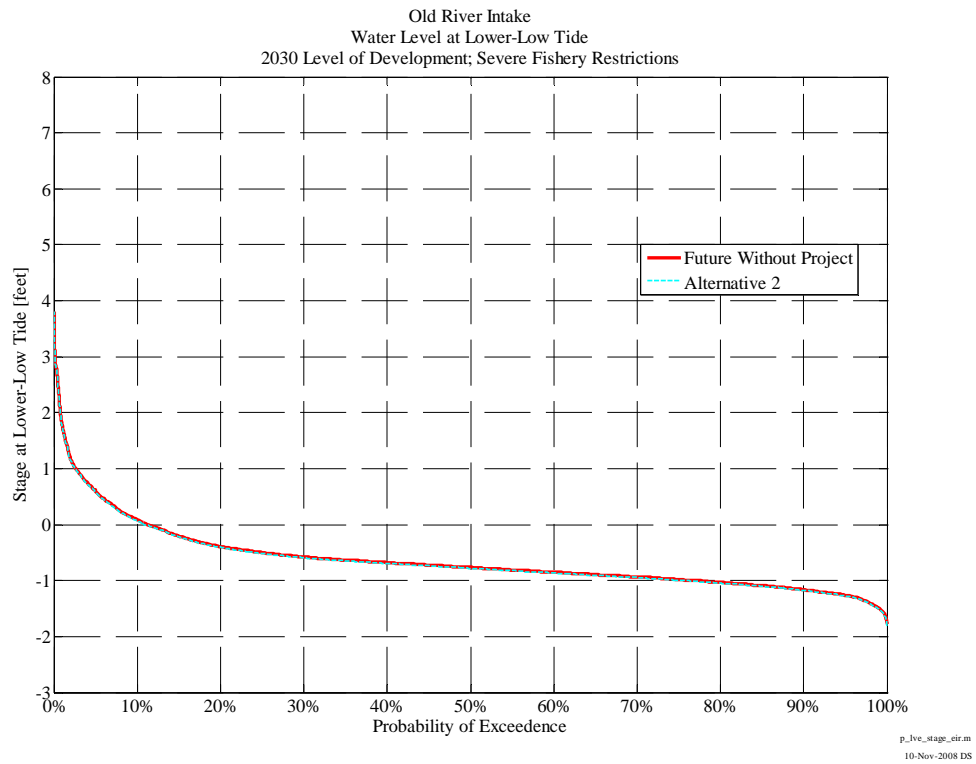
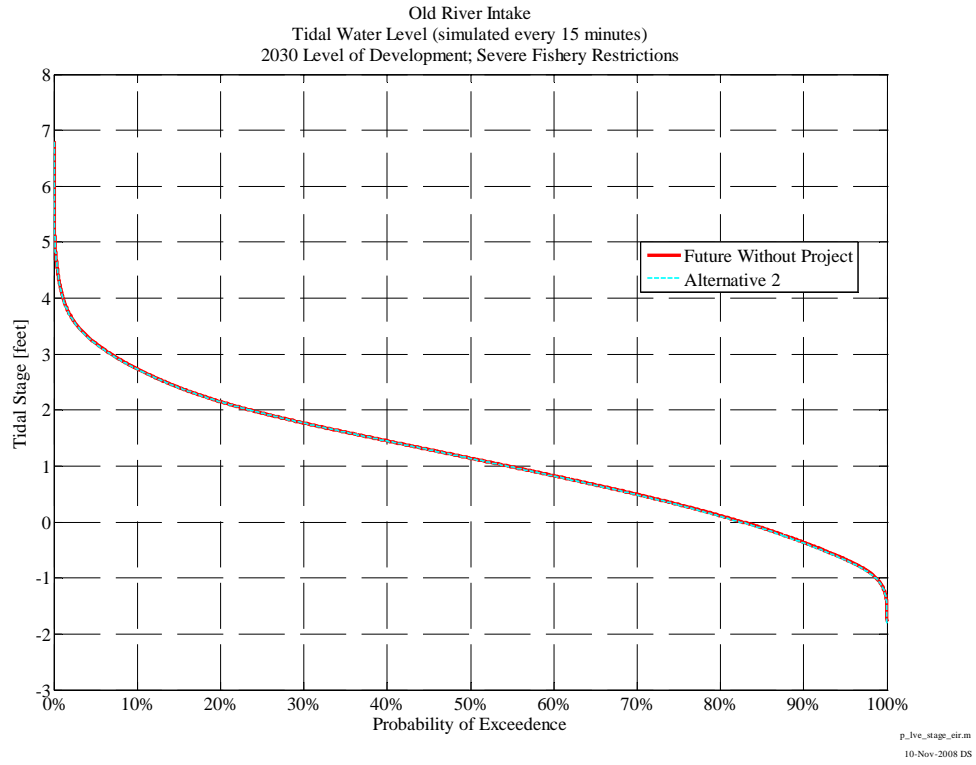


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10-Nov-2008 DS

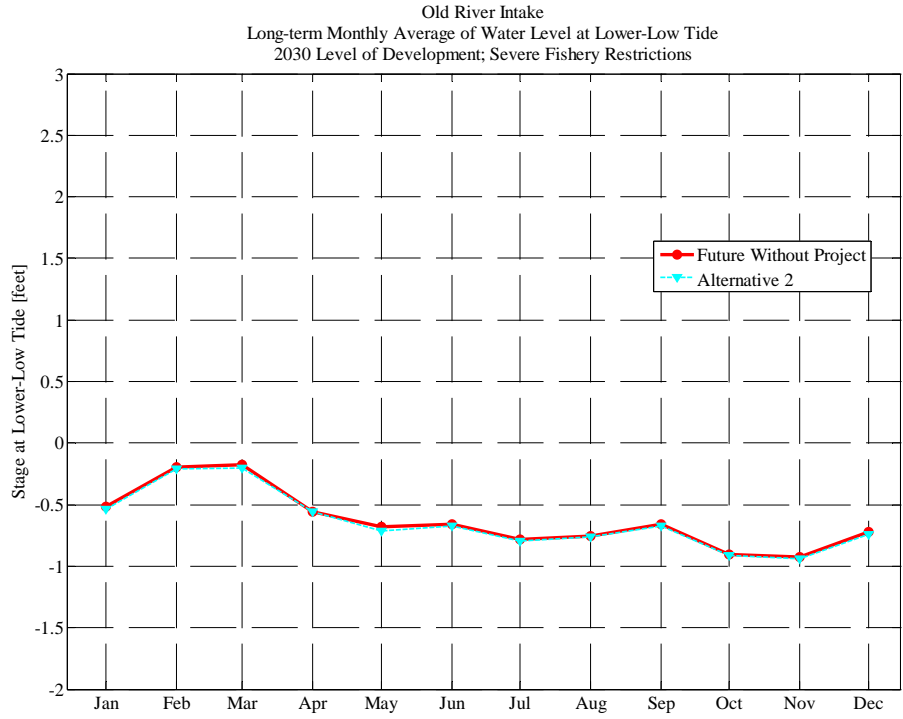


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

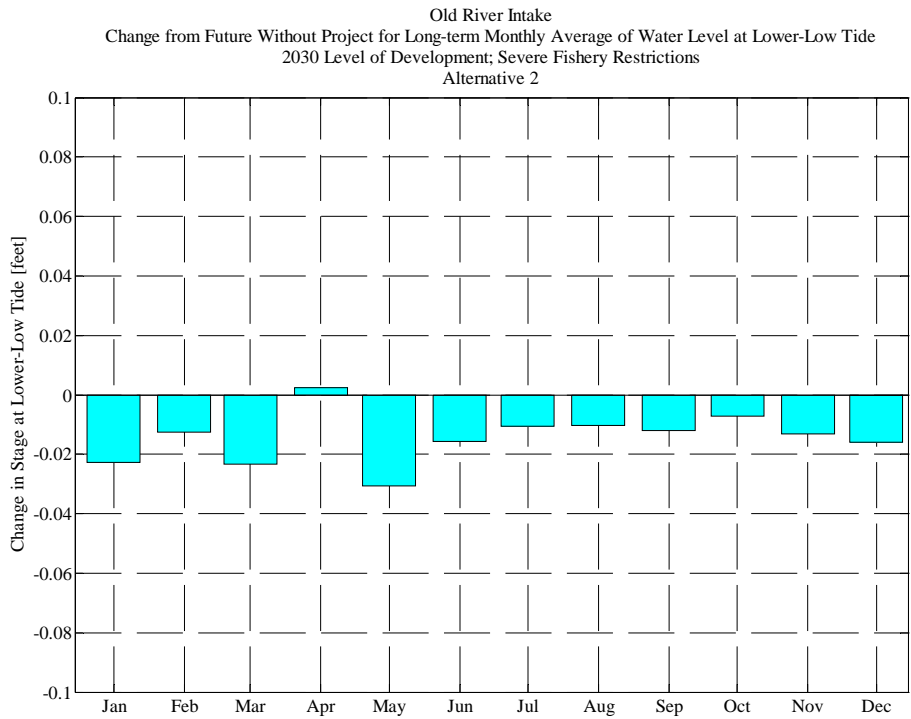
## Alternative 2





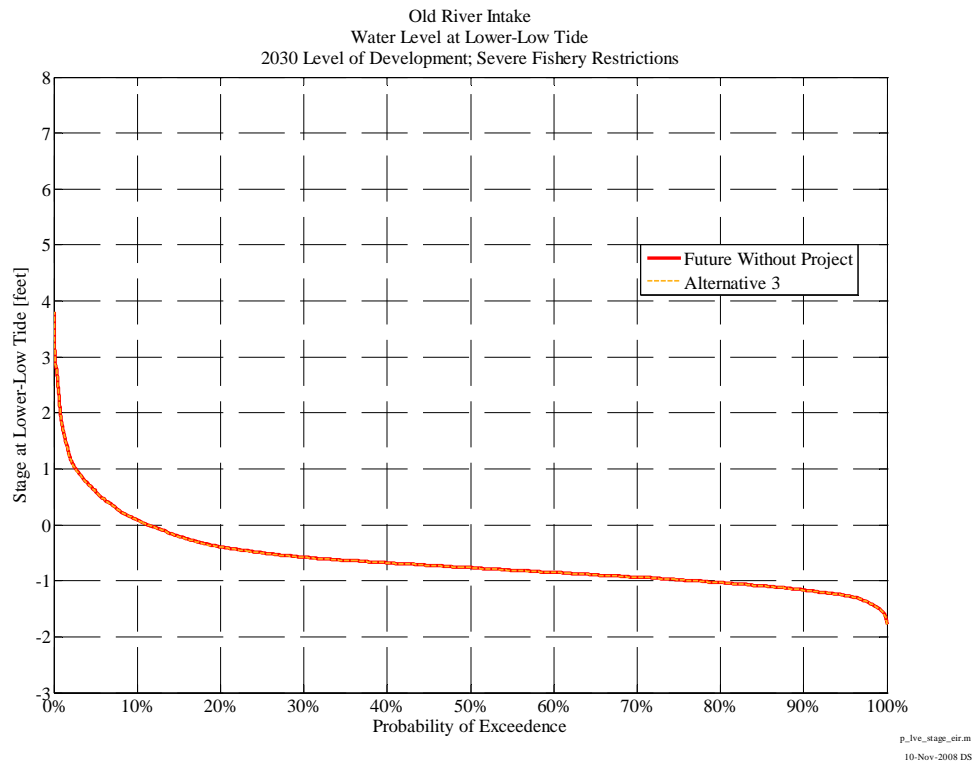
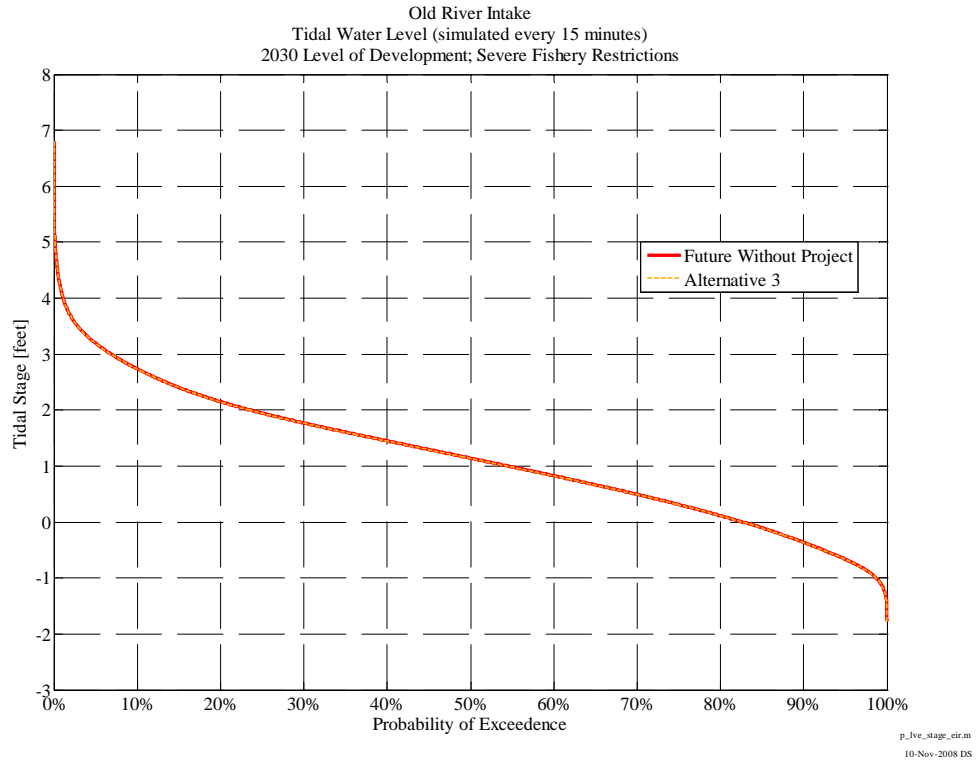


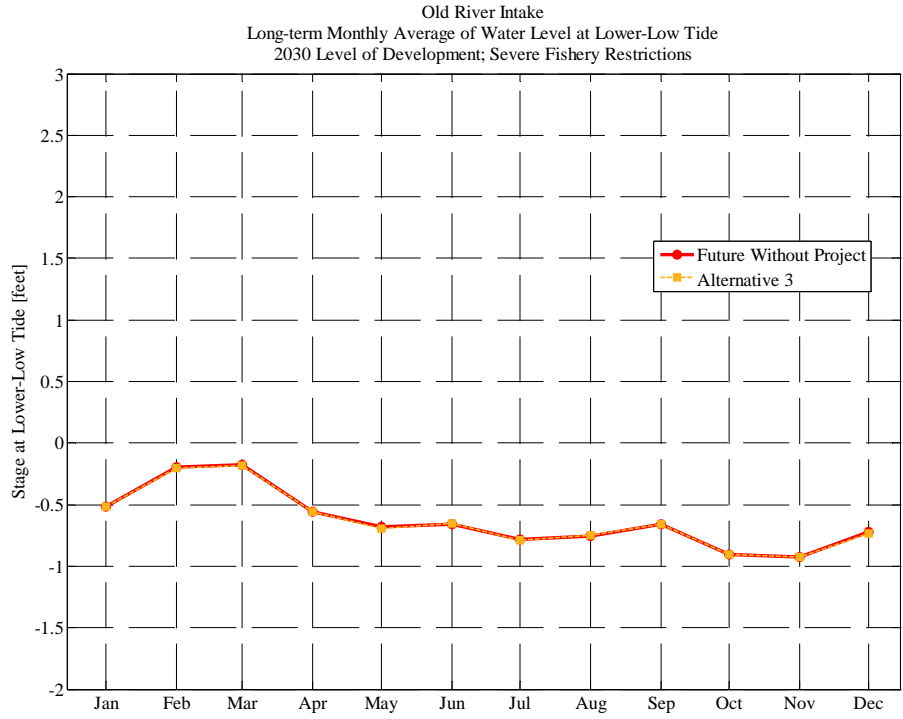
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



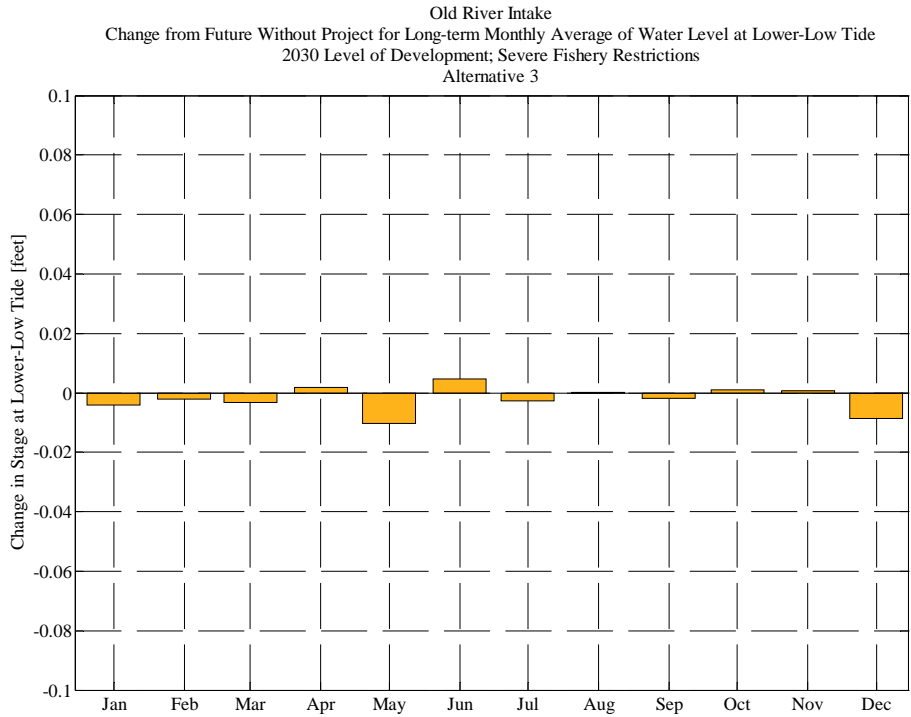
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



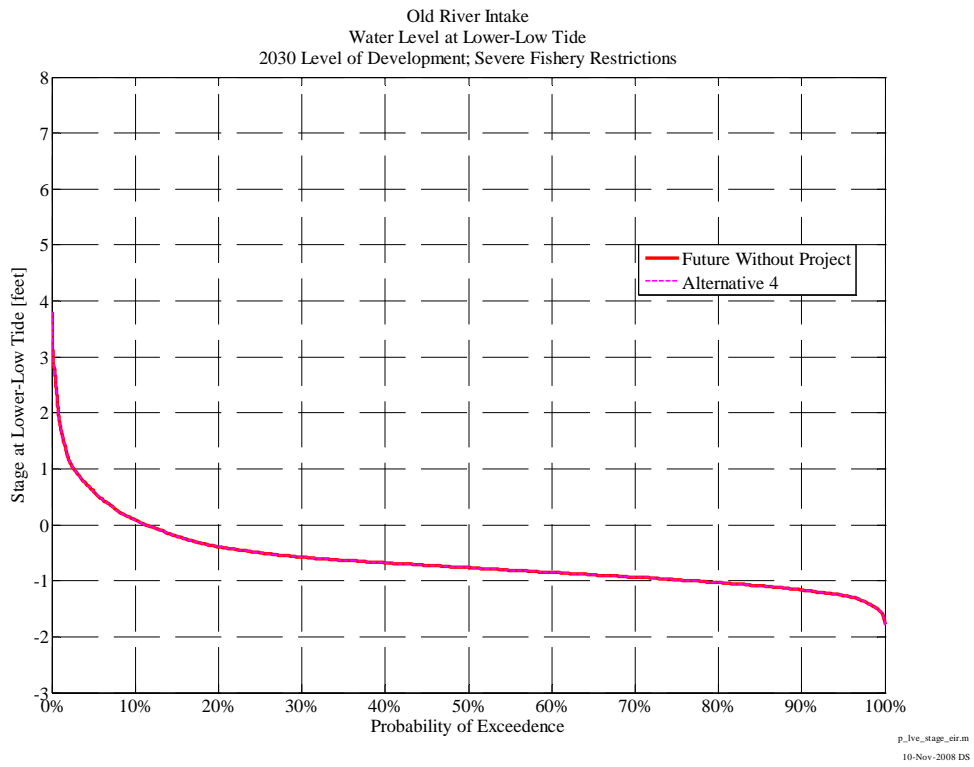
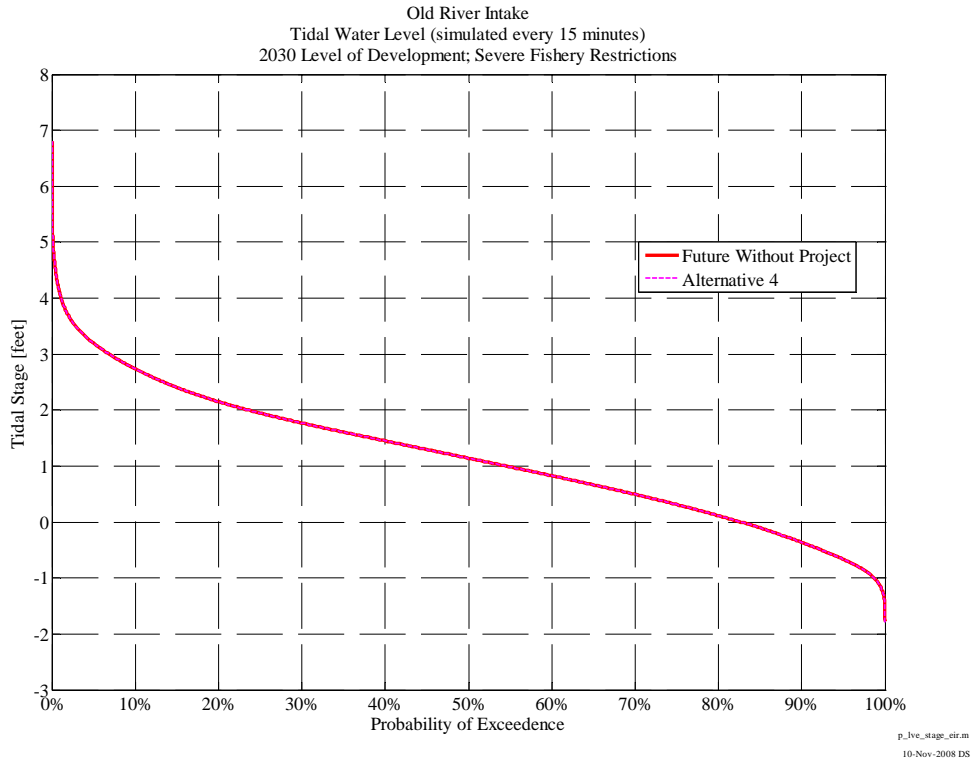


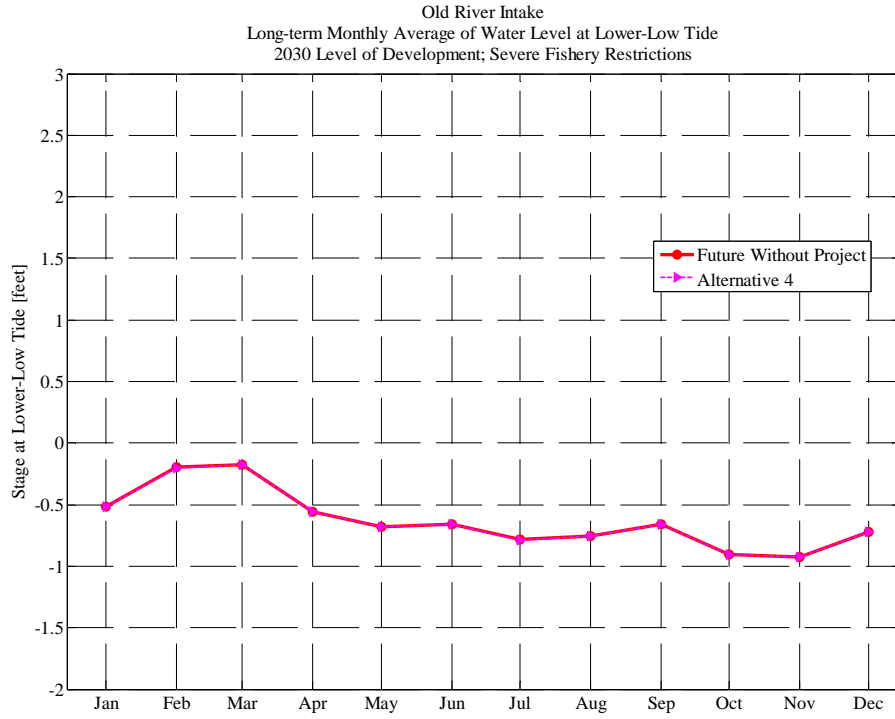
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10-Nov-2008 DS



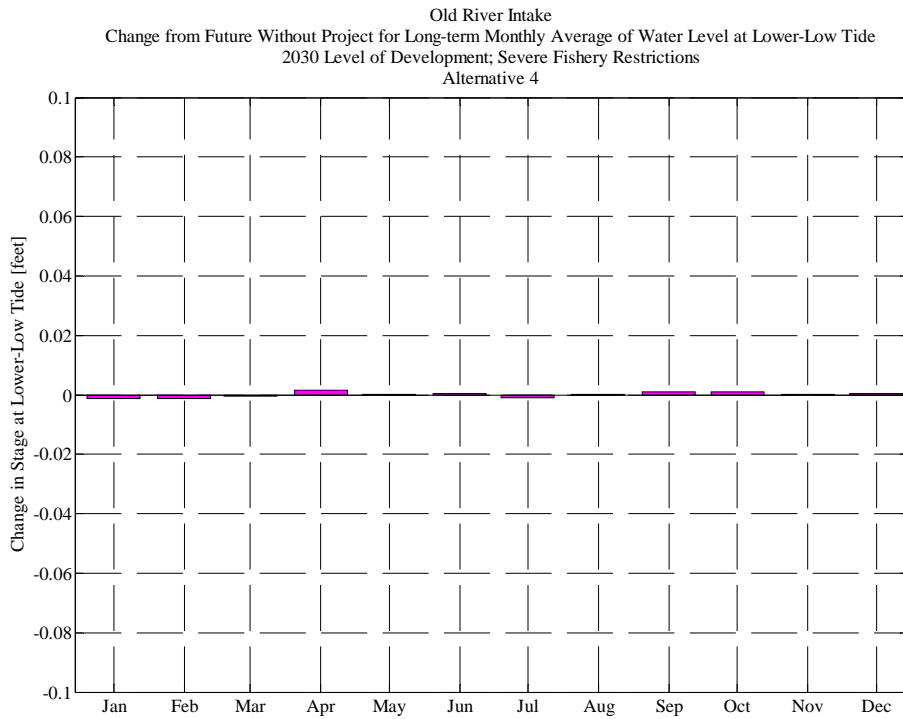
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10-Nov-2008 DS

### Alternative 4





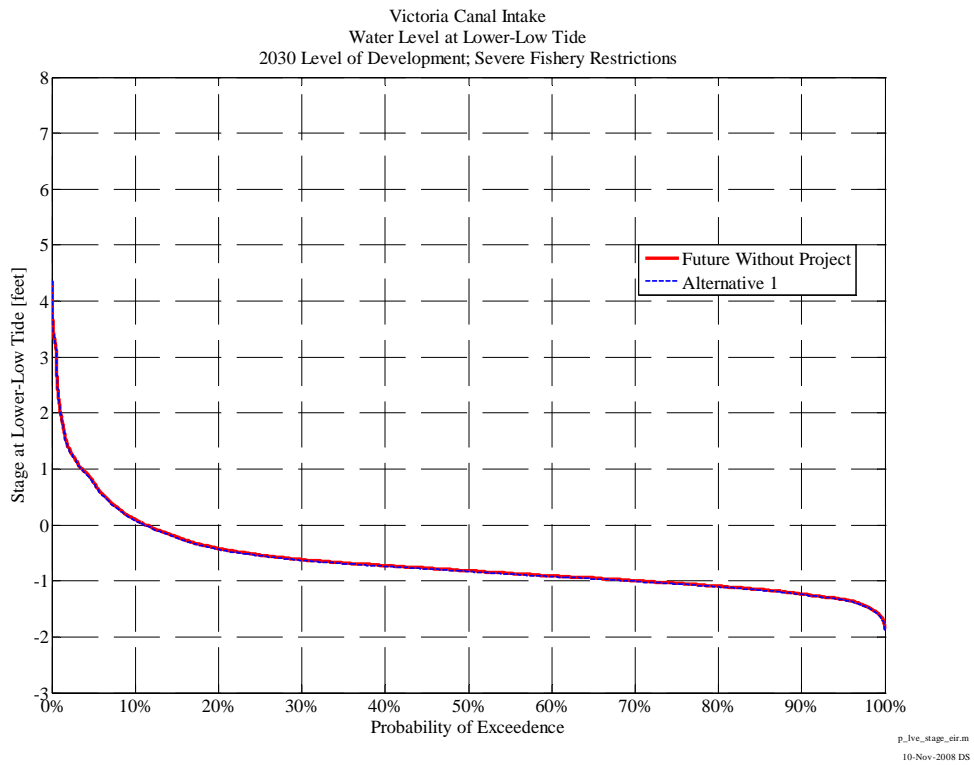
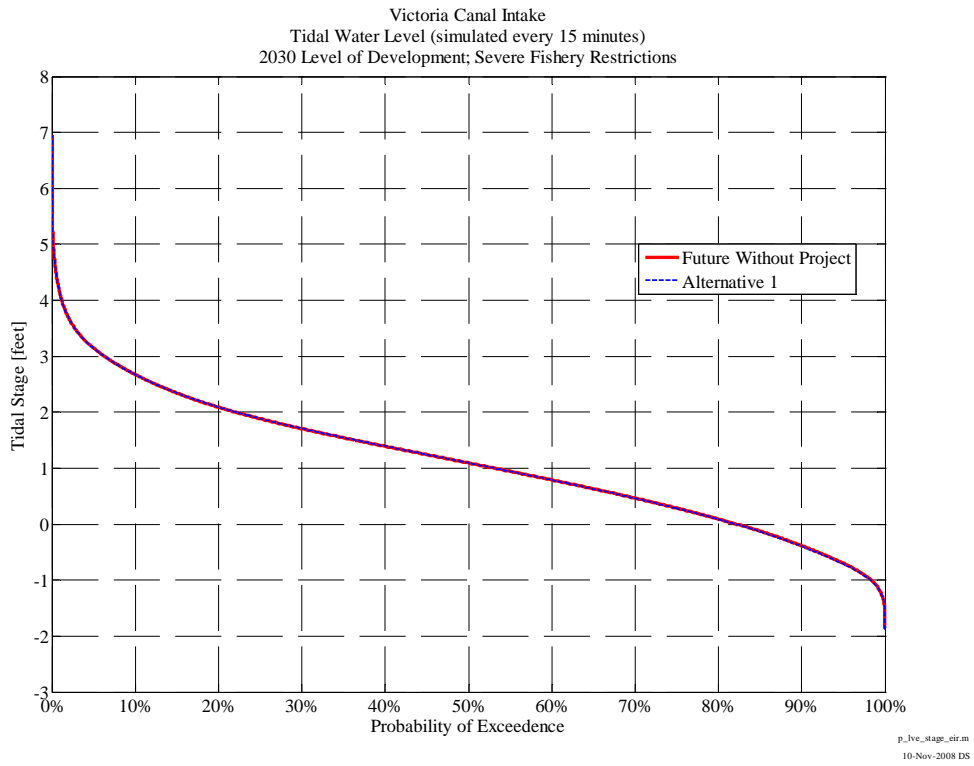
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10-Nov-2008 DS

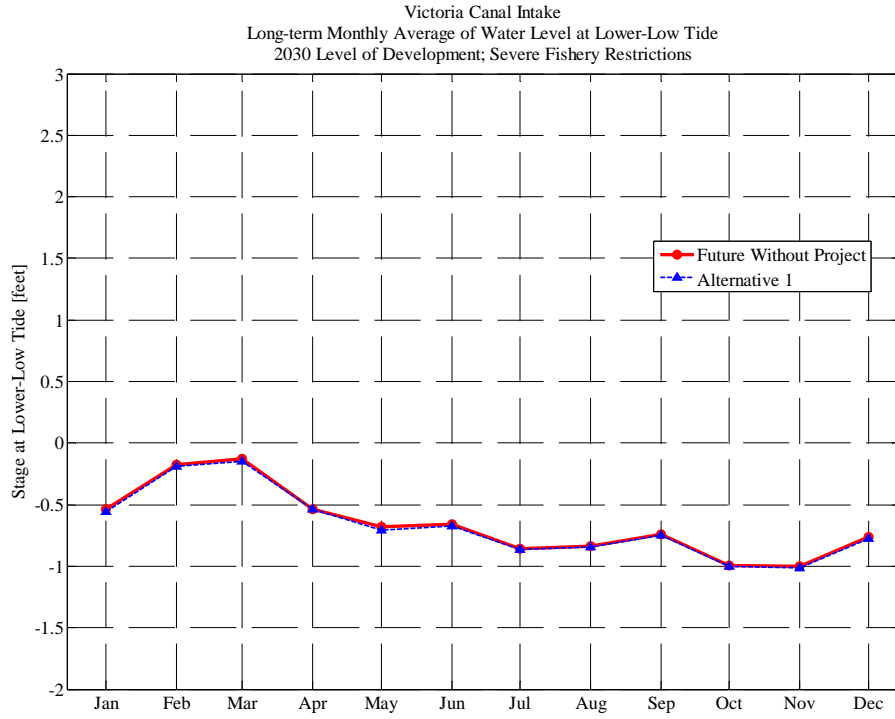


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

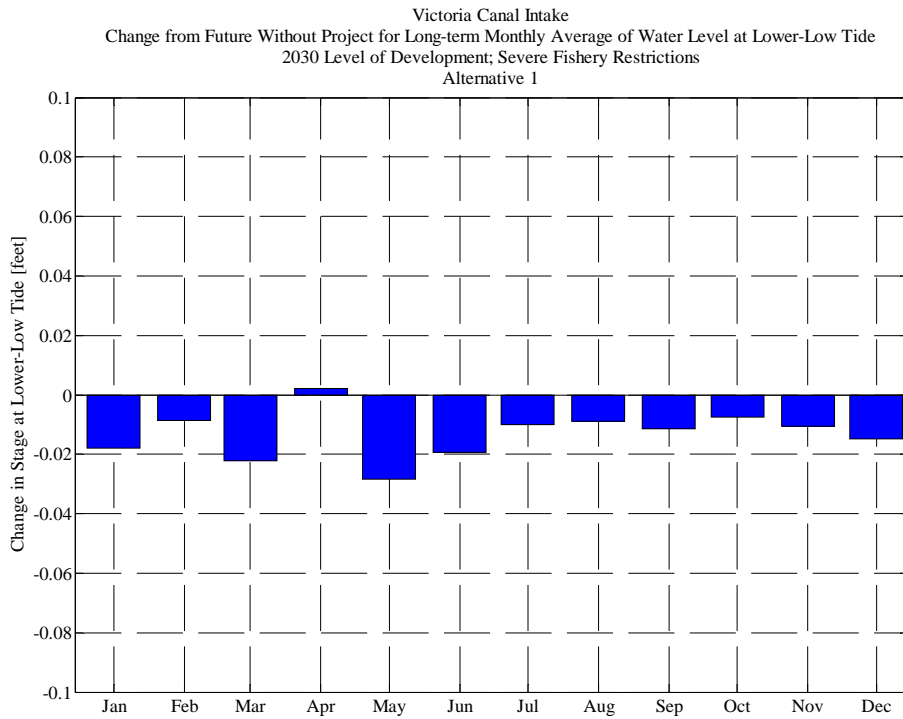
# Victoria Canal Intake

## Alternative 1



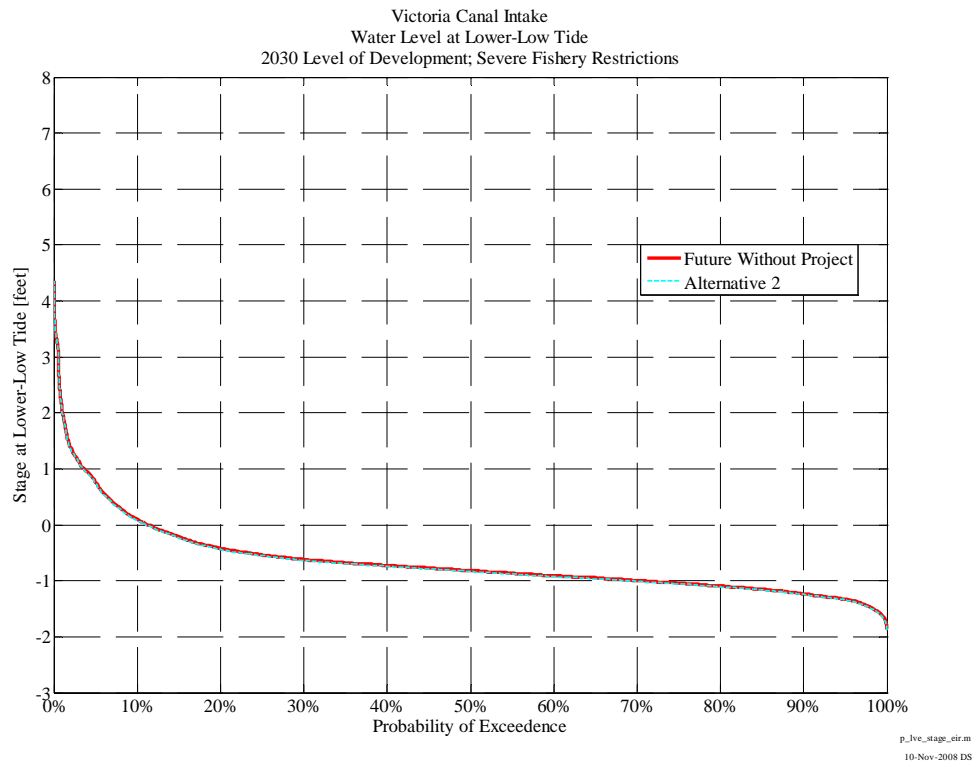
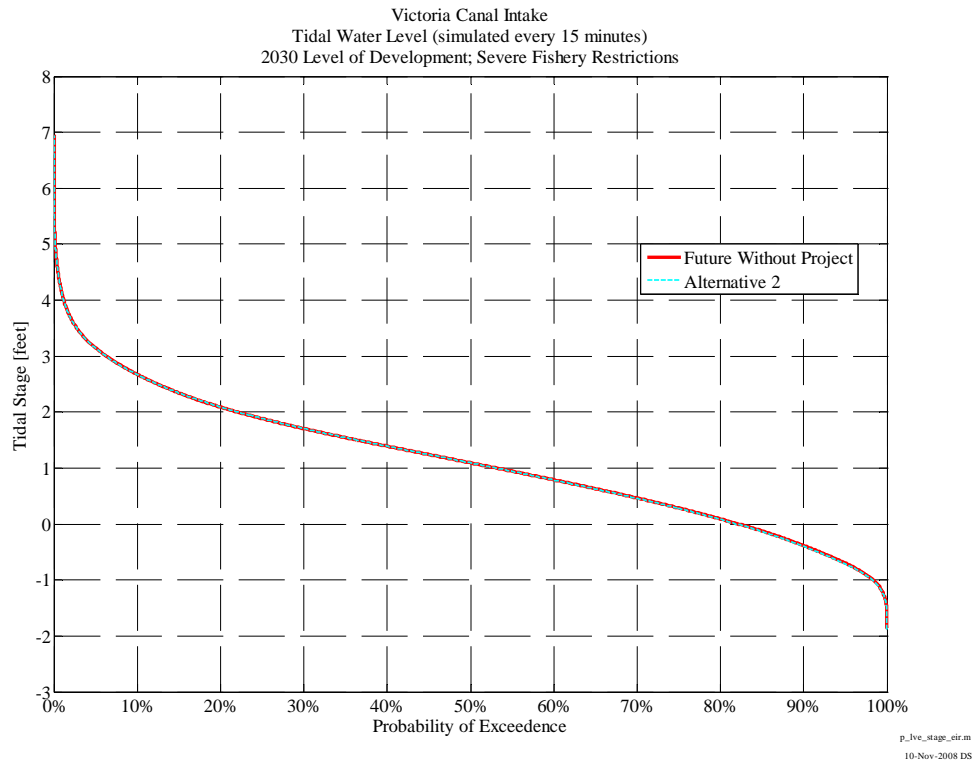


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10-Nov-2008 DS

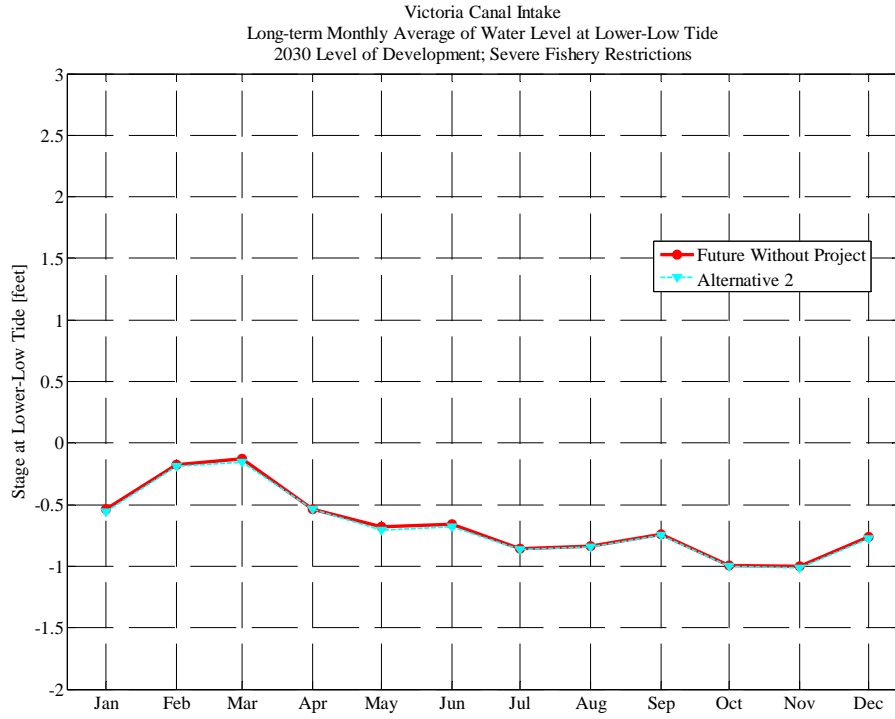


p\_lvc\_stage\_eir.m  
10-Nov-2008 DS

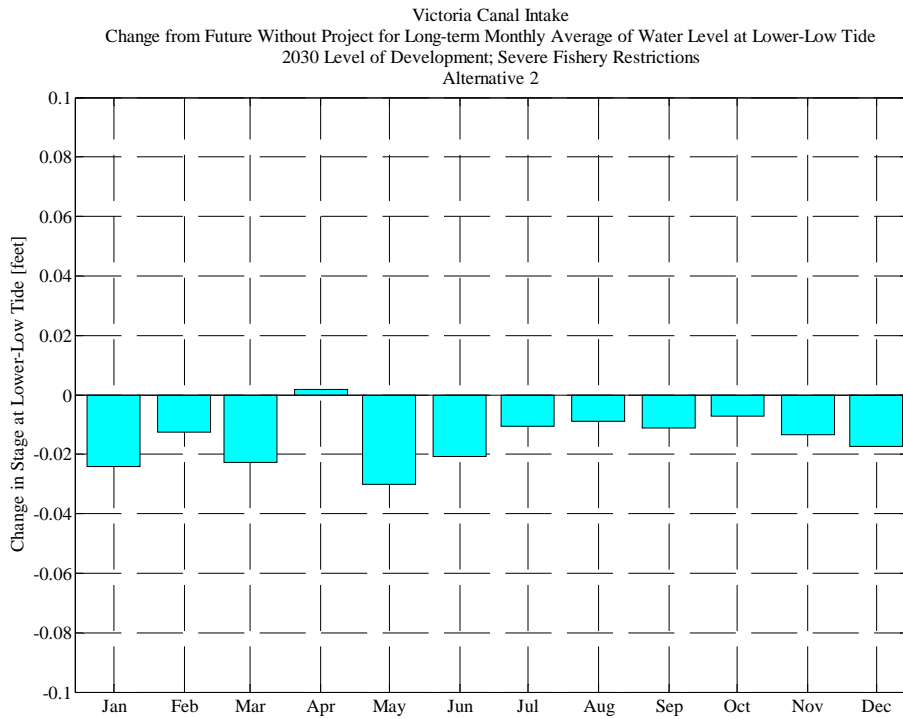
## Alternative 2





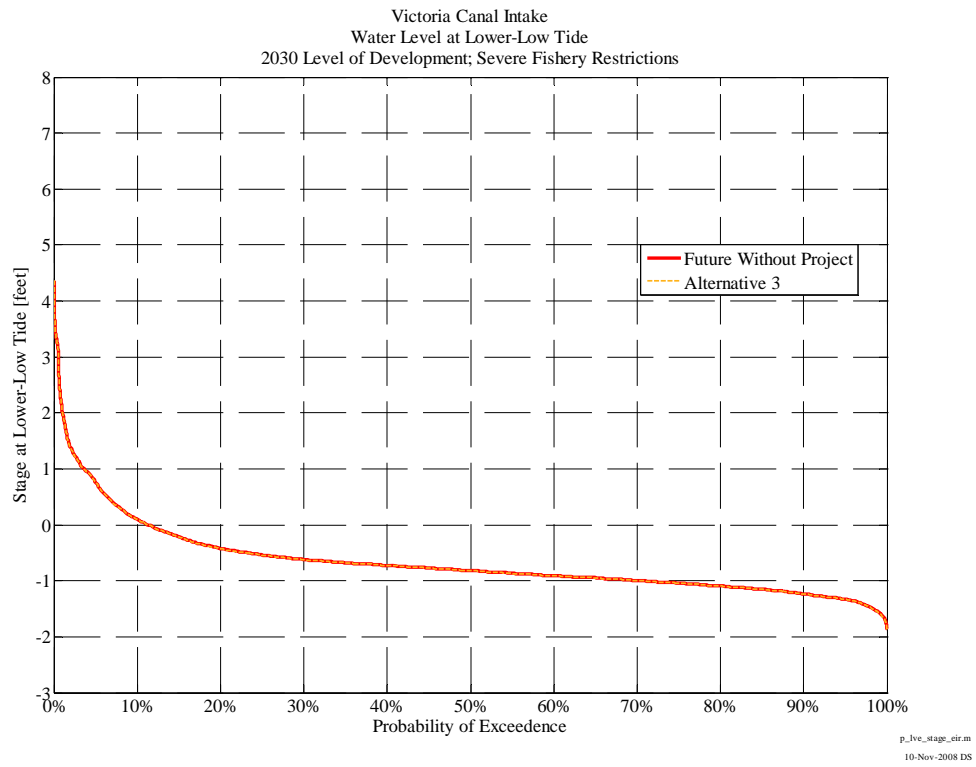
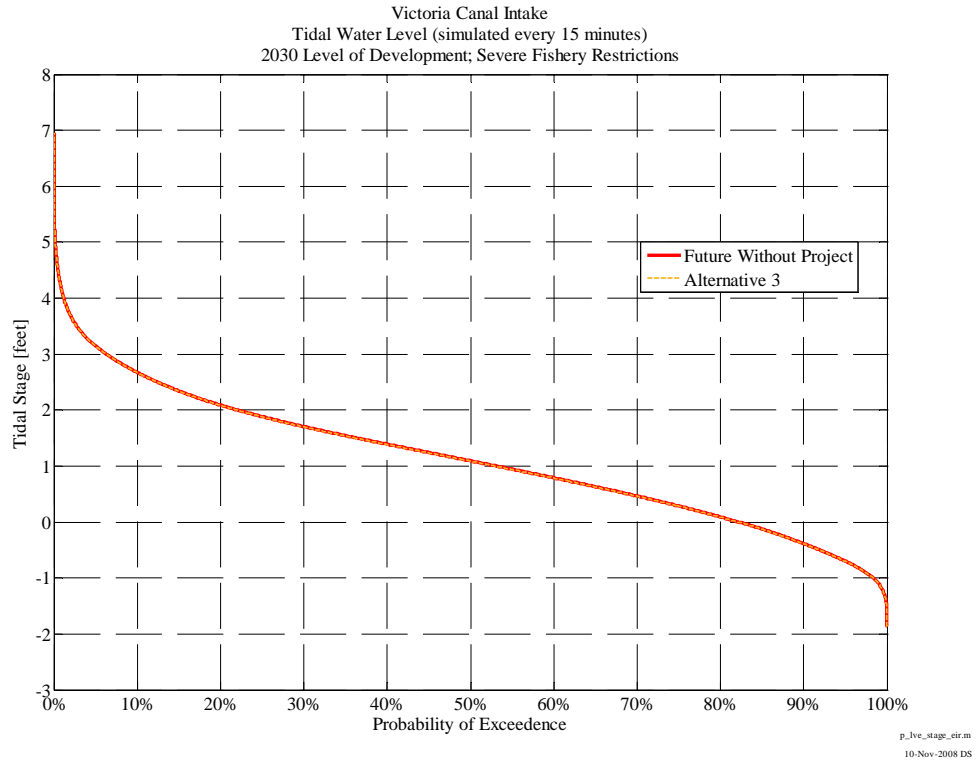


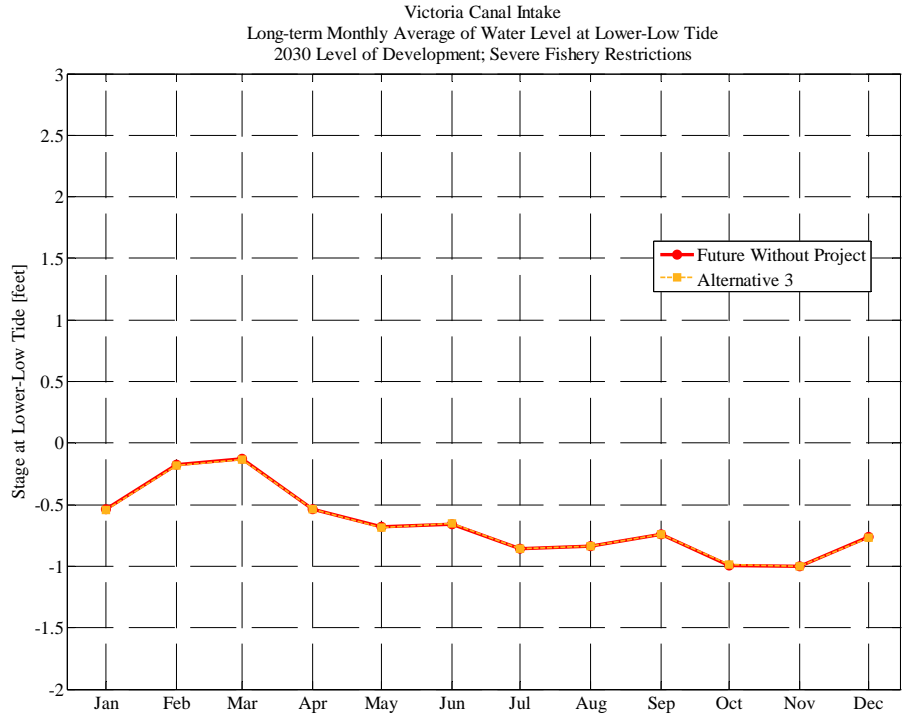
p\_lvc\_stage\_eir.m  
10-Nov-2008 DS



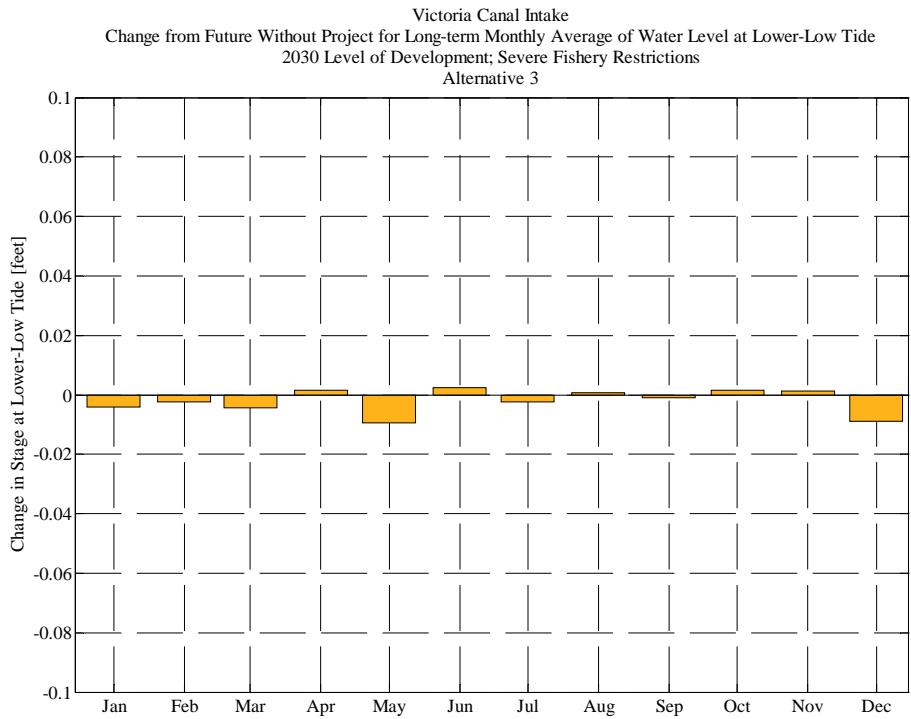
p\_lvc\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



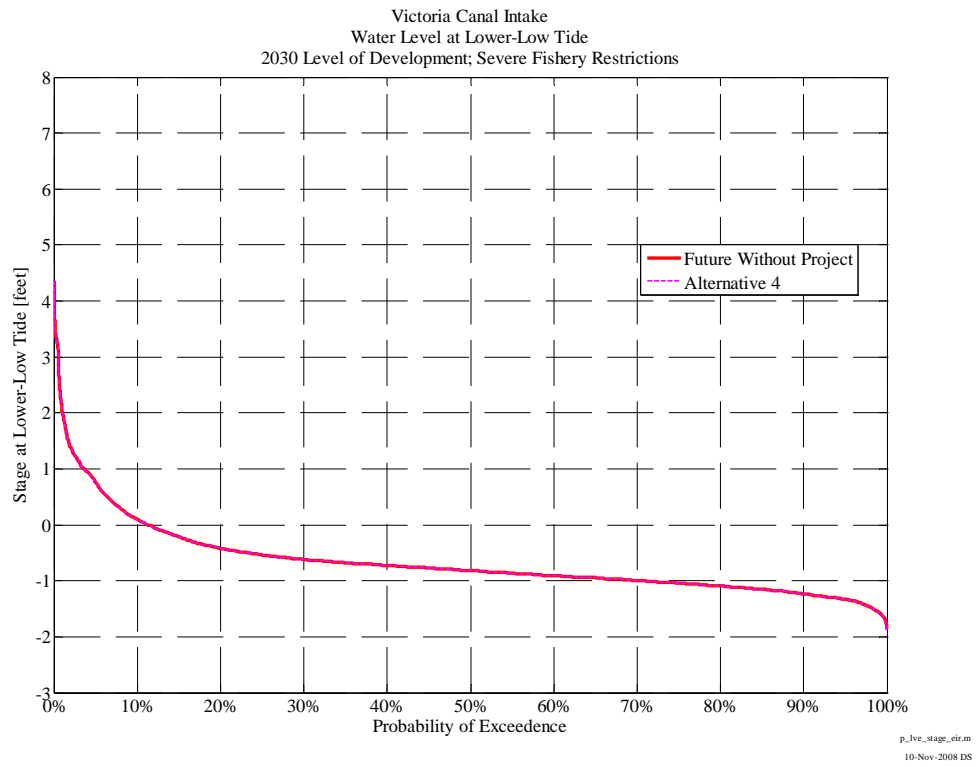
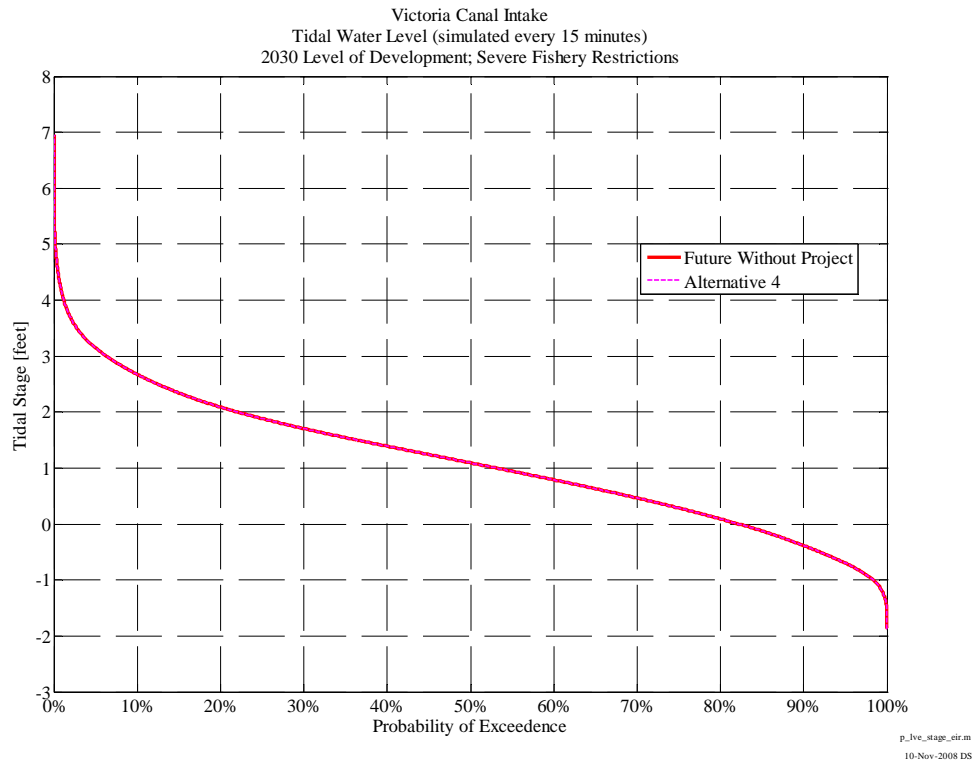


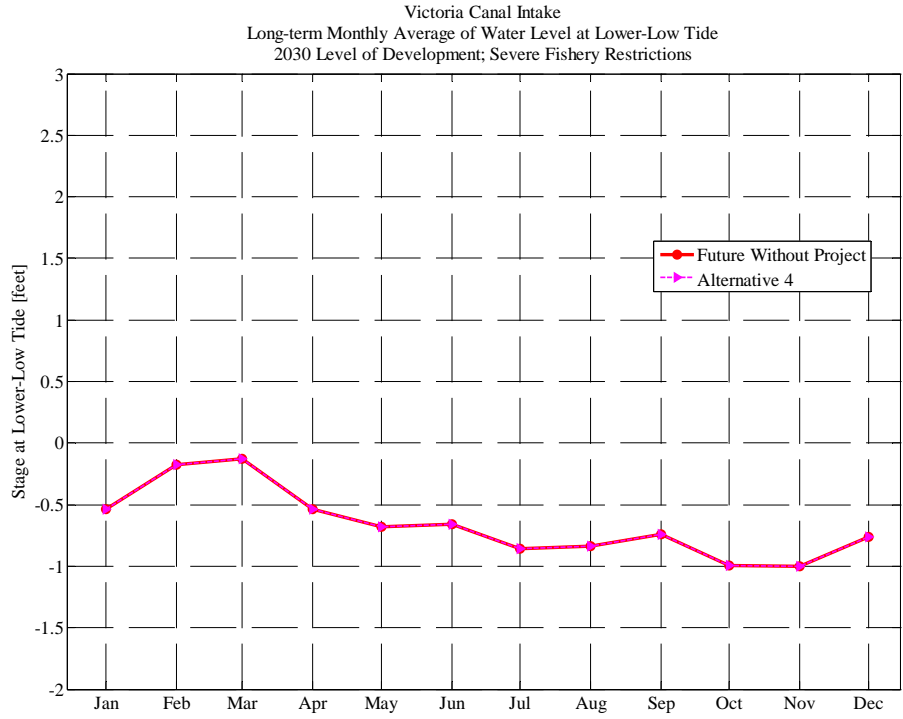
p\_lvc\_stage\_eir.m  
10-Nov-2008 DS



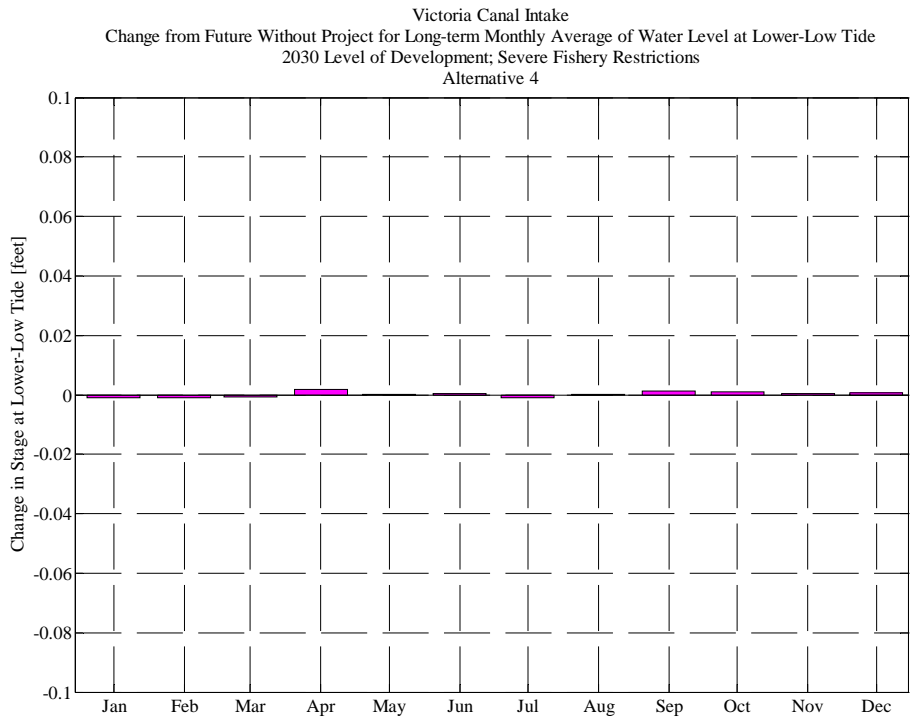
p\_lvc\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 4





p\_lvc\_stage\_eir.m  
10-Nov-2008 DS



p\_lvc\_stage\_eir.m  
10-Nov-2008 DS

## 2030 Level of Development; Moderate Fishery Restrictions

### Water Quality

#### Chippis Island

##### *Future Without Project*

**Chippis Island Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	6,916	7,825	8,903	9,241	6,293	3,024	4,575	8,636	11,983	12,217	12,792	14,481
1977	14,347	14,541	12,396	11,940	6,182	6,427	8,879	10,809	11,488	12,120	13,266	14,278
1978	15,158	14,556	9,840	473	212	206	243	674	2,325	5,094	8,923	11,791
1979	13,237	13,336	12,342	4,106	359	324	1,000	1,762	3,330	6,412	9,821	12,767
1980	13,547	10,580	6,252	311	210	214	619	1,442	2,582	4,876	8,745	11,806
1981	13,259	13,550	12,333	3,483	664	403	1,588	3,824	7,470	8,642	9,921	12,580
1982	13,979	2,876	187	201	193	203	190	216	730	3,638	8,479	3,543
1983	1,347	353	199	228	217	204	202	197	195	303	1,238	937
1984	2,364	301	193	203	236	237	960	2,401	4,931	5,675	8,502	12,221
1985	12,510	2,831	1,828	4,146	2,696	1,604	2,638	4,042	7,493	8,351	9,753	12,696
1986	13,276	13,069	9,857	3,745	211	206	421	1,471	3,256	5,473	8,943	10,815
1987	12,284	13,056	13,214	9,416	2,831	576	2,681	5,828	8,286	8,869	10,484	12,899
1988	14,126	13,840	11,614	2,738	2,696	5,345	5,878	7,471	8,860	10,809	13,015	14,453
1989	14,804	14,535	12,981	10,425	9,578	924	383	1,479	6,229	7,596	9,559	12,408
1990	13,615	13,851	12,673	5,693	3,879	5,005	5,584	7,631	10,617	12,464	13,120	14,277
1991	15,143	15,171	14,506	13,935	12,572	2,175	2,354	6,739	10,633	12,581	13,008	14,289
<b>Avg</b>	11,869	10,267	8,707	5,018	3,064	1,692	2,387	4,039	6,276	7,820	9,973	11,640
<b>W/AN/BN</b>	10,415	7,867	5,553	1,324	234	228	519	1,166	2,478	4,496	7,807	9,126
<b>D/C</b>	13,000	12,133	11,161	7,891	5,266	2,831	3,840	6,273	9,229	10,405	11,657	13,596

**Alternative 1**

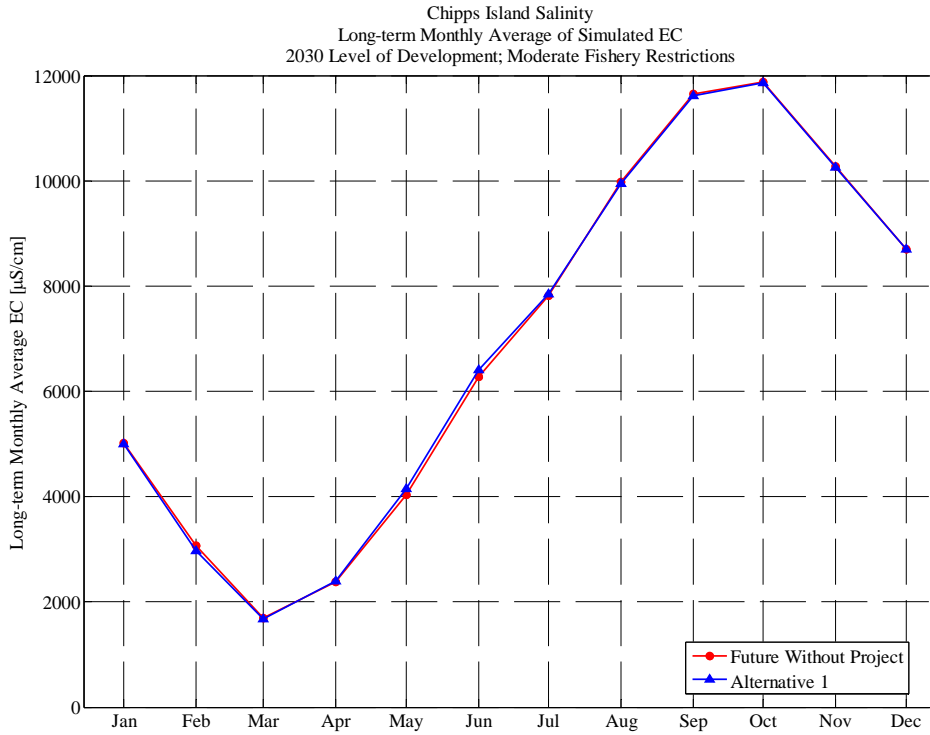
**Chippis Island Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Alternative 1**

**2030 Level of Development; Moderate Fishery Restrictions**

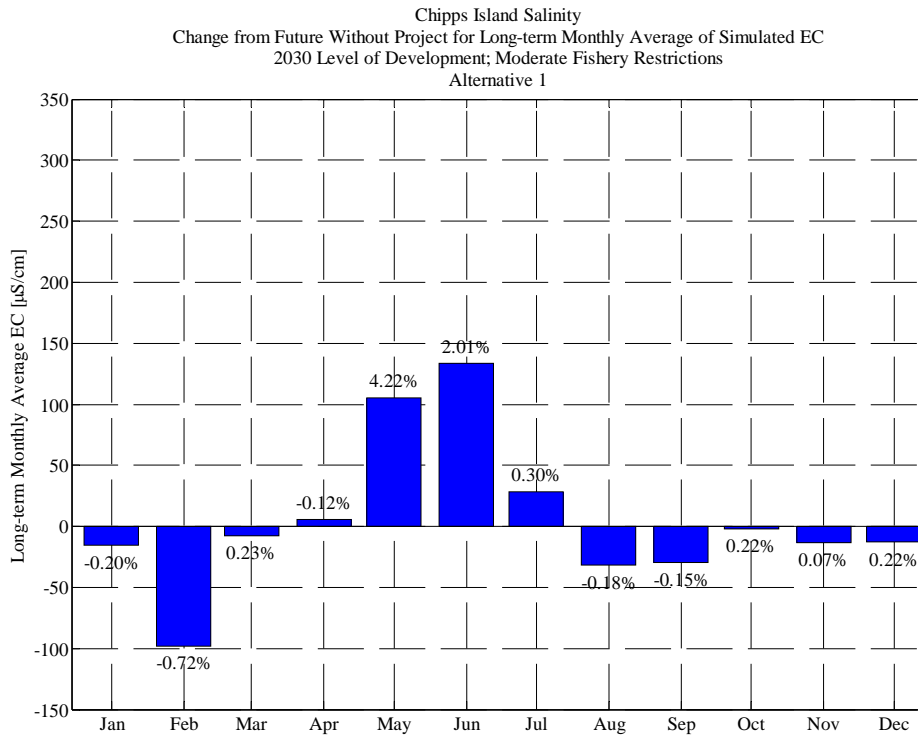
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	7,199	8,159	9,103	9,323	6,330	3,064	4,589	8,687	11,917	12,236	12,811	14,375
1977	14,213	14,424	12,266	11,837	4,928	5,661	8,606	10,580	12,238	12,640	13,100	14,088
1978	15,076	14,587	9,884	474	212	206	243	718	2,527	5,375	9,243	11,977
1979	13,287	13,361	12,310	4,160	380	339	995	1,964	3,391	6,334	9,786	12,756
1980	13,536	10,707	6,243	308	210	214	605	1,545	2,563	4,840	8,744	11,798
1981	13,247	13,509	12,265	3,472	706	411	1,589	4,113	7,600	8,591	9,958	12,627
1982	13,994	2,848	186	201	193	203	190	218	716	3,629	8,487	3,551
1983	1,370	356	199	228	217	204	202	196	195	303	1,241	940
1984	2,366	301	192	203	236	237	958	2,592	5,010	5,660	8,494	12,205
1985	12,492	2,832	1,930	4,223	2,727	1,619	2,620	4,143	7,484	8,292	9,745	12,745
1986	13,261	13,074	9,851	3,714	212	205	414	1,630	3,378	5,414	8,834	10,752
1987	12,255	13,040	13,191	9,249	2,766	573	2,685	6,096	8,502	8,898	10,496	12,931
1988	14,148	13,856	11,622	2,750	2,668	5,513	5,948	7,871	9,387	10,890	12,991	14,431
1989	14,782	14,427	12,844	10,211	9,351	909	381	1,541	6,409	7,586	9,570	12,655
1990	13,724	13,779	12,549	5,569	3,968	5,506	5,935	7,690	10,603	12,413	12,767	13,847
1991	14,928	14,797	14,476	14,109	12,353	2,093	2,325	6,723	10,624	12,470	12,789	14,090
<b>Avg</b>	<b>11,867</b>	<b>10,253</b>	<b>8,694</b>	<b>5,002</b>	<b>2,966</b>	<b>1,685</b>	<b>2,393</b>	<b>4,144</b>	<b>6,409</b>	<b>7,848</b>	<b>9,941</b>	<b>11,611</b>
<b>W/AN/BN</b>	<b>10,413</b>	<b>7,890</b>	<b>5,552</b>	<b>1,327</b>	<b>237</b>	<b>230</b>	<b>515</b>	<b>1,266</b>	<b>2,540</b>	<b>4,508</b>	<b>7,833</b>	<b>9,140</b>
<b>D/C</b>	<b>12,999</b>	<b>12,091</b>	<b>11,138</b>	<b>7,860</b>	<b>5,088</b>	<b>2,817</b>	<b>3,853</b>	<b>6,383</b>	<b>9,418</b>	<b>10,446</b>	<b>11,581</b>	<b>13,532</b>

**Percent (%) Change from Future Without Project for Chippis Island Salinity**  
**(Alternative 1 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	4.1%	4.3%	2.2%	0.9%	0.6%	1.3%	0.3%	0.6%	-0.6%	0.2%	0.2%	-0.7%
1977	-0.9%	-0.8%	-1.0%	-0.9%	-20.3%	-11.9%	-3.1%	-2.1%	6.5%	4.3%	-1.3%	-1.3%
1978	-0.5%	0.2%	0.4%	0.1%	0.0%	0.0%	0.1%	6.6%	8.7%	5.5%	3.6%	1.6%
1979	0.4%	0.2%	-0.3%	1.3%	6.0%	4.6%	-0.5%	11.4%	1.8%	-1.2%	-0.4%	-0.1%
1980	-0.1%	1.2%	-0.2%	-0.9%	-0.1%	-0.1%	-2.3%	7.1%	-0.7%	-0.7%	0.0%	-0.1%
1981	-0.1%	-0.3%	-0.6%	-0.3%	6.3%	2.2%	0.1%	7.5%	1.7%	-0.6%	0.4%	0.4%
1982	0.1%	-1.0%	-0.2%	0.1%	0.1%	0.0%	0.0%	0.8%	-1.8%	-0.2%	0.1%	0.2%
1983	1.7%	0.9%	-0.1%	-0.1%	0.0%	0.0%	0.1%	-0.5%	0.0%	0.1%	0.2%	0.3%
1984	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	-0.2%	8.0%	1.6%	-0.3%	-0.1%	-0.1%
1985	-0.1%	0.0%	5.5%	1.9%	1.1%	0.9%	-0.7%	2.5%	-0.1%	-0.7%	-0.1%	0.4%
1986	-0.1%	0.0%	-0.1%	-0.8%	0.1%	-0.5%	-1.7%	10.8%	3.7%	-1.1%	-1.2%	-0.6%
1987	-0.2%	-0.1%	-0.2%	-1.8%	-2.3%	-0.5%	0.2%	4.6%	2.6%	0.3%	0.1%	0.2%
1988	0.2%	0.1%	0.1%	0.4%	-1.0%	3.1%	1.2%	5.4%	5.9%	0.7%	-0.2%	-0.2%
1989	-0.1%	-0.7%	-1.1%	-2.0%	-2.4%	-1.6%	-0.5%	4.2%	2.9%	-0.1%	0.1%	2.0%
1990	0.8%	-0.5%	-1.0%	-2.2%	2.3%	10.0%	6.3%	0.8%	-0.1%	-0.4%	-2.7%	-3.0%
1991	-1.4%	-2.5%	-0.2%	1.2%	-1.7%	-3.8%	-1.3%	-0.2%	-0.1%	-0.9%	-1.7%	-1.4%
<b>Avg</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>-0.2%</b>	<b>-0.7%</b>	<b>0.2%</b>	<b>-0.1%</b>	<b>4.2%</b>	<b>2.0%</b>	<b>0.3%</b>	<b>-0.2%</b>	<b>-0.2%</b>
<b>W/AN/BN</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>-0.1%</b>	<b>0.9%</b>	<b>0.6%</b>	<b>-0.6%</b>	<b>6.3%</b>	<b>1.9%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.2%</b>
<b>D/C</b>	<b>0.2%</b>	<b>-0.1%</b>	<b>0.4%</b>	<b>-0.3%</b>	<b>-1.9%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>2.6%</b>	<b>2.1%</b>	<b>0.3%</b>	<b>-0.6%</b>	<b>-0.4%</b>

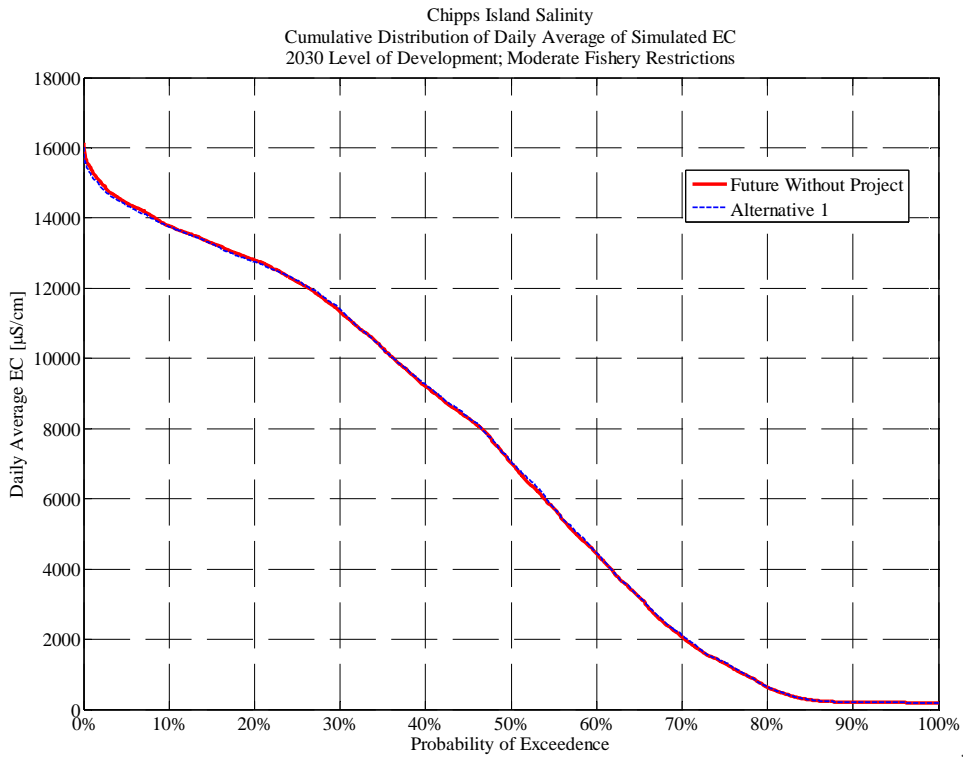
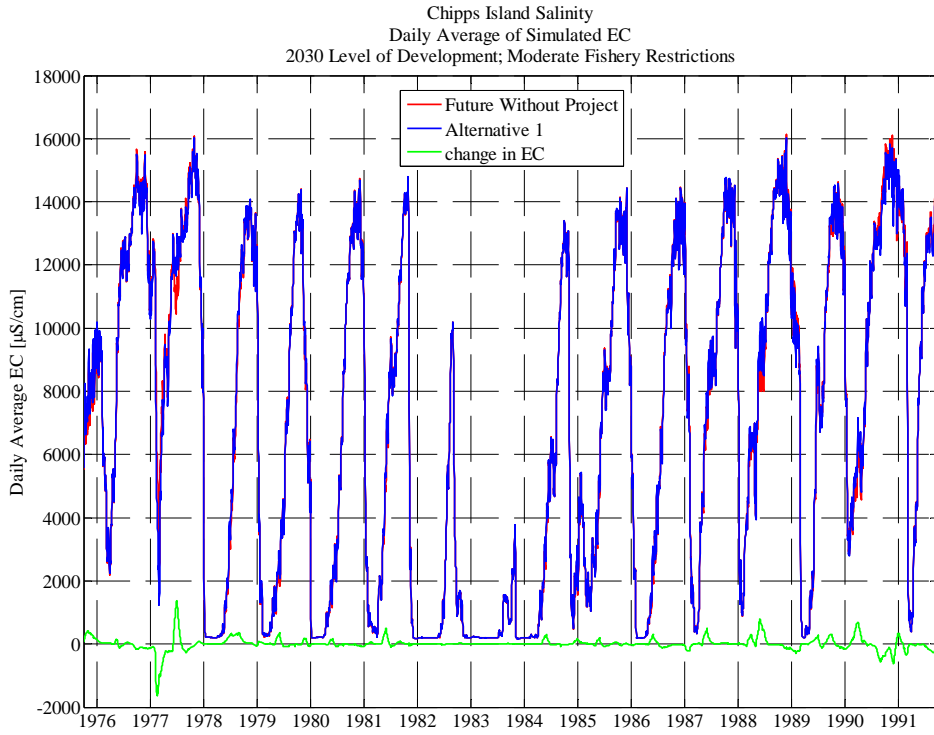


p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS





**Alternative 2**

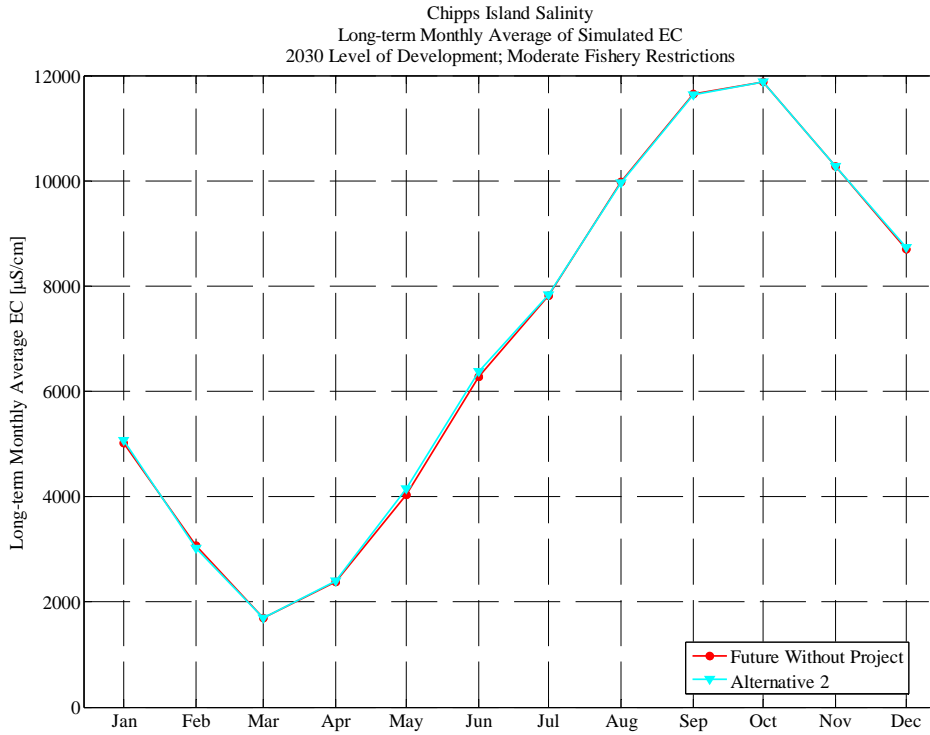
**Chippis Island Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Alternative 2**

**2030 Level of Development; Moderate Fishery Restrictions**

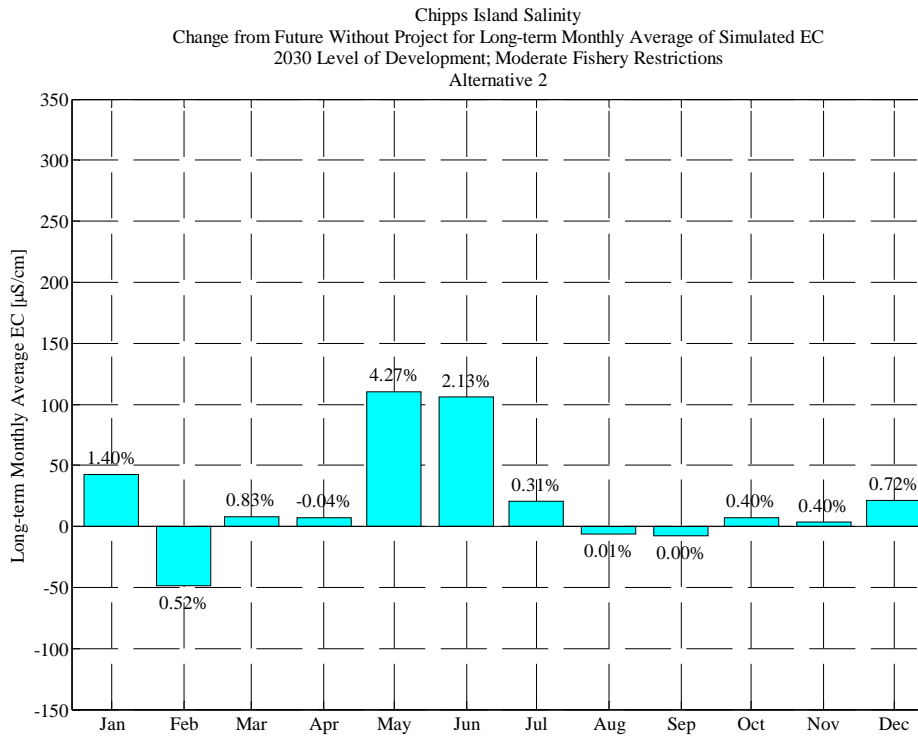
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	7,238	8,251	9,156	9,339	6,423	3,100	4,594	8,689	11,918	12,232	12,807	14,376
1977	14,215	14,426	12,253	11,820	5,052	5,738	8,586	10,635	11,467	12,170	13,262	14,258
1978	15,153	14,559	10,227	511	212	206	243	718	2,527	5,375	9,243	11,975
1979	13,286	13,367	12,306	4,266	386	339	995	1,964	3,395	6,336	9,786	12,756
1980	13,536	10,811	6,374	312	209	214	605	1,545	2,563	4,840	8,745	11,798
1981	13,247	13,509	12,265	3,507	713	412	1,589	4,113	7,600	8,589	9,956	12,626
1982	13,993	2,897	187	200	192	203	190	218	716	3,629	8,487	3,551
1983	1,392	359	199	228	217	204	202	196	195	303	1,241	940
1984	2,366	301	192	203	237	237	958	2,592	5,010	5,660	8,494	12,205
1985	12,491	2,843	1,961	4,291	2,801	1,633	2,621	4,144	7,484	8,292	9,745	12,745
1986	13,261	13,074	9,852	3,837	213	205	414	1,630	3,629	5,519	8,796	10,737
1987	12,248	13,037	13,190	9,526	2,933	583	2,681	6,092	8,559	8,918	10,495	12,937
1988	14,152	13,859	11,623	2,804	2,687	5,517	5,949	7,871	9,389	11,000	13,072	14,450
1989	14,788	14,428	12,844	10,211	9,350	910	381	1,541	6,409	7,586	9,569	12,668
1990	13,740	13,787	12,544	5,726	4,038	5,521	5,939	7,690	10,604	12,417	12,796	13,875
1991	14,915	14,818	14,491	14,176	12,591	2,179	2,359	6,752	10,644	12,578	12,972	14,221
<b>Avg</b>	<b>11,876</b>	<b>10,270</b>	<b>8,729</b>	<b>5,060</b>	<b>3,016</b>	<b>1,700</b>	<b>2,394</b>	<b>4,149</b>	<b>6,382</b>	<b>7,840</b>	<b>9,967</b>	<b>11,632</b>
<b>W/AN/BN</b>	<b>10,427</b>	<b>7,910</b>	<b>5,620</b>	<b>1,365</b>	<b>238</b>	<b>230</b>	<b>515</b>	<b>1,266</b>	<b>2,576</b>	<b>4,523</b>	<b>7,827</b>	<b>9,138</b>
<b>D/C</b>	<b>13,004</b>	<b>12,106</b>	<b>11,147</b>	<b>7,933</b>	<b>5,177</b>	<b>2,844</b>	<b>3,855</b>	<b>6,392</b>	<b>9,342</b>	<b>10,420</b>	<b>11,631</b>	<b>13,573</b>

**Percent (%) Change from Future Without Project for Chippis Island Salinity**  
**(Alternative 2 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	4.7%	5.4%	2.8%	1.1%	2.1%	2.5%	0.4%	0.6%	-0.5%	0.1%	0.1%	-0.7%
1977	-0.9%	-0.8%	-1.2%	-1.0%	-18.3%	-10.7%	-3.3%	-1.6%	-0.2%	0.4%	0.0%	-0.1%
1978	0.0%	0.0%	3.9%	8.0%	0.0%	0.0%	0.0%	6.6%	8.7%	5.5%	3.6%	1.6%
1979	0.4%	0.2%	-0.3%	3.9%	7.7%	4.6%	-0.5%	11.4%	1.9%	-1.2%	-0.3%	-0.1%
1980	-0.1%	2.2%	1.9%	0.4%	-0.2%	-0.1%	-2.3%	7.1%	-0.7%	-0.7%	0.0%	-0.1%
1981	-0.1%	-0.3%	-0.6%	0.7%	7.4%	2.3%	0.1%	7.5%	1.7%	-0.6%	0.4%	0.4%
1982	0.1%	0.7%	0.0%	-0.2%	-0.1%	0.0%	0.0%	0.8%	-1.8%	-0.2%	0.1%	0.2%
1983	3.3%	1.8%	-0.1%	-0.2%	-0.1%	-0.1%	0.2%	-0.4%	0.0%	0.1%	0.2%	0.3%
1984	0.1%	0.1%	-0.1%	0.0%	0.1%	0.0%	-0.2%	8.0%	1.6%	-0.3%	-0.1%	-0.1%
1985	-0.2%	0.4%	7.3%	3.5%	3.9%	1.8%	-0.6%	2.5%	-0.1%	-0.7%	-0.1%	0.4%
1986	-0.1%	0.0%	-0.1%	2.5%	0.7%	-0.5%	-1.7%	10.8%	11.4%	0.8%	-1.6%	-0.7%
1987	-0.3%	-0.1%	-0.2%	1.2%	3.6%	1.2%	0.0%	4.5%	3.3%	0.5%	0.1%	0.3%
1988	0.2%	0.1%	0.1%	2.4%	-0.3%	3.2%	1.2%	5.3%	6.0%	1.8%	0.4%	0.0%
1989	-0.1%	-0.7%	-1.1%	-2.1%	-2.4%	-1.5%	-0.5%	4.2%	2.9%	-0.1%	0.1%	2.1%
1990	0.9%	-0.5%	-1.0%	0.6%	4.1%	10.3%	6.3%	0.8%	-0.1%	-0.4%	-2.5%	-2.8%
1991	-1.5%	-2.3%	-0.1%	1.7%	0.1%	0.2%	0.2%	0.2%	0.1%	0.0%	-0.3%	-0.5%
<b>Avg</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.7%</b>	<b>1.4%</b>	<b>0.5%</b>	<b>0.8%</b>	<b>0.0%</b>	<b>4.3%</b>	<b>2.1%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>
<b>W/AN/BN</b>	<b>0.5%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>2.1%</b>	<b>1.2%</b>	<b>0.6%</b>	<b>-0.6%</b>	<b>6.3%</b>	<b>3.0%</b>	<b>0.6%</b>	<b>0.3%</b>	<b>0.2%</b>
<b>D/C</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.7%</b>	<b>0.9%</b>	<b>0.0%</b>	<b>1.0%</b>	<b>0.4%</b>	<b>2.7%</b>	<b>1.4%</b>	<b>0.1%</b>	<b>-0.2%</b>	<b>-0.1%</b>

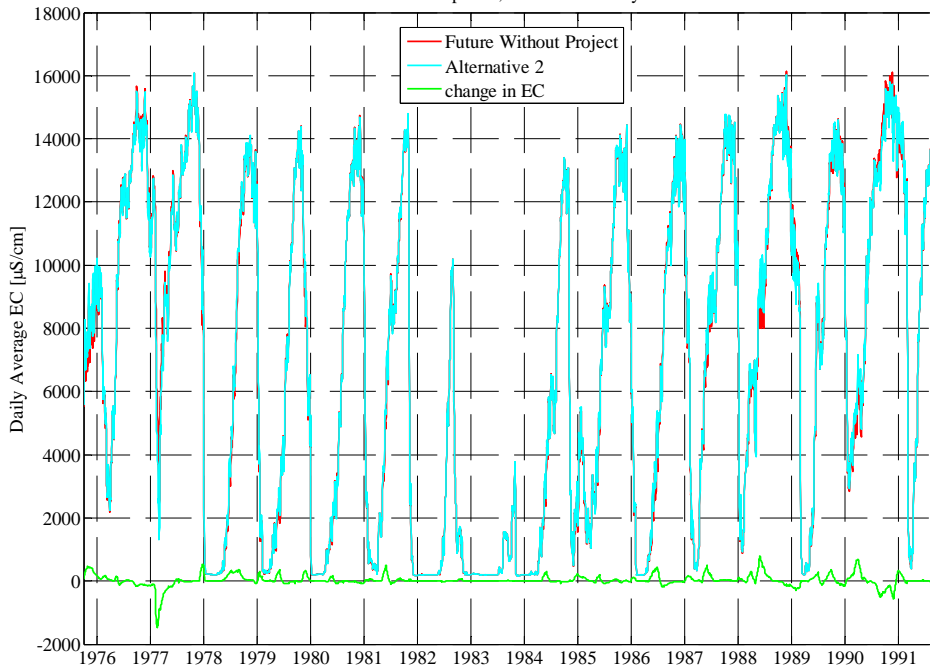


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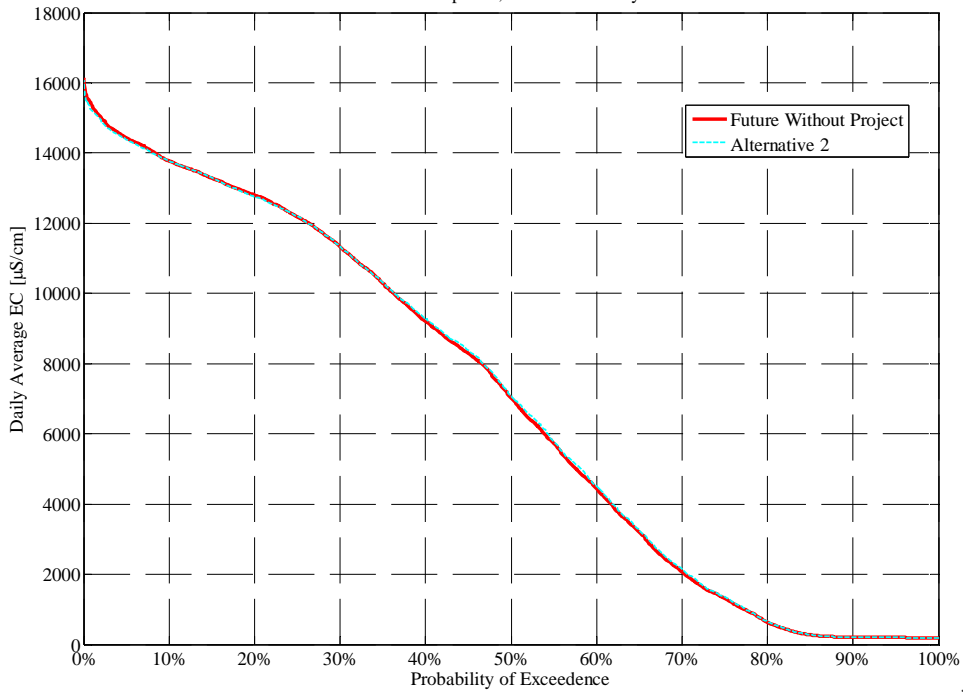
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Chippis Island Salinity  
 Daily Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions



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 04-Nov-2008 DS

Chippis Island Salinity  
 Cumulative Distribution of Daily Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions



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**Alternative 3**

**Chippis Island Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**

**Alternative 3**

**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	6,532	7,502	8,813	9,193	6,261	3,017	4,572	8,518	11,774	12,148	12,742	14,256
1977	14,077	14,308	12,334	11,920	5,197	5,810	8,600	10,569	12,299	12,707	13,148	14,151
1978	15,100	14,577	9,839	471	212	206	243	714	2,510	5,335	9,180	12,002
1979	13,328	13,354	12,322	4,161	377	337	1,007	1,940	3,296	6,475	9,951	12,827
1980	13,598	10,864	6,451	315	210	214	619	1,490	2,536	4,838	8,753	11,826
1981	13,272	13,561	12,355	3,483	663	403	1,588	3,976	7,386	8,606	9,979	12,585
1982	13,965	2,904	187	201	193	203	190	217	715	3,631	8,486	3,549
1983	1,349	353	199	228	217	204	202	197	195	303	1,241	940
1984	2,367	301	193	203	238	250	958	2,463	4,937	5,647	8,484	12,225
1985	12,550	2,901	1,843	4,149	2,716	1,611	2,640	4,108	7,466	8,318	9,747	12,689
1986	13,252	13,074	9,842	3,702	211	205	427	1,527	3,207	5,376	8,876	10,781
1987	12,279	13,058	13,215	10,358	3,262	627	2,688	5,677	8,002	8,766	10,512	12,895
1988	14,111	13,822	11,590	2,733	2,635	5,217	5,825	7,855	8,897	10,823	13,105	14,475
1989	14,733	14,359	12,813	10,183	9,325	908	381	1,454	6,333	7,651	9,602	12,165
1990	13,223	13,570	12,568	5,581	3,931	5,411	5,836	7,667	10,473	12,333	12,897	13,948
1991	14,806	14,934	14,326	13,810	12,529	2,169	2,354	6,746	10,636	12,581	13,006	14,288
<b>Avg</b>	<b>11,784</b>	<b>10,215</b>	<b>8,681</b>	<b>5,043</b>	<b>3,011</b>	<b>1,675</b>	<b>2,383</b>	<b>4,070</b>	<b>6,291</b>	<b>7,846</b>	<b>9,982</b>	<b>11,600</b>
<b>W/AN/BN</b>	<b>10,423</b>	<b>7,918</b>	<b>5,576</b>	<b>1,326</b>	<b>237</b>	<b>231</b>	<b>521</b>	<b>1,221</b>	<b>2,485</b>	<b>4,515</b>	<b>7,853</b>	<b>9,164</b>
<b>D/C</b>	<b>12,842</b>	<b>12,002</b>	<b>11,095</b>	<b>7,935</b>	<b>5,169</b>	<b>2,797</b>	<b>3,832</b>	<b>6,286</b>	<b>9,252</b>	<b>10,437</b>	<b>11,638</b>	<b>13,495</b>

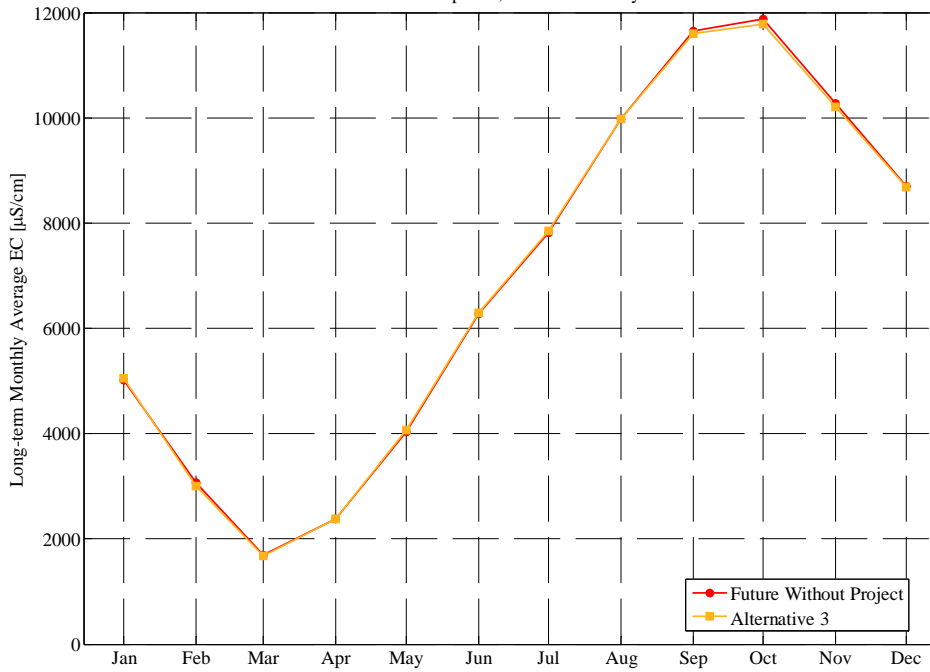
**Percent (%) Change from Future Without Project for Chippis Island Salinity**

**(Alternative 3 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

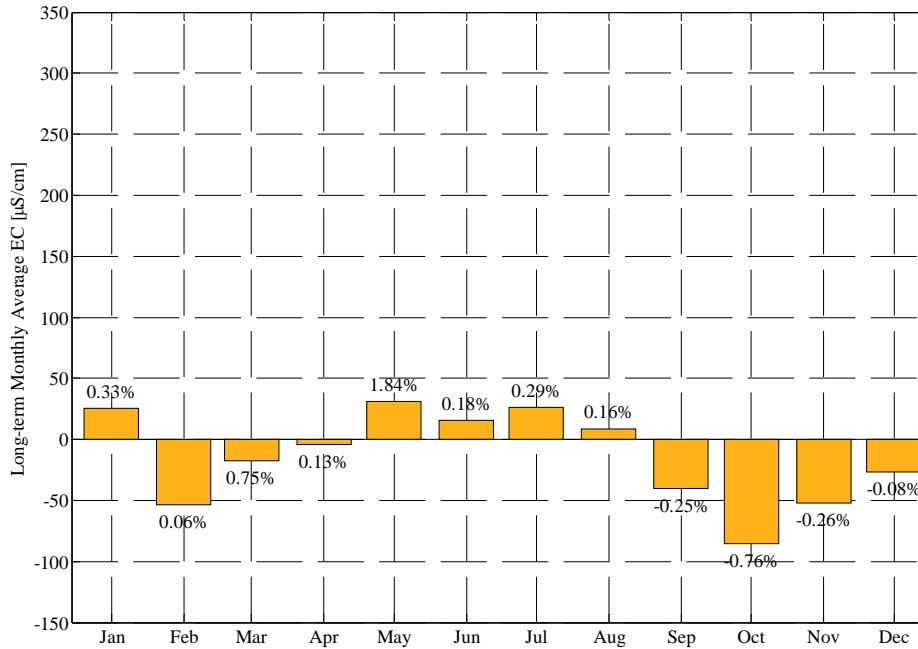
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-5.6%	-4.1%	-1.0%	-0.5%	-0.5%	-0.2%	-0.1%	-1.4%	-1.7%	-0.6%	-0.4%	-1.6%
1977	-1.9%	-1.6%	-0.5%	-0.2%	-15.9%	-9.6%	-3.1%	-2.2%	7.1%	4.8%	-0.9%	-0.9%
1978	-0.4%	0.1%	0.0%	-0.5%	0.0%	0.0%	0.0%	6.0%	8.0%	4.7%	2.9%	1.8%
1979	0.7%	0.1%	-0.2%	1.3%	5.1%	3.8%	0.7%	10.1%	-1.0%	1.0%	1.3%	0.5%
1980	0.4%	2.7%	3.2%	1.3%	-0.2%	0.0%	0.0%	3.3%	-1.8%	-0.8%	0.1%	0.2%
1981	0.1%	0.1%	0.2%	0.0%	-0.1%	0.0%	0.0%	4.0%	-1.1%	-0.4%	0.6%	0.0%
1982	-0.1%	0.9%	0.0%	0.3%	0.2%	0.0%	0.0%	0.4%	-2.1%	-0.2%	0.1%	0.2%
1983	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.1%	0.1%	0.3%	0.3%
1984	0.1%	0.1%	0.0%	0.0%	0.7%	5.5%	-0.2%	2.6%	0.1%	-0.5%	-0.2%	0.0%
1985	0.3%	2.5%	0.8%	0.1%	0.8%	0.4%	0.1%	1.6%	-0.4%	-0.4%	-0.1%	-0.1%
1986	-0.2%	0.0%	-0.2%	-1.2%	-0.2%	-0.4%	1.4%	3.8%	-1.5%	-1.8%	-0.7%	-0.3%
1987	0.0%	0.0%	0.0%	10.0%	15.2%	8.9%	0.2%	-2.6%	-3.4%	-1.2%	0.3%	0.0%
1988	-0.1%	-0.1%	-0.2%	-0.2%	-2.3%	-2.4%	-0.9%	5.1%	0.4%	0.1%	0.7%	0.2%
1989	-0.5%	-1.2%	-1.3%	-2.3%	-2.6%	-1.7%	-0.5%	-1.7%	1.7%	0.7%	0.5%	-2.0%
1990	-2.9%	-2.0%	-0.8%	-2.0%	1.3%	8.1%	4.5%	0.5%	-1.4%	-1.1%	-1.7%	-2.3%
1991	-2.2%	-1.6%	-1.2%	-0.9%	-0.3%	-0.2%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	<b>-0.8%</b>	<b>-0.3%</b>	<b>-0.1%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.7%</b>	<b>0.1%</b>	<b>1.8%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.2%</b>	<b>-0.2%</b>
<b>W/AN/BN</b>	<b>0.1%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>0.2%</b>	<b>0.8%</b>	<b>1.2%</b>	<b>0.3%</b>	<b>3.7%</b>	<b>0.3%</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.4%</b>
<b>D/C</b>	<b>-1.4%</b>	<b>-0.9%</b>	<b>-0.5%</b>	<b>0.4%</b>	<b>-0.5%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>-0.1%</b>	<b>-0.7%</b>

Chippis Island Salinity  
 Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions

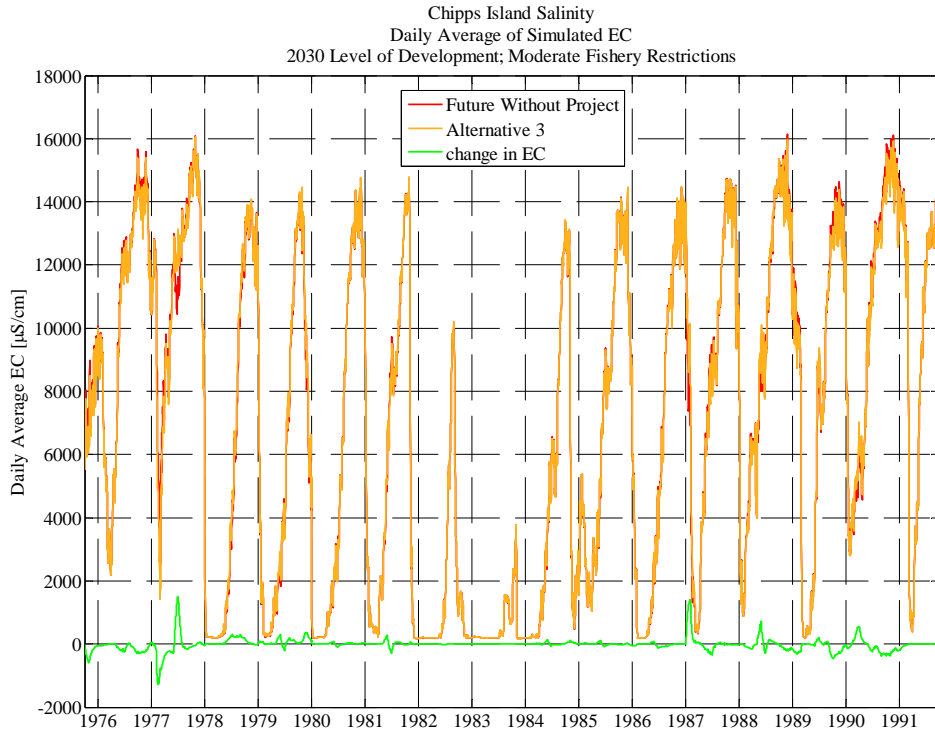


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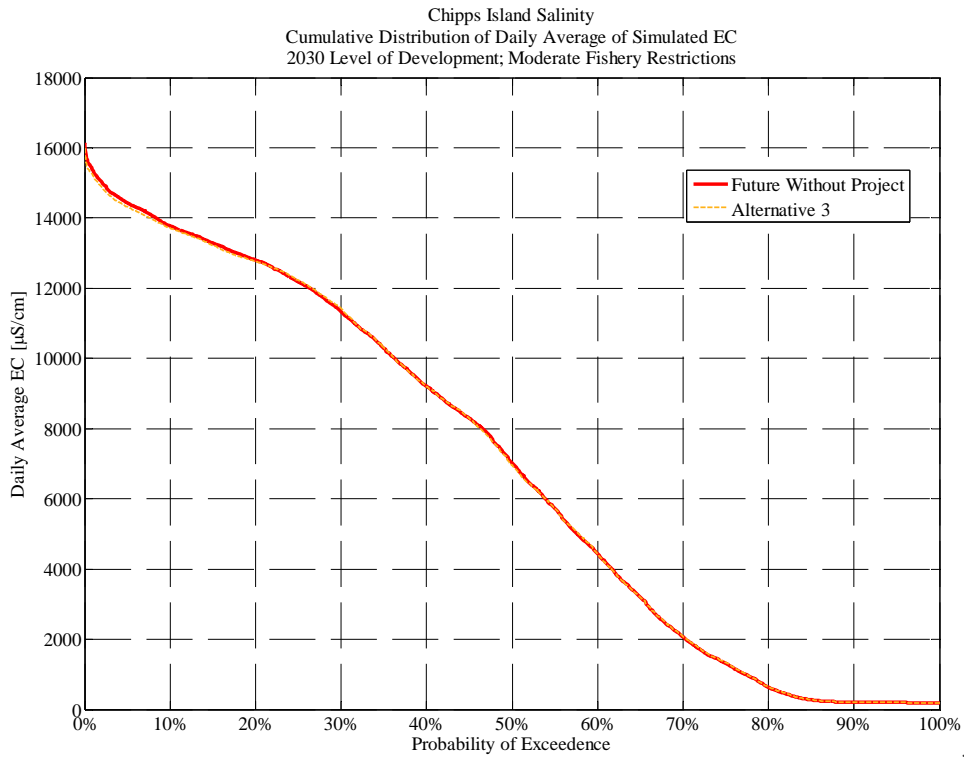
Chippis Island Salinity  
 Change from Future Without Project for Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions  
 Alternative 3



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**Alternative 4**

**Chippis Island Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Alternative 4**

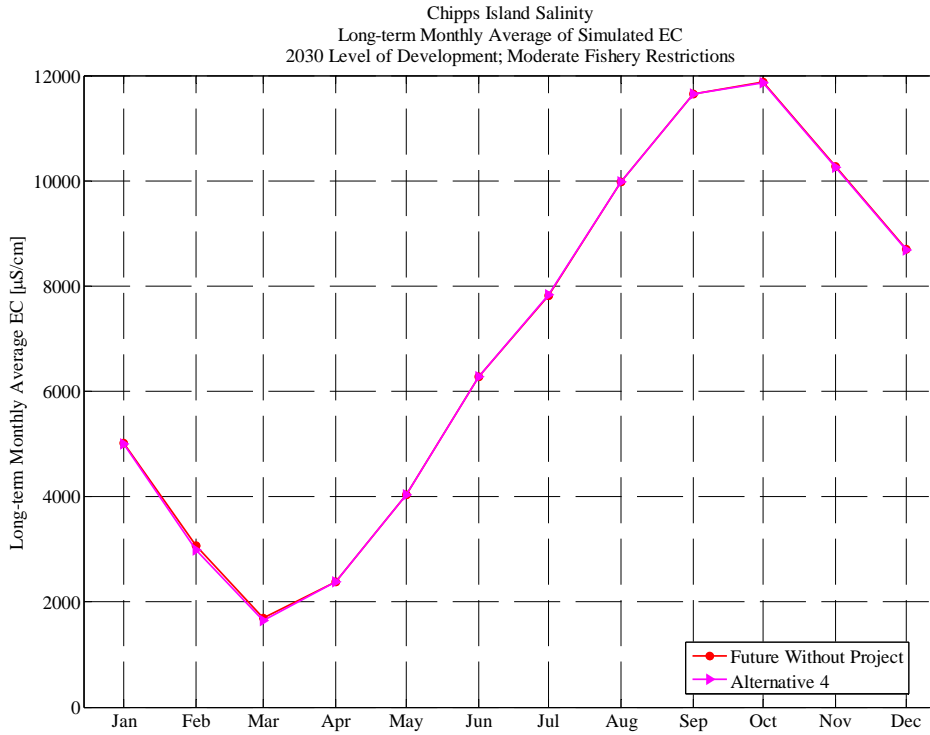
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	6,905	7,814	8,901	9,240	6,292	3,024	4,575	8,636	11,983	12,217	12,780	14,367
1977	14,220	14,431	12,252	11,823	5,061	5,792	8,733	10,777	11,504	12,146	13,232	14,216
1978	15,131	14,568	9,865	474	212	206	243	674	2,325	5,093	8,923	11,791
1979	13,238	13,340	12,339	4,103	360	325	1,000	1,763	3,330	6,419	9,915	12,833
1980	13,565	10,588	6,254	311	209	213	619	1,442	2,583	4,932	8,816	11,848
1981	13,272	13,556	12,331	3,482	663	403	1,588	3,824	7,470	8,642	9,922	12,583
1982	13,984	2,880	187	201	193	203	190	216	731	3,642	8,484	3,546
1983	1,348	353	199	228	217	204	202	197	195	303	1,239	938
1984	2,365	301	193	203	236	237	960	2,401	4,934	5,678	8,504	12,222
1985	12,512	2,833	1,828	4,146	2,694	1,604	2,638	4,042	7,493	8,352	9,755	12,698
1986	13,275	13,067	9,856	3,745	211	206	420	1,467	3,253	5,474	8,971	10,849
1987	12,301	13,062	13,217	9,415	2,830	576	2,681	5,828	8,287	8,869	10,484	12,899
1988	14,126	13,841	11,614	2,738	2,696	5,345	5,878	7,471	8,860	10,809	13,016	14,456
1989	14,798	14,435	12,843	10,211	9,353	899	380	1,478	6,229	7,595	9,561	12,440
1990	13,597	13,827	12,649	5,680	3,877	5,005	5,584	7,631	10,617	12,456	13,118	14,279
1991	15,138	15,174	14,504	13,926	12,569	2,174	2,354	6,739	10,633	12,581	13,007	14,289
<b>Avg</b>	<b>11,861</b>	<b>10,254</b>	<b>8,690</b>	<b>4,995</b>	<b>2,980</b>	<b>1,651</b>	<b>2,378</b>	<b>4,037</b>	<b>6,277</b>	<b>7,825</b>	<b>9,983</b>	<b>11,641</b>
<b>W/AN/BN</b>	<b>10,415</b>	<b>7,871</b>	<b>5,556</b>	<b>1,324</b>	<b>234</b>	<b>228</b>	<b>519</b>	<b>1,166</b>	<b>2,479</b>	<b>4,506</b>	<b>7,836</b>	<b>9,146</b>
<b>D/C</b>	<b>12,986</b>	<b>12,108</b>	<b>11,127</b>	<b>7,851</b>	<b>5,115</b>	<b>2,758</b>	<b>3,823</b>	<b>6,270</b>	<b>9,231</b>	<b>10,407</b>	<b>11,653</b>	<b>13,581</b>

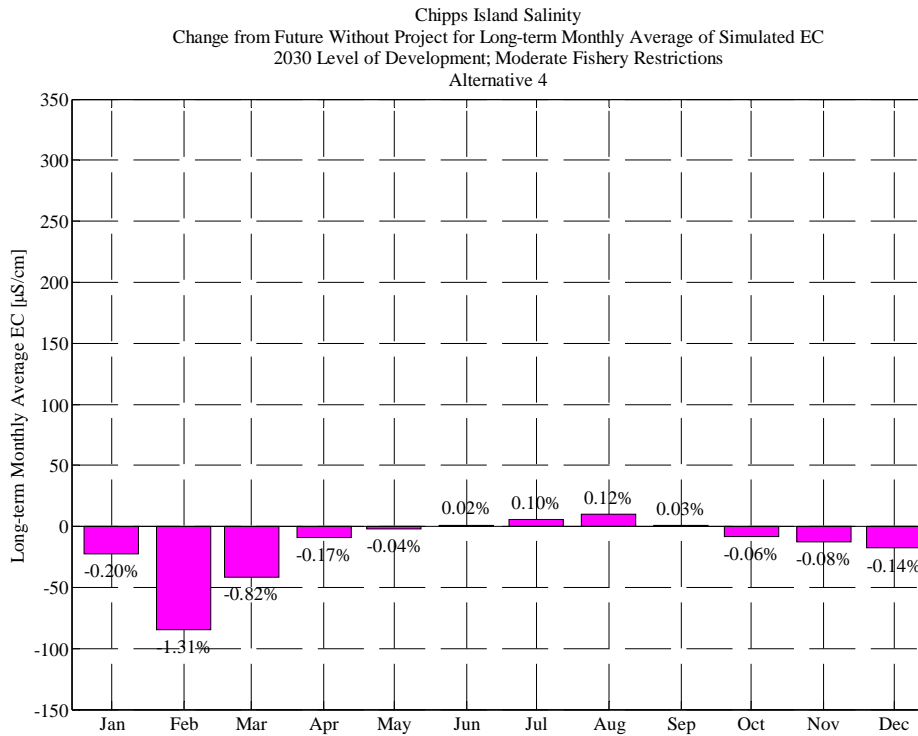
**Percent (%) Change from Future Without Project for Chippis Island Salinity**  
**(Alternative 4 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.8%
1977	-0.9%	-0.8%	-1.2%	-1.0%	-18.1%	-9.9%	-1.6%	-0.3%	0.1%	0.2%	-0.3%	-0.4%
1978	-0.2%	0.1%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	-0.1%	0.3%	0.1%	0.0%	0.0%	0.0%	0.1%	1.0%	0.5%
1980	0.1%	0.1%	0.0%	0.0%	-0.6%	-0.5%	0.0%	0.0%	0.0%	1.2%	0.8%	0.4%
1981	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	0.1%	0.1%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
1985	0.0%	0.1%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.3%	-0.1%	0.0%	0.3%	0.3%
1987	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	-0.7%	-1.1%	-2.0%	-2.4%	-2.7%	-0.8%	-0.1%	0.0%	0.0%	0.0%	0.3%
1990	-0.1%	-0.2%	-0.2%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	<b>-0.1%</b>	<b>-0.1%</b>	<b>-0.1%</b>	<b>-0.2%</b>	<b>-1.3%</b>	<b>-0.8%</b>	<b>-0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>
<b>W/AN/BN</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.2%</b>
<b>D/C</b>	<b>-0.1%</b>	<b>-0.2%</b>	<b>-0.3%</b>	<b>-0.4%</b>	<b>-2.3%</b>	<b>-1.4%</b>	<b>-0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>-0.1%</b>



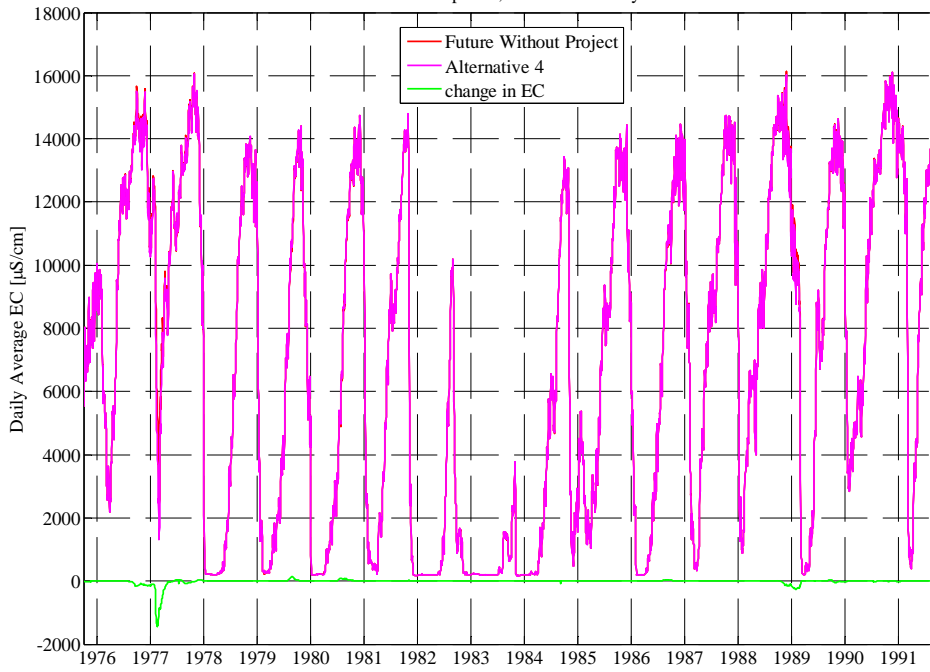


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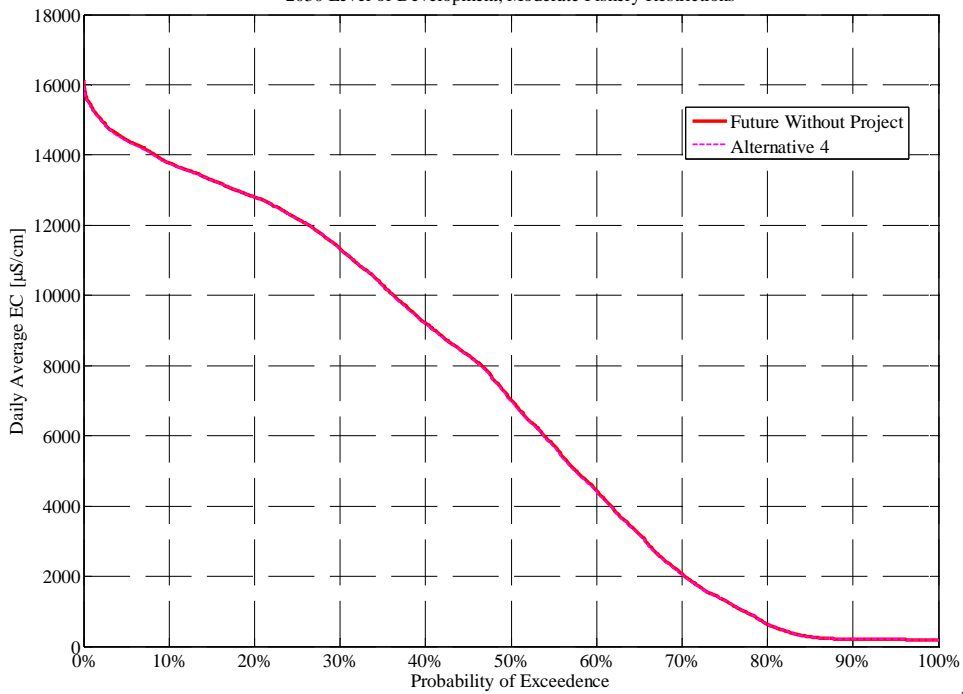
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Chippis Island Salinity  
 Daily Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions



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 04-Nov-2008 DS

Chippis Island Salinity  
 Cumulative Distribution of Daily Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions



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 05-Nov-2008 DS

## Collinsville

### Future Without Project

**Collinsville Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Future Without Project**  
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	3,163	3,861	4,616	4,904	2,741	948	1,855	4,798	7,732	7,560	8,113	9,827
1977	9,505	9,925	7,463	7,270	2,770	3,039	4,759	6,540	7,117	7,628	8,660	9,672
1978	10,705	9,915	5,216	293	204	203	214	275	767	2,166	4,870	7,227
1979	8,521	8,536	7,455	1,794	237	214	331	558	1,186	2,928	5,528	8,163
1980	8,948	5,830	2,625	224	198	209	266	435	840	2,028	4,722	7,208
1981	8,607	8,825	7,377	1,379	245	202	513	1,446	3,912	4,391	5,381	8,054
1982	9,461	1,191	184	200	189	200	184	189	267	1,461	4,579	1,422
1983	376	202	196	220	196	184	197	193	193	207	391	278
1984	771	205	184	200	198	188	325	756	2,099	2,411	4,569	7,861
1985	7,770	1,050	581	1,619	847	454	884	1,513	3,953	4,109	5,240	8,154
1986	8,645	8,164	5,087	1,360	187	191	239	477	1,182	2,396	4,904	6,287
1987	7,764	8,460	8,525	4,930	961	238	1,015	2,672	4,472	4,594	6,009	8,418
1988	9,473	9,133	6,699	1,076	969	2,342	2,587	3,767	4,815	6,448	8,507	9,913
1989	10,096	9,764	8,111	5,559	5,234	433	202	452	3,197	3,547	5,148	7,872
1990	8,854	9,174	7,876	2,397	1,386	2,037	2,396	3,978	6,519	7,919	8,501	9,708
1991	10,549	10,604	9,881	9,240	7,782	1,011	862	3,409	6,634	8,180	8,381	9,729
<b>Avg</b>	<b>7,700</b>	<b>6,552</b>	<b>5,130</b>	<b>2,667</b>	<b>1,522</b>	<b>756</b>	<b>1,052</b>	<b>1,966</b>	<b>3,430</b>	<b>4,248</b>	<b>5,844</b>	<b>7,487</b>
<b>W/AN/BN</b>	<b>6,775</b>	<b>4,863</b>	<b>2,992</b>	<b>613</b>	<b>201</b>	<b>198</b>	<b>251</b>	<b>412</b>	<b>933</b>	<b>1,942</b>	<b>4,223</b>	<b>5,492</b>
<b>D/C</b>	<b>8,420</b>	<b>7,866</b>	<b>6,792</b>	<b>4,264</b>	<b>2,548</b>	<b>1,189</b>	<b>1,675</b>	<b>3,175</b>	<b>5,372</b>	<b>6,042</b>	<b>7,105</b>	<b>9,039</b>

**Alternative 1**

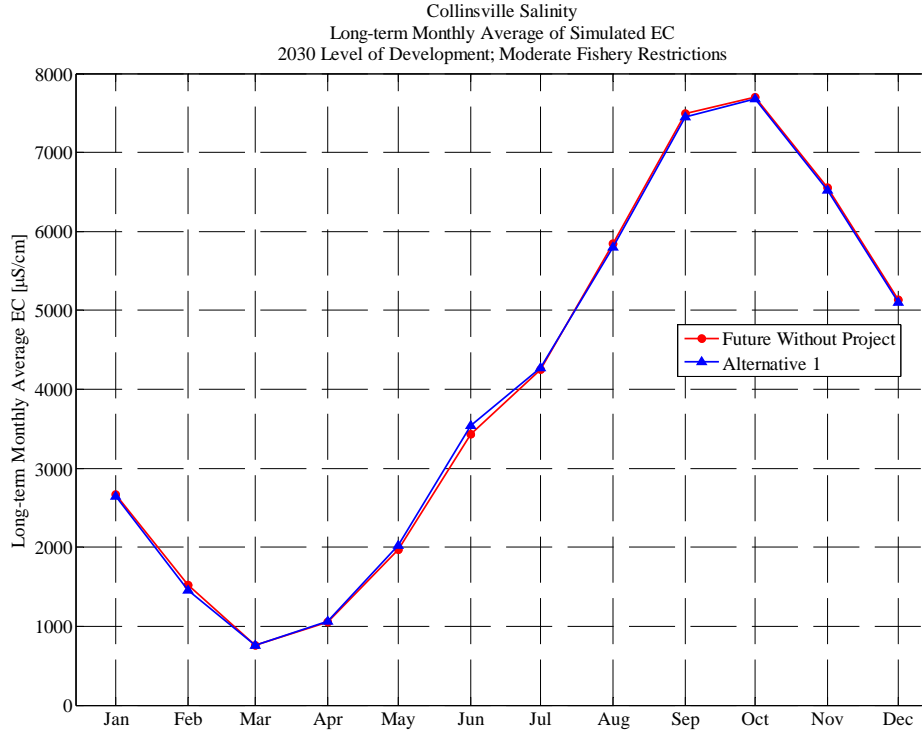
**Collinsville Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 1**

**2030 Level of Development; Moderate Fishery Restrictions**

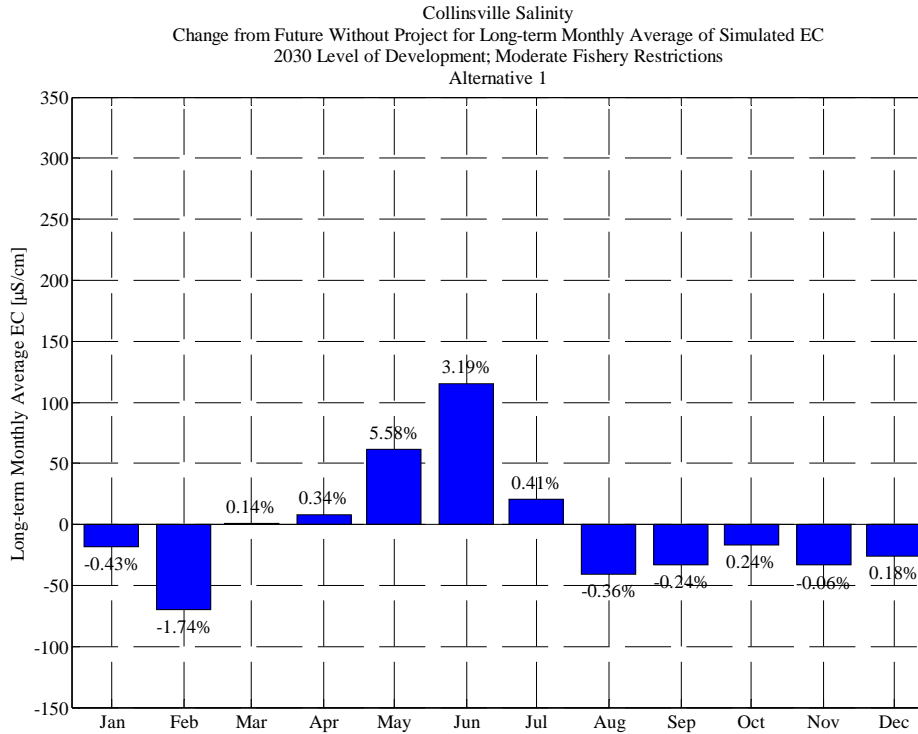
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	3,377	4,131	4,779	4,969	2,764	965	1,863	4,851	7,645	7,580	8,130	9,699
1977	9,336	9,747	7,313	7,152	2,087	2,619	4,567	6,293	7,850	8,034	8,445	9,455
1978	10,617	9,953	5,253	293	204	203	214	283	862	2,361	5,173	7,453
1979	8,581	8,561	7,422	1,814	238	214	328	641	1,207	2,869	5,489	8,152
1980	8,936	5,933	2,627	223	198	208	264	470	826	2,006	4,723	7,200
1981	8,593	8,776	7,306	1,368	251	202	513	1,627	4,012	4,341	5,418	8,099
1982	9,475	1,179	183	200	189	200	184	188	263	1,458	4,586	1,427
1983	382	203	195	220	196	184	197	193	193	207	392	279
1984	772	205	184	200	198	188	324	843	2,139	2,394	4,561	7,840
1985	7,753	1,049	622	1,661	859	458	878	1,584	3,953	4,056	5,230	8,227
1986	8,605	8,169	5,085	1,346	187	190	238	539	1,241	2,343	4,795	6,218
1987	7,732	8,443	8,501	4,806	928	237	1,017	2,891	4,690	4,628	6,013	8,457
1988	9,498	9,152	6,707	1,081	953	2,472	2,664	4,151	5,361	6,553	8,482	9,891
1989	10,073	9,630	7,946	5,363	5,022	420	202	478	3,371	3,570	5,169	8,149
1990	8,936	9,048	7,723	2,311	1,443	2,384	2,657	4,017	6,493	7,856	8,088	9,210
1991	10,268	10,126	9,816	9,368	7,513	954	844	3,392	6,626	8,050	8,156	9,509
<b>Avg</b>	<b>7,683</b>	<b>6,519</b>	<b>5,104</b>	<b>2,648</b>	<b>1,452</b>	<b>756</b>	<b>1,060</b>	<b>2,028</b>	<b>3,546</b>	<b>4,269</b>	<b>5,803</b>	<b>7,454</b>
<b>W/AN/BN</b>	<b>6,767</b>	<b>4,886</b>	<b>2,993</b>	<b>614</b>	<b>202</b>	<b>198</b>	<b>250</b>	<b>451</b>	<b>962</b>	<b>1,948</b>	<b>4,246</b>	<b>5,510</b>
<b>D/C</b>	<b>8,396</b>	<b>7,789</b>	<b>6,746</b>	<b>4,231</b>	<b>2,424</b>	<b>1,190</b>	<b>1,689</b>	<b>3,254</b>	<b>5,556</b>	<b>6,074</b>	<b>7,014</b>	<b>8,966</b>

**Percent (%) Change from Future Without Project for Collinsville Salinity  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

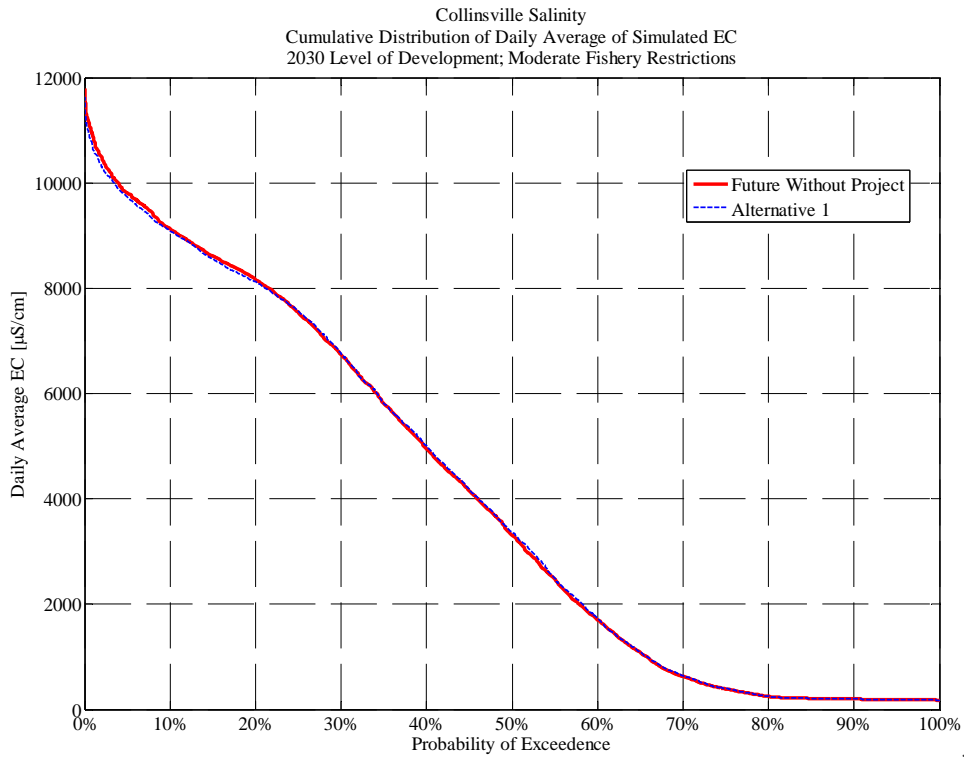
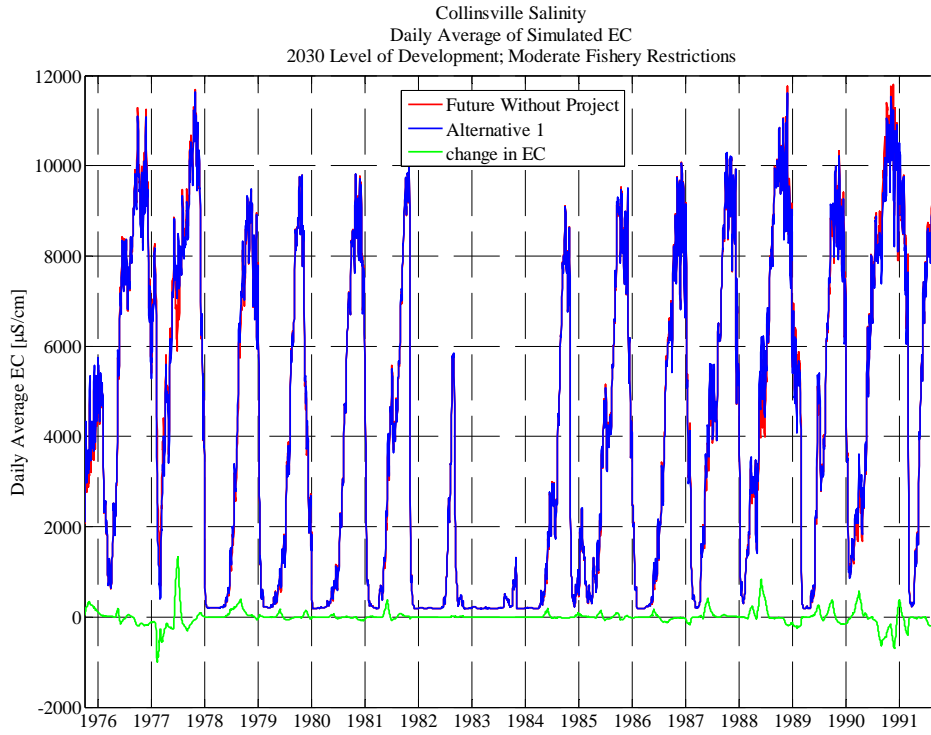
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	6.8%	7.0%	3.5%	1.3%	0.8%	1.8%	0.4%	1.1%	-1.1%	0.3%	0.2%	-1.3%
1977	-1.8%	-1.8%	-2.0%	-1.6%	-24.7%	-13.8%	-4.0%	-3.8%	10.3%	5.3%	-2.5%	-2.2%
1978	-0.8%	0.4%	0.7%	0.1%	0.0%	0.0%	0.1%	3.0%	12.4%	9.0%	6.2%	3.1%
1979	0.7%	0.3%	-0.4%	1.1%	0.7%	-0.2%	-1.0%	14.9%	1.7%	-2.0%	-0.7%	-0.1%
1980	-0.1%	1.8%	0.1%	-0.6%	-0.1%	-0.1%	-0.8%	8.0%	-1.7%	-1.1%	0.0%	-0.1%
1981	-0.2%	-0.6%	-1.0%	-0.8%	2.4%	0.2%	-0.1%	12.5%	2.6%	-1.2%	0.7%	0.6%
1982	0.1%	-1.0%	-0.1%	0.1%	0.1%	0.0%	0.0%	-0.2%	-1.3%	-0.2%	0.2%	0.3%
1983	1.8%	0.3%	-0.1%	-0.1%	0.0%	0.0%	0.1%	-0.4%	0.0%	0.0%	0.2%	0.1%
1984	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	-0.2%	11.5%	1.9%	-0.7%	-0.2%	-0.3%
1985	-0.2%	-0.1%	7.0%	2.6%	1.5%	0.9%	-0.7%	4.7%	0.0%	-1.3%	-0.2%	0.9%
1986	-0.5%	0.1%	0.0%	-1.0%	0.0%	-0.2%	-0.3%	13.2%	5.0%	-2.2%	-2.2%	-1.1%
1987	-0.4%	-0.2%	-0.3%	-2.5%	-3.4%	-0.4%	0.2%	8.2%	4.9%	0.7%	0.1%	0.5%
1988	0.3%	0.2%	0.1%	0.4%	-1.7%	5.6%	3.0%	10.2%	11.3%	1.6%	-0.3%	-0.2%
1989	-0.2%	-1.4%	-2.0%	-3.5%	-4.1%	-2.9%	0.0%	5.7%	5.5%	0.6%	0.4%	3.5%
1990	0.9%	-1.4%	-1.9%	-3.6%	4.1%	17.0%	10.9%	1.0%	-0.4%	-0.8%	-4.9%	-5.1%
1991	-2.7%	-4.5%	-0.7%	1.4%	-3.5%	-5.6%	-2.1%	-0.5%	-0.1%	-1.6%	-2.7%	-2.3%
<b>Avg</b>	<b>0.2%</b>	<b>-0.1%</b>	<b>0.2%</b>	<b>-0.4%</b>	<b>-1.7%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>5.6%</b>	<b>3.2%</b>	<b>0.4%</b>	<b>-0.4%</b>	<b>-0.2%</b>
<b>W/AN/BN</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>-0.1%</b>	<b>0.1%</b>	<b>-0.1%</b>	<b>-0.3%</b>	<b>7.2%</b>	<b>2.6%</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.3%</b>
<b>D/C</b>	<b>0.3%</b>	<b>-0.3%</b>	<b>0.3%</b>	<b>-0.7%</b>	<b>-3.2%</b>	<b>0.3%</b>	<b>0.8%</b>	<b>4.4%</b>	<b>3.7%</b>	<b>0.4%</b>	<b>-1.0%</b>	<b>-0.6%</b>



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**Alternative 2**

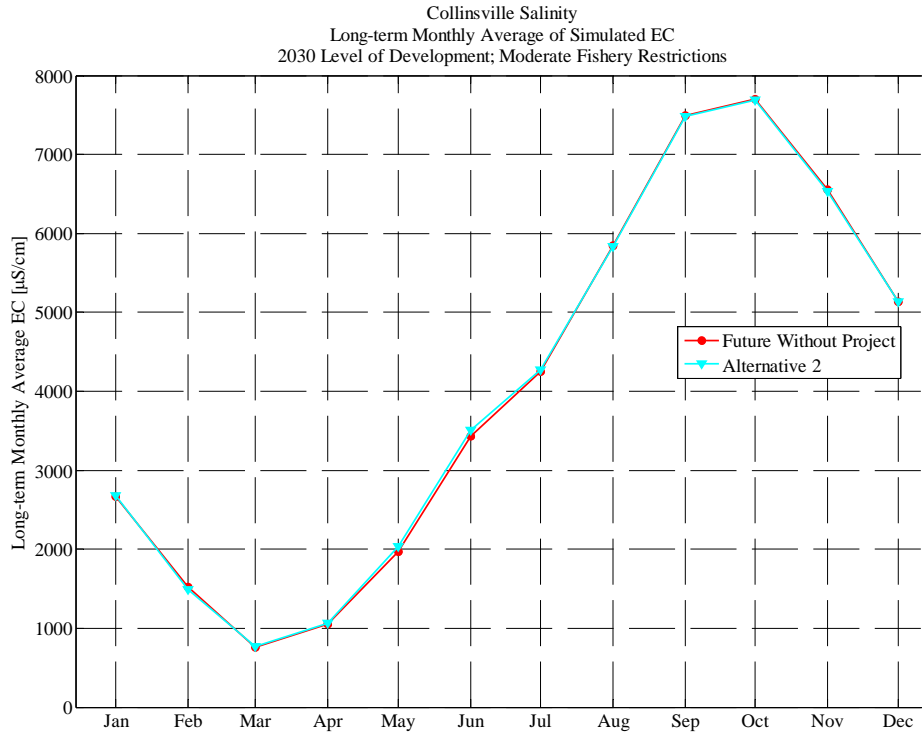
**Collinsville Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )**

**Alternative 2****2030 Level of Development; Moderate Fishery Restrictions**

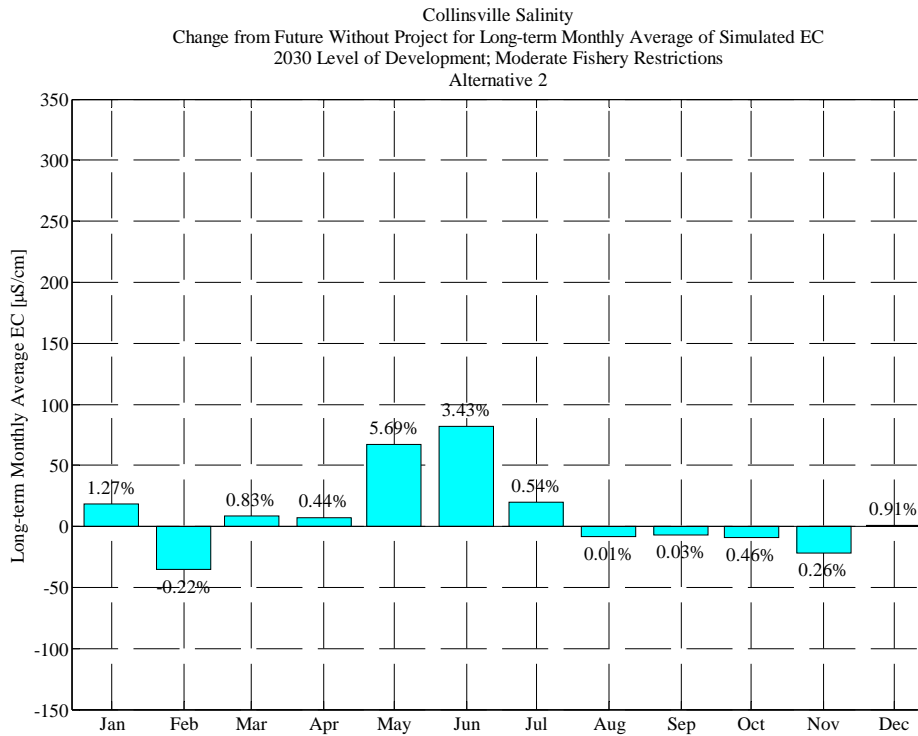
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	3,407	4,206	4,822	4,980	2,822	983	1,865	4,852	7,646	7,575	8,127	9,702
1977	9,339	9,750	7,301	7,136	2,148	2,657	4,533	6,354	7,080	7,680	8,652	9,649
1978	10,701	9,919	5,532	312	204	203	214	283	862	2,361	5,173	7,451
1979	8,580	8,568	7,418	1,861	240	214	328	641	1,209	2,871	5,490	8,152
1980	8,935	6,018	2,713	225	198	208	264	470	826	2,006	4,723	7,200
1981	8,593	8,775	7,306	1,381	252	202	513	1,627	4,012	4,339	5,416	8,098
1982	9,474	1,191	184	199	189	200	184	188	263	1,458	4,586	1,427
1983	389	203	195	220	196	184	197	193	193	207	392	279
1984	772	205	184	200	198	188	324	843	2,139	2,394	4,561	7,840
1985	7,752	1,052	635	1,701	892	463	879	1,584	3,953	4,056	5,230	8,227
1986	8,606	8,169	5,085	1,398	187	190	238	539	1,393	2,412	4,767	6,207
1987	7,726	8,440	8,501	5,018	1,008	240	1,014	2,889	4,746	4,652	6,014	8,466
1988	9,504	9,155	6,708	1,096	960	2,475	2,665	4,151	5,363	6,669	8,592	9,920
1989	10,082	9,632	7,946	5,363	5,021	421	202	478	3,371	3,570	5,169	8,163
1990	8,953	9,057	7,717	2,396	1,481	2,393	2,659	4,017	6,494	7,859	8,120	9,238
1991	10,250	10,150	9,837	9,468	7,781	1,005	863	3,420	6,649	8,176	8,358	9,662
<b>Avg</b>	<b>7,691</b>	<b>6,531</b>	<b>5,130</b>	<b>2,685</b>	<b>1,486</b>	<b>764</b>	<b>1,059</b>	<b>2,033</b>	<b>3,512</b>	<b>4,268</b>	<b>5,836</b>	<b>7,480</b>
<b>W/AN/BN</b>	<b>6,779</b>	<b>4,896</b>	<b>3,044</b>	<b>631</b>	<b>202</b>	<b>198</b>	<b>250</b>	<b>451</b>	<b>984</b>	<b>1,958</b>	<b>4,242</b>	<b>5,508</b>
<b>D/C</b>	<b>8,401</b>	<b>7,802</b>	<b>6,752</b>	<b>4,282</b>	<b>2,485</b>	<b>1,204</b>	<b>1,688</b>	<b>3,264</b>	<b>5,479</b>	<b>6,064</b>	<b>7,075</b>	<b>9,014</b>

**Percent (%) Change from Future Without Project for Collinsville Salinity****(Alternative 2 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	7.7%	8.9%	4.5%	1.6%	3.0%	3.7%	0.5%	1.1%	-1.1%	0.2%	0.2%	-1.3%
1977	-1.7%	-1.8%	-2.2%	-1.8%	-22.5%	-12.6%	-4.8%	-2.8%	-0.5%	0.7%	-0.1%	-0.2%
1978	0.0%	0.0%	6.1%	6.4%	0.0%	0.0%	0.1%	3.0%	12.4%	9.0%	6.2%	3.1%
1979	0.7%	0.4%	-0.5%	3.7%	1.3%	-0.2%	-1.1%	14.9%	1.9%	-2.0%	-0.7%	-0.1%
1980	-0.1%	3.2%	3.4%	0.2%	-0.1%	-0.1%	-0.8%	8.0%	-1.7%	-1.1%	0.0%	-0.1%
1981	-0.2%	-0.6%	-1.0%	0.2%	2.9%	0.2%	-0.1%	12.5%	2.6%	-1.2%	0.6%	0.6%
1982	0.1%	0.0%	0.0%	-0.2%	-0.1%	0.0%	0.0%	-0.2%	-1.3%	-0.2%	0.2%	0.3%
1983	3.5%	0.5%	-0.1%	-0.2%	0.0%	0.0%	0.1%	-0.4%	0.0%	0.0%	0.2%	0.1%
1984	0.1%	0.1%	0.0%	0.0%	-0.1%	0.0%	-0.2%	11.5%	1.9%	-0.7%	-0.2%	-0.3%
1985	-0.2%	0.2%	9.2%	5.1%	5.4%	1.9%	-0.6%	4.7%	0.0%	-1.3%	-0.2%	0.9%
1986	-0.5%	0.1%	0.0%	2.9%	0.1%	-0.3%	-0.3%	13.2%	17.9%	0.7%	-2.8%	-1.3%
1987	-0.5%	-0.2%	-0.3%	1.8%	4.9%	0.8%	-0.1%	8.2%	6.1%	1.3%	0.1%	0.6%
1988	0.3%	0.2%	0.1%	1.9%	-0.9%	5.7%	3.0%	10.2%	11.4%	3.4%	1.0%	0.1%
1989	-0.1%	-1.4%	-2.0%	-3.5%	-4.1%	-2.8%	0.0%	5.7%	5.5%	0.6%	0.4%	3.7%
1990	1.1%	-1.3%	-2.0%	0.0%	6.8%	17.5%	11.0%	1.0%	-0.4%	-0.8%	-4.5%	-4.8%
1991	-2.8%	-4.3%	-0.4%	2.5%	0.0%	-0.6%	0.1%	0.3%	0.2%	0.0%	-0.3%	-0.7%
<b>Avg</b>	<b>0.5%</b>	<b>0.3%</b>	<b>0.9%</b>	<b>1.3%</b>	<b>-0.2%</b>	<b>0.8%</b>	<b>0.4%</b>	<b>5.7%</b>	<b>3.4%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.0%</b>
<b>W/AN/BN</b>	<b>0.6%</b>	<b>0.6%</b>	<b>1.2%</b>	<b>1.8%</b>	<b>0.1%</b>	<b>-0.1%</b>	<b>-0.3%</b>	<b>7.2%</b>	<b>4.4%</b>	<b>0.8%</b>	<b>0.4%</b>	<b>0.2%</b>
<b>D/C</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>-0.5%</b>	<b>1.5%</b>	<b>1.0%</b>	<b>4.5%</b>	<b>2.6%</b>	<b>0.3%</b>	<b>-0.3%</b>	<b>-0.1%</b>

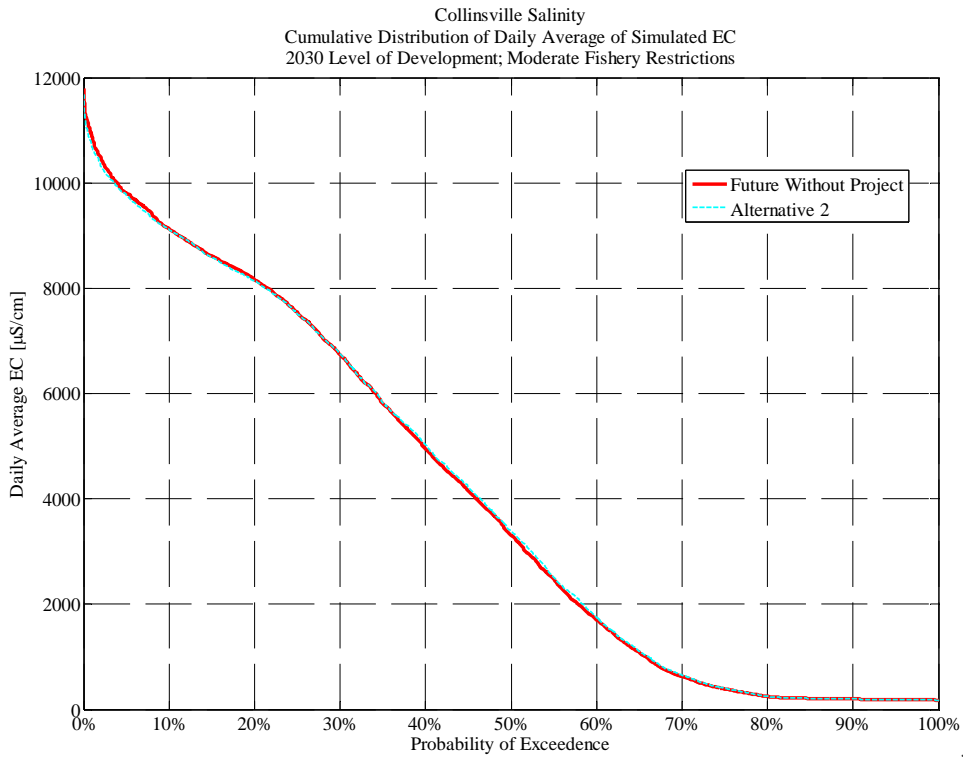
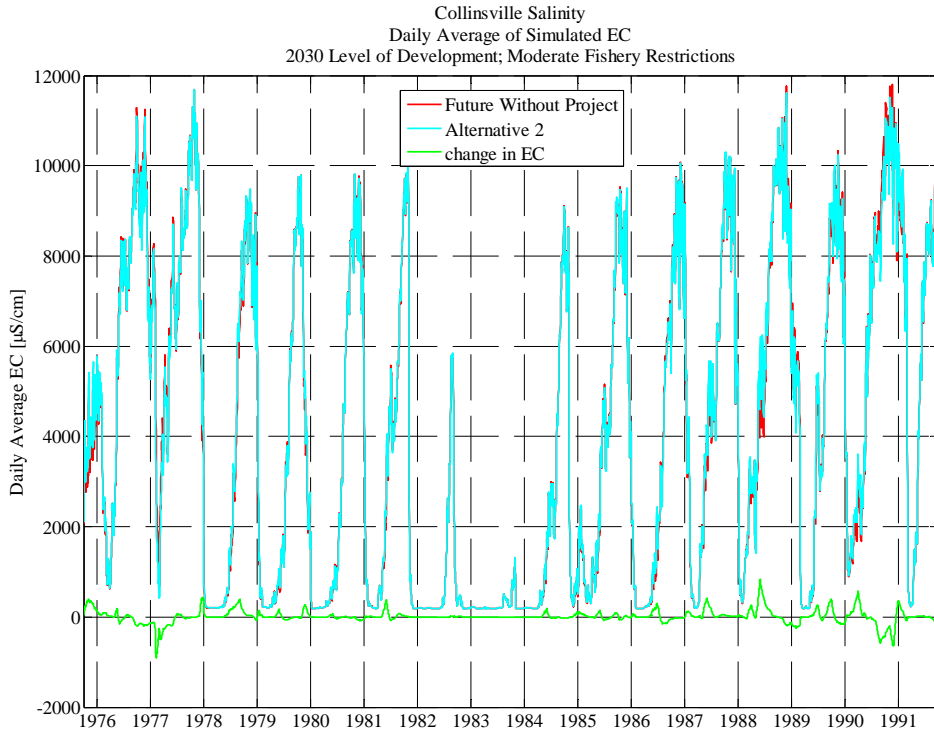


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**Alternative 3**

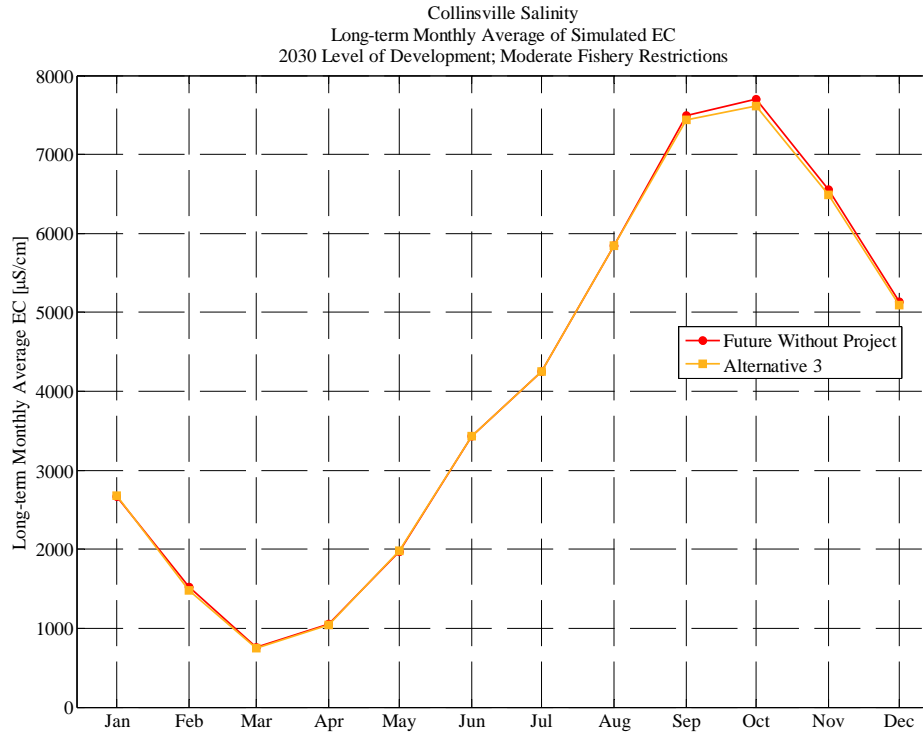
**Collinsville Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )  
Alternative 3**

**2030 Level of Development; Moderate Fishery Restrictions**

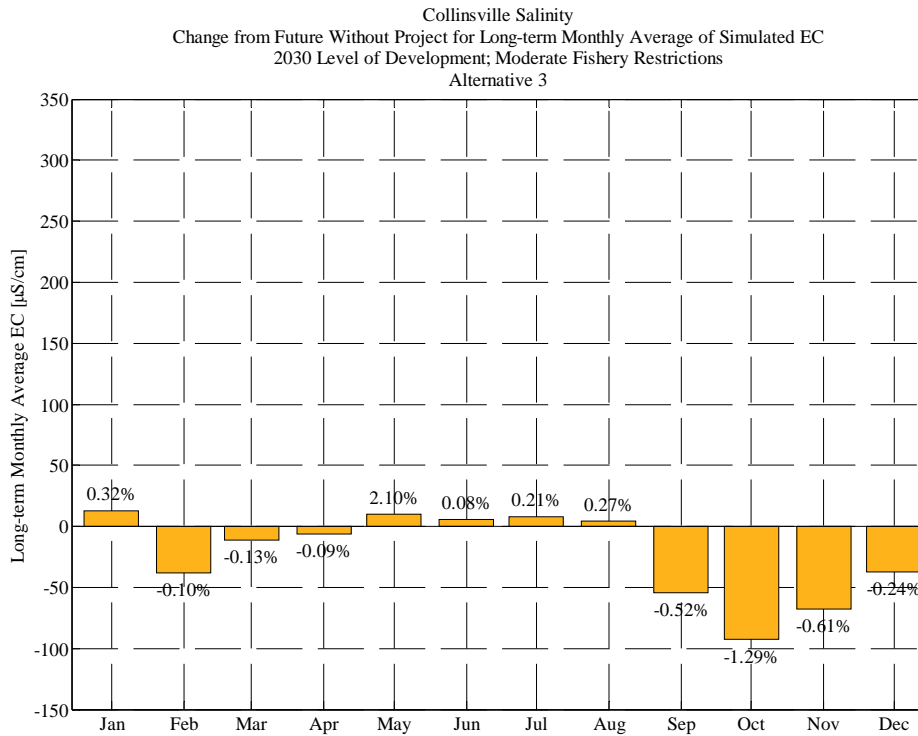
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	2,889	3,636	4,557	4,871	2,722	945	1,853	4,676	7,475	7,466	8,045	9,533
1977	9,188	9,625	7,385	7,216	2,220	2,690	4,538	6,278	7,883	8,088	8,505	9,524
1978	10,641	9,939	5,216	292	204	203	214	283	852	2,329	5,111	7,471
1979	8,617	8,551	7,433	1,816	238	214	331	629	1,151	2,973	5,666	8,239
1980	9,003	6,071	2,747	226	198	209	266	450	817	2,007	4,731	7,229
1981	8,622	8,837	7,397	1,380	245	202	513	1,540	3,818	4,328	5,438	8,047
1982	9,446	1,200	184	200	189	200	184	189	263	1,459	4,586	1,426
1983	376	202	196	220	196	184	197	193	193	207	392	279
1984	772	205	184	200	198	187	320	786	2,097	2,387	4,551	7,862
1985	7,811	1,078	586	1,621	854	456	885	1,557	3,930	4,076	5,232	8,147
1986	8,611	8,166	5,075	1,339	186	190	238	496	1,150	2,321	4,844	6,244
1987	7,756	8,462	8,526	5,651	1,188	248	1,009	2,555	4,196	4,480	6,041	8,392
1988	9,451	9,103	6,667	1,074	936	2,241	2,540	4,122	4,866	6,447	8,620	9,930
1989	10,003	9,549	7,916	5,341	4,999	420	202	443	3,296	3,603	5,205	7,592
1990	8,435	8,854	7,766	2,326	1,421	2,317	2,578	4,001	6,354	7,752	8,225	9,288
1991	10,110	10,282	9,646	9,098	7,741	1,007	862	3,415	6,638	8,179	8,380	9,728
<b>Avg</b>	<b>7,608</b>	<b>6,485</b>	<b>5,093</b>	<b>2,679</b>	<b>1,483</b>	<b>745</b>	<b>1,046</b>	<b>1,976</b>	<b>3,436</b>	<b>4,256</b>	<b>5,848</b>	<b>7,433</b>
<b>W/AN/BN</b>	<b>6,781</b>	<b>4,905</b>	<b>3,005</b>	<b>613</b>	<b>202</b>	<b>198</b>	<b>250</b>	<b>432</b>	<b>932</b>	<b>1,955</b>	<b>4,269</b>	<b>5,536</b>
<b>D/C</b>	<b>8,252</b>	<b>7,714</b>	<b>6,716</b>	<b>4,286</b>	<b>2,481</b>	<b>1,169</b>	<b>1,664</b>	<b>3,176</b>	<b>5,384</b>	<b>6,047</b>	<b>7,077</b>	<b>8,909</b>

**Percent (%) Change from Future Without Project for Collinsville Salinity  
(Alternative 3 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

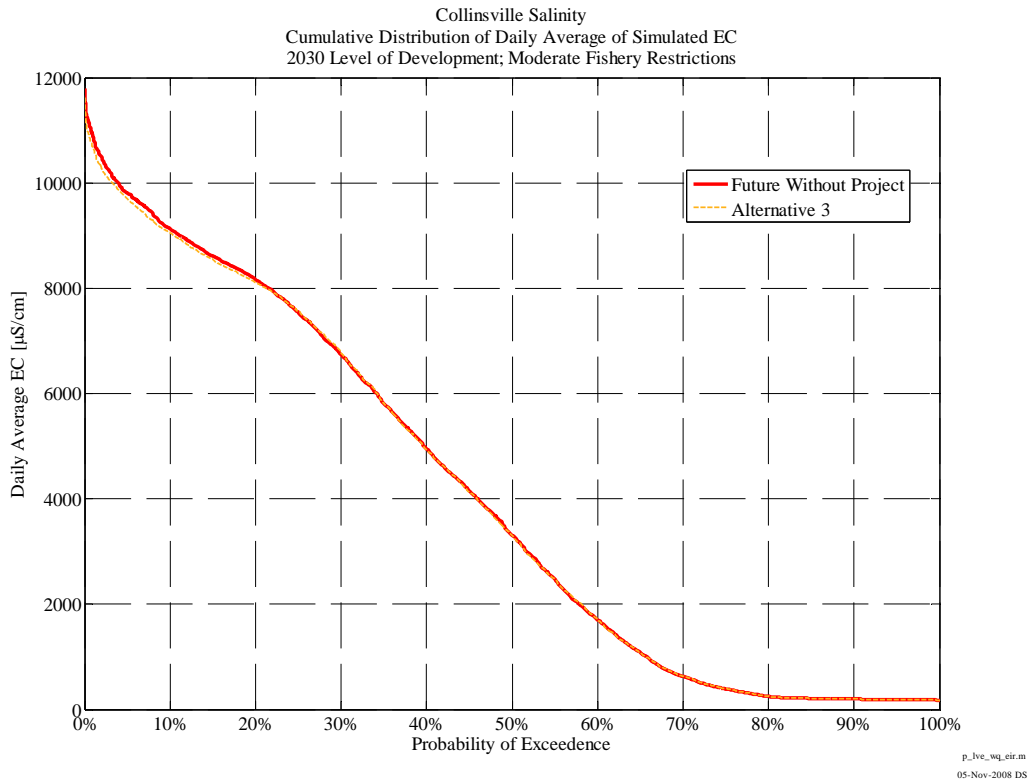
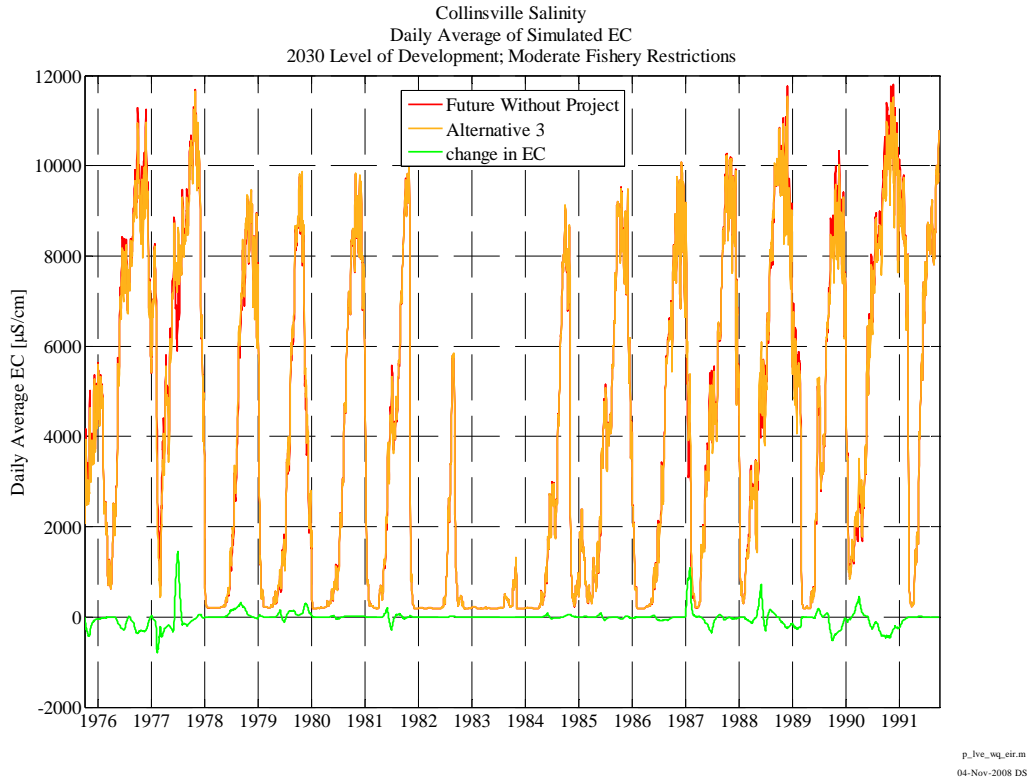
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-8.7%	-5.8%	-1.3%	-0.7%	-0.7%	-0.4%	-0.1%	-2.6%	-3.3%	-1.2%	-0.8%	-3.0%
1977	-3.3%	-3.0%	-1.0%	-0.7%	-19.9%	-11.5%	-4.7%	-4.0%	10.8%	6.0%	-1.8%	-1.5%
1978	-0.6%	0.2%	0.0%	-0.4%	0.0%	0.0%	0.0%	2.9%	11.1%	7.5%	4.9%	3.4%
1979	1.1%	0.2%	-0.3%	1.3%	0.7%	-0.2%	0.0%	12.8%	-2.9%	1.5%	2.5%	0.9%
1980	0.6%	4.1%	4.7%	0.8%	-0.1%	0.0%	0.0%	3.5%	-2.8%	-1.0%	0.2%	0.3%
1981	0.2%	0.1%	0.3%	0.1%	0.0%	0.0%	0.0%	6.5%	-2.4%	-1.4%	1.1%	-0.1%
1982	-0.2%	0.8%	0.0%	0.2%	0.1%	0.0%	0.0%	-0.1%	-1.3%	-0.1%	0.2%	0.2%
1983	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.1%	0.0%	0.2%	0.2%
1984	0.2%	0.0%	0.0%	0.0%	-0.2%	-0.4%	-1.5%	3.9%	-0.1%	-1.0%	-0.4%	0.0%
1985	0.5%	2.6%	0.7%	0.1%	0.9%	0.4%	0.1%	2.9%	-0.6%	-0.8%	-0.2%	-0.1%
1986	-0.4%	0.0%	-0.2%	-1.5%	-0.1%	-0.2%	-0.4%	4.0%	-2.7%	-3.1%	-1.2%	-0.7%
1987	-0.1%	0.0%	0.0%	14.6%	23.7%	4.1%	-0.6%	-4.3%	-6.2%	-2.5%	0.5%	-0.3%
1988	-0.2%	-0.3%	-0.5%	-0.2%	-3.5%	-4.3%	-1.8%	9.4%	1.1%	0.0%	1.3%	0.2%
1989	-0.9%	-2.2%	-2.4%	-3.9%	-4.5%	-3.0%	0.0%	-2.0%	3.1%	1.6%	1.1%	-3.6%
1990	-4.7%	-3.5%	-1.4%	-2.9%	2.5%	13.7%	7.6%	0.6%	-2.5%	-2.1%	-3.3%	-4.3%
1991	-4.2%	-3.0%	-2.4%	-1.5%	-0.5%	-0.3%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	<b>-1.3%</b>	<b>-0.6%</b>	<b>-0.2%</b>	<b>0.3%</b>	<b>-0.1%</b>	<b>-0.1%</b>	<b>-0.1%</b>	<b>2.1%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>-0.5%</b>
<b>W/AN/BN</b>	<b>0.1%</b>	<b>0.8%</b>	<b>0.6%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>-0.1%</b>	<b>-0.3%</b>	<b>3.8%</b>	<b>0.2%</b>	<b>0.6%</b>	<b>0.9%</b>	<b>0.6%</b>
<b>D/C</b>	<b>-2.4%</b>	<b>-1.7%</b>	<b>-0.9%</b>	<b>0.5%</b>	<b>-0.2%</b>	<b>-0.1%</b>	<b>0.1%</b>	<b>0.7%</b>	<b>0.0%</b>	<b>-0.1%</b>	<b>-0.2%</b>	<b>-1.4%</b>



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**Alternative 4**

**Collinsville Salinity  
Monthly Average of Simulated Values (EC, µS/cm)**

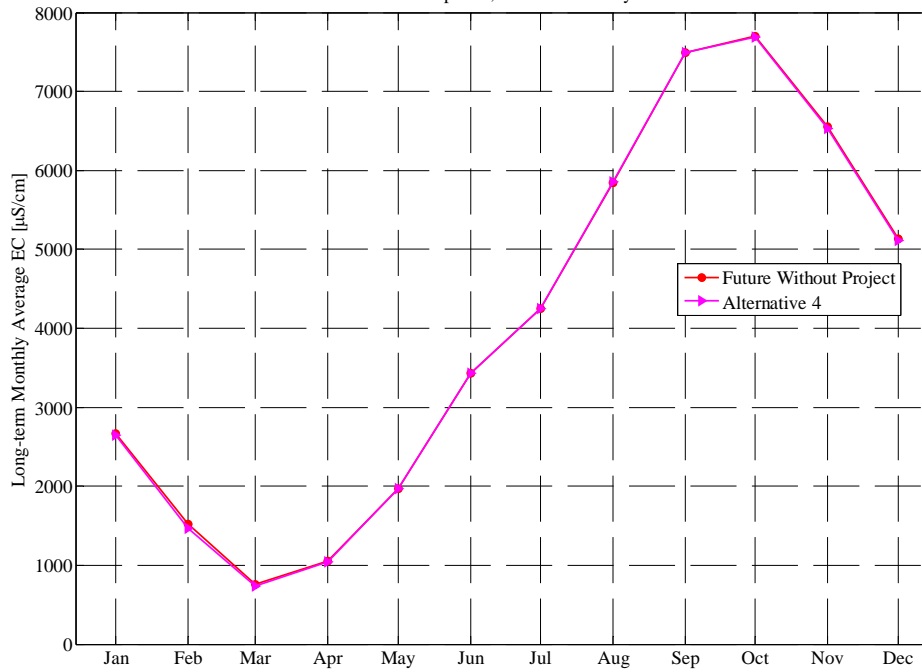
**Alternative 4****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	3,155	3,853	4,615	4,903	2,741	948	1,855	4,798	7,733	7,560	8,101	9,695
1977	9,347	9,755	7,301	7,138	2,152	2,703	4,677	6,521	7,136	7,660	8,630	9,606
1978	10,679	9,932	5,237	294	204	203	214	275	767	2,166	4,869	7,227
1979	8,523	8,541	7,452	1,792	237	214	331	558	1,186	2,933	5,622	8,244
1980	8,972	5,837	2,626	224	198	208	265	435	840	2,071	4,794	7,255
1981	8,619	8,831	7,375	1,378	245	202	513	1,446	3,912	4,392	5,382	8,057
1982	9,468	1,192	184	200	189	200	184	189	267	1,463	4,582	1,424
1983	376	202	196	220	196	184	197	193	192	207	392	279
1984	771	205	184	200	198	188	325	756	2,101	2,413	4,571	7,866
1985	7,772	1,051	581	1,619	846	454	884	1,513	3,953	4,110	5,244	8,156
1986	8,644	8,161	5,085	1,360	187	191	239	475	1,181	2,396	4,933	6,324
1987	7,782	8,467	8,527	4,930	960	238	1,015	2,672	4,472	4,594	6,009	8,418
1988	9,474	9,135	6,700	1,076	969	2,342	2,587	3,767	4,815	6,448	8,507	9,918
1989	10,090	9,638	7,944	5,364	5,024	418	202	452	3,196	3,546	5,150	7,911
1990	8,824	9,136	7,848	2,387	1,385	2,037	2,397	3,978	6,520	7,910	8,500	9,710
1991	10,544	10,608	9,879	9,231	7,779	1,010	862	3,409	6,635	8,180	8,381	9,729
<b>Avg</b>	<b>7,690</b>	<b>6,534</b>	<b>5,108</b>	<b>2,645</b>	<b>1,469</b>	<b>734</b>	<b>1,047</b>	<b>1,965</b>	<b>3,432</b>	<b>4,253</b>	<b>5,854</b>	<b>7,489</b>
<b>W/AN/BN</b>	<b>6,776</b>	<b>4,867</b>	<b>2,995</b>	<b>613</b>	<b>201</b>	<b>198</b>	<b>251</b>	<b>412</b>	<b>934</b>	<b>1,950</b>	<b>4,252</b>	<b>5,517</b>
<b>D/C</b>	<b>8,401</b>	<b>7,830</b>	<b>6,752</b>	<b>4,225</b>	<b>2,456</b>	<b>1,150</b>	<b>1,666</b>	<b>3,173</b>	<b>5,375</b>	<b>6,044</b>	<b>7,100</b>	<b>9,022</b>

**Percent (%) Change from Future Without Project for Collinsville Salinity****(Alternative 4 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

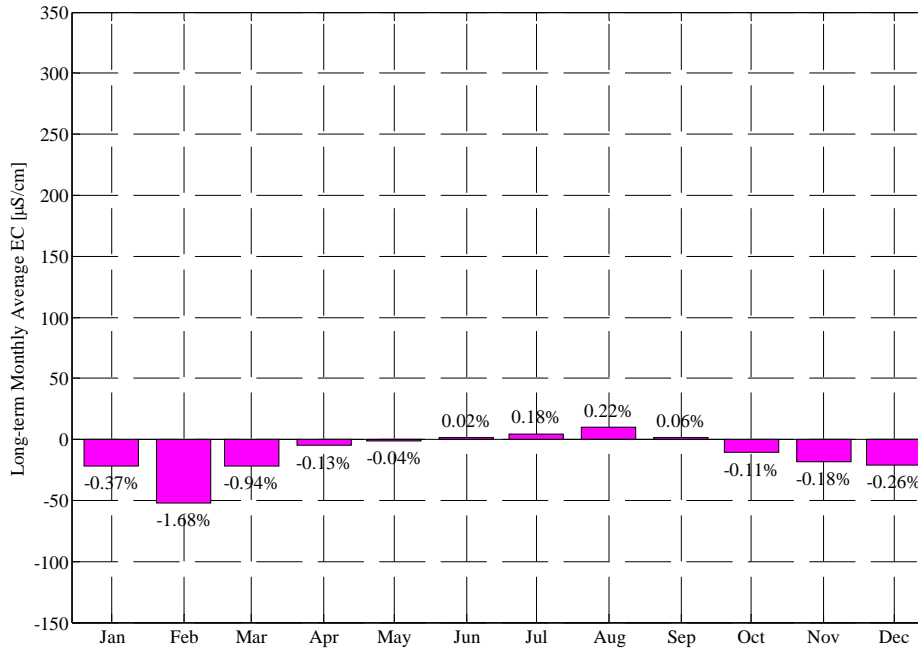
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.3%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-1.3%
1977	-1.7%	-1.7%	-2.2%	-1.8%	-22.3%	-11.1%	-1.7%	-0.3%	0.3%	0.4%	-0.3%	-0.7%
1978	-0.2%	0.2%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.1%	0.0%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	1.7%	1.0%
1980	0.3%	0.1%	0.0%	0.0%	-0.3%	-0.4%	-0.2%	0.0%	0.0%	2.1%	1.5%	0.6%
1981	0.1%	0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
1984	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.1%
1985	0.0%	0.1%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	-0.1%	0.0%	0.6%	0.6%
1987	0.2%	0.1%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	-0.1%	-1.3%	-2.1%	-3.5%	-4.0%	-3.5%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.5%
1990	-0.3%	-0.4%	-0.4%	-0.4%	-0.1%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	<b>-0.1%</b>	<b>-0.2%</b>	<b>-0.3%</b>	<b>-0.4%</b>	<b>-1.7%</b>	<b>-0.9%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.1%</b>
<b>W/AN/BN</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.6%</b>	<b>0.3%</b>
<b>D/C</b>	<b>-0.2%</b>	<b>-0.4%</b>	<b>-0.5%</b>	<b>-0.7%</b>	<b>-3.0%</b>	<b>-1.6%</b>	<b>-0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>-0.2%</b>

Collinsville Salinity  
 Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions

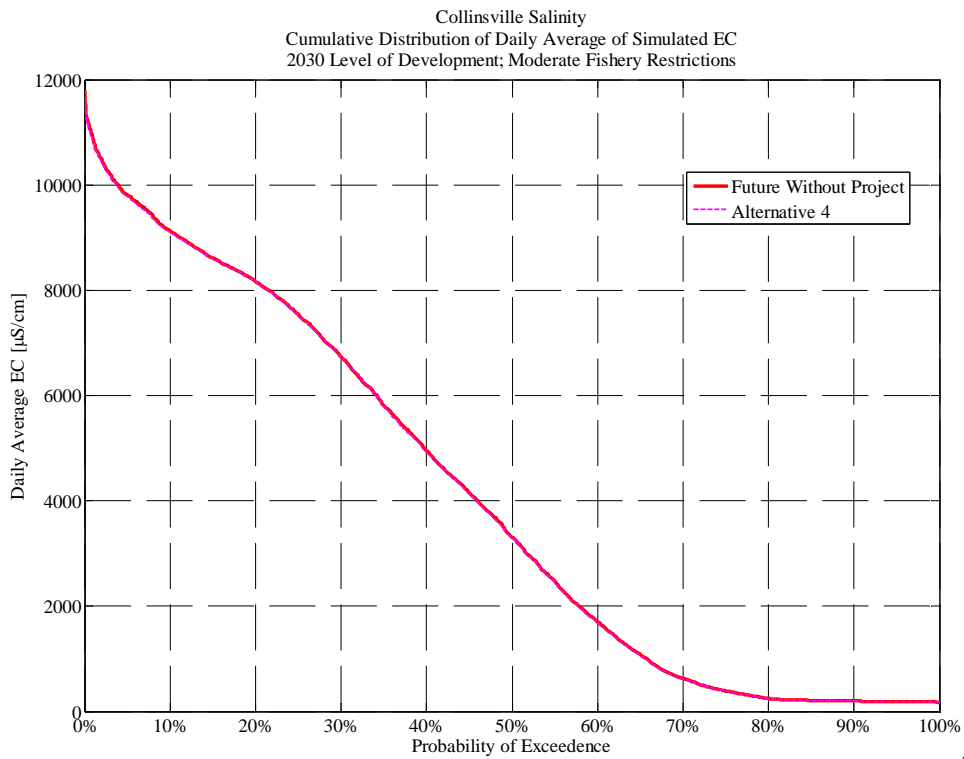
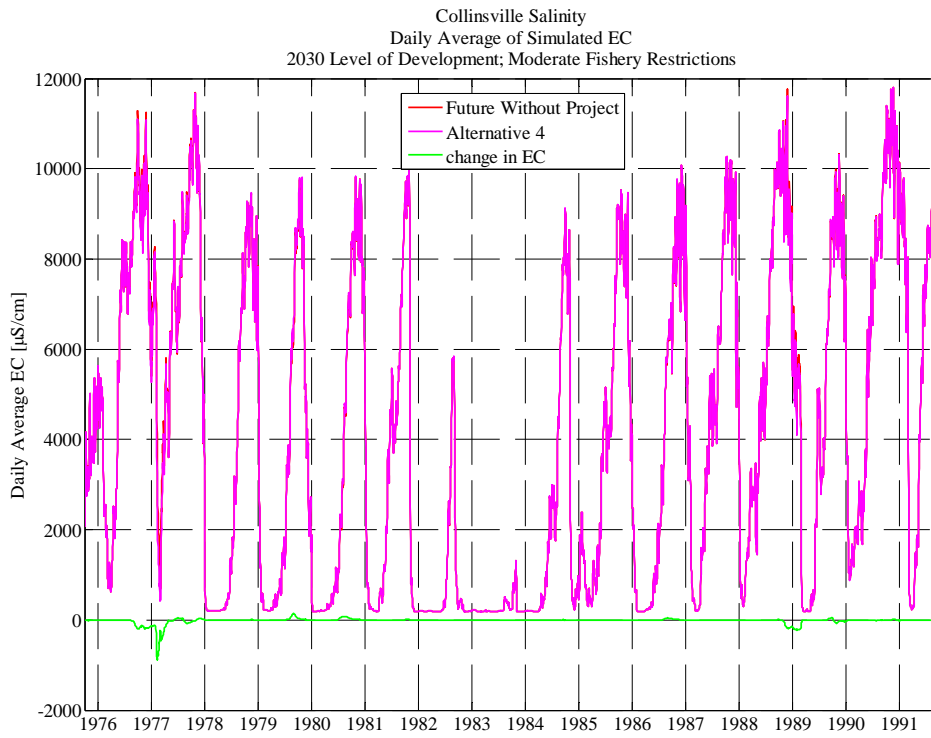


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Collinsville Salinity  
 Change from Future Without Project for Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions  
 Alternative 4



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## Emmaton

### *Future Without Project*

**Emmaton Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Future Without Project**  
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	577	721	945	1,086	521	233	391	1,284	2,653	2,234	2,686	3,687
1977	3,050	3,409	1,926	2,071	594	725	1,126	2,043	2,309	2,679	3,108	3,776
1978	4,870	4,023	1,197	206	193	192	195	200	237	445	1,238	2,138
1979	2,576	2,477	2,006	449	207	193	204	217	278	576	1,465	2,647
1980	3,158	1,390	528	188	189	189	203	210	250	440	1,200	2,136
1981	2,708	2,679	1,853	362	191	184	207	316	965	954	1,330	2,862
1982	3,589	332	179	192	181	191	179	181	187	366	1,150	327
1983	185	184	184	196	186	181	185	181	182	189	192	180
1984	216	178	180	187	186	182	200	242	441	447	1,135	2,645
1985	2,131	290	207	317	231	201	243	313	974	849	1,267	2,762
1986	2,940	2,439	1,162	347	182	183	201	210	297	517	1,234	1,653
1987	2,388	2,596	2,548	1,137	258	189	275	534	1,108	999	1,601	3,045
1988	3,202	2,877	1,592	329	261	485	485	801	1,225	1,827	2,965	3,912
1989	3,745	3,209	2,376	1,150	1,373	200	183	192	811	724	1,256	2,653
1990	2,677	2,951	2,191	485	295	382	440	948	2,047	2,527	2,873	3,788
1991	4,121	4,066	3,669	3,213	2,188	297	249	793	2,290	2,965	2,908	3,826
<b>Avg</b>	2,633	2,114	1,421	745	452	263	310	542	1,016	1,171	1,725	2,627
<b>W/AN/BN</b>	2,505	1,575	777	252	189	187	195	206	267	426	1,088	1,675
<b>D/C</b>	2,733	2,533	1,923	1,128	657	322	400	803	1,598	1,751	2,221	3,368



**Alternative 1**

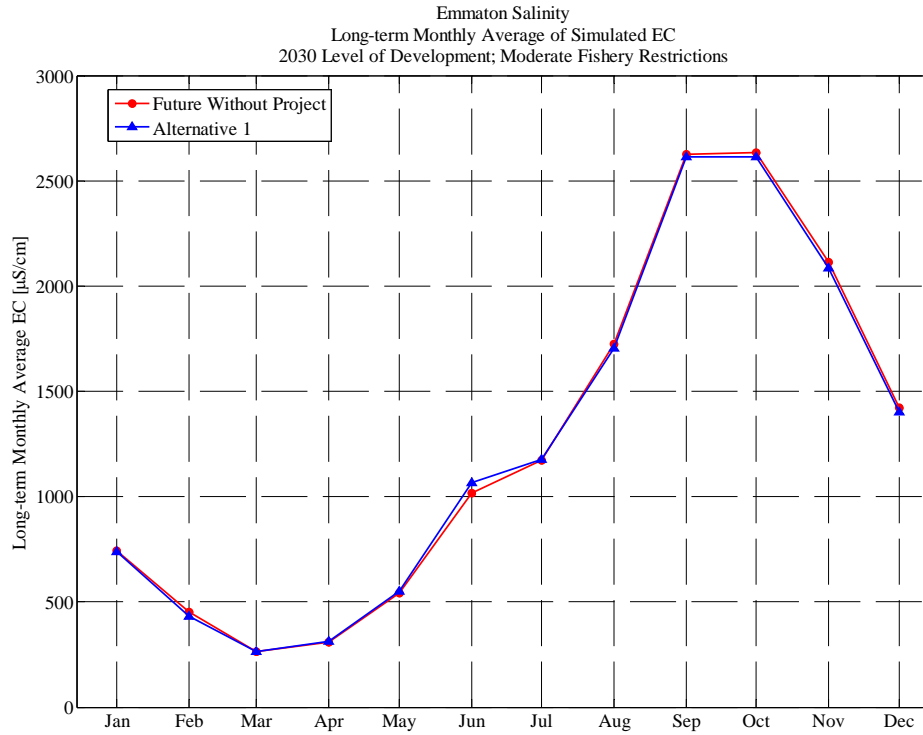
**Emmaton Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )**  
**Alternative 1**

**2030 Level of Development; Moderate Fishery Restrictions**

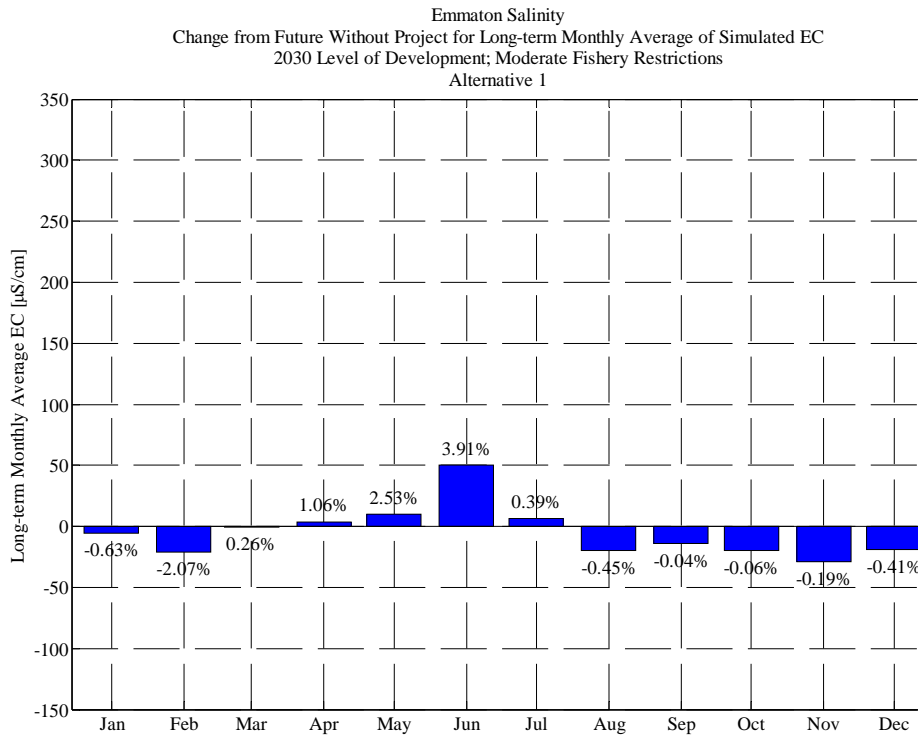
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	627	800	999	1,110	526	235	392	1,305	2,599	2,248	2,701	3,623
1977	2,976	3,284	1,857	2,006	460	643	1,104	1,945	2,744	2,808	3,045	3,646
1978	4,821	4,046	1,210	206	193	192	195	199	246	481	1,352	2,278
1979	2,610	2,489	1,993	452	207	192	203	222	279	561	1,443	2,642
1980	3,152	1,423	534	187	189	189	203	211	248	436	1,201	2,132
1981	2,701	2,654	1,821	358	191	184	207	342	1,004	934	1,346	2,889
1982	3,596	331	179	193	181	191	179	181	187	366	1,153	328
1983	186	184	184	196	186	181	185	181	182	189	192	180
1984	216	178	180	187	186	182	200	249	450	441	1,130	2,623
1985	2,125	290	210	326	233	202	243	319	984	830	1,261	2,843
1986	2,865	2,444	1,163	344	182	182	202	215	306	504	1,190	1,619
1987	2,370	2,586	2,535	1,106	253	189	277	583	1,199	1,014	1,599	3,089
1988	3,216	2,886	1,595	330	261	502	506	930	1,441	1,887	2,956	3,898
1989	3,730	3,131	2,289	1,086	1,285	198	183	193	870	745	1,269	2,859
1990	2,705	2,865	2,112	463	300	446	503	960	2,027	2,495	2,599	3,476
1991	3,921	3,770	3,574	3,273	2,070	286	248	788	2,286	2,904	2,856	3,689
<b>Avg</b>	2,614	2,085	1,402	739	432	262	314	551	1,066	1,178	1,706	2,613
<b>W/AN/BN</b>	2,492	1,585	778	252	189	187	195	208	271	425	1,095	1,686
<b>D/C</b>	2,708	2,474	1,888	1,117	620	320	407	818	1,684	1,763	2,181	3,335

**Percent (%) Change from Future Without Project for Emmatton Salinity**  
**(Alternative 1 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Moderate Fishery Restrictions**

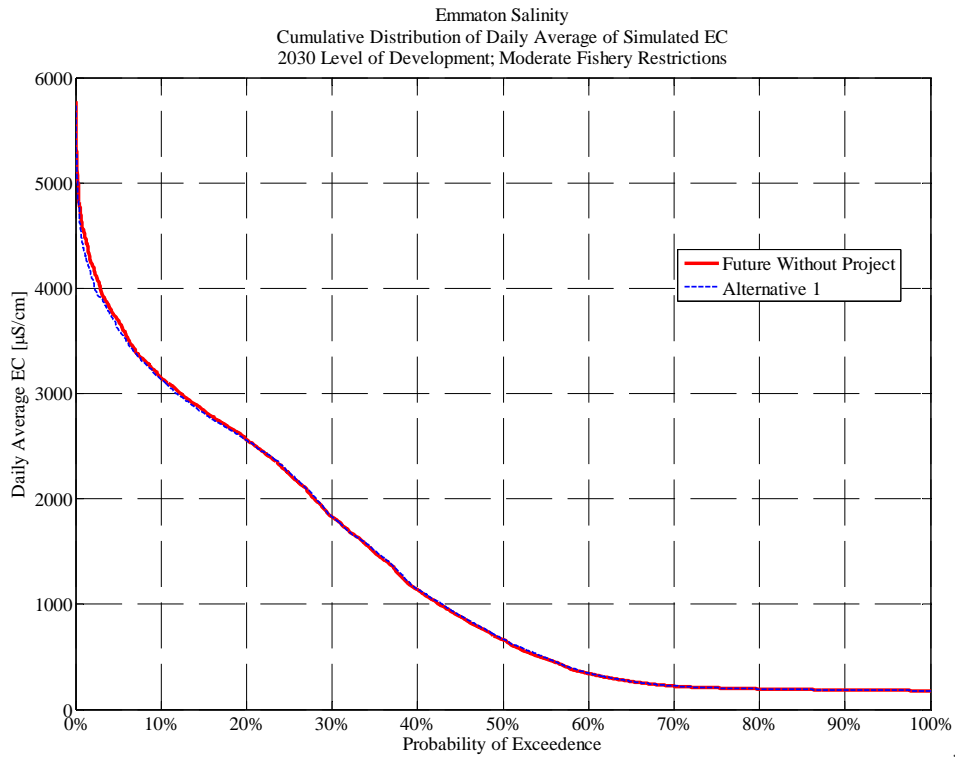
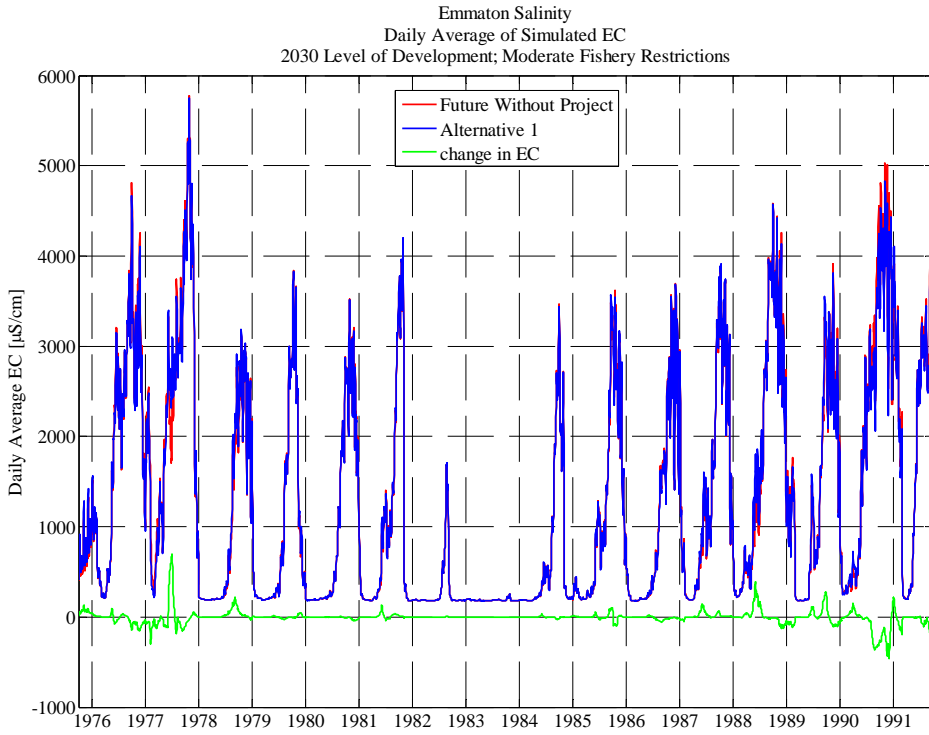
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	8.6%	11.0%	5.8%	2.2%	1.0%	0.6%	0.3%	1.7%	-2.0%	0.6%	0.6%	-1.7%
1977	-2.4%	-3.6%	-3.6%	-3.1%	-22.6%	-11.3%	-2.0%	-4.8%	18.8%	4.8%	-2.0%	-3.4%
1978	-1.0%	0.6%	1.1%	0.0%	0.0%	0.0%	0.0%	-0.4%	4.0%	8.1%	9.2%	6.6%
1979	1.3%	0.5%	-0.7%	0.6%	0.1%	-0.4%	-0.4%	2.2%	0.2%	-2.6%	-1.5%	-0.2%
1980	-0.2%	2.4%	1.2%	-0.1%	0.0%	0.0%	0.2%	0.4%	-0.9%	-0.8%	0.1%	-0.2%
1981	-0.2%	-0.9%	-1.7%	-1.0%	-0.1%	-0.1%	-0.2%	8.1%	4.1%	-2.1%	1.2%	0.9%
1982	0.2%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.3%	0.3%
1983	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	2.2%	-1.2%	-0.4%	-0.8%
1985	-0.3%	0.0%	1.4%	2.7%	0.7%	0.1%	0.0%	1.9%	1.0%	-2.2%	-0.4%	2.9%
1986	-2.6%	0.2%	0.1%	-0.6%	0.0%	-0.1%	0.1%	2.3%	3.0%	-2.7%	-3.5%	-2.0%
1987	-0.8%	-0.4%	-0.5%	-2.8%	-2.0%	-0.1%	0.7%	9.1%	8.2%	1.5%	-0.2%	1.4%
1988	0.4%	0.3%	0.2%	0.3%	-0.2%	3.7%	4.4%	16.0%	17.7%	3.3%	-0.3%	-0.4%
1989	-0.4%	-2.4%	-3.7%	-5.6%	-6.4%	-0.9%	0.1%	0.5%	7.3%	2.9%	1.1%	7.8%
1990	1.1%	-2.9%	-3.6%	-4.4%	1.8%	16.7%	14.2%	1.3%	-1.0%	-1.3%	-9.5%	-8.2%
1991	-4.9%	-7.3%	-2.6%	1.9%	-5.4%	-4.0%	-0.5%	-0.6%	-0.2%	-2.0%	-1.8%	-3.6%
<b>Avg</b>	-0.1%	-0.2%	-0.4%	-0.6%	-2.1%	0.3%	1.1%	2.5%	3.9%	0.4%	-0.5%	0.0%
<b>W/AN/BN</b>	-0.3%	0.5%	0.2%	0.0%	0.0%	-0.1%	0.0%	1.0%	1.2%	0.1%	0.6%	0.5%
<b>D/C</b>	0.1%	-0.7%	-0.9%	-1.1%	-3.7%	0.5%	1.9%	3.7%	6.0%	0.6%	-1.3%	-0.5%



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**Alternative 2**

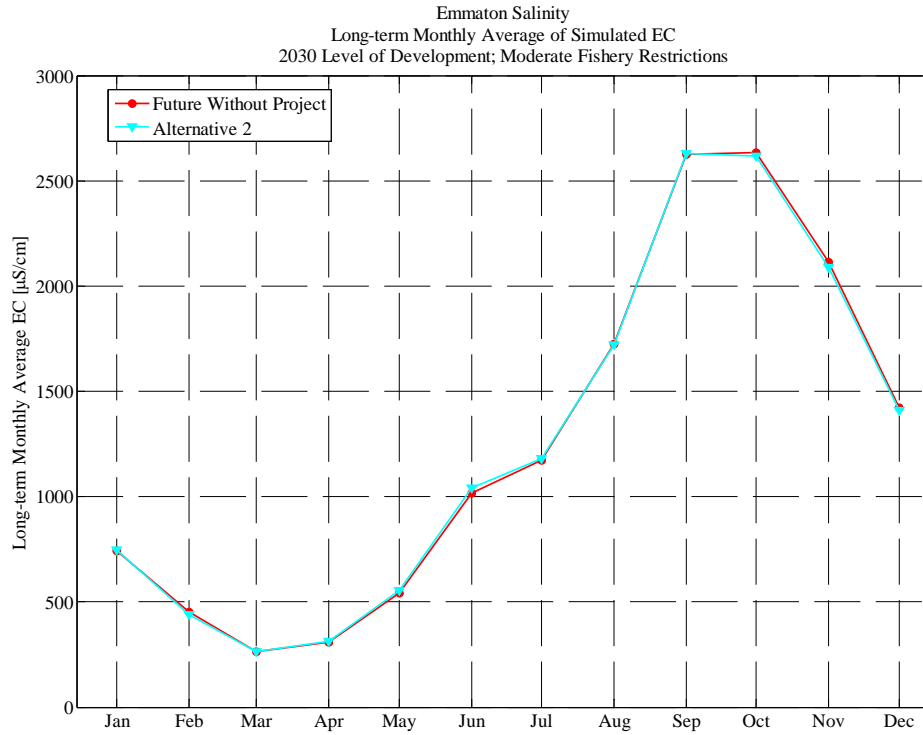
**Emmaton Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Alternative 2**

**2030 Level of Development; Moderate Fishery Restrictions**

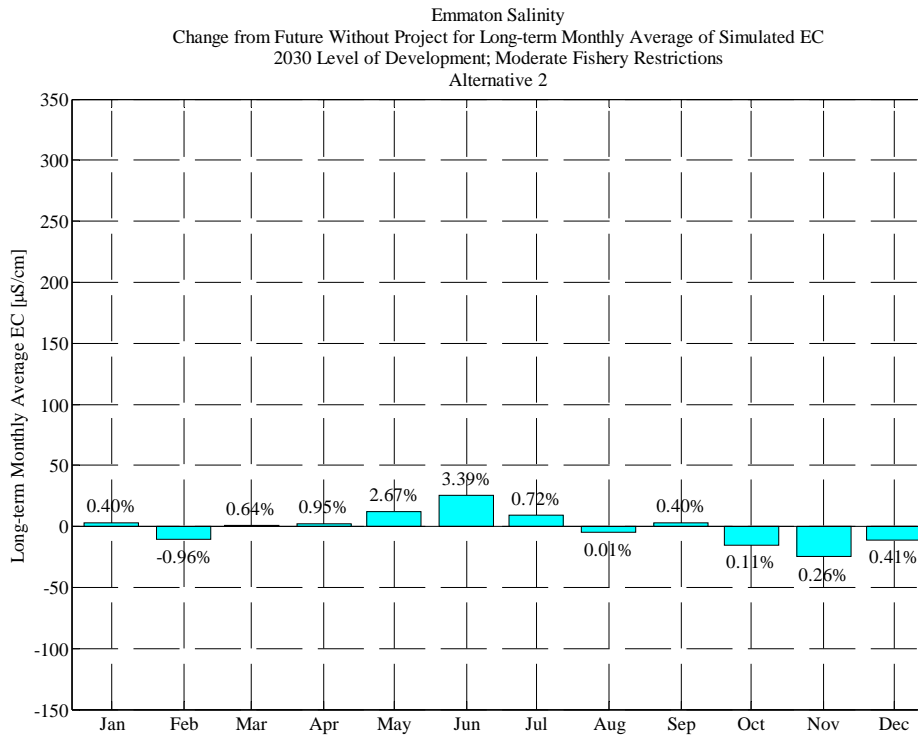
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	634	823	1,015	1,114	537	237	393	1,305	2,600	2,244	2,699	3,625
1977	2,978	3,286	1,852	1,999	471	651	1,079	1,970	2,287	2,720	3,107	3,763
1978	4,874	4,028	1,293	208	193	192	195	199	246	481	1,353	2,277
1979	2,609	2,492	1,992	456	207	192	203	222	279	562	1,443	2,642
1980	3,151	1,451	556	188	189	189	203	211	248	436	1,201	2,132
1981	2,701	2,654	1,821	359	191	184	207	342	1,004	933	1,345	2,888
1982	3,596	336	179	192	181	191	179	181	187	366	1,153	328
1983	186	183	184	196	186	181	185	181	182	189	192	180
1984	216	178	180	187	186	182	200	249	450	441	1,131	2,624
1985	2,124	291	211	333	237	202	243	319	984	830	1,261	2,843
1986	2,866	2,445	1,163	351	182	182	202	215	333	517	1,181	1,615
1987	2,368	2,585	2,536	1,157	265	190	276	582	1,217	1,026	1,600	3,098
1988	3,220	2,888	1,596	333	262	503	506	929	1,443	1,937	3,035	3,923
1989	3,739	3,132	2,289	1,086	1,284	198	183	193	870	745	1,269	2,868
1990	2,713	2,870	2,108	476	306	447	503	960	2,029	2,498	2,623	3,493
1991	3,909	3,779	3,590	3,331	2,189	295	249	796	2,299	2,963	2,929	3,787
<b>Avg</b>	<b>2,618</b>	<b>2,089</b>	<b>1,410</b>	<b>748</b>	<b>442</b>	<b>263</b>	<b>313</b>	<b>553</b>	<b>1,041</b>	<b>1,181</b>	<b>1,720</b>	<b>2,630</b>
<b>W/AN/BN</b>	<b>2,500</b>	<b>1,588</b>	<b>792</b>	<b>254</b>	<b>189</b>	<b>187</b>	<b>195</b>	<b>208</b>	<b>275</b>	<b>427</b>	<b>1,093</b>	<b>1,685</b>
<b>D/C</b>	<b>2,710</b>	<b>2,479</b>	<b>1,891</b>	<b>1,132</b>	<b>638</b>	<b>323</b>	<b>404</b>	<b>822</b>	<b>1,637</b>	<b>1,766</b>	<b>2,208</b>	<b>3,365</b>

**Percent (%) Change from Future Without Project for Emmatton Salinity**  
**(Alternative 2 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Moderate Fishery Restrictions**

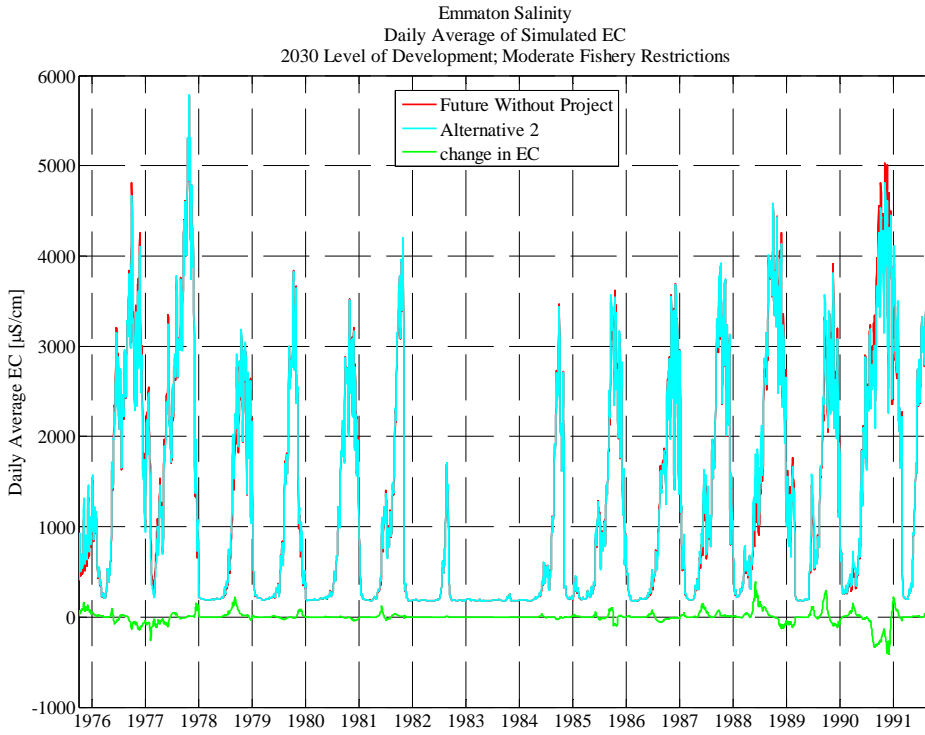
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	9.8%	14.1%	7.4%	2.6%	3.0%	1.5%	0.4%	1.7%	-2.0%	0.4%	0.5%	-1.7%
1977	-2.4%	-3.6%	-3.9%	-3.5%	-20.7%	-10.3%	-4.2%	-3.6%	-0.9%	1.5%	0.0%	-0.4%
1978	0.1%	0.1%	8.0%	1.1%	0.0%	0.0%	0.0%	-0.4%	4.0%	8.1%	9.3%	6.5%
1979	1.3%	0.6%	-0.7%	1.6%	0.1%	-0.4%	-0.4%	2.2%	0.3%	-2.5%	-1.5%	-0.2%
1980	-0.2%	4.4%	5.3%	0.0%	0.0%	0.0%	0.2%	0.5%	-0.9%	-0.8%	0.1%	-0.2%
1981	-0.2%	-0.9%	-1.7%	-0.6%	-0.1%	-0.2%	-0.2%	8.1%	4.1%	-2.2%	1.1%	0.9%
1982	0.2%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.3%	0.3%
1983	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	2.2%	-1.2%	-0.4%	-0.8%
1985	-0.3%	0.3%	2.0%	4.8%	2.3%	0.2%	-0.1%	1.9%	1.0%	-2.2%	-0.4%	2.9%
1986	-2.5%	0.3%	0.1%	1.3%	0.0%	-0.1%	0.1%	2.2%	12.0%	0.0%	-4.3%	-2.3%
1987	-0.8%	-0.4%	-0.5%	1.7%	2.4%	0.1%	0.5%	9.1%	9.8%	2.7%	-0.1%	1.7%
1988	0.6%	0.4%	0.3%	1.2%	0.1%	3.8%	4.4%	16.0%	17.8%	6.0%	2.3%	0.3%
1989	-0.1%	-2.4%	-3.7%	-5.6%	-6.5%	-0.9%	0.1%	0.5%	7.3%	2.9%	1.1%	8.1%
1990	1.4%	-2.8%	-3.8%	-1.7%	4.0%	17.1%	14.3%	1.3%	-0.9%	-1.1%	-8.7%	-7.8%
1991	-5.1%	-7.1%	-2.2%	3.6%	0.0%	-0.7%	-0.1%	0.4%	0.4%	-0.1%	0.7%	-1.0%
<b>Avg</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>-1.0%</b>	<b>0.6%</b>	<b>0.9%</b>	<b>2.7%</b>	<b>3.4%</b>	<b>0.7%</b>	<b>0.0%</b>	<b>0.4%</b>
<b>W/AN/BN</b>	<b>-0.1%</b>	<b>0.9%</b>	<b>1.8%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>1.0%</b>	<b>2.5%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.5%</b>
<b>D/C</b>	<b>0.3%</b>	<b>-0.3%</b>	<b>-0.7%</b>	<b>0.3%</b>	<b>-1.7%</b>	<b>1.2%</b>	<b>1.7%</b>	<b>3.9%</b>	<b>4.1%</b>	<b>0.9%</b>	<b>-0.4%</b>	<b>0.3%</b>



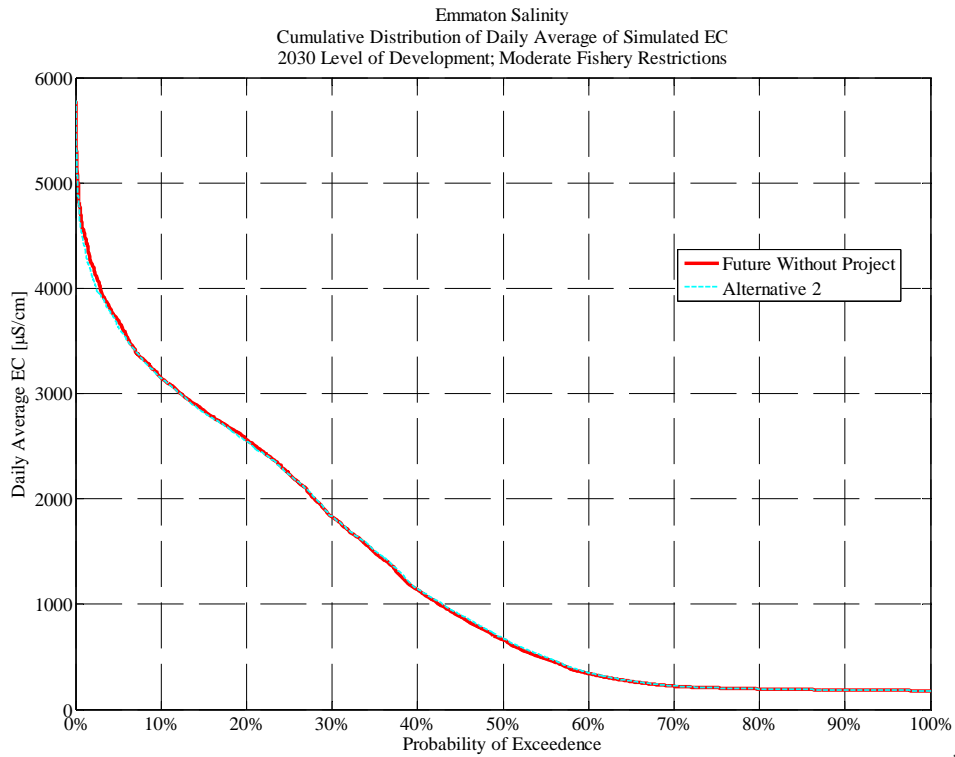
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04-Nov-2008 DS



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04-Nov-2008 DS



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**Alternative 3**

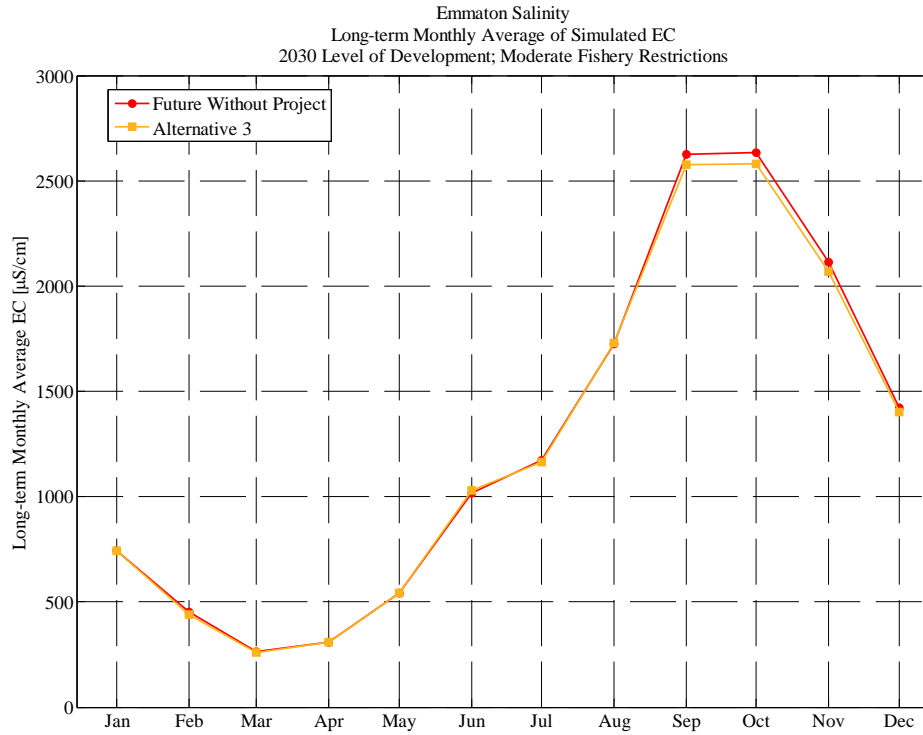
**Emmaton Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**

**Alternative 3****2030 Level of Development; Moderate Fishery Restrictions**

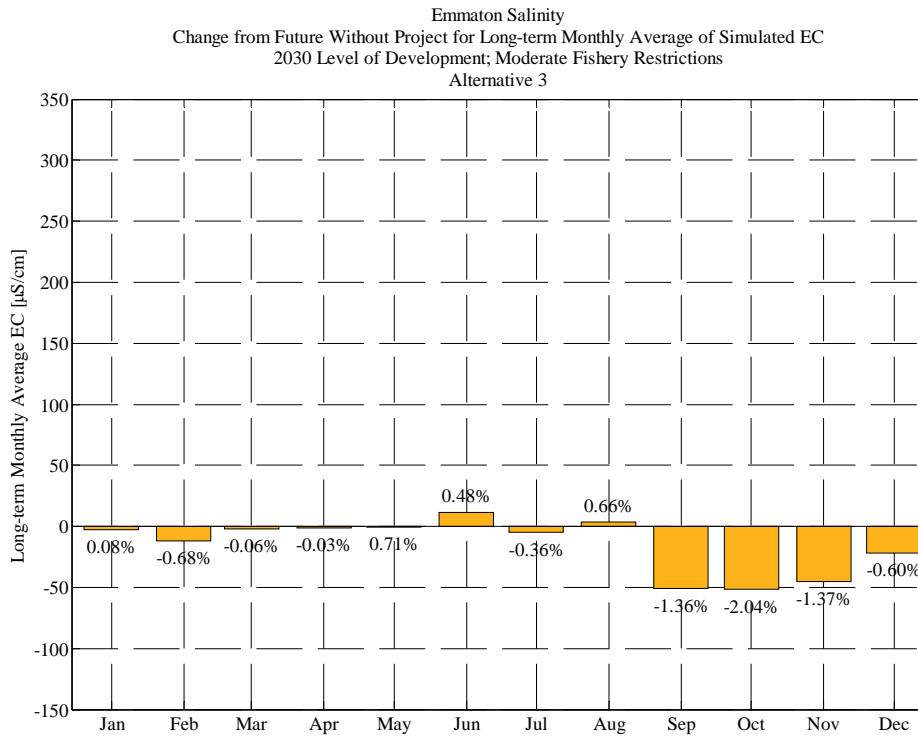
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	515	666	928	1,076	517	233	390	1,250	2,523	2,181	2,643	3,448
1977	2,891	3,215	1,892	2,025	485	658	1,078	1,945	2,700	2,805	3,081	3,689
1978	4,836	4,038	1,199	206	193	192	195	199	245	474	1,327	2,282
1979	2,620	2,485	1,997	453	207	192	203	221	273	587	1,537	2,696
1980	3,190	1,476	556	188	189	189	203	210	247	437	1,204	2,147
1981	2,719	2,686	1,862	362	191	184	207	329	947	922	1,354	2,822
1982	3,578	333	179	193	181	191	179	181	187	366	1,153	327
1983	185	184	184	196	186	181	185	181	182	189	192	180
1984	216	178	180	187	186	181	198	244	441	440	1,124	2,638
1985	2,152	295	207	318	232	201	243	317	973	835	1,262	2,762
1986	2,908	2,438	1,160	343	182	182	201	211	292	496	1,227	1,624
1987	2,383	2,596	2,548	1,322	299	191	271	509	1,020	950	1,621	2,983
1988	3,189	2,846	1,578	329	260	469	475	915	1,299	1,820	3,038	3,890
1989	3,647	3,067	2,277	1,079	1,275	198	183	193	842	748	1,285	2,441
1990	2,457	2,762	2,142	469	297	432	481	954	1,975	2,440	2,707	3,476
1991	3,820	3,836	3,509	3,123	2,167	297	249	795	2,292	2,964	2,907	3,825
<b>Avg</b>	<b>2,582</b>	<b>2,069</b>	<b>1,400</b>	<b>742</b>	<b>441</b>	<b>261</b>	<b>309</b>	<b>541</b>	<b>1,027</b>	<b>1,166</b>	<b>1,729</b>	<b>2,577</b>
<b>W/AN/BN</b>	<b>2,505</b>	<b>1,590</b>	<b>779</b>	<b>252</b>	<b>189</b>	<b>187</b>	<b>195</b>	<b>207</b>	<b>267</b>	<b>427</b>	<b>1,109</b>	<b>1,699</b>
<b>D/C</b>	<b>2,641</b>	<b>2,441</b>	<b>1,883</b>	<b>1,123</b>	<b>636</b>	<b>318</b>	<b>398</b>	<b>801</b>	<b>1,619</b>	<b>1,741</b>	<b>2,211</b>	<b>3,260</b>

**Percent (%) Change from Future Without Project for Emmatton Salinity****(Alternative 3 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-10.8%	-7.7%	-1.7%	-0.9%	-0.8%	-0.2%	-0.1%	-2.6%	-4.9%	-2.4%	-1.6%	-6.5%
1977	-5.2%	-5.7%	-1.8%	-2.2%	-18.3%	-9.2%	-4.2%	-4.8%	16.9%	4.7%	-0.8%	-2.3%
1978	-0.7%	0.4%	0.1%	-0.1%	0.0%	0.0%	0.0%	-0.3%	3.6%	6.5%	7.2%	6.8%
1979	1.7%	0.3%	-0.5%	0.8%	0.1%	-0.4%	-0.3%	1.7%	-1.8%	2.0%	4.9%	1.9%
1980	1.0%	6.2%	5.4%	0.2%	-0.1%	0.0%	0.0%	0.1%	-1.1%	-0.8%	0.4%	0.5%
1981	0.4%	0.2%	0.5%	0.2%	0.0%	0.0%	0.0%	4.1%	-1.9%	-3.3%	1.8%	-1.4%
1982	-0.3%	0.4%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.3%	0.2%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.1%	0.0%	0.0%	0.0%	-0.1%	-0.4%	-1.2%	0.8%	0.2%	-1.5%	-0.9%	-0.3%
1985	1.0%	1.5%	0.2%	0.1%	0.3%	0.0%	0.1%	1.1%	-0.2%	-1.6%	-0.3%	0.0%
1986	-1.1%	0.0%	-0.2%	-1.0%	0.0%	0.0%	-0.3%	0.5%	-1.8%	-4.1%	-0.6%	-1.7%
1987	-0.2%	0.0%	0.0%	16.2%	15.7%	0.5%	-1.5%	-4.6%	-7.9%	-4.9%	1.2%	-2.0%
1988	-0.4%	-1.1%	-0.9%	0.1%	-0.5%	-3.3%	-2.0%	14.1%	6.1%	-0.4%	2.5%	-0.6%
1989	-2.6%	-4.4%	-4.2%	-6.2%	-7.1%	-0.9%	0.1%	0.4%	3.9%	3.4%	2.3%	-8.0%
1990	-8.2%	-6.4%	-2.3%	-3.2%	0.9%	13.2%	9.2%	0.7%	-3.5%	-3.4%	-5.8%	-8.2%
1991	-7.3%	-5.7%	-4.4%	-2.8%	-1.0%	-0.3%	-0.1%	0.3%	0.1%	0.0%	0.0%	0.0%
<b>Avg</b>	<b>-2.0%</b>	<b>-1.4%</b>	<b>-0.6%</b>	<b>0.1%</b>	<b>-0.7%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.7%</b>	<b>0.5%</b>	<b>-0.4%</b>	<b>0.7%</b>	<b>-1.4%</b>
<b>W/AN/BN</b>	<b>0.1%</b>	<b>1.0%</b>	<b>0.7%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>-0.1%</b>	<b>-0.3%</b>	<b>0.4%</b>	<b>-0.1%</b>	<b>0.3%</b>	<b>1.6%</b>	<b>1.1%</b>
<b>D/C</b>	<b>-3.7%</b>	<b>-3.2%</b>	<b>-1.6%</b>	<b>0.1%</b>	<b>-1.2%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>-0.9%</b>	<b>-0.1%</b>	<b>-3.2%</b>

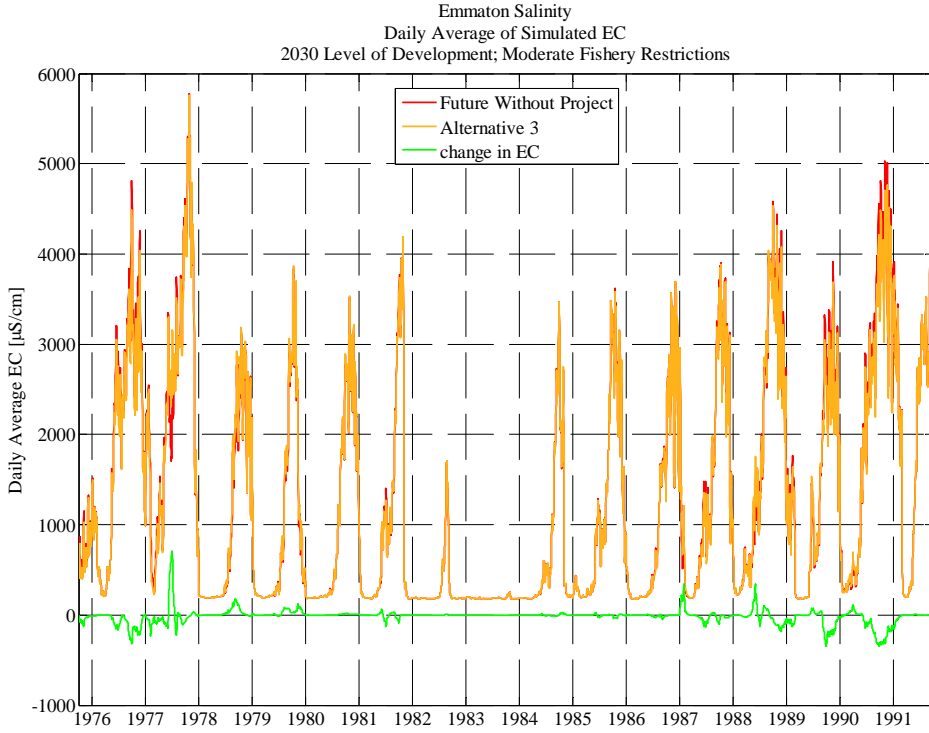


p\_lve\_wq\_eir.m  
04-Nov-2008 DS

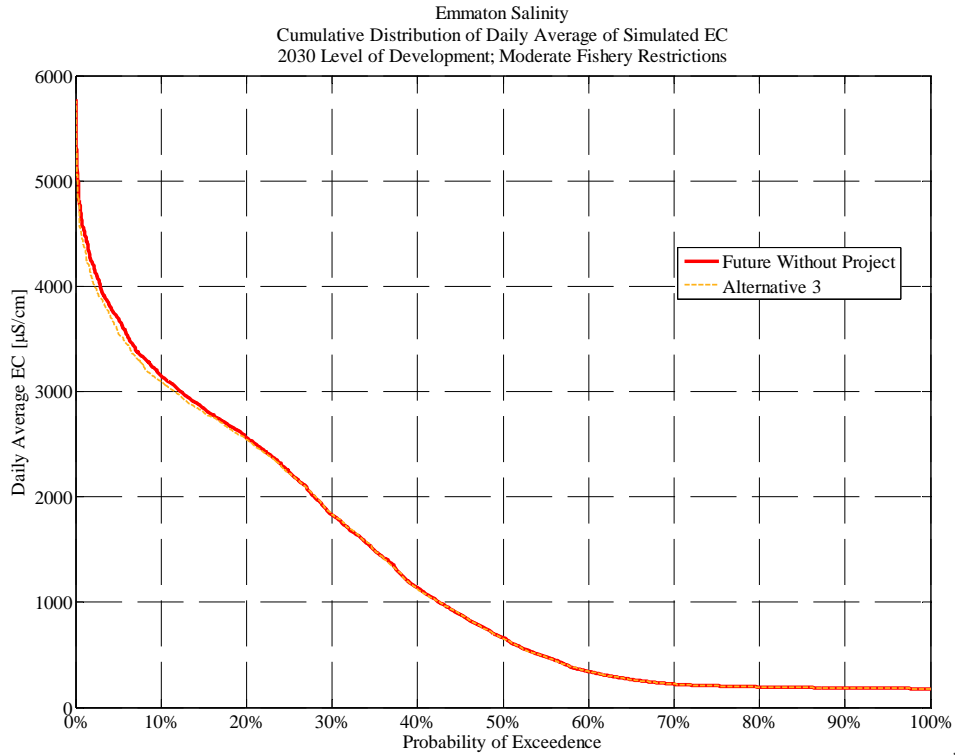


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04-Nov-2008 DS



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05-Nov-2008 DS

**Alternative 4**

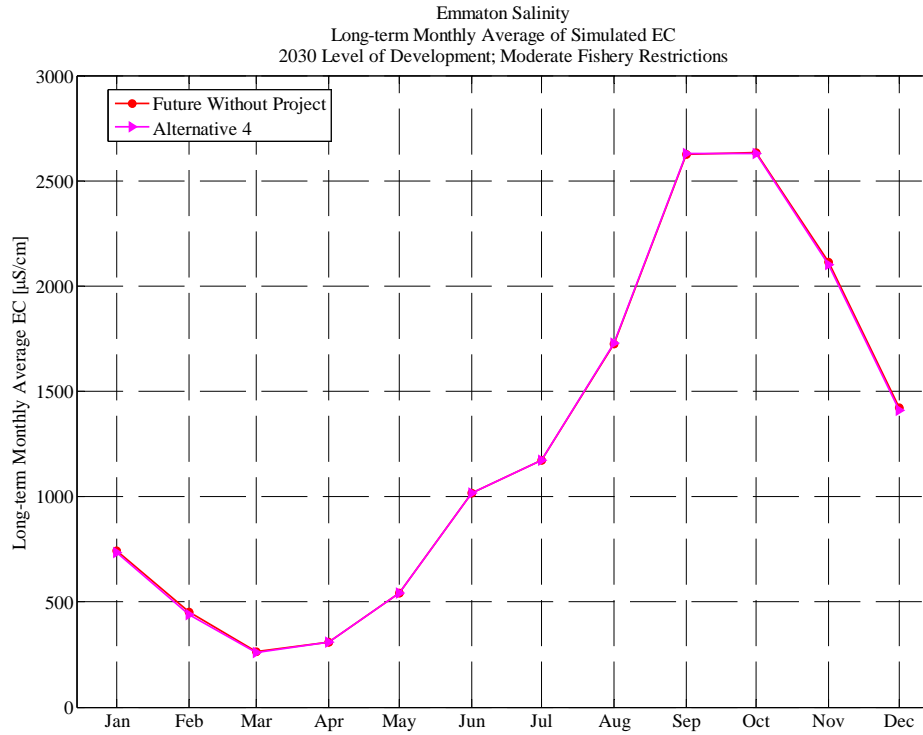
**Emmaton Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**  
**Alternative 4**

**2030 Level of Development; Moderate Fishery Restrictions**

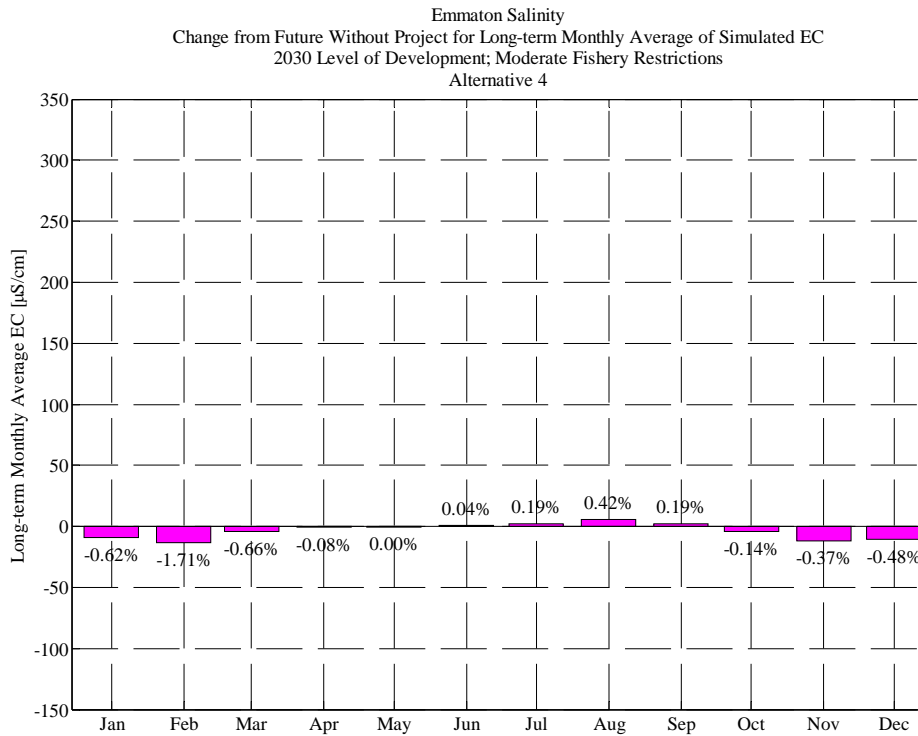
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	575	719	944	1,086	521	233	391	1,284	2,653	2,234	2,682	3,622
1977	2,983	3,288	1,852	1,999	471	656	1,111	2,037	2,322	2,714	3,113	3,737
1978	4,868	4,037	1,204	206	193	192	195	200	237	444	1,236	2,138
1979	2,577	2,480	2,005	449	207	193	204	217	278	577	1,507	2,698
1980	3,174	1,393	528	188	189	189	203	210	250	448	1,229	2,161
1981	2,712	2,683	1,853	361	191	184	207	316	965	954	1,330	2,863
1982	3,593	332	179	192	181	191	179	181	187	366	1,151	327
1983	185	184	184	196	186	181	185	181	182	189	192	180
1984	216	178	180	187	186	182	200	242	441	447	1,135	2,650
1985	2,132	291	207	318	231	201	243	313	975	849	1,269	2,764
1986	2,939	2,437	1,162	347	182	183	201	210	297	517	1,246	1,670
1987	2,399	2,599	2,549	1,137	258	189	275	534	1,108	999	1,601	3,045
1988	3,202	2,878	1,592	329	261	485	485	801	1,225	1,827	2,966	3,914
1989	3,742	3,135	2,288	1,086	1,286	198	183	193	811	723	1,257	2,689
1990	2,656	2,923	2,175	482	294	382	440	948	2,047	2,520	2,873	3,786
1991	4,118	4,068	3,669	3,208	2,187	297	249	793	2,290	2,965	2,908	3,826
<b>Avg</b>	<b>2,629</b>	<b>2,102</b>	<b>1,411</b>	<b>736</b>	<b>439</b>	<b>258</b>	<b>309</b>	<b>541</b>	<b>1,017</b>	<b>1,173</b>	<b>1,731</b>	<b>2,629</b>
<b>W/AN/BN</b>	<b>2,507</b>	<b>1,577</b>	<b>777</b>	<b>252</b>	<b>189</b>	<b>187</b>	<b>195</b>	<b>206</b>	<b>267</b>	<b>427</b>	<b>1,100</b>	<b>1,689</b>
<b>D/C</b>	<b>2,724</b>	<b>2,509</b>	<b>1,903</b>	<b>1,112</b>	<b>633</b>	<b>314</b>	<b>398</b>	<b>802</b>	<b>1,599</b>	<b>1,754</b>	<b>2,222</b>	<b>3,361</b>

**Percent (%) Change from Future Without Project for Emmatton Salinity**  
**(Alternative 4 - Future Without Project) / Future Without Project**  
**2030 Level of Development; Moderate Fishery Restrictions**

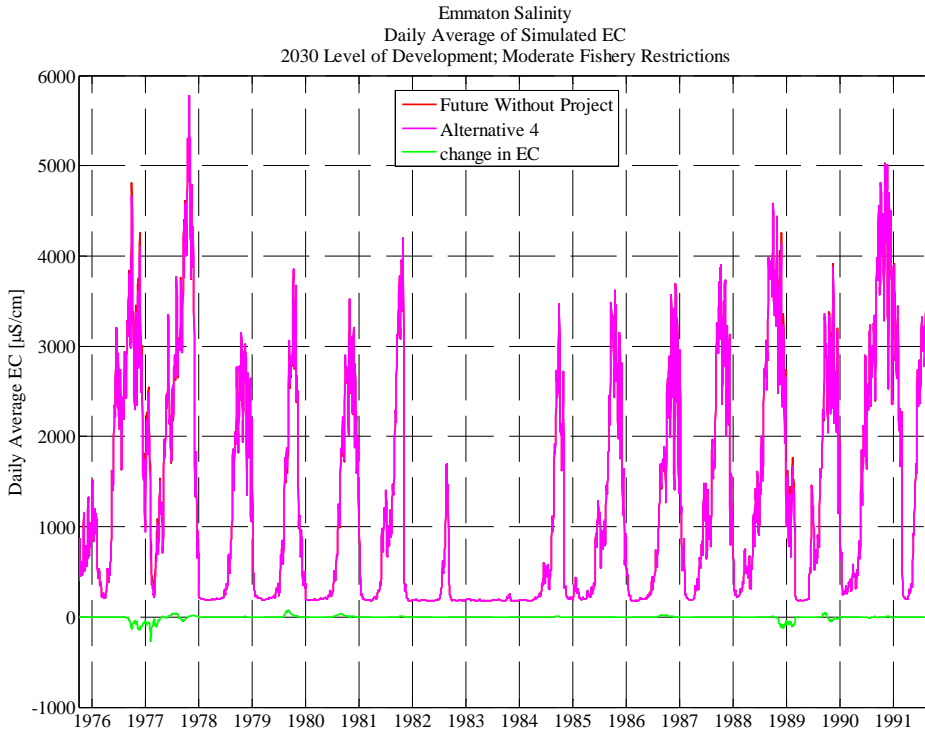
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.3%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-1.8%
1977	-2.2%	-3.5%	-3.9%	-3.4%	-20.8%	-9.5%	-1.3%	-0.3%	0.6%	1.3%	0.2%	-1.1%
1978	0.0%	0.3%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.2%	0.0%
1979	0.0%	0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	2.9%	1.9%
1980	0.5%	0.2%	0.1%	0.0%	-0.1%	-0.1%	-0.1%	0.0%	0.0%	1.7%	2.5%	1.2%
1981	0.2%	0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.2%
1985	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	1.0%	1.1%
1987	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	-0.1%	-2.3%	-3.7%	-5.6%	-6.4%	-1.0%	0.1%	0.3%	0.0%	0.0%	0.1%	1.4%
1990	-0.8%	-0.9%	-0.7%	-0.5%	-0.1%	0.0%	0.0%	0.0%	0.0%	-0.3%	0.0%	0.0%
1991	-0.1%	0.1%	0.0%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	<b>-0.1%</b>	<b>-0.4%</b>	<b>-0.5%</b>	<b>-0.6%</b>	<b>-1.7%</b>	<b>-0.7%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.4%</b>	<b>0.2%</b>
<b>W/AN/BN</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.9%</b>	<b>0.6%</b>
<b>D/C</b>	<b>-0.3%</b>	<b>-0.7%</b>	<b>-0.9%</b>	<b>-1.1%</b>	<b>-3.0%</b>	<b>-1.2%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>-0.2%</b>



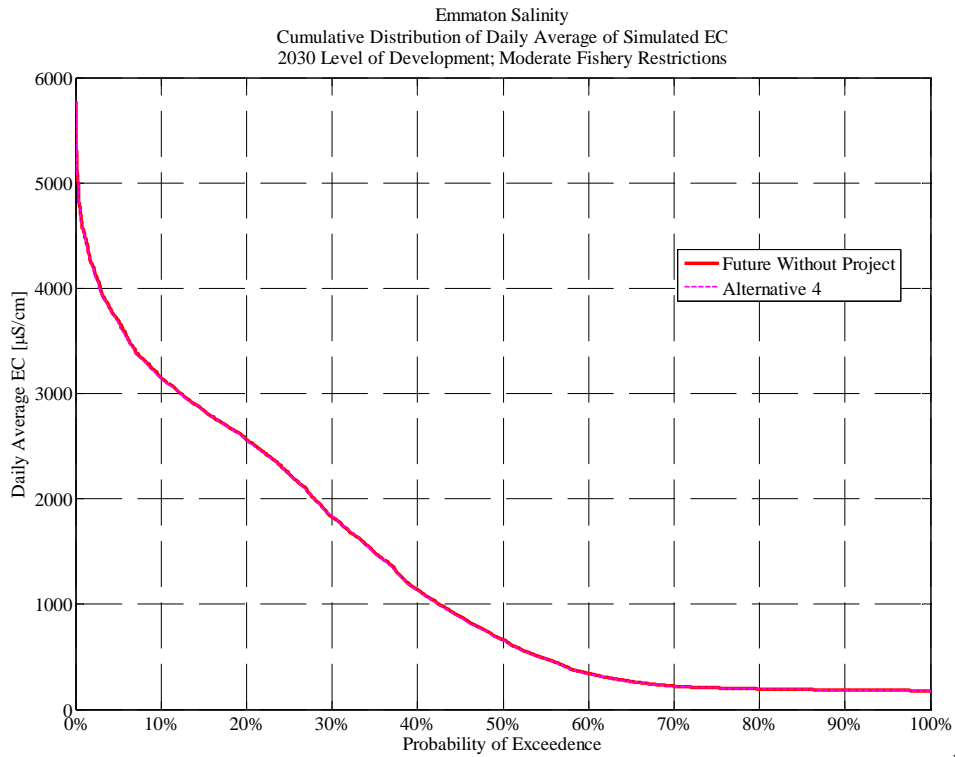
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



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04-Nov-2008 DS



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05-Nov-2008 DS

## Jersey Point

### Future Without Project

**Jersey Point Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	615	914	1,573	1,484	745	282	275	804	1,932	2,315	2,266	3,186
1977	2,880	2,991	2,422	2,057	839	492	786	1,160	1,552	1,656	2,164	2,798
1978	3,115	2,813	1,458	335	253	263	268	245	224	334	1,133	2,365
1979	2,698	2,904	2,442	666	274	236	233	242	234	721	1,559	2,822
1980	2,802	2,010	1,020	273	277	271	252	239	233	295	996	2,304
1981	2,497	2,472	2,893	769	230	205	219	289	667	1,605	1,911	2,349
1982	2,749	1,108	210	237	225	239	214	196	199	257	1,001	406
1983	187	200	241	307	296	259	238	223	218	212	197	187
1984	202	192	234	246	223	202	225	258	317	491	1,110	2,464
1985	2,414	923	263	367	295	222	240	294	682	1,541	1,900	2,752
1986	2,600	2,645	2,019	571	262	269	246	220	233	330	1,039	1,902
1987	1,950	2,263	2,829	1,372	398	228	239	414	815	1,584	2,000	2,450
1988	2,610	2,529	2,534	836	283	335	382	570	821	1,648	2,439	2,901
1989	2,545	2,899	2,134	1,628	1,177	313	201	207	543	1,471	1,965	2,629
1990	2,906	2,714	2,476	761	308	331	346	568	1,404	2,303	2,410	2,819
1991	2,903	2,904	2,565	2,294	2,007	564	243	517	1,372	1,996	2,116	2,710
<b>Avg</b>	<b>2,229</b>	<b>2,030</b>	<b>1,707</b>	<b>888</b>	<b>506</b>	<b>294</b>	<b>288</b>	<b>403</b>	<b>715</b>	<b>1,172</b>	<b>1,638</b>	<b>2,315</b>
<b>W/AN/BN</b>	<b>2,050</b>	<b>1,696</b>	<b>1,089</b>	<b>377</b>	<b>258</b>	<b>248</b>	<b>240</b>	<b>232</b>	<b>237</b>	<b>377</b>	<b>1,005</b>	<b>1,778</b>
<b>D/C</b>	<b>2,369</b>	<b>2,290</b>	<b>2,188</b>	<b>1,285</b>	<b>698</b>	<b>330</b>	<b>326</b>	<b>536</b>	<b>1,087</b>	<b>1,791</b>	<b>2,130</b>	<b>2,733</b>

**Alternative 1**

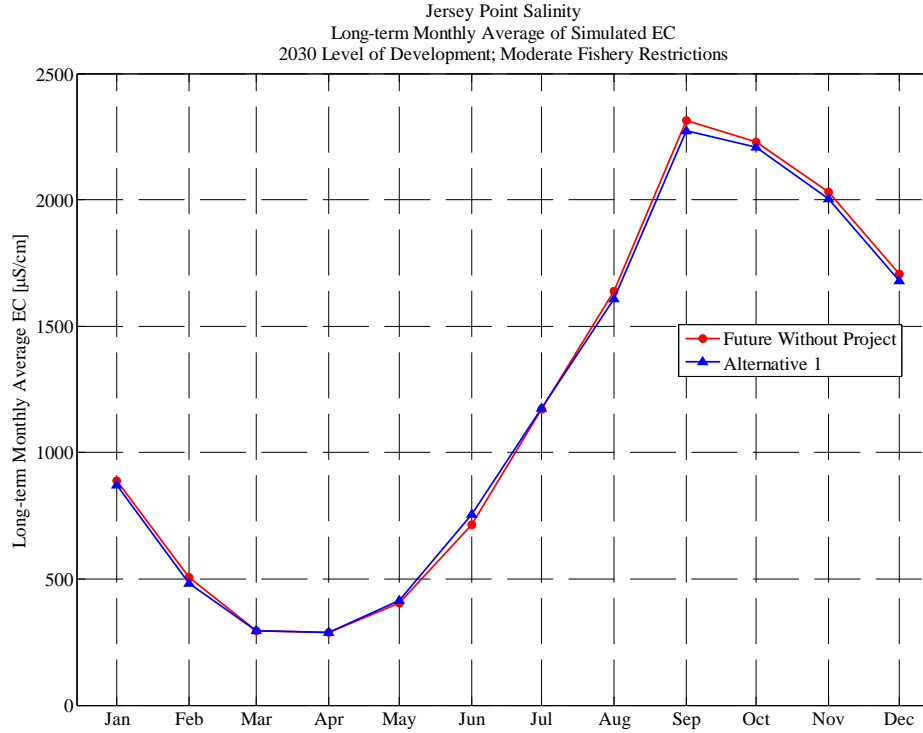
**Jersey Point Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 1**

**2030 Level of Development; Moderate Fishery Restrictions**

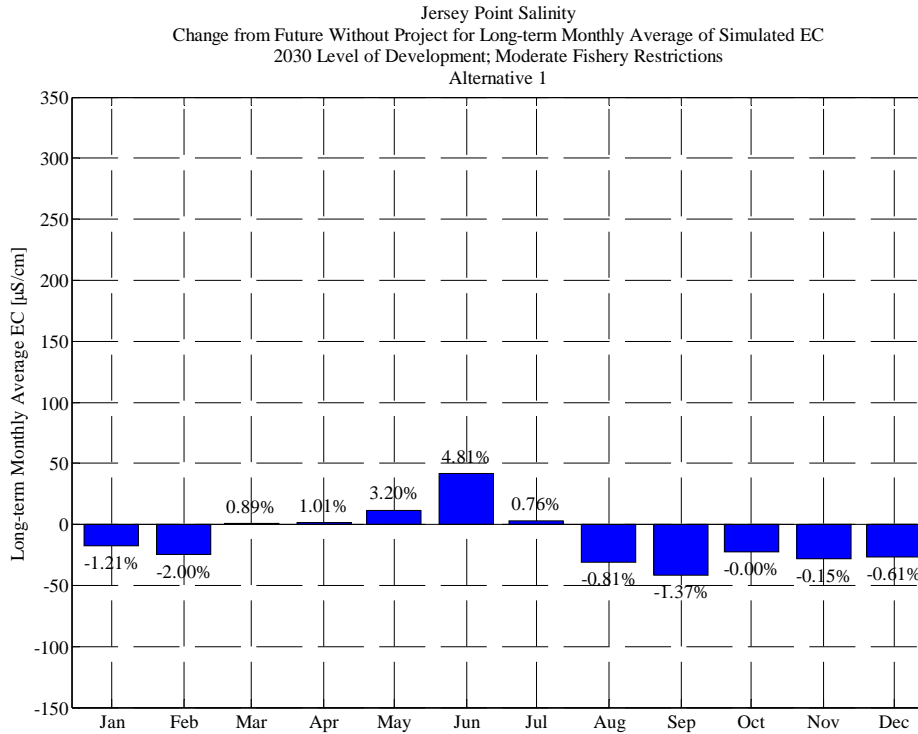
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	710	1,068	1,691	1,527	757	286	276	809	1,877	2,300	2,248	3,010
1977	2,653	2,810	2,259	1,945	734	439	713	1,053	1,796	1,837	1,936	2,638
1978	3,049	2,839	1,476	335	253	263	268	242	224	390	1,417	2,566
1979	2,748	2,940	2,439	666	271	231	231	240	232	677	1,534	2,819
1980	2,792	2,102	1,028	270	277	270	254	236	231	295	999	2,299
1981	2,489	2,432	2,826	756	229	203	218	308	681	1,547	1,893	2,357
1982	2,751	1,115	211	238	225	239	214	195	199	258	1,006	408
1983	187	200	241	307	296	259	239	222	219	212	197	187
1984	202	192	234	246	223	202	225	257	316	481	1,113	2,486
1985	2,410	924	275	382	299	222	240	305	672	1,486	1,887	2,704
1986	2,651	2,677	2,020	568	264	266	247	220	234	322	985	1,851
1987	1,928	2,251	2,808	1,313	382	227	240	504	928	1,579	1,989	2,438
1988	2,620	2,546	2,547	842	280	375	409	740	1,107	1,757	2,428	2,889
1989	2,533	2,785	2,021	1,492	1,072	301	201	211	635	1,536	1,970	2,696
1990	2,901	2,590	2,324	706	314	424	409	577	1,394	2,234	2,195	2,475
1991	2,691	2,563	2,488	2,326	1,826	517	241	515	1,367	1,902	1,906	2,561
<b>Avg</b>	2,207	2,002	1,680	870	481	295	289	415	757	1,176	1,607	2,274
<b>W/AN/BN</b>	2,054	1,723	1,093	376	258	247	240	230	236	376	1,036	1,802
<b>D/C</b>	2,326	2,219	2,138	1,254	655	333	328	558	1,162	1,797	2,050	2,641

**Percent (%) Change from Future Without Project for Jersey Point Salinity  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

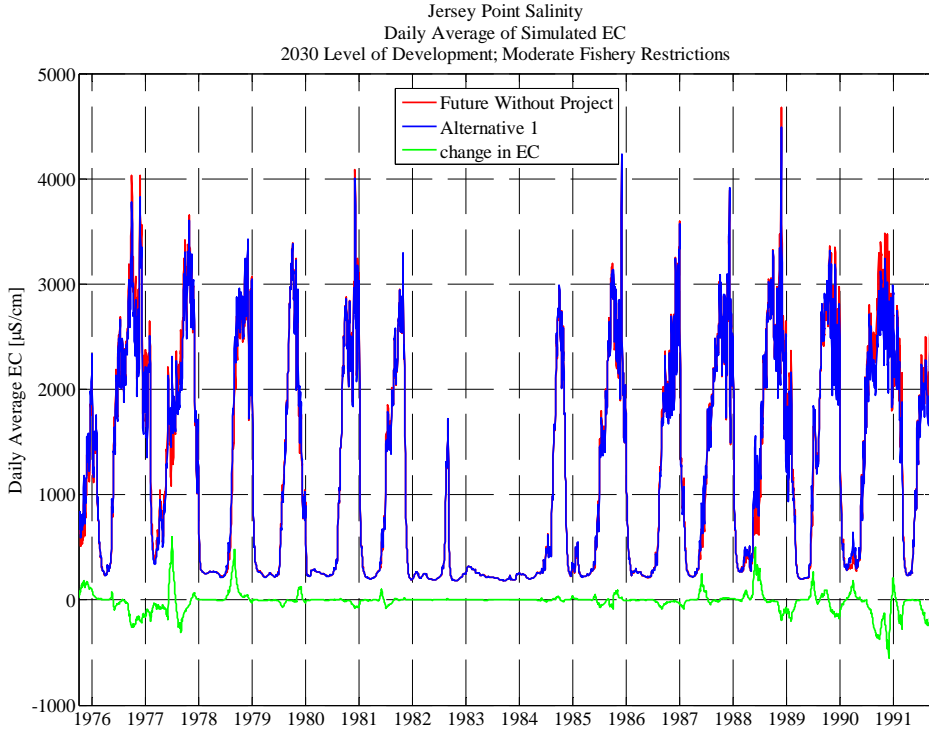
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	15.5%	16.9%	7.5%	2.9%	1.6%	1.4%	0.3%	0.6%	-2.8%	-0.6%	-0.8%	-5.5%
1977	-7.9%	-6.0%	-6.7%	-5.4%	-12.6%	-10.9%	-9.2%	-9.2%	15.8%	10.9%	-10.5%	-5.7%
1978	-2.1%	0.9%	1.2%	0.1%	0.0%	0.0%	0.1%	-1.4%	-0.1%	16.8%	25.1%	8.5%
1979	1.9%	1.2%	-0.1%	0.0%	-0.9%	-1.9%	-0.8%	-0.9%	-1.1%	-6.1%	-1.6%	-0.1%
1980	-0.4%	4.6%	0.8%	-1.3%	-0.3%	-0.2%	0.5%	-1.3%	-0.5%	-0.2%	0.4%	-0.2%
1981	-0.3%	-1.6%	-2.3%	-1.6%	-0.5%	-0.8%	-0.4%	6.4%	2.1%	-3.6%	-0.9%	0.3%
1982	0.1%	0.6%	0.2%	0.1%	0.2%	0.0%	0.0%	-0.5%	0.2%	0.3%	0.5%	0.5%
1983	0.0%	-0.1%	-0.1%	-0.2%	-0.1%	0.0%	0.2%	-0.8%	0.0%	0.0%	0.0%	0.0%
1984	0.1%	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%	-0.2%	-0.3%	-2.1%	0.3%	0.9%
1985	-0.2%	0.1%	4.5%	4.2%	1.2%	0.1%	0.2%	3.8%	-1.5%	-3.6%	-0.7%	-1.7%
1986	2.0%	1.2%	0.0%	-0.5%	0.6%	-1.1%	0.2%	0.1%	0.5%	-2.4%	-5.2%	-2.7%
1987	-1.1%	-0.5%	-0.7%	-4.3%	-4.2%	-0.4%	0.3%	21.5%	13.9%	-0.4%	-0.5%	-0.5%
1988	0.4%	0.7%	0.5%	0.8%	-0.9%	12.2%	7.2%	29.9%	34.9%	6.6%	-0.4%	-0.4%
1989	-0.5%	-3.9%	-5.3%	-8.3%	-9.0%	-3.9%	0.3%	1.9%	17.0%	4.4%	0.3%	2.5%
1990	-0.2%	-4.6%	-6.1%	-7.1%	1.8%	28.1%	18.3%	1.6%	-0.7%	-3.0%	-9.0%	-12.2%
1991	-7.3%	-11.8%	-3.0%	1.4%	-9.0%	-8.4%	-1.0%	-0.4%	-0.4%	-4.7%	-9.9%	-5.5%
<b>Avg</b>	0.0%	-0.2%	-0.6%	-1.2%	-2.0%	0.9%	1.0%	3.2%	4.8%	0.8%	-0.8%	-1.4%
<b>W/AN/BN</b>	0.2%	1.2%	0.3%	-0.3%	-0.1%	-0.5%	0.0%	-0.7%	-0.2%	0.9%	2.8%	1.0%
<b>D/C</b>	-0.2%	-1.2%	-1.3%	-1.9%	-3.5%	1.9%	1.8%	6.2%	8.7%	0.7%	-3.6%	-3.2%



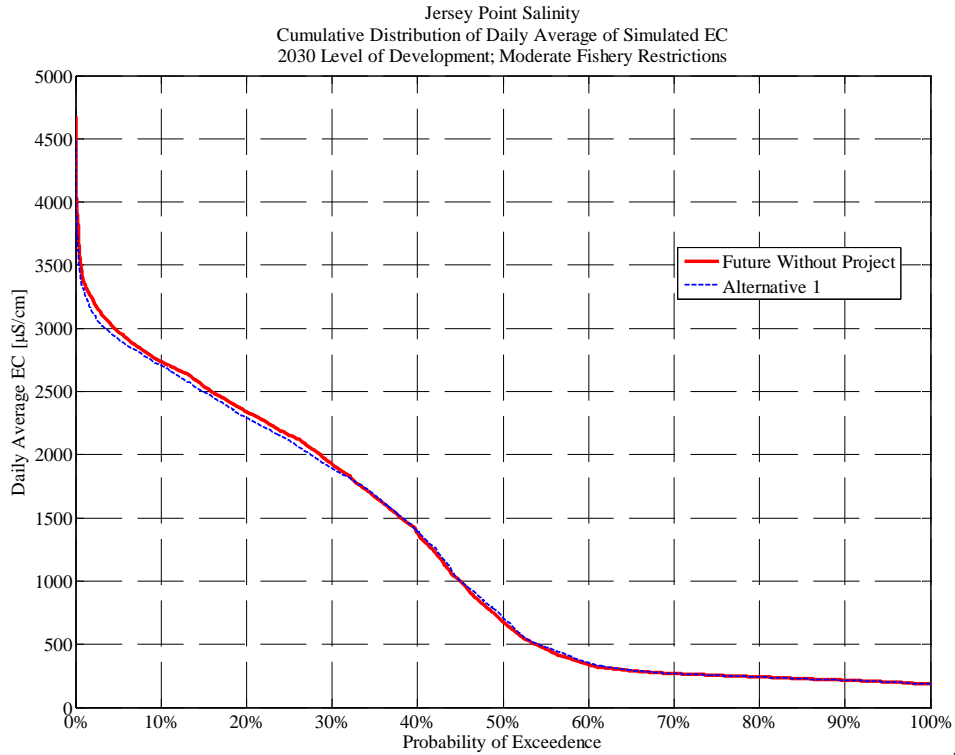
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04-Nov-2008 DS



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04-Nov-2008 DS



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04-Nov-2008 DS



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05-Nov-2008 DS



**Alternative 2**

**Jersey Point Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**

**Alternative 2**

**2030 Level of Development; Moderate Fishery Restrictions**

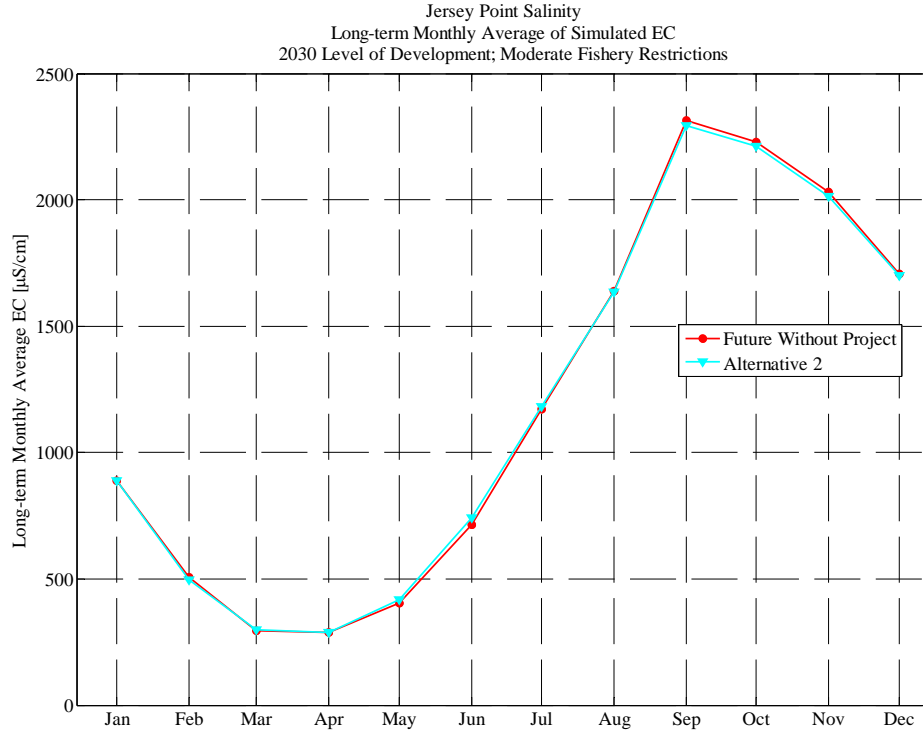
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	725	1,117	1,723	1,535	782	291	277	810	1,878	2,301	2,250	3,013
1977	2,656	2,813	2,256	1,938	738	442	705	1,074	1,515	1,664	2,150	2,782
1978	3,110	2,818	1,663	365	253	263	268	242	224	389	1,416	2,566
1979	2,748	2,947	2,439	679	270	231	231	240	232	678	1,535	2,819
1980	2,792	2,189	1,093	273	276	270	254	236	231	295	1,000	2,299
1981	2,488	2,432	2,826	763	229	203	218	308	681	1,547	1,893	2,357
1982	2,751	1,159	212	236	224	239	214	195	199	258	1,007	408
1983	187	199	241	306	296	259	239	222	219	212	197	187
1984	202	192	233	246	223	202	225	257	316	481	1,113	2,487
1985	2,410	931	279	397	310	222	240	305	671	1,486	1,887	2,704
1986	2,652	2,677	2,020	590	265	266	247	220	240	326	977	1,845
1987	1,925	2,249	2,809	1,413	419	229	240	503	969	1,612	1,993	2,440
1988	2,624	2,549	2,548	861	281	376	409	740	1,108	1,888	2,525	2,916
1989	2,540	2,787	2,022	1,492	1,072	301	201	211	635	1,536	1,971	2,703
1990	2,913	2,596	2,327	744	325	427	409	577	1,393	2,234	2,198	2,485
1991	2,676	2,576	2,501	2,397	1,992	560	243	520	1,379	1,995	2,067	2,665
<b>Avg</b>	2,212	2,014	1,700	890	497	299	289	416	743	1,181	1,636	2,292
<b>W/AN/BN</b>	2,063	1,740	1,129	385	258	247	240	230	237	377	1,035	1,801
<b>D/C</b>	2,329	2,228	2,143	1,282	683	339	327	561	1,137	1,807	2,104	2,674

**Percent (%) Change from Future Without Project for Jersey Point Salinity**

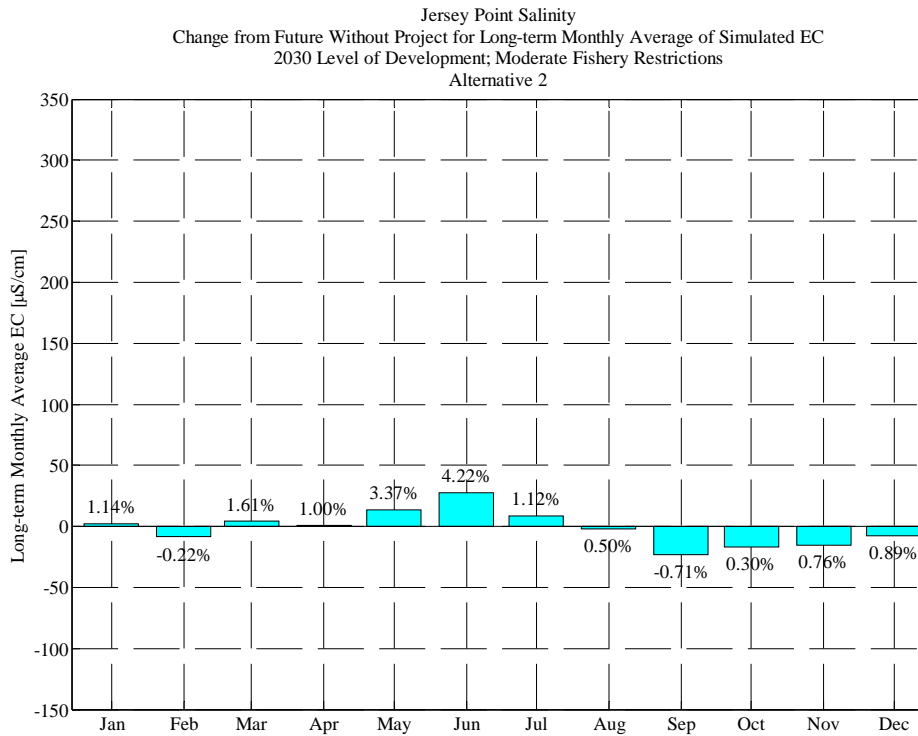
**(Alternative 2 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

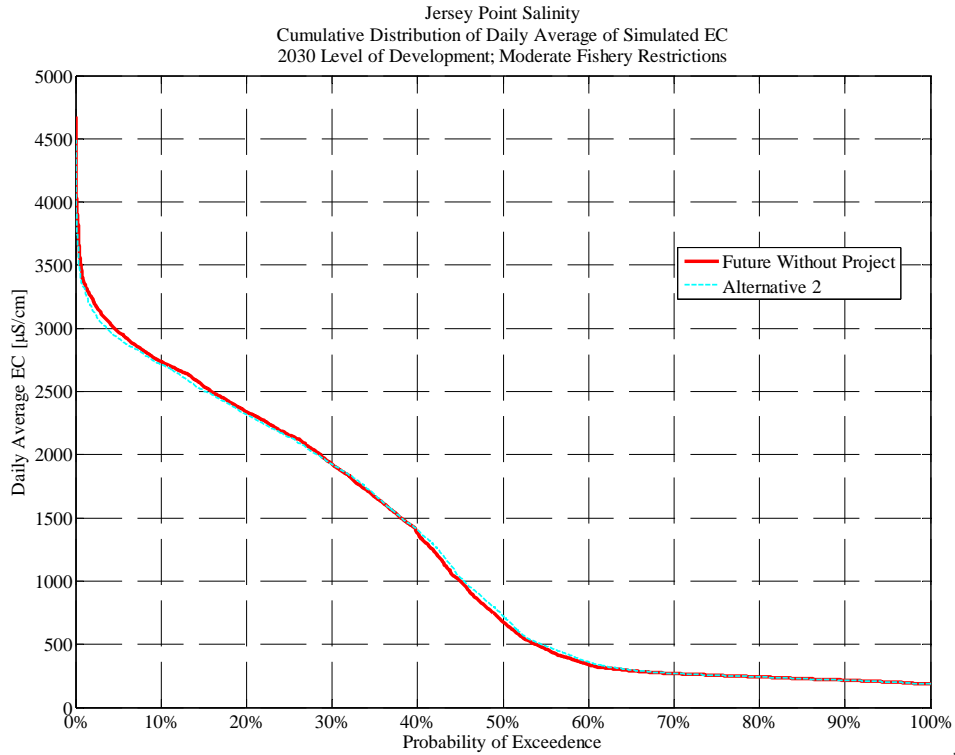
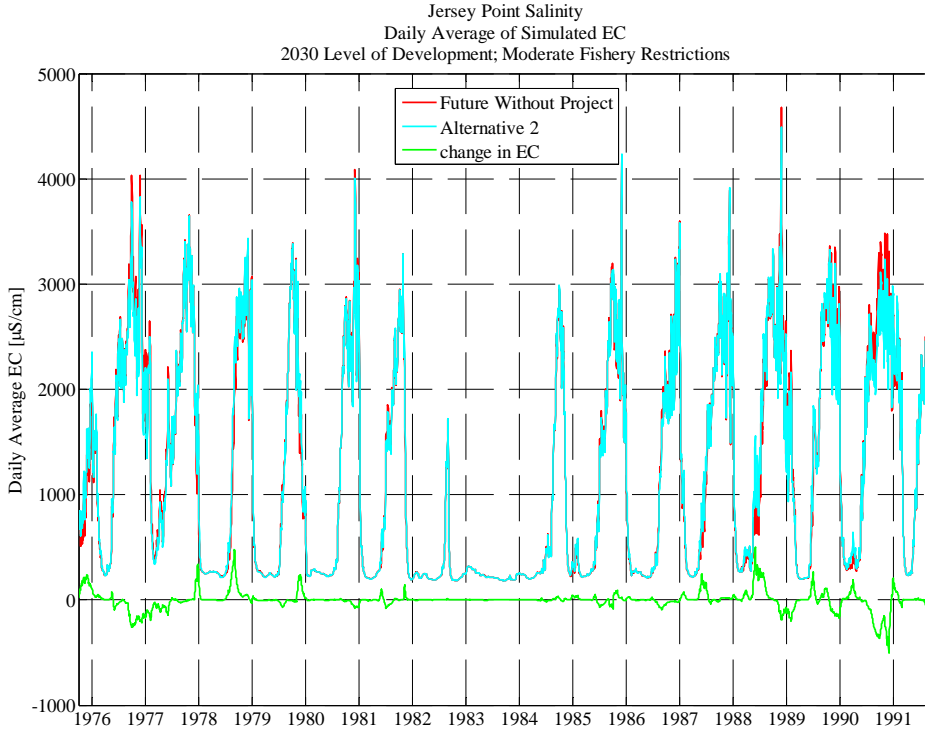
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	18.0%	22.2%	9.5%	3.4%	4.9%	3.1%	0.5%	0.7%	-2.8%	-0.6%	-0.7%	-5.4%
1977	-7.8%	-5.9%	-6.9%	-5.8%	-12.1%	-10.2%	-10.2%	-7.4%	-2.3%	0.5%	-0.7%	-0.6%
1978	-0.2%	0.2%	14.1%	8.9%	0.0%	0.0%	0.1%	-1.3%	-0.1%	16.7%	25.0%	8.5%
1979	1.9%	1.5%	-0.1%	1.9%	-1.1%	-1.9%	-0.8%	-0.9%	-1.0%	-6.0%	-1.6%	-0.1%
1980	-0.3%	8.9%	7.2%	0.1%	-0.5%	-0.2%	0.5%	-1.2%	-0.5%	-0.2%	0.4%	-0.2%
1981	-0.3%	-1.6%	-2.3%	-0.8%	-0.4%	-0.8%	-0.5%	6.4%	2.1%	-3.6%	-0.9%	0.3%
1982	0.1%	4.5%	1.1%	-0.6%	-0.2%	0.0%	0.0%	-0.6%	0.2%	0.3%	0.5%	0.5%
1983	0.1%	-0.2%	-0.2%	-0.4%	-0.2%	-0.1%	0.3%	-0.8%	0.0%	0.0%	0.0%	0.0%
1984	0.1%	0.0%	-0.2%	-0.1%	-0.1%	-0.1%	0.0%	-0.2%	-0.3%	-2.1%	0.3%	0.9%
1985	-0.2%	0.8%	6.1%	8.1%	5.0%	0.2%	0.1%	3.7%	-1.5%	-3.6%	-0.7%	-1.7%
1986	2.0%	1.2%	0.0%	3.4%	0.8%	-1.1%	0.1%	0.0%	3.1%	-1.2%	-6.0%	-3.0%
1987	-1.2%	-0.6%	-0.7%	3.0%	5.2%	0.3%	0.3%	21.5%	19.0%	1.7%	-0.3%	-0.4%
1988	0.5%	0.8%	0.6%	3.0%	-0.5%	12.3%	7.2%	29.9%	35.0%	14.6%	3.5%	0.5%
1989	-0.2%	-3.9%	-5.3%	-8.3%	-9.0%	-3.9%	0.3%	1.9%	17.0%	4.4%	0.3%	2.8%
1990	0.2%	-4.3%	-6.0%	-2.2%	5.4%	28.9%	18.4%	1.6%	-0.7%	-3.0%	-8.8%	-11.8%
1991	-7.8%	-11.3%	-2.5%	4.5%	-0.7%	-0.8%	-0.4%	0.6%	0.5%	0.0%	-2.3%	-1.6%
<b>Avg</b>	0.3%	0.8%	0.9%	1.1%	-0.2%	1.6%	1.0%	3.4%	4.2%	1.1%	0.5%	-0.7%
<b>W/AN/BN</b>	0.5%	2.3%	3.1%	1.9%	-0.2%	-0.5%	0.0%	-0.7%	0.2%	1.1%	2.7%	0.9%
<b>D/C</b>	0.1%	-0.4%	-0.8%	0.6%	-0.2%	3.2%	1.8%	6.5%	7.3%	1.2%	-1.2%	-2.0%



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**Alternative 3**

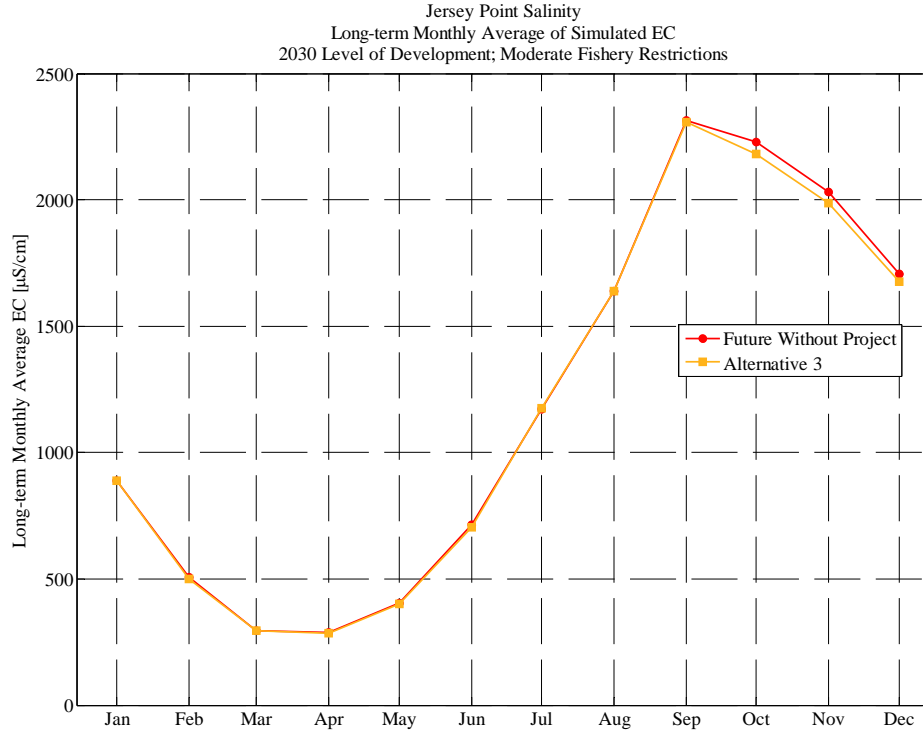
**Jersey Point Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 3**

**2030 Level of Development; Moderate Fishery Restrictions**

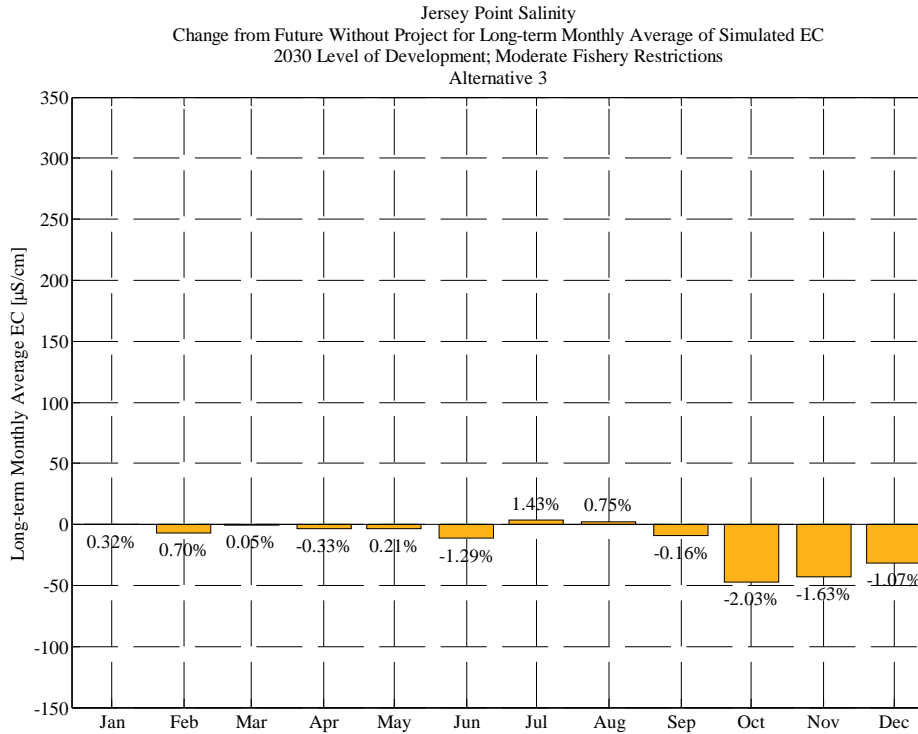
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	561	834	1,541	1,466	736	281	275	736	1,725	2,199	2,193	3,027
1977	2,586	2,735	2,258	1,965	747	447	706	1,038	1,841	1,886	1,972	2,680
1978	3,065	2,830	1,455	333	253	263	268	242	224	379	1,359	2,572
1979	2,797	2,931	2,435	667	272	232	232	239	228	803	1,695	2,896
1980	2,850	2,130	1,096	278	276	271	252	237	232	295	1,003	2,321
1981	2,501	2,480	2,909	772	230	205	219	297	600	1,582	1,976	2,425
1982	2,755	1,111	211	239	225	239	214	196	199	258	1,005	408
1983	187	200	241	308	296	259	238	223	219	212	197	187
1984	202	192	234	246	222	198	219	256	312	479	1,122	2,510
1985	2,458	944	265	367	296	222	240	299	661	1,497	1,888	2,730
1986	2,594	2,653	2,009	563	262	266	244	219	232	323	957	1,848
1987	1,943	2,264	2,830	1,759	544	234	234	384	675	1,540	2,039	2,513
1988	2,608	2,537	2,552	840	278	319	374	721	852	1,676	2,532	2,962
1989	2,526	2,768	2,014	1,480	1,062	299	201	211	603	1,580	2,005	2,584
1990	2,696	2,529	2,354	715	310	403	391	575	1,285	2,110	2,179	2,530
1991	2,585	2,662	2,399	2,201	1,976	560	243	519	1,373	1,996	2,116	2,709
<b>Avg</b>	2,182	1,987	1,675	887	499	294	284	399	704	1,176	1,640	2,306
<b>W/AN/BN</b>	2,064	1,721	1,097	376	258	247	238	230	235	392	1,048	1,820
<b>D/C</b>	2,274	2,195	2,125	1,285	686	330	320	531	1,068	1,785	2,100	2,684

**Percent (%) Change from Future Without Project for Jersey Point Salinity  
(Alternative 3 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

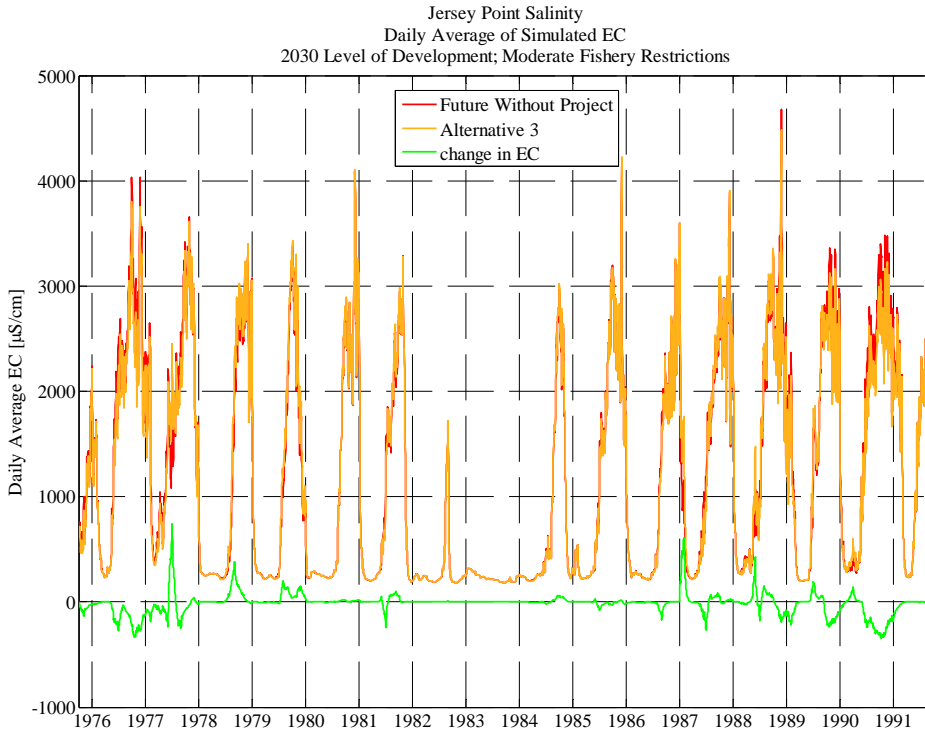
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-8.7%	-8.8%	-2.0%	-1.2%	-1.2%	-0.4%	-0.1%	-8.5%	-10.7%	-5.0%	-3.2%	-5.0%
1977	-10.2%	-8.6%	-6.7%	-4.4%	-11.0%	-9.2%	-10.2%	-10.5%	18.7%	13.9%	-8.9%	-4.2%
1978	-1.6%	0.6%	-0.2%	-0.5%	0.0%	0.0%	0.0%	-1.1%	-0.1%	13.6%	20.0%	8.8%
1979	3.7%	0.9%	-0.3%	0.1%	-0.7%	-1.6%	-0.8%	-1.1%	-2.8%	11.3%	8.7%	2.6%
1980	1.7%	6.0%	7.4%	1.7%	-0.4%	0.0%	0.0%	-0.8%	-0.3%	-0.2%	0.7%	0.7%
1981	0.2%	0.3%	0.5%	0.4%	0.1%	0.0%	0.0%	2.9%	-10.1%	-1.4%	3.4%	3.2%
1982	0.2%	0.2%	0.2%	0.8%	0.4%	0.0%	0.0%	-0.2%	0.2%	0.3%	0.4%	0.4%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	0.2%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	-0.3%	-1.9%	-2.6%	-0.4%	-1.5%	-2.4%	1.1%	1.9%
1985	1.8%	2.2%	0.6%	0.1%	0.2%	0.0%	0.0%	1.4%	-3.1%	-2.9%	-0.6%	-0.8%
1986	-0.2%	0.3%	-0.5%	-1.3%	-0.1%	-0.9%	-0.9%	-0.4%	-0.5%	-2.2%	-7.9%	-2.9%
1987	-0.3%	0.1%	0.0%	28.2%	36.6%	2.8%	-2.1%	-7.3%	-17.1%	-2.8%	2.0%	2.6%
1988	-0.1%	0.3%	0.7%	0.5%	-1.6%	-4.6%	-2.2%	26.6%	3.8%	1.7%	3.8%	2.1%
1989	-0.8%	-4.5%	-5.6%	-9.1%	-9.8%	-4.3%	0.4%	1.5%	11.0%	7.4%	2.1%	-1.7%
1990	-7.2%	-6.8%	-4.9%	-6.1%	0.6%	21.6%	13.2%	1.1%	-8.4%	-8.4%	-9.6%	-10.2%
1991	-11.0%	-8.3%	-6.5%	-4.0%	-1.5%	-0.8%	-0.2%	0.4%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-2.0%	-1.6%	-1.1%	0.3%	0.7%	0.1%	-0.3%	0.2%	-1.3%	1.4%	0.7%	-0.2%
<b>W/AN/BN</b>	0.6%	1.1%	1.0%	0.1%	-0.2%	-0.6%	-0.6%	-0.6%	-0.7%	2.9%	3.3%	1.7%
<b>D/C</b>	-4.0%	-3.8%	-2.6%	0.5%	1.4%	0.6%	-0.1%	0.8%	-1.8%	0.3%	-1.2%	-1.6%



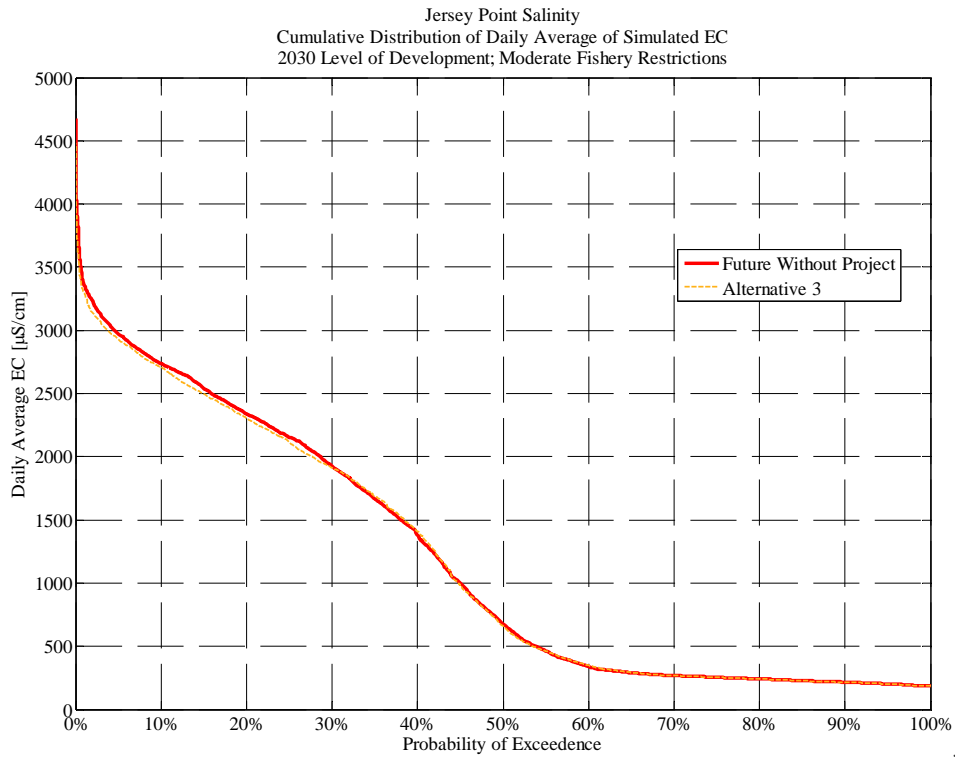
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04-Nov-2008 DS



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**Alternative 4**

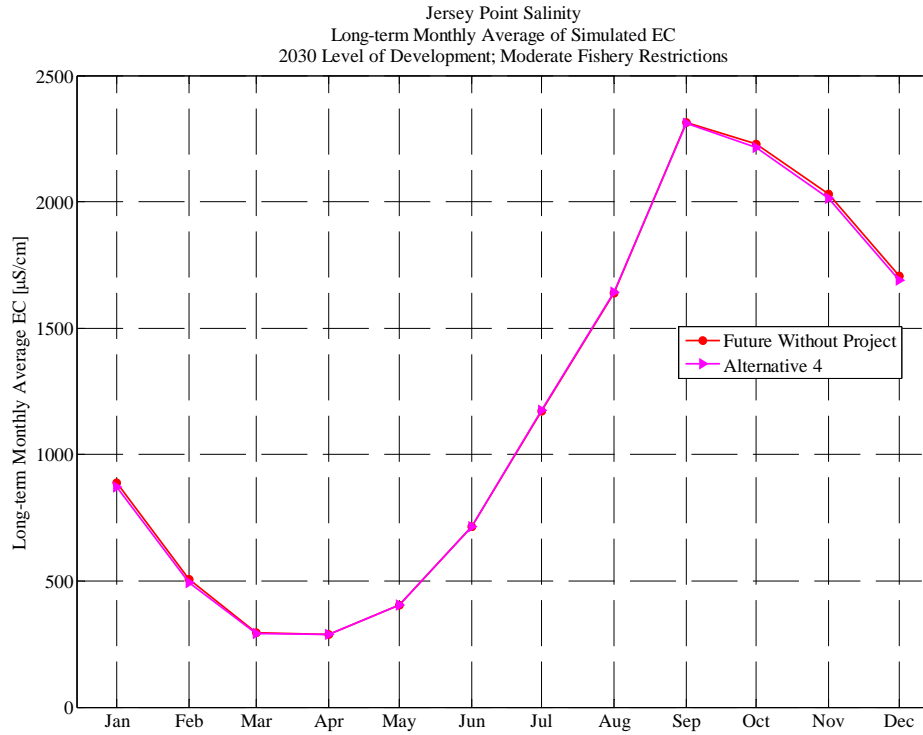
**Jersey Point Salinity**  
**Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**

**Alternative 4****2030 Level of Development; Moderate Fishery Restrictions**

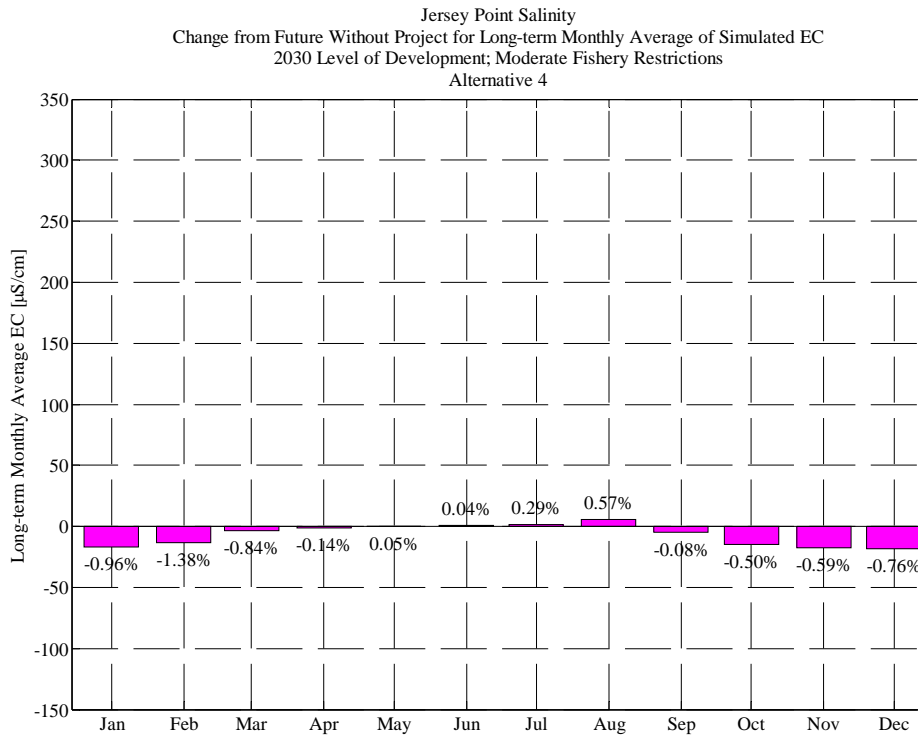
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	613	912	1,572	1,483	745	282	275	804	1,932	2,315	2,248	3,009
1977	2,661	2,815	2,253	1,938	740	450	767	1,156	1,558	1,659	2,120	2,754
1978	3,093	2,827	1,469	336	253	263	268	245	224	335	1,137	2,367
1979	2,700	2,909	2,443	666	274	236	233	242	234	728	1,636	2,897
1980	2,823	2,016	1,021	273	274	269	252	239	233	303	1,037	2,341
1981	2,515	2,479	2,892	768	230	205	219	289	667	1,607	1,912	2,353
1982	2,754	1,111	210	237	225	239	214	196	199	257	1,003	407
1983	187	200	241	307	296	259	238	223	218	212	197	187
1984	202	192	234	246	223	202	225	258	317	492	1,112	2,462
1985	2,414	924	263	367	295	222	240	294	682	1,545	1,903	2,752
1986	2,598	2,643	2,018	571	262	269	247	220	233	330	1,057	1,930
1987	1,963	2,267	2,830	1,371	398	228	239	414	815	1,584	2,000	2,451
1988	2,611	2,530	2,535	836	283	335	382	570	821	1,648	2,439	2,906
1989	2,541	2,789	2,020	1,492	1,072	300	201	210	543	1,471	1,966	2,616
1990	2,858	2,678	2,458	756	307	331	346	568	1,405	2,303	2,411	2,823
1991	2,900	2,908	2,565	2,289	2,005	564	243	517	1,373	1,996	2,116	2,710
<b>Avg</b>	<b>2,215</b>	<b>2,013</b>	<b>1,689</b>	<b>871</b>	<b>493</b>	<b>291</b>	<b>287</b>	<b>403</b>	<b>716</b>	<b>1,174</b>	<b>1,643</b>	<b>2,310</b>
<b>W/AN/BN</b>	<b>2,051</b>	<b>1,700</b>	<b>1,091</b>	<b>377</b>	<b>258</b>	<b>248</b>	<b>239</b>	<b>232</b>	<b>237</b>	<b>379</b>	<b>1,026</b>	<b>1,799</b>
<b>D/C</b>	<b>2,342</b>	<b>2,256</b>	<b>2,154</b>	<b>1,256</b>	<b>675</b>	<b>324</b>	<b>324</b>	<b>536</b>	<b>1,088</b>	<b>1,792</b>	<b>2,124</b>	<b>2,708</b>

**Percent (%) Change from Future Without Project for Jersey Point Salinity****(Alternative 4 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.2%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.8%	-5.6%
1977	-7.6%	-5.9%	-7.0%	-5.8%	-11.8%	-8.6%	-2.4%	-0.3%	0.4%	0.1%	-2.0%	-1.6%
1978	-0.7%	0.5%	0.7%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.4%	0.1%
1979	0.1%	0.2%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	4.9%	2.6%
1980	0.7%	0.3%	0.1%	-0.2%	-1.3%	-0.7%	-0.3%	0.0%	0.0%	2.6%	4.2%	1.6%
1981	0.7%	0.3%	-0.1%	-0.1%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.1%	0.1%	0.2%
1982	0.2%	0.2%	0.0%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.2%	-0.1%
1985	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.2%	0.0%
1986	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	1.8%	1.5%
1987	0.7%	0.2%	0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
1989	-0.2%	-3.8%	-5.3%	-8.3%	-8.9%	-4.1%	0.4%	1.0%	0.0%	0.0%	0.1%	-0.5%
1990	-1.7%	-1.3%	-0.7%	-0.7%	-0.2%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.2%
1991	-0.1%	0.1%	0.0%	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	<b>-0.5%</b>	<b>-0.6%</b>	<b>-0.8%</b>	<b>-1.0%</b>	<b>-1.4%</b>	<b>-0.8%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.6%</b>	<b>-0.1%</b>
<b>W/AN/BN</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>-0.2%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>1.7%</b>	<b>0.8%</b>
<b>D/C</b>	<b>-0.9%</b>	<b>-1.2%</b>	<b>-1.4%</b>	<b>-1.7%</b>	<b>-2.3%</b>	<b>-1.4%</b>	<b>-0.2%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>-0.3%</b>	<b>-0.8%</b>

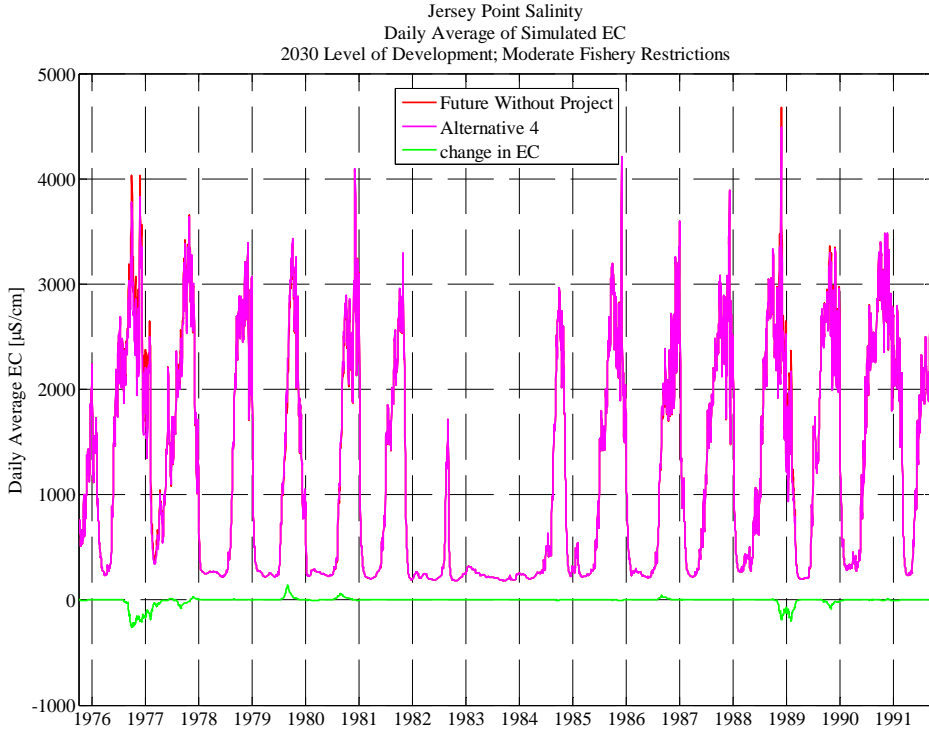


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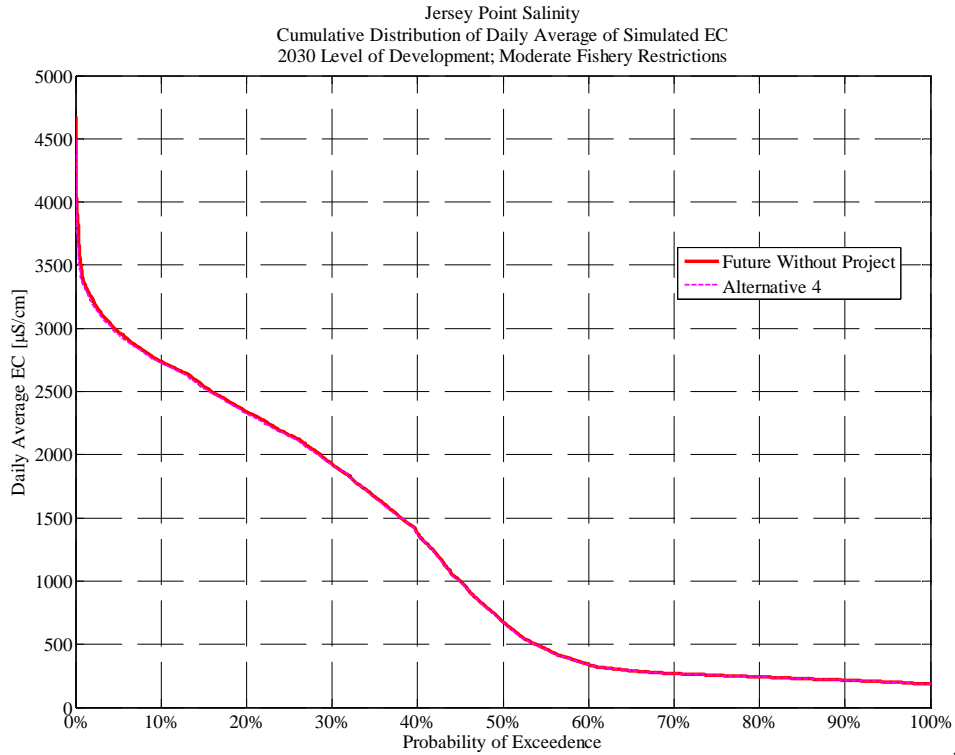


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## Clifton Court Forebay

### *Future Without Project*

**Clifton Court Forebay Entrance Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

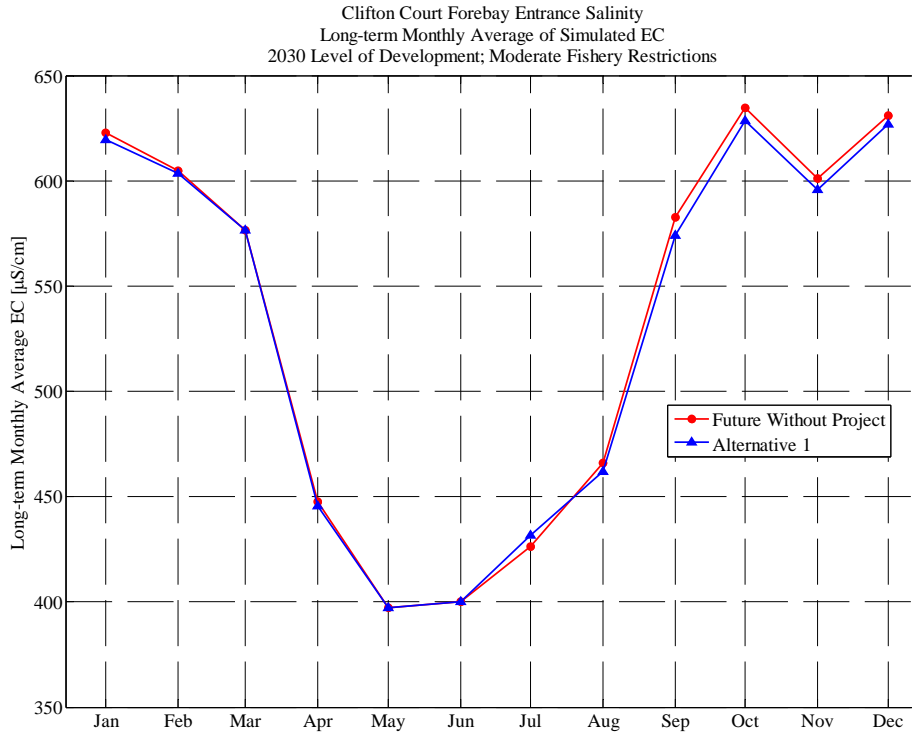
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	302	319	469	643	715	711	546	476	548	653	629	741
1977	826	729	841	752	944	857	616	567	598	556	599	698
1978	854	931	746	667	660	629	401	310	393	377	324	513
1979	649	669	714	661	418	346	367	305	348	281	401	598
1980	742	588	485	427	351	399	358	350	365	372	321	479
1981	620	610	771	717	637	631	464	393	397	423	513	625
1982	723	587	344	629	320	336	225	203	329	360	313	286
1983	210	269	379	358	332	272	294	258	236	221	202	225
1984	247	218	305	340	265	339	355	340	393	289	321	528
1985	623	478	348	393	571	681	495	430	412	429	529	665
1986	727	659	725	598	469	322	243	227	359	459	328	444
1987	505	554	715	771	728	714	530	460	416	426	539	641
1988	723	682	777	770	695	802	579	519	426	407	602	774
1989	807	755	844	671	901	728	550	477	330	423	522	715
1990	741	729	783	686	683	647	526	540	432	593	673	715
1991	854	838	846	883	986	812	612	499	420	553	639	675
<b>Avg</b>	635	601	631	623	605	577	448	397	400	426	466	583
<b>W/AN/BN</b>	593	560	528	526	402	378	320	285	346	337	316	439
<b>D/C</b>	667	633	710	698	762	731	547	485	442	496	583	694

**Alternative 1****Clifton Court Forebay Entrance Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )****Alternative 1****2030 Level of Development; Moderate Fishery Restrictions**

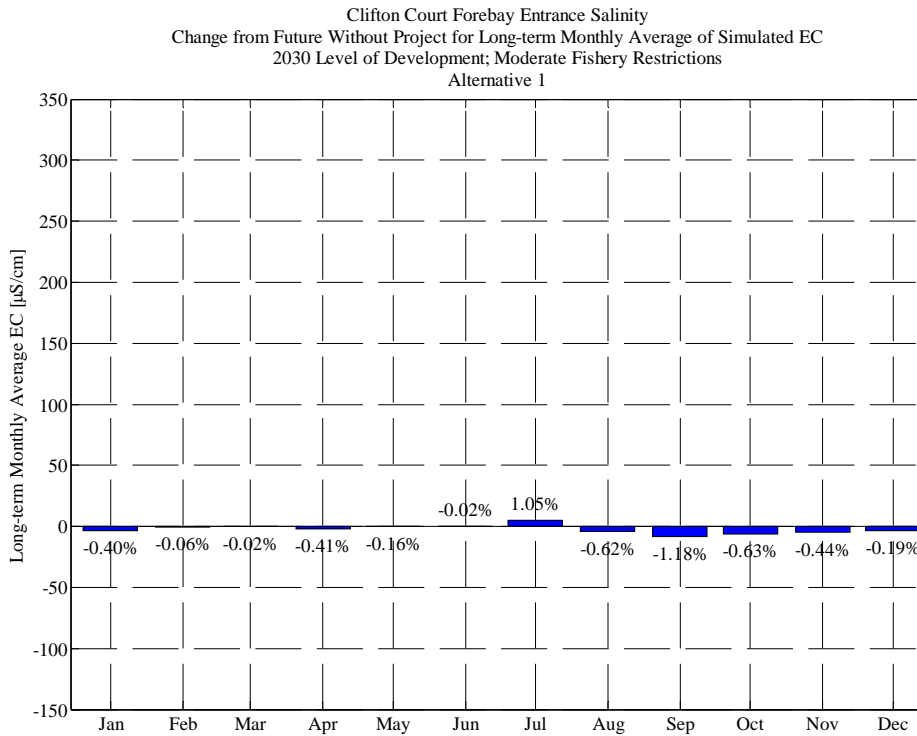
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	307	336	502	668	721	714	535	475	539	646	626	722
1977	787	695	811	723	938	865	612	569	602	619	605	655
1978	817	923	752	669	661	632	401	308	392	370	342	569
1979	666	675	719	660	415	343	365	302	346	276	390	588
1980	743	595	499	425	351	399	357	348	365	372	322	473
1981	614	603	757	708	632	631	462	388	395	411	500	624
1982	726	588	340	633	320	335	225	203	330	362	314	285
1983	210	269	379	358	332	272	294	258	236	221	201	226
1984	247	217	305	339	264	341	354	340	393	288	321	527
1985	624	477	350	399	581	689	492	423	406	416	519	655
1986	732	666	730	598	469	322	241	225	361	459	326	429
1987	497	549	714	768	730	720	530	455	418	432	530	639
1988	729	690	784	773	697	798	570	523	444	446	608	775
1989	811	745	827	649	867	721	548	479	320	445	518	728
1990	760	715	757	666	698	643	533	551	434	588	650	651
1991	786	792	806	877	982	803	609	506	423	552	617	636
<b>Avg</b>	628	596	627	620	604	577	446	397	400	432	462	574
<b>W/AN/BN</b>	592	562	532	526	402	378	320	284	346	336	317	442
<b>D/C</b>	657	622	701	692	761	731	544	485	442	506	575	676

**Percent (%) Change from Future Without Project for Clifton Court Forebay Entrance Salinity****(Alternative 1 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

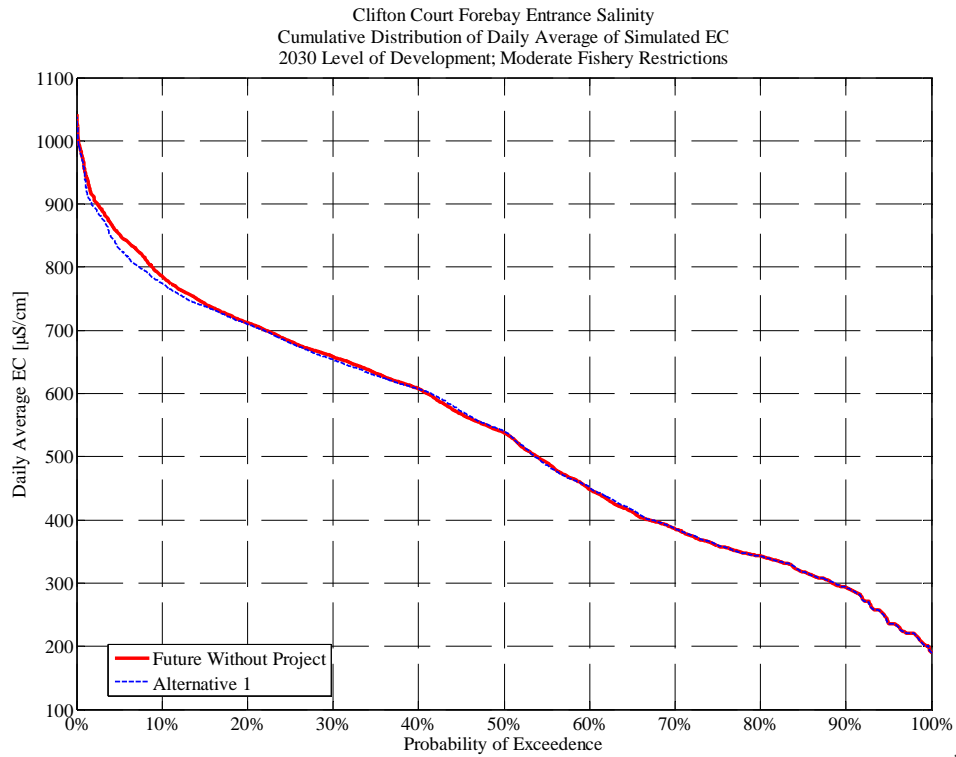
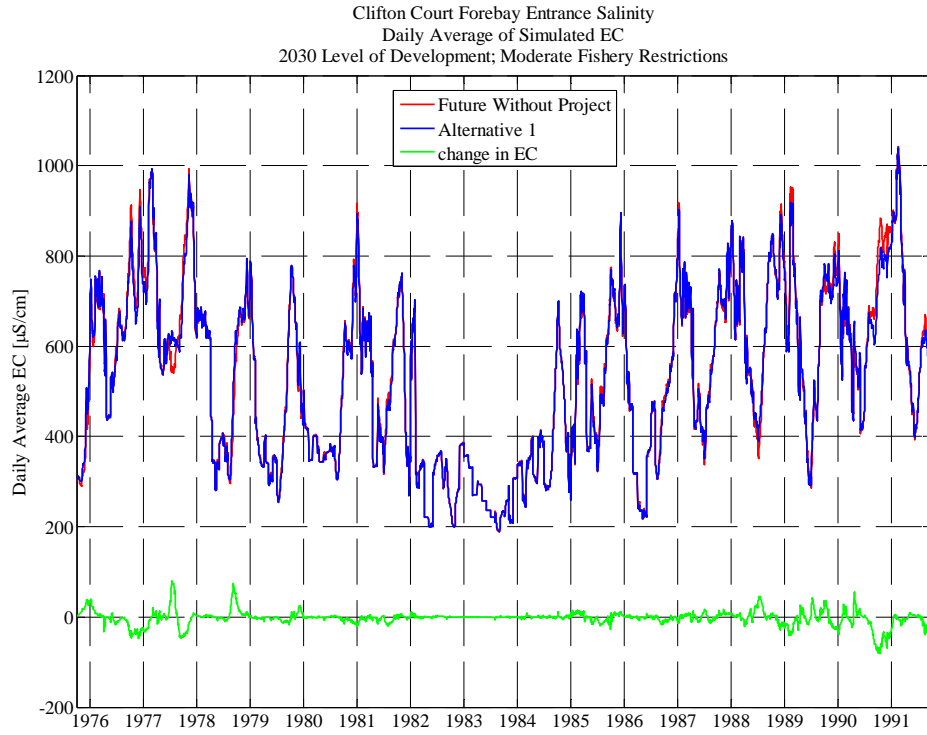
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1.6%	5.5%	7.0%	3.9%	0.9%	0.4%	-2.0%	-0.1%	-1.8%	-1.1%	-0.5%	-2.5%
1977	-4.7%	-4.6%	-3.6%	-3.9%	-0.7%	0.9%	-0.7%	0.4%	0.6%	11.4%	1.1%	-6.2%
1978	-4.3%	-0.9%	0.8%	0.2%	0.1%	0.4%	0.2%	-0.7%	-0.4%	-1.8%	5.7%	10.9%
1979	2.6%	0.8%	0.7%	-0.2%	-0.6%	-0.8%	-0.5%	-0.9%	-0.5%	-1.5%	-2.8%	-1.7%
1980	0.2%	1.2%	2.7%	-0.4%	0.0%	-0.2%	-0.1%	-0.6%	-0.1%	0.2%	0.2%	-1.1%
1981	-0.8%	-1.2%	-1.8%	-1.3%	-0.7%	-0.1%	-0.4%	-1.4%	-0.5%	-2.8%	-2.5%	-0.3%
1982	0.5%	0.2%	-0.9%	0.7%	0.0%	-0.3%	0.1%	-0.4%	0.2%	0.5%	0.2%	-0.2%
1983	-0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	-0.1%	-0.4%	0.1%
1984	-0.1%	-0.3%	0.0%	-0.3%	-0.7%	0.6%	-0.3%	0.1%	0.0%	-0.2%	0.2%	-0.2%
1985	0.1%	-0.3%	0.5%	1.6%	1.8%	1.2%	-0.4%	-1.5%	-1.5%	-3.0%	-2.0%	-1.5%
1986	0.6%	1.1%	0.7%	0.1%	0.0%	0.0%	-1.0%	-0.8%	0.6%	0.0%	-0.7%	-3.2%
1987	-1.6%	-0.7%	-0.2%	-0.4%	0.3%	0.8%	-0.1%	-1.2%	0.6%	1.4%	-1.8%	-0.4%
1988	0.8%	1.1%	0.9%	0.4%	0.4%	-0.4%	-1.5%	0.7%	4.2%	9.5%	1.2%	0.1%
1989	0.5%	-1.3%	-2.0%	-3.2%	-3.8%	-1.0%	-0.4%	0.5%	-3.1%	5.3%	-0.8%	1.8%
1990	2.6%	-2.0%	-3.3%	-3.0%	2.2%	-0.7%	1.3%	2.1%	0.6%	-0.8%	-3.3%	-8.8%
1991	-8.0%	-5.5%	-4.7%	-0.7%	-0.4%	-1.1%	-0.5%	1.3%	0.7%	-0.2%	-3.5%	-5.8%
<b>Avg</b>	-0.6%	-0.4%	-0.2%	-0.4%	-0.1%	0.0%	-0.4%	-0.2%	0.0%	1.0%	-0.6%	-1.2%
<b>W/AN/BN</b>	-0.1%	0.3%	0.5%	0.0%	-0.2%	0.0%	-0.3%	-0.5%	0.0%	-0.4%	0.3%	0.7%
<b>D/C</b>	-1.1%	-1.0%	-0.8%	-0.7%	0.0%	0.0%	-0.5%	0.1%	0.0%	2.2%	-1.4%	-2.6%



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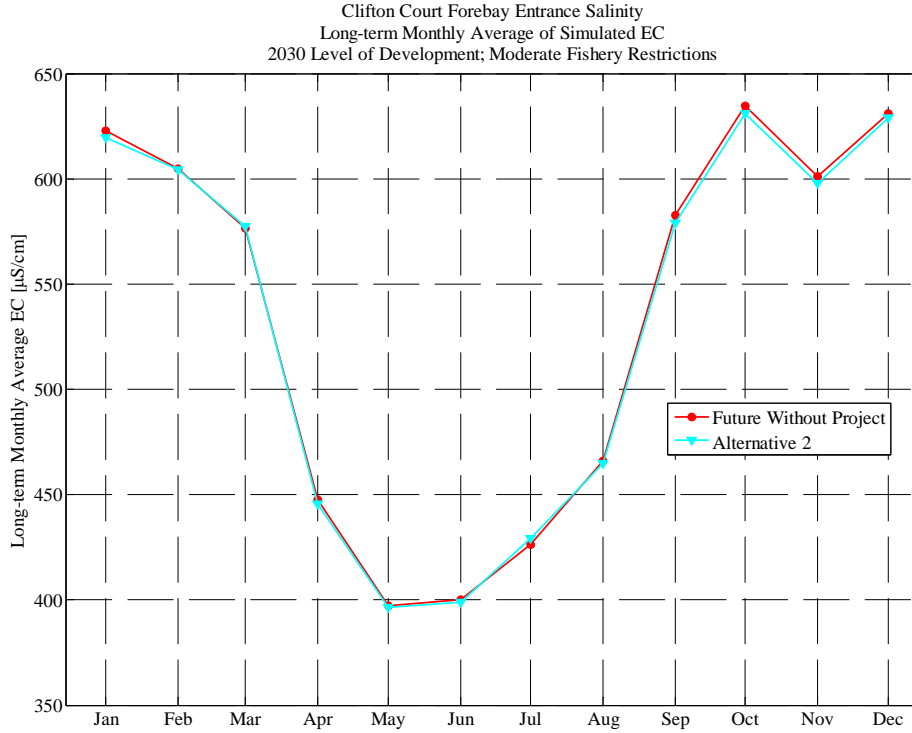


**Alternative 2****Clifton Court Forebay Entrance Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 2****2030 Level of Development; Moderate Fishery Restrictions**

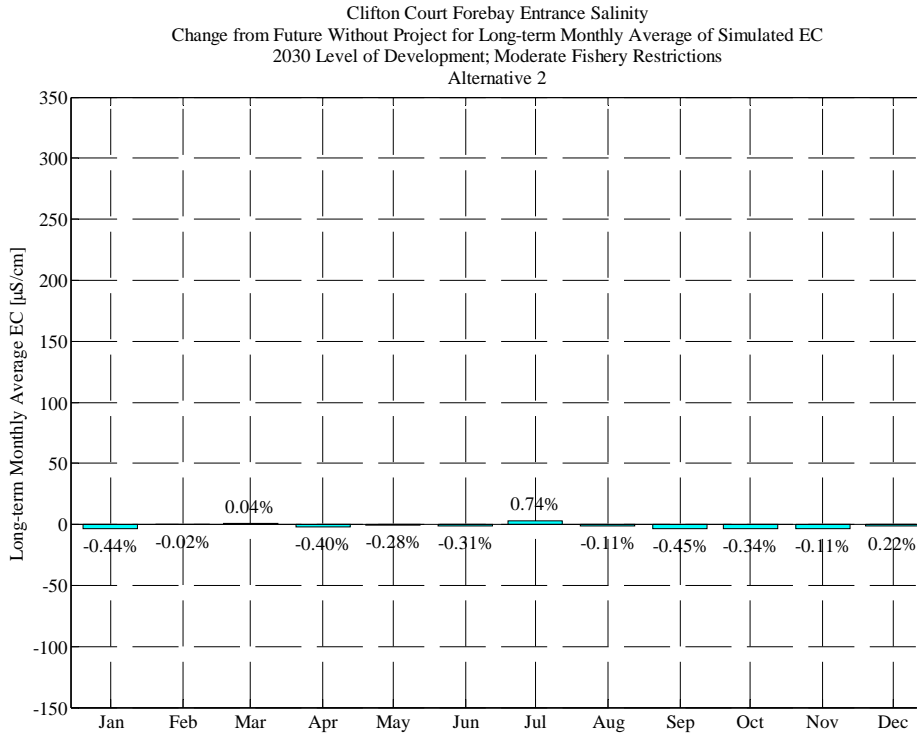
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	308	341	512	673	722	714	535	475	539	646	626	723
1977	788	696	811	722	937	865	613	567	586	555	599	691
1978	845	931	749	680	661	632	401	308	392	371	342	569
1979	666	676	720	654	414	343	365	302	346	277	390	588
1980	743	603	516	427	351	399	357	348	365	372	322	473
1981	614	603	757	705	630	630	462	388	395	411	500	624
1982	726	594	342	629	319	335	225	203	330	362	314	285
1983	210	269	379	358	332	272	294	258	236	221	201	226
1984	247	217	305	339	263	341	354	340	393	288	321	527
1985	624	477	350	399	580	688	492	423	406	416	519	655
1986	732	666	730	594	469	322	241	225	357	471	326	428
1987	496	549	714	766	736	721	530	455	418	442	532	640
1988	730	690	785	770	695	798	570	523	444	453	643	792
1989	817	746	827	649	867	721	548	479	320	446	518	728
1990	762	716	758	662	698	643	533	551	432	587	651	654
1991	786	791	811	882	998	814	610	498	420	552	633	663
<b>Avg</b>	631	598	629	619	604	577	446	396	399	429	465	579
<b>W/AN/BN</b>	596	565	534	526	401	378	320	284	346	337	317	442
<b>D/C</b>	658	623	703	692	763	732	544	484	440	501	580	686

**Percent (%) Change from Future Without Project for Clifton Court Forebay Entrance  
(Alternative 2 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

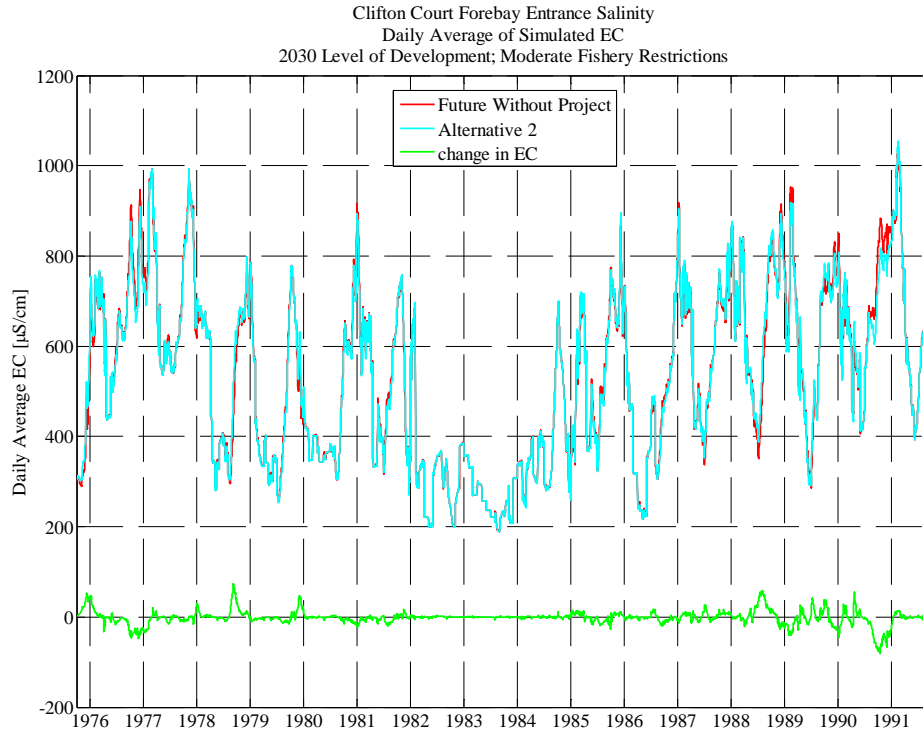
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1.9%	7.0%	9.3%	4.6%	1.0%	0.3%	-2.0%	-0.1%	-1.8%	-1.1%	-0.5%	-2.5%
1977	-4.6%	-4.5%	-3.6%	-4.0%	-0.7%	0.9%	-0.5%	0.0%	-1.9%	-0.1%	0.0%	-1.0%
1978	-1.0%	0.0%	0.3%	1.8%	0.1%	0.4%	0.1%	-0.7%	-0.4%	-1.8%	5.7%	10.9%
1979	2.6%	0.9%	0.8%	-1.0%	-0.9%	-0.8%	-0.5%	-0.9%	-0.5%	-1.5%	-2.8%	-1.7%
1980	0.2%	2.6%	6.3%	-0.1%	0.0%	-0.1%	-0.1%	-0.6%	-0.1%	0.2%	0.2%	-1.1%
1981	-0.8%	-1.2%	-1.8%	-1.6%	-1.0%	-0.2%	-0.4%	-1.4%	-0.5%	-2.8%	-2.5%	-0.2%
1982	0.5%	1.3%	-0.4%	0.1%	-0.3%	-0.3%	0.1%	-0.4%	0.2%	0.5%	0.2%	-0.2%
1983	-0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	-0.1%	-0.4%	0.1%
1984	-0.1%	-0.3%	0.0%	-0.3%	-0.8%	0.5%	-0.3%	0.1%	0.0%	-0.2%	0.2%	-0.2%
1985	0.1%	-0.2%	0.5%	1.7%	1.6%	1.0%	-0.5%	-1.5%	-1.5%	-3.0%	-2.0%	-1.5%
1986	0.6%	1.1%	0.7%	-0.6%	0.0%	0.0%	-1.0%	-0.8%	-0.4%	2.5%	-0.6%	-3.5%
1987	-1.8%	-0.8%	-0.2%	-0.5%	1.1%	0.9%	-0.1%	-1.2%	0.7%	3.7%	-1.3%	-0.2%
1988	0.9%	1.2%	1.0%	-0.1%	0.0%	-0.5%	-1.5%	0.7%	4.2%	11.2%	6.9%	2.3%
1989	1.2%	-1.1%	-1.9%	-3.2%	-3.8%	-1.0%	-0.4%	0.5%	-3.1%	5.3%	-0.8%	1.8%
1990	2.9%	-1.9%	-3.2%	-3.5%	2.3%	-0.7%	1.2%	1.9%	0.2%	-1.0%	-3.3%	-8.4%
1991	-7.9%	-5.7%	-4.1%	-0.2%	1.2%	0.2%	-0.4%	-0.2%	-0.1%	-0.1%	-0.9%	-1.8%
<b>Avg</b>	-0.3%	-0.1%	0.2%	-0.4%	0.0%	0.0%	-0.4%	-0.3%	-0.3%	0.7%	-0.1%	-0.4%
<b>W/AN/BN</b>	0.4%	0.8%	1.1%	0.0%	-0.3%	0.0%	-0.3%	-0.5%	-0.2%	-0.1%	0.3%	0.6%
<b>D/C</b>	-0.9%	-0.8%	-0.5%	-0.8%	0.2%	0.1%	-0.5%	-0.1%	-0.4%	1.4%	-0.5%	-1.3%



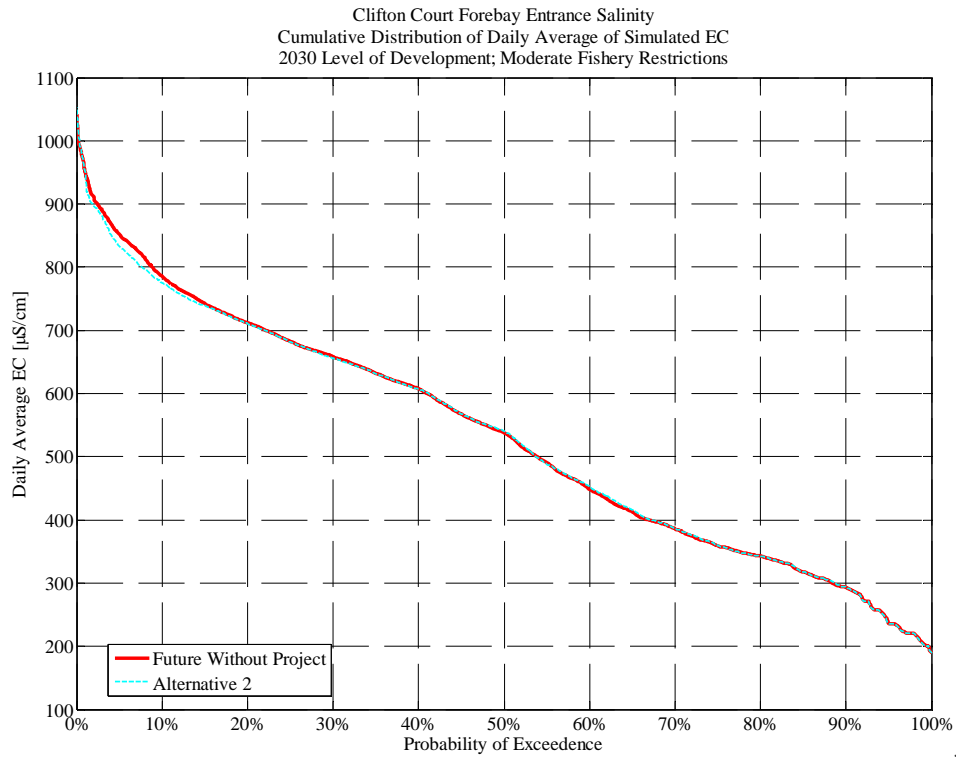
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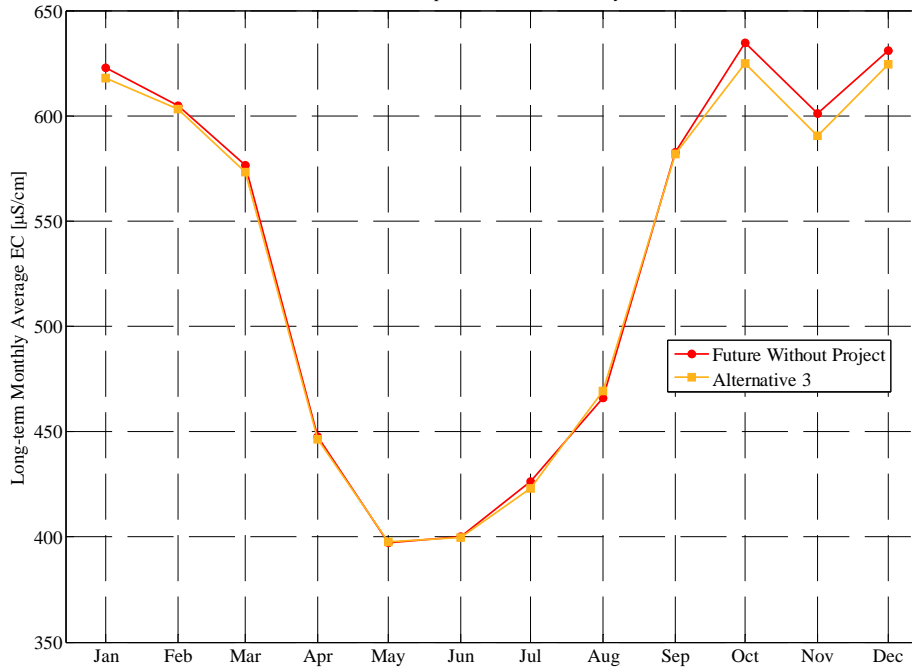
**Alternative 3****Clifton Court Forebay Entrance Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 3****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	299	309	460	638	712	711	545	479	528	613	613	709
1977	771	675	801	724	936	859	614	568	597	623	608	668
1978	829	925	749	667	660	629	401	308	391	370	339	566
1979	679	679	716	661	415	343	366	303	348	287	430	622
1980	754	607	505	430	351	400	358	349	365	372	322	482
1981	623	611	774	719	637	632	464	390	396	411	529	637
1982	726	587	341	630	321	336	225	203	329	360	314	286
1983	210	269	379	358	332	272	294	258	236	221	202	225
1984	247	218	305	340	265	328	353	340	392	288	321	535
1985	633	485	349	393	571	681	495	425	408	418	523	660
1986	723	658	725	595	469	321	245	226	358	429	322	428
1987	501	553	715	779	763	691	517	461	416	407	551	648
1988	725	681	781	776	697	805	587	525	449	408	624	793
1989	809	731	821	645	861	716	548	487	336	455	539	714
1990	693	685	750	671	691	642	519	539	427	556	634	658
1991	777	773	815	858	970	806	611	499	420	553	639	675
<b>Avg</b>	625	590	624	618	603	573	446	398	400	423	469	582
<b>W/AN/BN</b>	596	563	532	526	402	376	320	284	345	332	321	449
<b>D/C</b>	648	611	696	689	760	727	545	486	442	494	584	685

**Percent (%) Change from Future Without Project for Clifton Court Forebay Entrance  
(Alternative 3 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

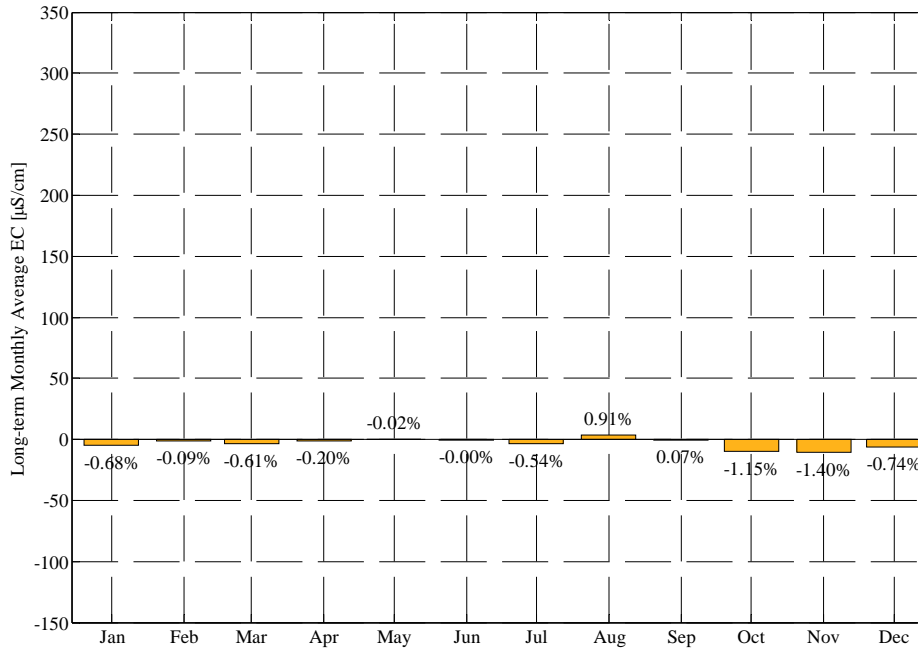
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-1.0%	-3.1%	-1.9%	-0.8%	-0.3%	-0.1%	0.0%	0.7%	-3.6%	-6.1%	-2.6%	-4.3%
1977	-6.7%	-7.4%	-4.8%	-3.7%	-0.8%	0.2%	-0.3%	0.2%	-0.2%	12.2%	1.5%	-4.3%
1978	-2.9%	-0.7%	0.4%	0.0%	0.0%	0.0%	0.1%	-0.6%	-0.6%	-1.8%	4.6%	10.4%
1979	4.5%	1.4%	0.2%	-0.1%	-0.6%	-0.7%	-0.3%	-0.7%	-0.1%	2.1%	7.2%	4.1%
1980	1.6%	3.2%	4.1%	0.7%	-0.1%	0.1%	0.0%	-0.3%	-0.1%	0.0%	0.4%	0.7%
1981	0.5%	0.2%	0.4%	0.4%	0.1%	0.1%	0.1%	-0.9%	-0.2%	-2.8%	3.1%	1.9%
1982	0.5%	0.1%	-0.6%	0.2%	0.3%	0.0%	0.0%	-0.3%	-0.1%	0.0%	0.0%	0.1%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	-0.2%	-3.2%	-0.4%	-0.2%	-0.3%	-0.2%	0.0%	1.3%
1985	1.5%	1.3%	0.3%	0.0%	0.0%	0.0%	0.0%	-1.0%	-1.0%	-2.5%	-1.2%	-0.8%
1986	-0.6%	-0.2%	0.0%	-0.5%	0.0%	0.0%	0.8%	-0.4%	-0.1%	-6.7%	-1.9%	-3.4%
1987	-0.8%	-0.1%	0.0%	1.1%	4.8%	-3.3%	-2.6%	0.2%	0.2%	-4.5%	2.3%	1.1%
1988	0.2%	-0.2%	0.6%	0.7%	0.3%	0.4%	1.5%	1.1%	5.3%	0.2%	3.8%	2.5%
1989	0.2%	-3.2%	-2.7%	-3.8%	-4.5%	-1.7%	-0.4%	2.2%	1.8%	7.6%	3.2%	-0.1%
1990	-6.4%	-6.1%	-4.2%	-2.2%	1.2%	-0.8%	-1.4%	-0.2%	-1.1%	-6.3%	-5.8%	-7.9%
1991	-9.0%	-7.7%	-3.6%	-2.9%	-1.6%	-0.7%	-0.2%	-0.1%	0.0%	0.0%	0.0%	-0.1%
<b>Avg</b>	-1.1%	-1.4%	-0.7%	-0.7%	-0.1%	-0.6%	-0.2%	0.0%	0.0%	-0.5%	0.9%	0.1%
<b>W/AN/BN</b>	0.5%	0.6%	0.6%	0.0%	-0.1%	-0.6%	0.0%	-0.3%	-0.2%	-0.9%	1.5%	1.9%
<b>D/C</b>	-2.4%	-2.9%	-1.8%	-1.2%	-0.1%	-0.7%	-0.4%	0.2%	0.1%	-0.2%	0.5%	-1.3%

Clifton Court Forebay Entrance Salinity  
 Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions

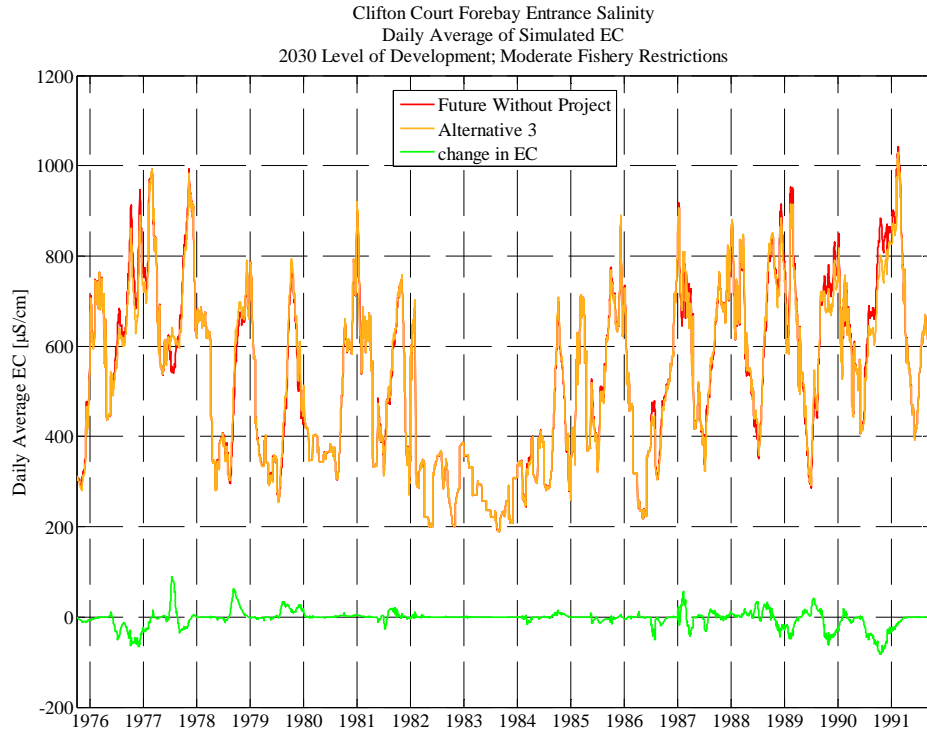


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 04-Nov-2008 DS

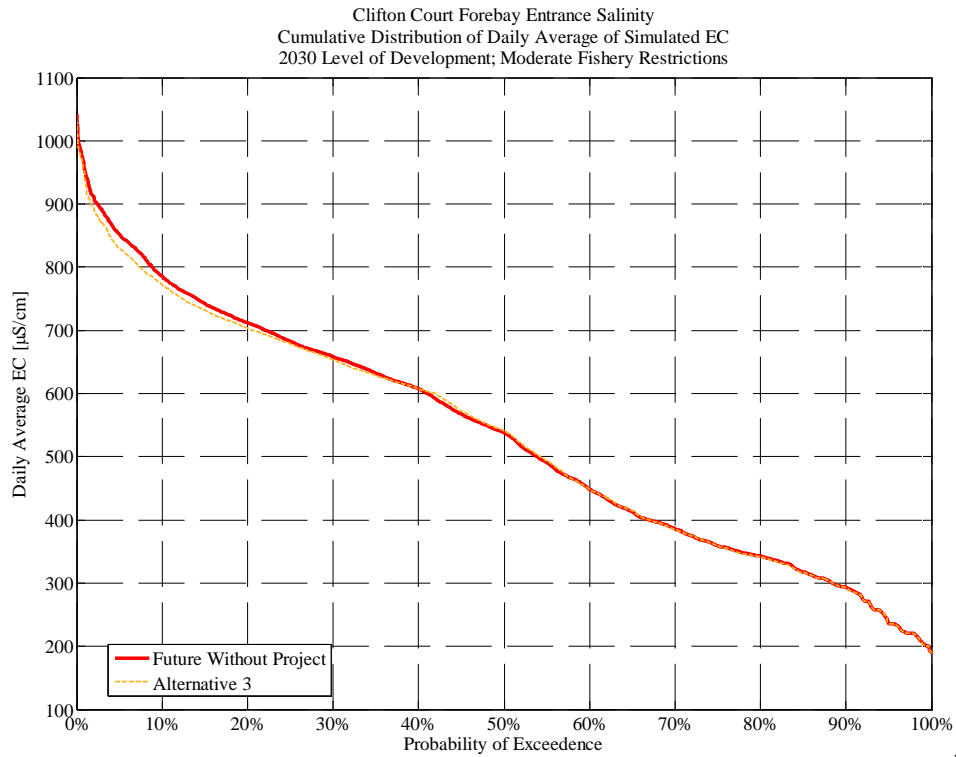
Clifton Court Forebay Entrance Salinity  
 Change from Future Without Project for Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions  
 Alternative 3



p\_lve\_wq\_eir.m  
 04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 4**

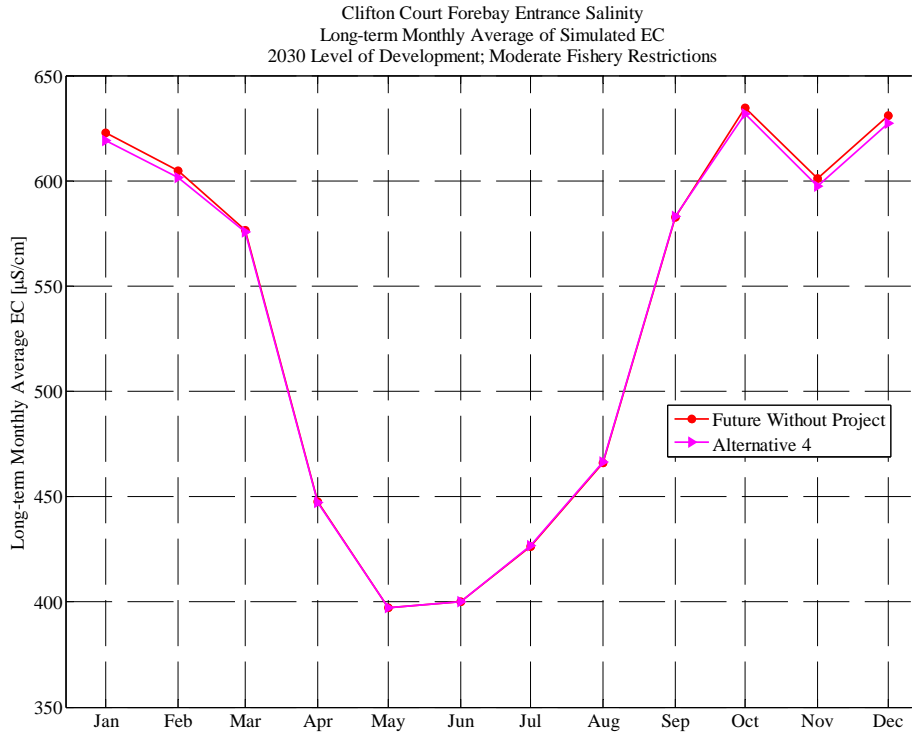
**Clifton Court Forebay Entrance Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 4**

**2030 Level of Development; Moderate Fishery Restrictions**

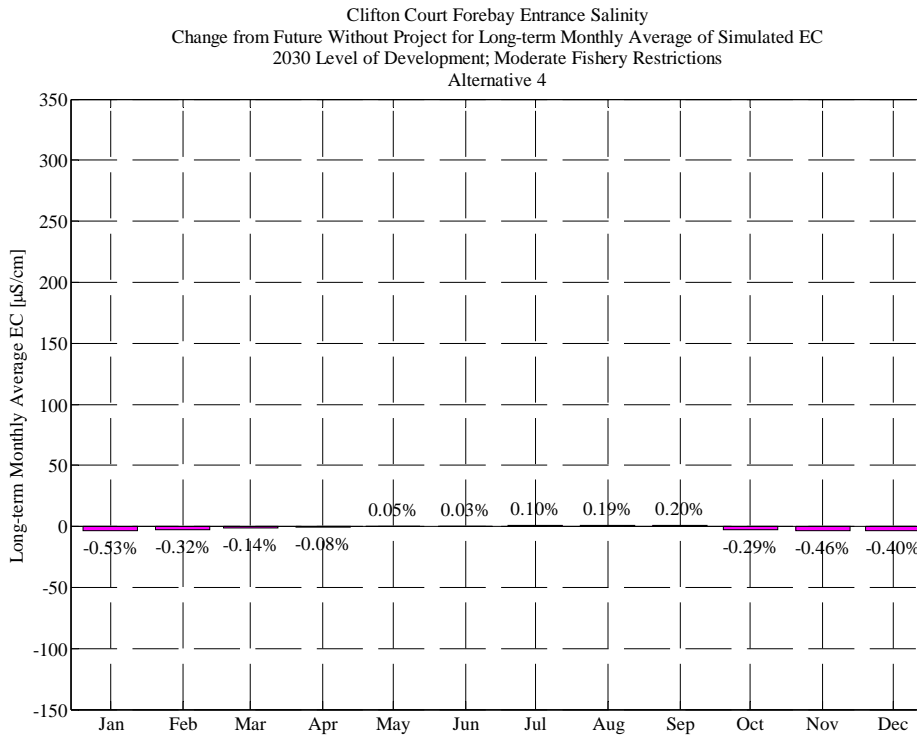
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	302	318	468	643	714	711	546	476	548	653	627	723
1977	782	693	808	720	936	850	611	565	596	563	599	688
1978	842	930	749	668	660	629	401	310	393	377	324	514
1979	650	670	715	661	418	346	367	305	348	281	408	619
1980	751	590	486	426	351	399	357	350	365	372	324	488
1981	625	612	772	716	637	632	464	393	397	423	513	625
1982	723	587	343	629	320	336	225	203	329	360	314	286
1983	210	269	379	358	332	272	294	258	236	221	202	225
1984	247	218	305	340	265	339	355	340	393	289	321	528
1985	623	478	348	393	571	681	495	430	412	430	530	665
1986	727	659	725	598	469	322	243	227	359	459	329	449
1987	508	555	715	771	728	714	530	460	416	426	539	641
1988	723	682	777	770	695	802	579	519	426	407	602	775
1989	807	742	823	647	864	717	548	482	333	423	522	715
1990	734	718	778	683	682	647	526	540	432	593	673	715
1991	854	838	846	883	986	812	612	499	420	553	639	675
<b>Avg</b>	632	597	627	619	602	576	447	397	400	427	467	583
<b>W/AN/BN</b>	593	560	529	526	402	378	320	285	346	337	317	444
<b>D/C</b>	662	626	704	692	757	730	546	485	442	497	583	691

**Percent (%) Change from Future Without Project for Clifton Court Forebay Entrance  
(Alternative 4 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

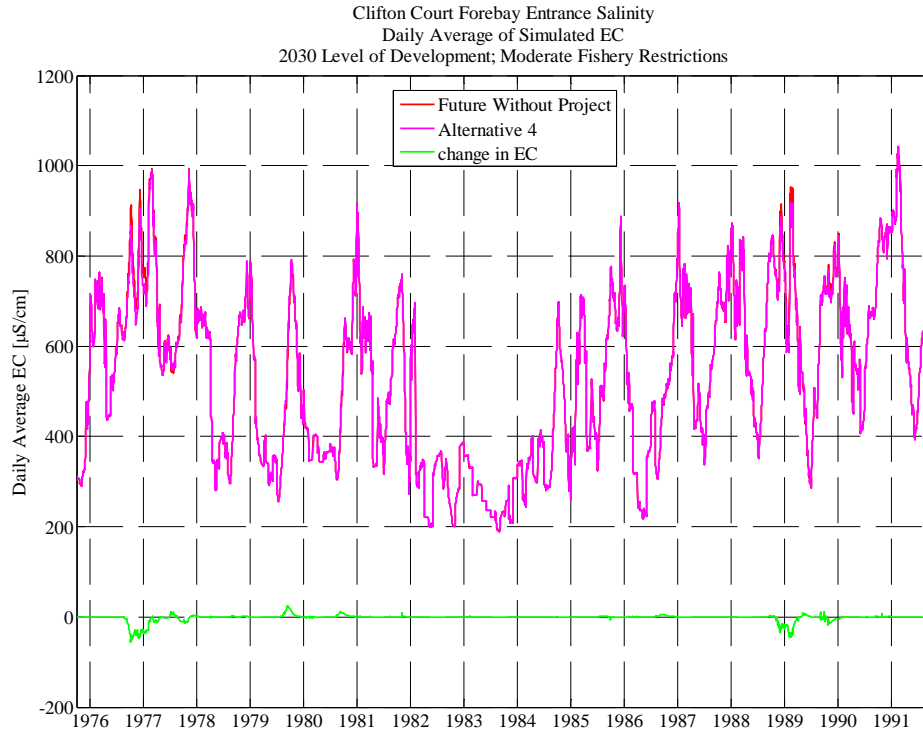
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-2.4%
1977	-5.3%	-5.0%	-4.0%	-4.3%	-0.9%	-0.8%	-0.9%	-0.3%	-0.3%	1.3%	0.0%	-1.3%
1978	-1.3%	-0.1%	0.4%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	-0.2%	0.0%	0.2%
1979	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	1.6%	3.5%
1980	1.2%	0.4%	0.1%	-0.2%	-0.1%	0.0%	-0.1%	0.0%	0.0%	0.1%	1.0%	2.0%
1981	0.8%	0.3%	0.1%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%	0.0%
1982	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.0%
1986	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	1.1%
1987	0.7%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1989	0.0%	-1.8%	-2.5%	-3.6%	-4.2%	-1.5%	-0.4%	1.1%	0.7%	0.0%	0.0%	0.0%
1990	-0.9%	-1.6%	-0.7%	-0.4%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1991	0.0%	0.0%	0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.3%	-0.5%	-0.4%	-0.5%	-0.3%	-0.1%	-0.1%	0.1%	0.0%	0.1%	0.2%	0.2%
<b>W/AN/BN</b>	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	1.0%
<b>D/C</b>	-0.5%	-0.9%	-0.8%	-0.9%	-0.6%	-0.3%	-0.1%	0.1%	0.0%	0.2%	0.0%	-0.4%



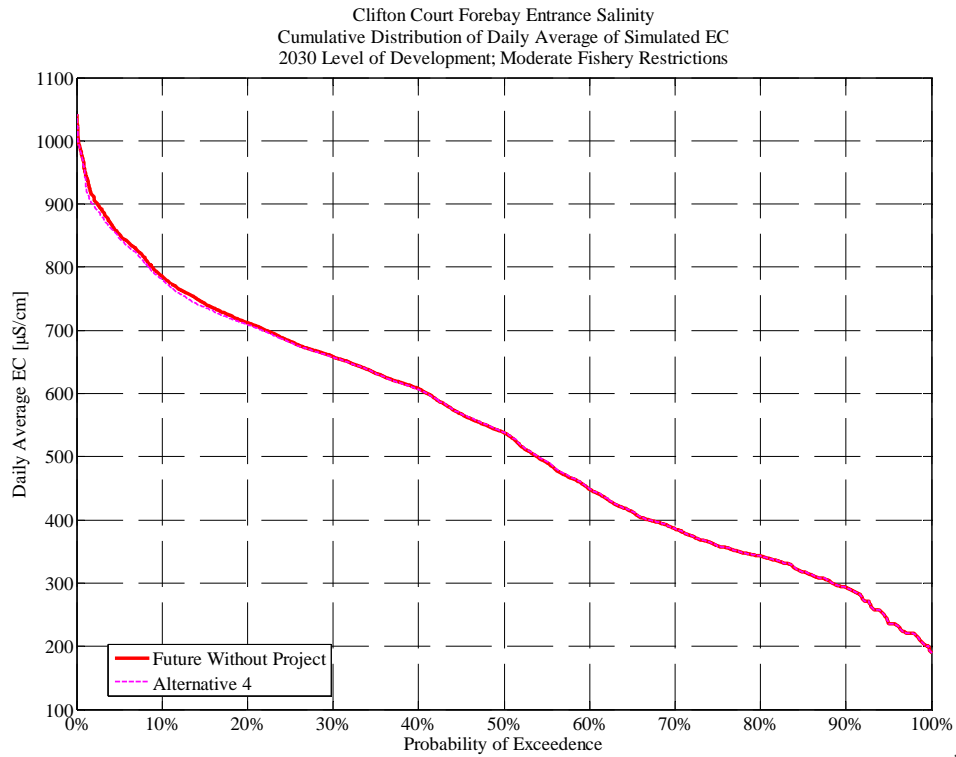
p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

## Jones Pumping Plant

### *Future Without Project*

#### Jones Pumping Plant Salinity Monthly Average of Simulated Values (EC, $\mu\text{S/cm}$ )

#### Future Without Project

#### 2030 Level of Development; Moderate Fishery Restrictions

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	320	337	532	665	735	747	619	499	555	655	621	713
1977	820	724	834	764	964	940	656	580	605	565	600	690
1978	832	903	759	693	694	662	397	315	409	415	364	498
1979	641	654	715	670	407	346	378	312	356	310	413	590
1980	726	587	549	442	387	403	362	360	375	403	355	487
1981	605	602	755	725	665	665	512	405	408	441	521	626
1982	715	596	443	666	319	347	231	212	344	377	319	277
1983	212	279	383	415	359	305	307	265	252	230	197	235
1984	262	217	327	342	257	349	383	364	405	316	340	514
1985	600	486	435	464	606	710	532	443	423	449	534	658
1986	724	655	731	631	511	346	251	233	370	470	367	451
1987	501	545	708	770	755	748	574	471	428	453	548	634
1988	720	686	779	781	727	927	623	539	438	434	604	753
1989	793	749	841	702	966	758	591	500	344	440	529	693
1990	730	733	783	712	742	696	582	587	445	594	668	703
1991	832	821	840	887	1,008	831	665	528	439	559	640	671
<b>Avg</b>	627	598	651	646	631	611	479	413	412	445	476	575
<b>W/AN/BN</b>	587	556	558	551	419	394	330	295	359	360	336	436
<b>D/C</b>	658	632	723	719	796	780	595	506	454	510	585	682

**Alternative 1**

**Jones Pumping Plant Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 1**

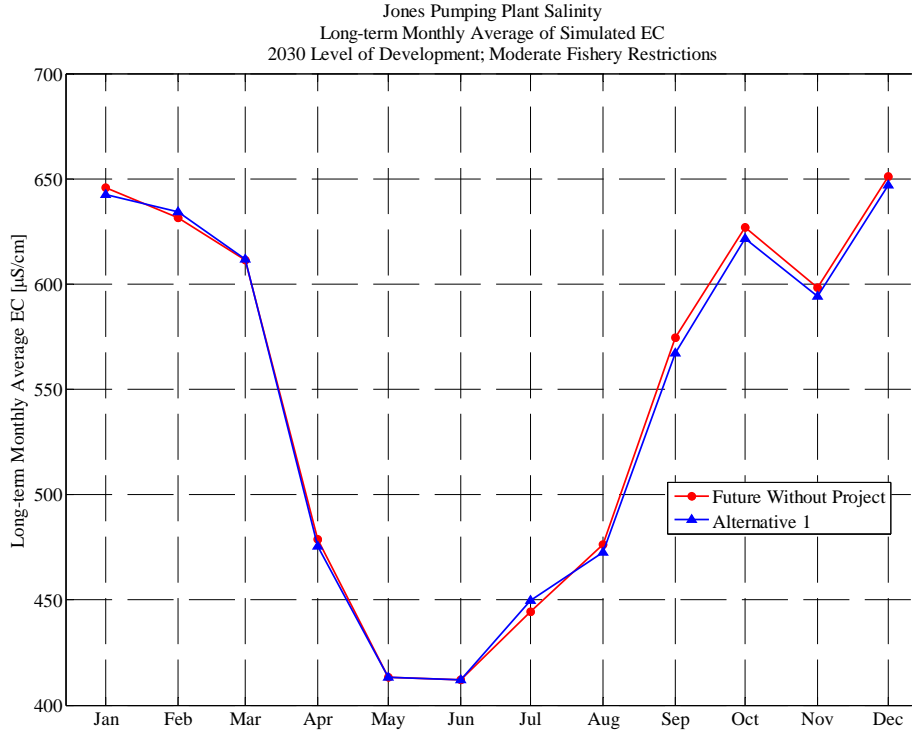
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	324	353	556	684	742	751	588	498	546	648	618	698
1977	784	694	808	738	961	945	658	582	605	623	608	654
1978	798	894	764	694	695	663	397	314	407	410	378	536
1979	657	659	719	670	405	344	376	311	355	307	403	584
1980	727	593	558	441	387	403	363	359	375	404	356	484
1981	602	597	744	717	660	664	498	401	406	431	510	623
1982	718	597	441	670	319	346	231	212	344	378	320	277
1983	212	279	383	415	359	305	308	266	252	231	197	235
1984	261	217	327	341	256	351	378	364	405	316	341	514
1985	601	485	435	467	614	718	528	437	417	437	525	651
1986	725	661	735	631	513	346	248	232	371	471	364	442
1987	494	542	706	769	758	756	596	468	430	459	540	631
1988	725	693	784	784	729	927	611	540	454	469	611	754
1989	797	741	826	684	933	751	592	501	334	462	526	701
1990	750	720	760	693	813	694	571	593	447	589	649	649
1991	772	780	806	880	1,004	822	663	533	442	557	621	638
<b>Avg</b>	622	594	647	642	634	612	475	413	412	450	473	567
<b>W/AN/BN</b>	586	557	561	552	419	394	329	294	358	360	337	439
<b>D/C</b>	650	623	714	713	802	781	589	506	454	520	579	667

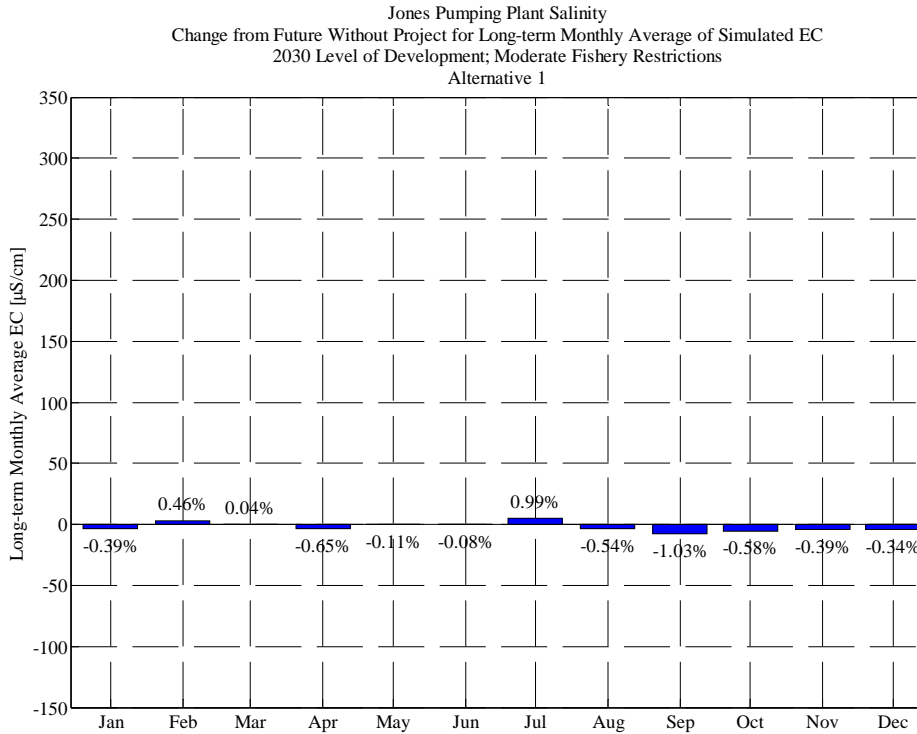
**Percent (%) Change from Future Without Project for Jones Pumping Plant Salinity  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1.3%	4.5%	4.5%	2.9%	0.8%	0.5%	-4.9%	-0.1%	-1.6%	-1.0%	-0.4%	-2.1%
1977	-4.4%	-4.2%	-3.2%	-3.4%	-0.3%	0.5%	0.3%	0.4%	0.0%	10.4%	1.3%	-5.2%
1978	-4.1%	-1.0%	0.6%	0.2%	0.1%	0.2%	0.1%	-0.3%	-0.3%	-1.2%	3.9%	7.6%
1979	2.6%	0.9%	0.5%	-0.1%	-0.4%	-0.5%	-0.5%	-0.4%	-0.4%	-1.1%	-2.4%	-1.0%
1980	0.2%	1.0%	1.7%	-0.2%	0.0%	0.0%	0.2%	-0.2%	0.0%	0.1%	0.1%	-0.5%
1981	-0.6%	-0.9%	-1.4%	-1.1%	-0.6%	-0.2%	-2.7%	-1.0%	-0.5%	-2.4%	-2.1%	-0.4%
1982	0.5%	0.2%	-0.4%	0.6%	0.0%	-0.2%	0.0%	-0.3%	0.1%	0.2%	0.1%	0.0%
1983	-0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.4%	0.1%	0.1%	0.1%	-0.1%	0.1%
1984	-0.1%	-0.1%	-0.1%	-0.1%	-0.4%	0.5%	-1.2%	0.1%	0.0%	-0.1%	0.2%	-0.1%
1985	0.1%	-0.3%	0.0%	0.7%	1.3%	1.2%	-0.8%	-1.3%	-1.4%	-2.6%	-1.8%	-1.0%
1986	0.1%	1.0%	0.5%	-0.1%	0.5%	0.0%	-1.0%	-0.4%	0.4%	0.3%	-0.6%	-2.0%
1987	-1.4%	-0.6%	-0.2%	-0.2%	0.4%	1.0%	3.8%	-0.6%	0.5%	1.4%	-1.5%	-0.5%
1988	0.7%	1.0%	0.8%	0.4%	0.3%	-0.1%	-2.0%	0.2%	3.8%	8.1%	1.1%	0.2%
1989	0.5%	-1.0%	-1.8%	-2.7%	-3.4%	-0.9%	0.2%	0.3%	-3.0%	4.8%	-0.6%	1.2%
1990	2.7%	-1.8%	-2.9%	-2.6%	9.6%	-0.3%	-1.9%	1.0%	0.5%	-0.9%	-2.9%	-7.7%
1991	-7.3%	-5.0%	-4.0%	-0.8%	-0.4%	-1.0%	-0.3%	0.8%	0.5%	-0.3%	-3.0%	-5.0%
<b>Avg</b>	-0.6%	-0.4%	-0.3%	-0.4%	0.5%	0.0%	-0.7%	-0.1%	-0.1%	1.0%	-0.5%	-1.0%
<b>W/AN/BN</b>	-0.1%	0.3%	0.4%	0.1%	0.0%	0.0%	-0.3%	-0.2%	0.0%	-0.3%	0.2%	0.6%
<b>D/C</b>	-0.9%	-0.9%	-0.9%	-0.8%	0.9%	0.1%	-0.9%	0.0%	-0.1%	2.0%	-1.1%	-2.3%

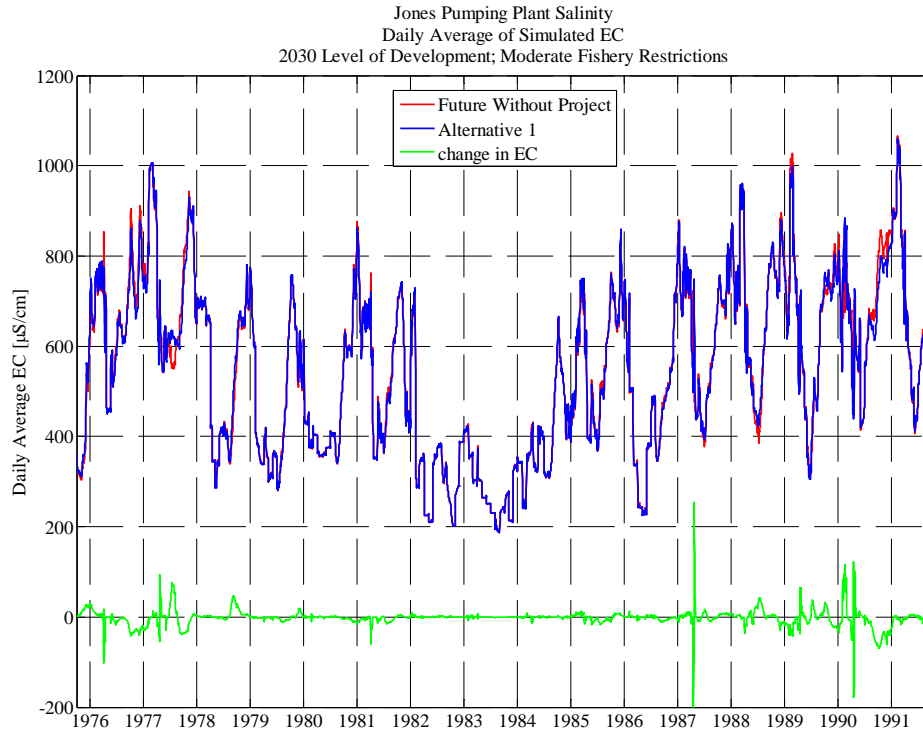




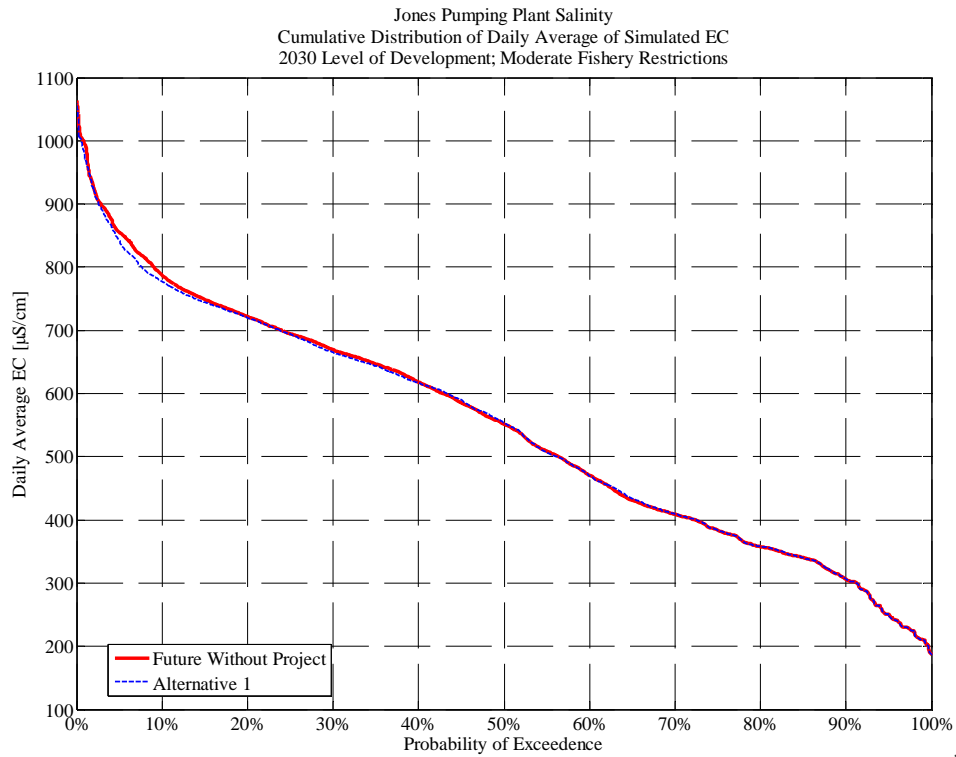
p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 2**

**Jones Pumping Plant Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**

**Alternative 2****2030 Level of Development; Moderate Fishery Restrictions**

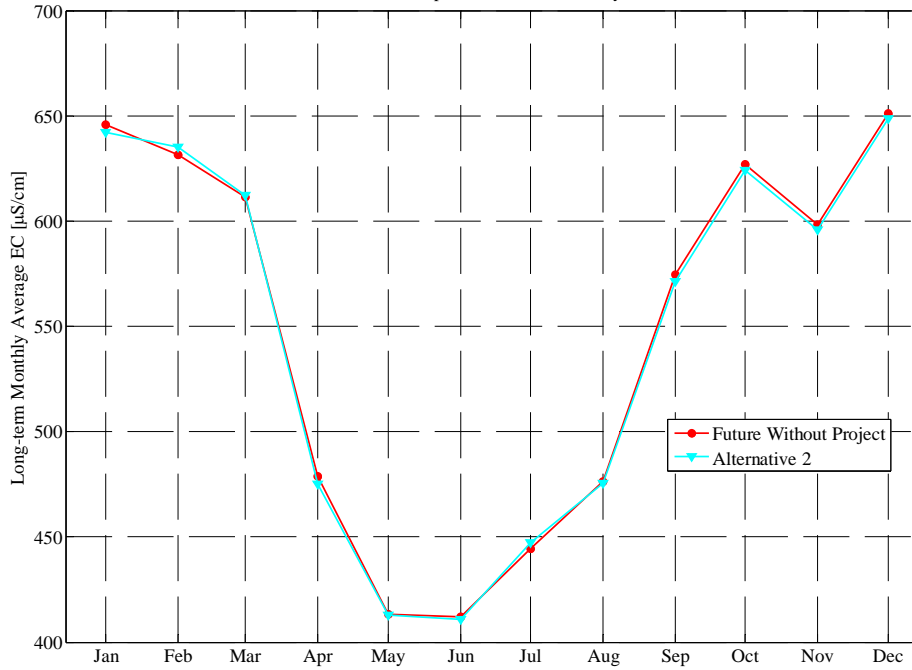
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	325	357	564	688	742	751	588	498	546	648	618	699
1977	784	694	808	737	961	945	653	580	594	563	600	684
1978	825	903	761	704	695	663	397	314	407	410	378	536
1979	657	660	720	665	404	344	376	311	355	307	403	585
1980	727	601	571	442	386	403	363	359	375	404	356	484
1981	602	597	744	714	658	663	498	401	406	431	510	623
1982	718	603	443	667	319	346	231	212	344	378	320	277
1983	212	279	383	415	360	305	307	266	252	231	197	235
1984	261	217	327	341	256	350	378	364	405	316	341	514
1985	601	485	435	467	613	717	527	437	417	437	525	651
1986	725	661	735	628	513	346	248	232	369	478	365	441
1987	494	542	706	767	763	756	595	468	431	468	542	632
1988	726	694	785	781	727	926	611	540	454	475	641	769
1989	803	743	826	684	933	751	592	501	334	462	526	701
1990	752	721	761	690	813	694	570	593	445	589	649	652
1991	772	778	810	885	1,021	832	664	527	438	558	635	661
<b>Avg</b>	624	596	649	642	635	612	475	413	411	447	475	571
<b>W/AN/BN</b>	589	560	563	552	419	394	329	294	358	361	337	439
<b>D/C</b>	651	623	715	713	803	782	589	505	452	515	583	675

**Percent (%) Change from Future Without Project for Jones Pumping Plant Salinity  
(Alternative 2 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

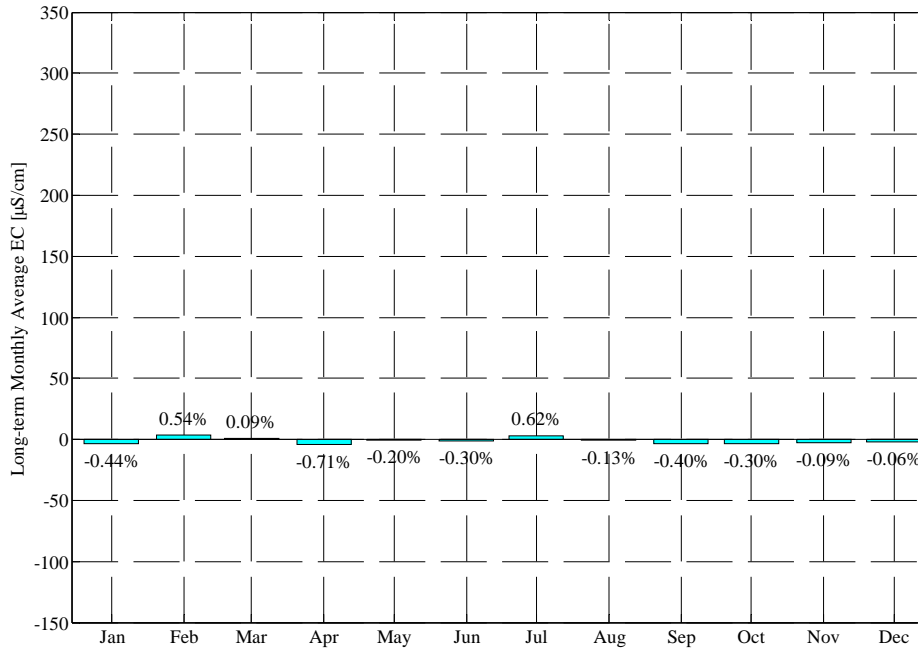
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1.5%	5.8%	6.0%	3.4%	0.9%	0.5%	-4.9%	-0.1%	-1.6%	-1.0%	-0.4%	-2.1%
1977	-4.4%	-4.1%	-3.2%	-3.5%	-0.3%	0.5%	-0.4%	0.0%	-1.8%	-0.3%	0.0%	-0.9%
1978	-0.9%	-0.1%	0.2%	1.5%	0.1%	0.2%	0.1%	-0.3%	-0.3%	-1.2%	3.8%	7.6%
1979	2.6%	1.0%	0.6%	-0.7%	-0.7%	-0.5%	-0.5%	-0.4%	-0.4%	-1.1%	-2.3%	-1.0%
1980	0.2%	2.2%	4.1%	0.0%	-0.1%	-0.1%	0.2%	-0.2%	0.0%	0.1%	0.1%	-0.6%
1981	-0.6%	-0.9%	-1.4%	-1.4%	-0.9%	-0.3%	-2.7%	-1.0%	-0.5%	-2.4%	-2.1%	-0.4%
1982	0.5%	1.2%	-0.1%	0.1%	-0.2%	-0.2%	0.0%	-0.3%	0.1%	0.2%	0.1%	0.0%
1983	-0.1%	0.0%	0.0%	0.0%	0.3%	0.0%	0.2%	0.1%	0.1%	0.1%	-0.1%	0.1%
1984	-0.1%	-0.1%	-0.1%	-0.2%	-0.4%	0.4%	-1.2%	0.1%	0.0%	-0.1%	0.2%	-0.1%
1985	0.1%	-0.2%	0.0%	0.7%	1.2%	1.0%	-0.8%	-1.4%	-1.4%	-2.6%	-1.8%	-1.0%
1986	0.1%	1.0%	0.5%	-0.6%	0.4%	0.0%	-1.0%	-0.4%	-0.2%	1.7%	-0.5%	-2.2%
1987	-1.5%	-0.6%	-0.2%	-0.4%	1.0%	1.0%	3.8%	-0.6%	0.6%	3.3%	-1.1%	-0.4%
1988	0.8%	1.1%	0.8%	0.0%	0.0%	-0.1%	-2.0%	0.2%	3.8%	9.5%	6.0%	2.2%
1989	1.2%	-0.8%	-1.7%	-2.7%	-3.4%	-0.9%	0.2%	0.3%	-3.0%	4.8%	-0.6%	1.2%
1990	2.9%	-1.7%	-2.8%	-3.1%	9.6%	-0.3%	-2.0%	1.0%	0.1%	-0.9%	-2.9%	-7.3%
1991	-7.2%	-5.2%	-3.6%	-0.2%	1.3%	0.2%	-0.2%	-0.2%	-0.2%	-0.2%	-0.7%	-1.6%
<b>Avg</b>	-0.3%	-0.1%	-0.1%	-0.4%	0.5%	0.1%	-0.7%	-0.2%	-0.3%	0.6%	-0.1%	-0.4%
<b>W/AN/BN</b>	0.3%	0.7%	0.7%	0.0%	-0.1%	0.0%	-0.3%	-0.2%	-0.1%	0.0%	0.2%	0.5%
<b>D/C</b>	-0.8%	-0.7%	-0.7%	-0.8%	1.0%	0.2%	-1.0%	-0.2%	-0.4%	1.1%	-0.4%	-1.1%

Jones Pumping Plant Salinity  
 Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions

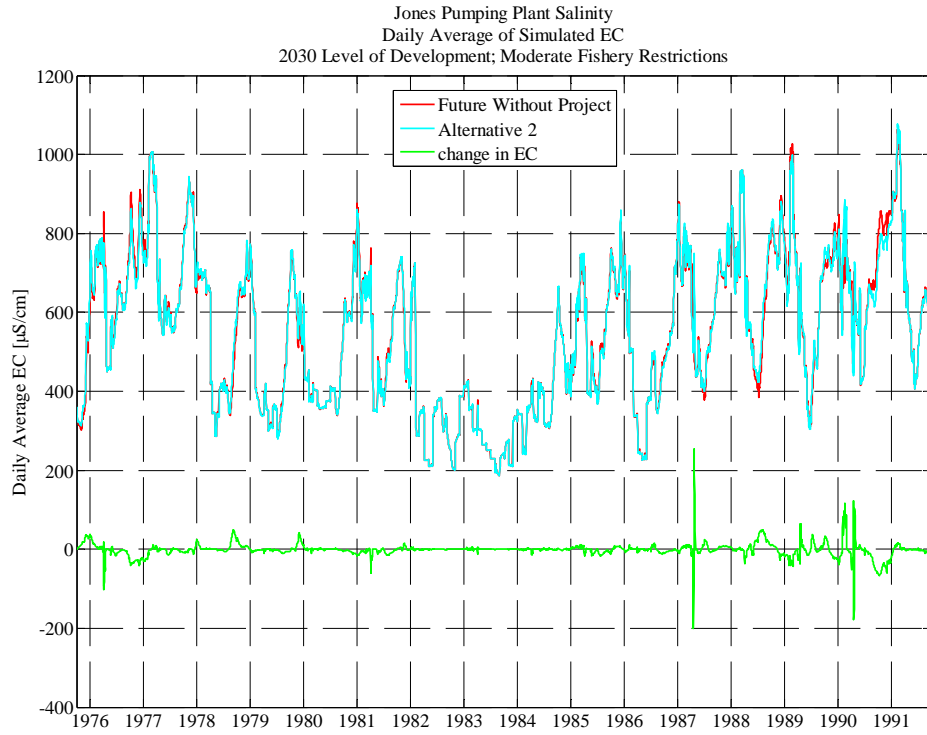


p\_lve\_wq\_eir.m  
 04-Nov-2008 DS

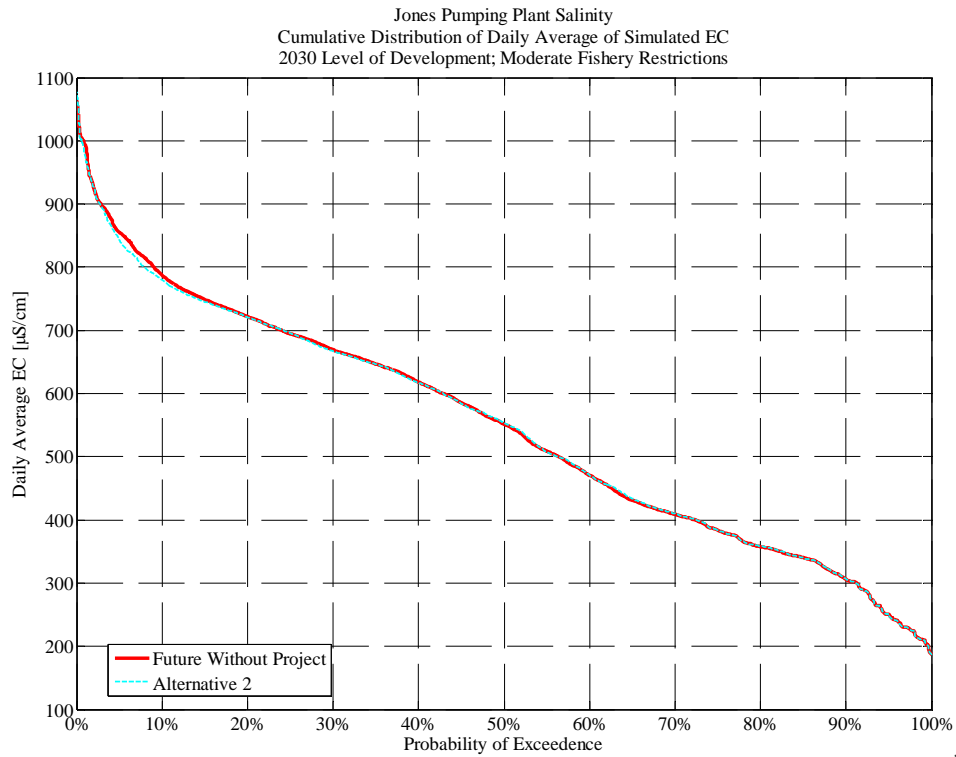
Jones Pumping Plant Salinity  
 Change from Future Without Project for Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions  
 Alternative 2



p\_lve\_wq\_eir.m  
 04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 3**

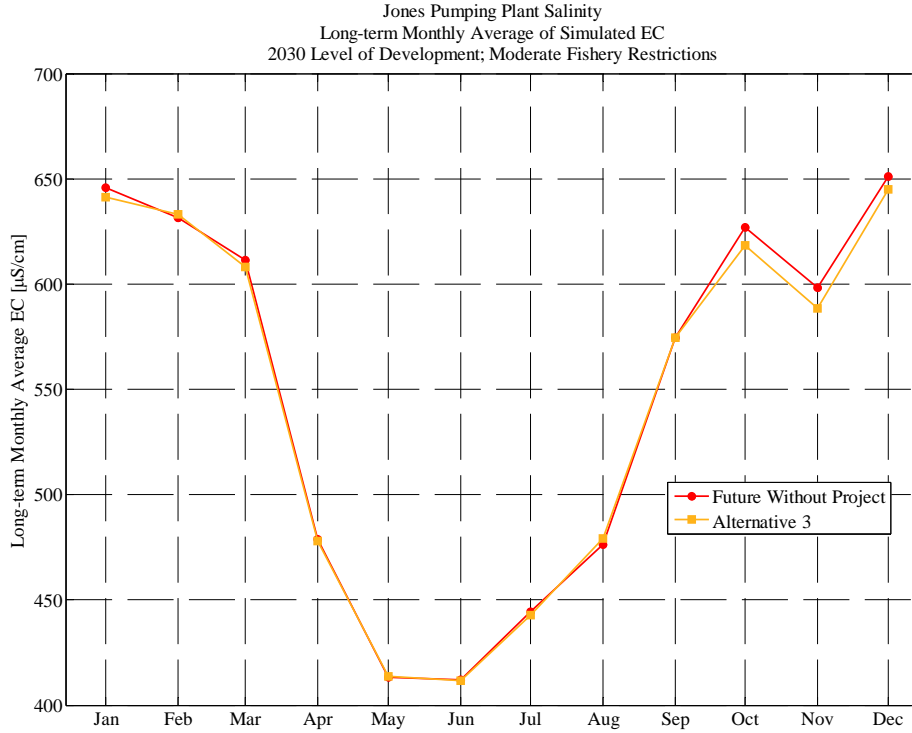
**Jones Pumping Plant Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 3**

**2030 Level of Development; Moderate Fishery Restrictions**

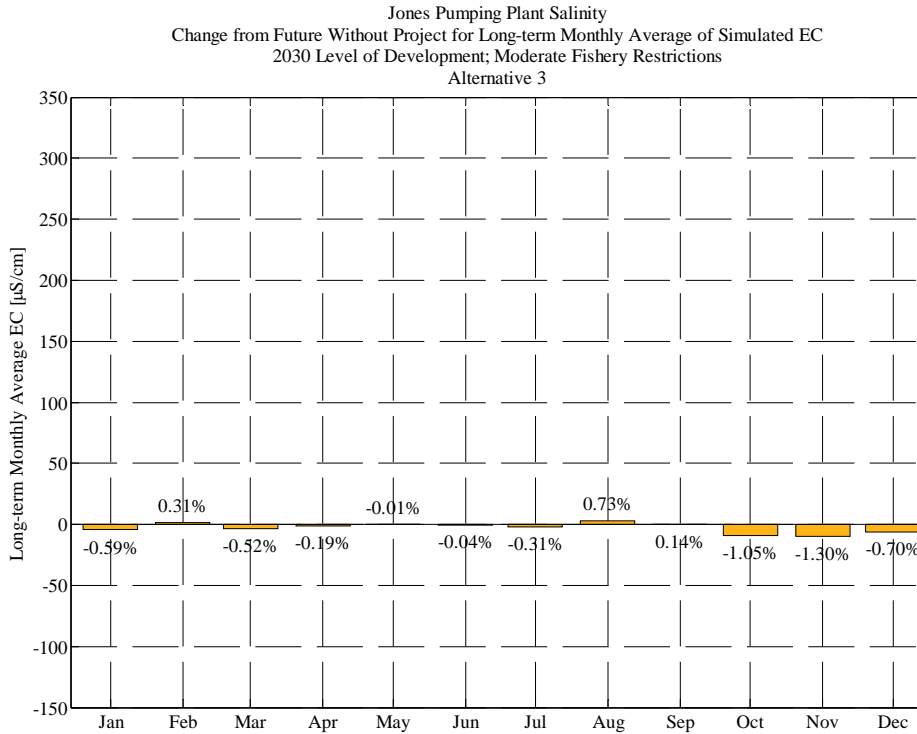
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	317	328	525	661	734	747	619	501	537	621	607	692
1977	769	674	797	739	961	941	654	580	601	627	610	666
1978	809	896	762	693	694	662	397	314	407	410	375	534
1979	668	662	716	670	405	344	377	311	356	315	439	609
1980	737	604	564	444	384	403	363	360	375	404	356	489
1981	608	603	757	727	665	666	512	402	407	430	535	641
1982	718	597	442	667	320	347	231	212	344	377	319	277
1983	212	279	383	415	359	305	307	265	252	230	197	235
1984	262	217	327	342	257	342	382	364	404	316	340	519
1985	608	492	436	464	606	710	532	439	419	439	528	654
1986	719	654	732	629	512	346	252	232	369	452	361	441
1987	497	545	708	778	786	724	559	472	429	435	559	645
1988	722	685	782	786	729	928	630	542	458	435	624	772
1989	795	728	819	681	928	747	589	508	350	470	545	696
1990	690	690	753	698	795	692	576	587	439	561	633	654
1991	761	761	814	866	994	825	665	528	439	559	640	671
<b>Avg</b>	618	589	645	641	633	608	478	414	412	443	479	575
<b>W/AN/BN</b>	589	558	561	551	419	393	330	294	358	358	341	443
<b>D/C</b>	641	612	710	711	800	776	593	506	453	509	587	677

**Percent (%) Change from Future Without Project for Jones Pumping Plant Salinity  
(Alternative 3 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

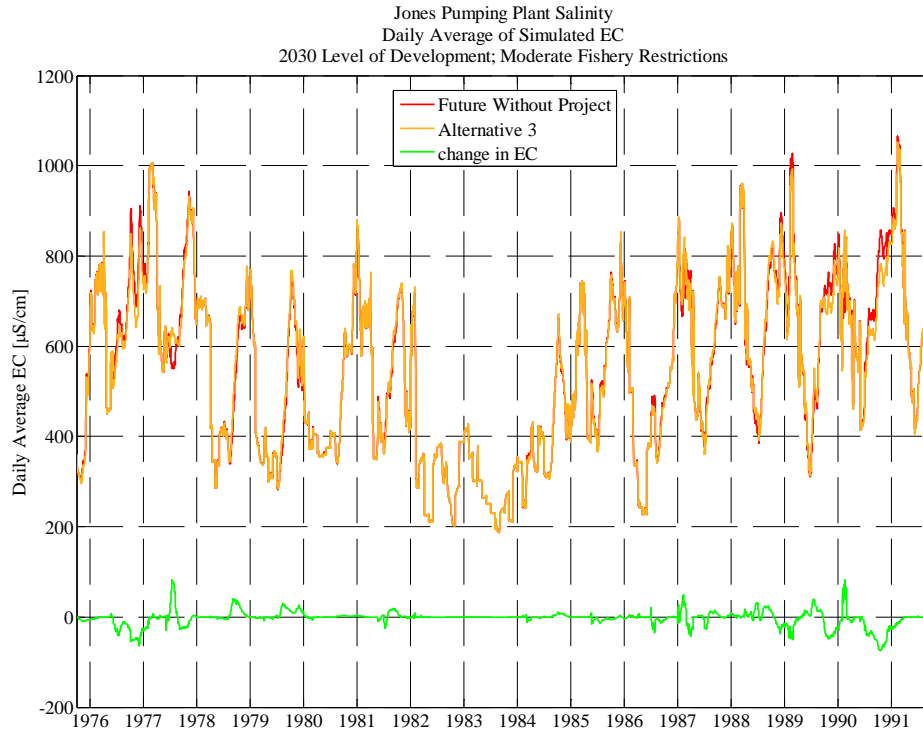
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.8%	-2.6%	-1.3%	-0.6%	-0.3%	-0.1%	0.0%	0.4%	-3.3%	-5.2%	-2.2%	-2.9%
1977	-6.2%	-6.9%	-4.5%	-3.3%	-0.3%	0.1%	-0.3%	0.1%	-0.7%	11.1%	1.6%	-3.6%
1978	-2.7%	-0.8%	0.3%	0.0%	0.0%	0.0%	0.0%	-0.3%	-0.4%	-1.1%	3.1%	7.1%
1979	4.2%	1.3%	0.2%	-0.1%	-0.4%	-0.5%	-0.3%	-0.3%	-0.1%	1.3%	6.2%	3.1%
1980	1.5%	2.8%	2.8%	0.4%	-0.6%	-0.2%	0.1%	-0.1%	-0.1%	0.0%	0.2%	0.4%
1981	0.4%	0.2%	0.3%	0.3%	0.1%	0.1%	0.0%	-0.7%	-0.2%	-2.5%	2.7%	2.5%
1982	0.5%	0.1%	-0.2%	0.1%	0.2%	0.0%	0.0%	-0.2%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	-2.1%	-0.1%	0.0%	-0.3%	-0.1%	0.0%	0.9%
1985	1.3%	1.2%	0.2%	0.0%	0.0%	0.0%	0.0%	-1.0%	-1.0%	-2.1%	-1.1%	-0.6%
1986	-0.6%	-0.2%	0.0%	-0.4%	0.2%	0.0%	0.5%	-0.2%	0.0%	-3.8%	-1.6%	-2.2%
1987	-0.7%	-0.1%	0.0%	1.0%	4.1%	-3.2%	-2.5%	0.2%	0.2%	-3.8%	1.9%	1.6%
1988	0.3%	-0.2%	0.5%	0.6%	0.2%	0.0%	1.1%	0.6%	4.7%	0.2%	3.2%	2.6%
1989	0.3%	-2.7%	-2.5%	-3.1%	-4.0%	-1.5%	-0.3%	1.5%	1.7%	6.8%	2.9%	0.4%
1990	-5.6%	-5.8%	-3.8%	-1.9%	7.1%	-0.5%	-1.0%	-0.1%	-1.2%	-5.6%	-5.3%	-7.1%
1991	-8.5%	-7.3%	-3.1%	-2.4%	-1.3%	-0.7%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-1.0%	-1.3%	-0.7%	-0.6%	0.3%	-0.5%	-0.2%	0.0%	0.0%	-0.3%	0.7%	0.1%
<b>W/AN/BN</b>	0.4%	0.5%	0.4%	0.0%	-0.1%	-0.4%	0.0%	-0.2%	-0.1%	-0.5%	1.1%	1.3%
<b>D/C</b>	-2.2%	-2.7%	-1.6%	-1.0%	0.6%	-0.6%	-0.4%	0.1%	0.0%	-0.1%	0.4%	-0.8%



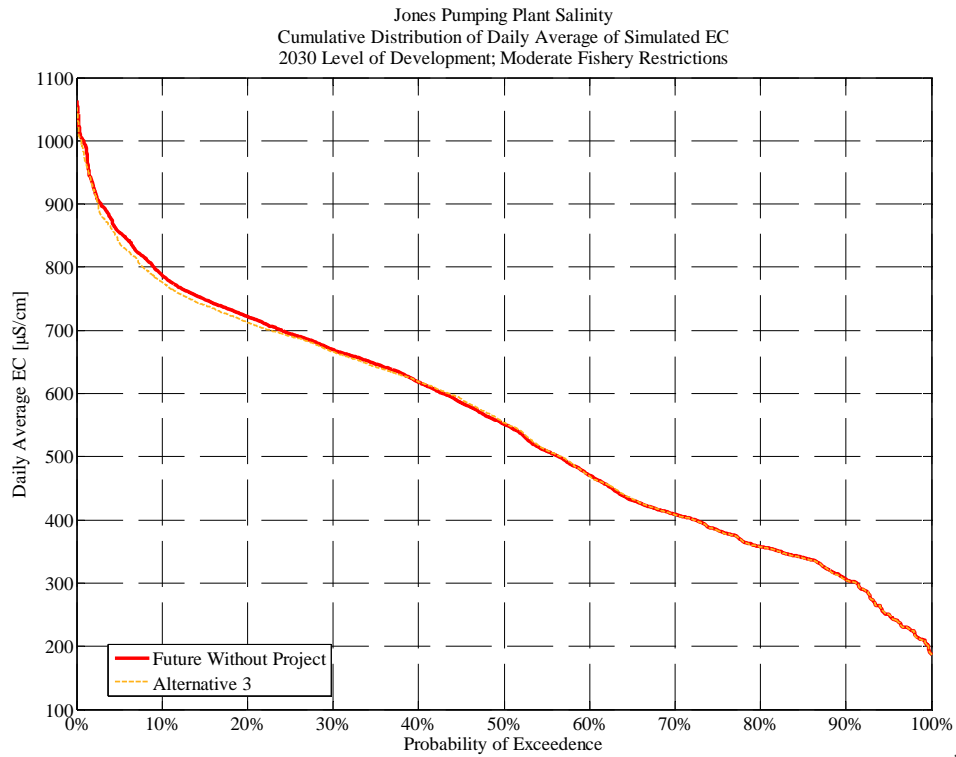
p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS



**Alternative 4**

**Jones Pumping Plant Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )**

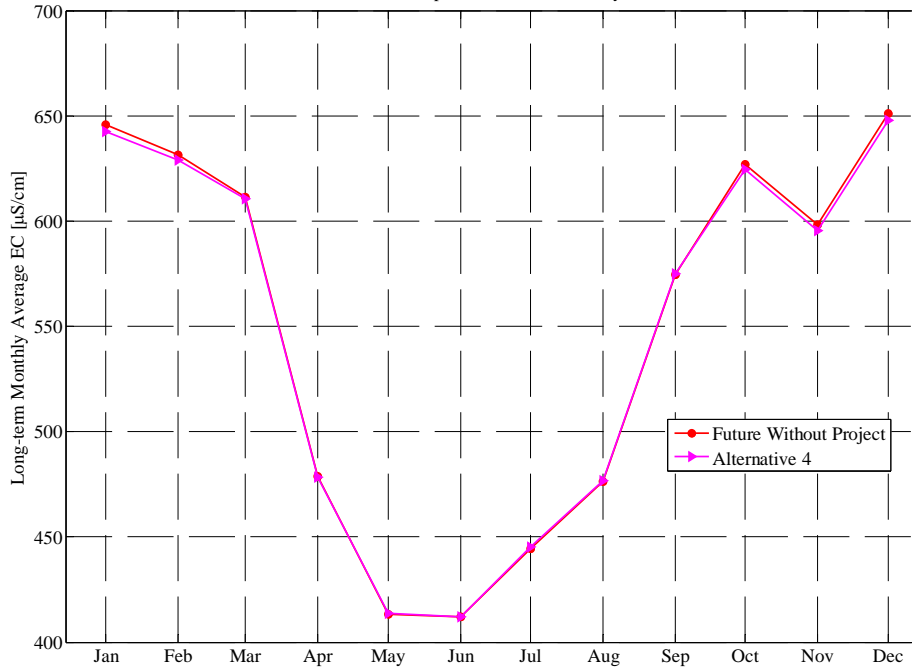
**Alternative 4****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	320	337	532	665	735	747	619	499	555	655	619	699
1977	779	691	804	735	961	937	651	579	603	570	600	683
1978	822	901	762	694	694	662	397	315	409	414	364	499
1979	641	654	716	670	407	346	378	313	356	311	419	606
1980	735	589	549	442	385	403	362	360	375	404	358	493
1981	610	604	755	725	665	666	512	405	408	442	521	626
1982	715	596	443	666	319	347	231	212	344	377	319	277
1983	212	279	383	415	359	305	307	265	252	230	197	235
1984	262	217	327	342	257	349	383	364	405	317	340	514
1985	600	486	435	464	606	710	532	443	423	450	535	658
1986	724	654	731	631	511	346	251	233	370	470	367	454
1987	504	547	708	770	755	748	574	471	428	453	548	635
1988	721	687	779	781	727	927	623	539	438	434	604	753
1989	793	738	821	682	931	748	589	504	347	441	529	691
1990	726	722	778	709	742	696	582	587	444	595	668	704
1991	832	820	841	887	1,007	830	665	528	439	559	640	671
<b>Avg</b>	625	595	648	642	629	610	479	414	412	445	477	575
<b>W/AN/BN</b>	587	556	559	551	419	394	330	295	359	360	338	440
<b>D/C</b>	654	626	717	713	792	779	594	506	454	511	585	680

**Percent (%) Change from Future Without Project for Jones Pumping Plant Salinity****(Alternative 4 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

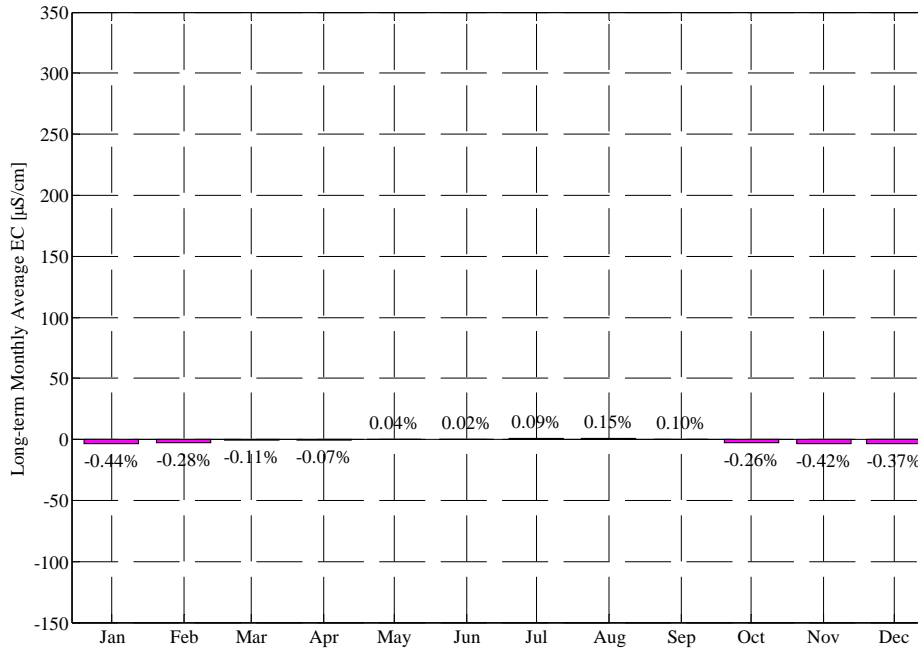
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-2.1%
1977	-5.0%	-4.6%	-3.7%	-3.8%	-0.3%	-0.4%	-0.8%	-0.2%	-0.3%	1.0%	0.0%	-1.1%
1978	-1.2%	-0.2%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.1%
1979	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	1.4%	2.6%
1980	1.2%	0.3%	0.1%	-0.1%	-0.4%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.7%	1.4%
1981	0.8%	0.3%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
1982	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.1%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.7%
1987	0.6%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1989	0.0%	-1.4%	-2.3%	-2.9%	-3.6%	-1.3%	-0.3%	0.8%	0.7%	0.0%	0.0%	-0.2%
1990	-0.6%	-1.5%	-0.6%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1991	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.3%	-0.4%	-0.4%	-0.4%	-0.3%	-0.1%	-0.1%	0.0%	0.0%	0.1%	0.1%	0.1%
<b>W/AN/BN</b>	0.0%	0.0%	0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.7%
<b>D/C</b>	-0.5%	-0.8%	-0.7%	-0.8%	-0.4%	-0.2%	-0.1%	0.1%	0.0%	0.1%	0.0%	-0.4%

Jones Pumping Plant Salinity  
 Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions

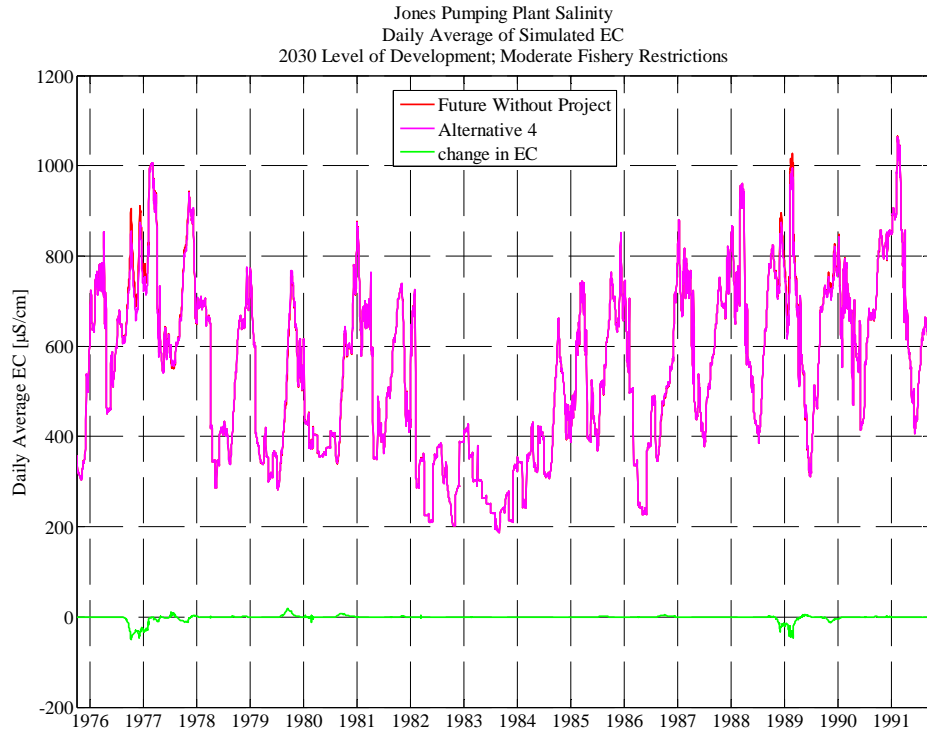


p\_lve\_wq\_eir.m  
 04-Nov-2008 DS

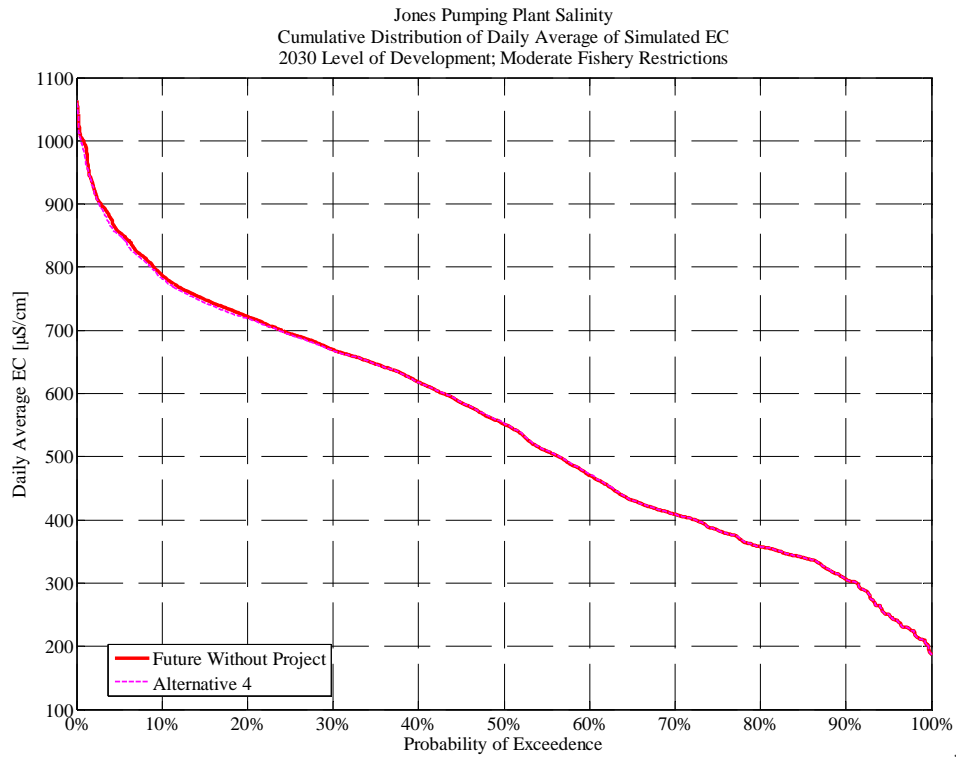
Jones Pumping Plant Salinity  
 Change from Future Without Project for Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions  
 Alternative 4



p\_lve\_wq\_eir.m  
 04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

## City of Stockton Intake

### *Future Without Project*

**City of Stockton Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )  
Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	274	287	333	431	452	387	399	406	380	438	395	462
1977	491	472	549	494	570	506	421	460	405	360	391	439
1978	527	558	445	463	579	561	394	304	361	301	252	343
1979	410	422	466	484	410	324	340	300	256	227	298	399
1980	443	384	322	363	340	369	342	331	343	342	255	322
1981	389	403	524	447	384	432	449	340	254	308	352	412
1982	455	404	226	407	290	317	229	204	300	341	260	238
1983	204	261	338	353	324	270	277	258	242	227	196	216
1984	263	218	287	316	256	307	345	309	263	233	257	359
1985	385	365	241	261	388	481	478	378	261	313	359	430
1986	458	443	481	376	385	303	246	227	327	303	252	307
1987	355	376	496	506	439	479	452	401	271	316	366	416
1988	458	453	532	529	378	393	395	383	285	305	415	484
1989	487	489	549	436	527	402	325	311	226	317	371	451
1990	457	476	520	392	356	346	298	342	307	419	448	457
1991	511	521	556	564	620	516	384	321	294	386	416	431
<b>Avg</b>	410	408	429	426	419	399	361	330	298	321	330	385
<b>W/AN/BN</b>	394	384	366	395	369	350	310	276	299	282	253	312
<b>D/C</b>	423	427	478	451	457	438	400	371	298	351	390	443

**Alternative 1**

**City of Stockton Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )  
Alternative 1**

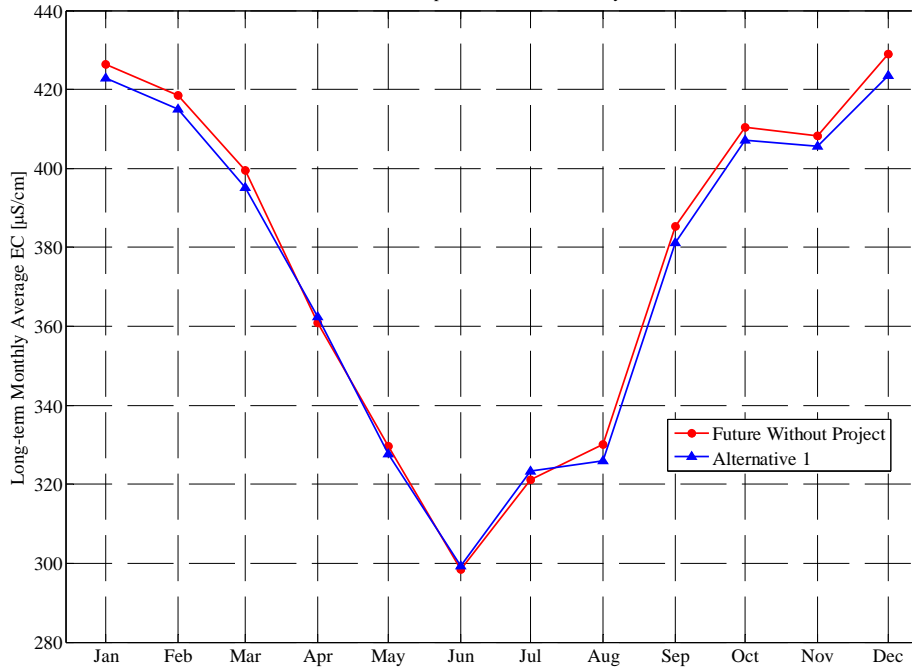
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	273	291	354	446	456	386	400	404	375	434	394	451
1977	471	456	520	471	555	513	437	472	414	401	377	414
1978	515	555	447	461	583	561	395	302	355	286	261	373
1979	417	424	468	482	413	323	339	297	254	224	292	397
1980	441	387	328	363	340	369	343	328	343	343	255	322
1981	389	402	512	440	362	418	447	335	254	301	346	411
1982	454	403	223	406	291	317	229	204	301	341	260	238
1983	204	261	338	353	324	270	277	258	243	227	196	216
1984	263	218	287	316	256	307	345	305	262	233	259	361
1985	386	365	240	263	391	481	481	371	259	306	355	429
1986	456	446	482	375	385	303	246	227	327	306	251	301
1987	353	376	493	501	437	480	457	387	274	319	361	415
1988	459	454	535	531	386	369	375	370	302	330	419	482
1989	486	482	530	417	503	393	336	303	221	331	371	461
1990	466	468	496	378	349	326	297	350	310	413	425	417
1991	482	503	523	563	609	507	395	331	295	379	393	410
<b>Avg</b>	407	406	424	423	415	395	362	328	299	323	326	381
<b>W/AN/BN</b>	393	385	368	394	370	350	311	275	298	280	253	315
<b>D/C</b>	418	422	467	445	450	430	403	369	301	357	382	432

**Percent (%) Change from Future Without Project for City of Stockton Intake Salinity  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

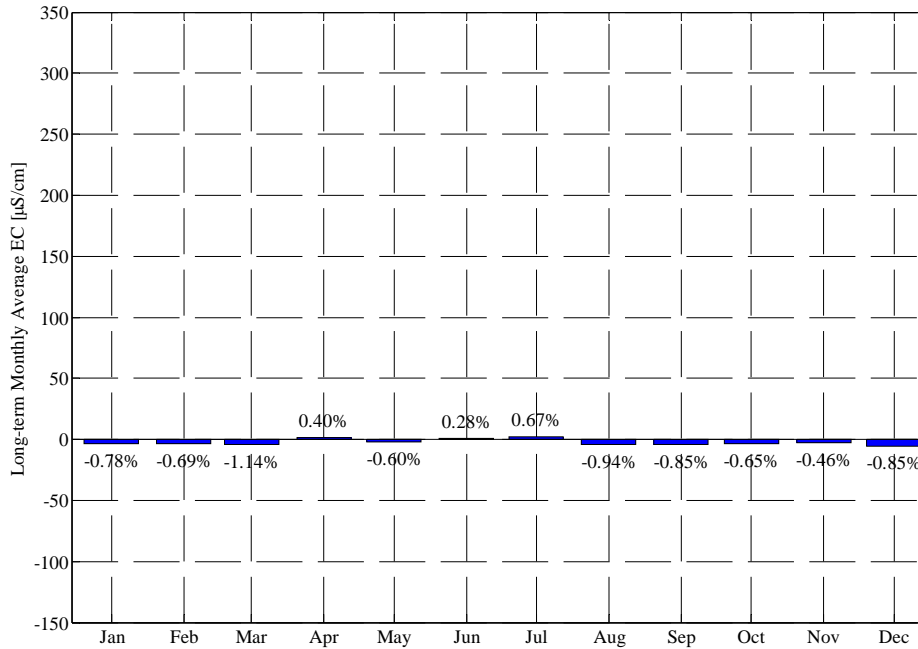
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.5%	1.5%	6.6%	3.7%	1.0%	-0.2%	0.1%	-0.5%	-1.3%	-1.0%	-0.2%	-2.5%
1977	-4.2%	-3.4%	-5.3%	-4.7%	-2.6%	1.3%	3.7%	2.5%	2.3%	11.3%	-3.5%	-5.7%
1978	-2.3%	-0.6%	0.5%	-0.4%	0.6%	0.0%	0.2%	-0.5%	-1.5%	-5.0%	3.7%	8.9%
1979	1.7%	0.6%	0.3%	-0.3%	0.6%	-0.3%	-0.1%	-0.9%	-1.0%	-1.3%	-1.9%	-0.4%
1980	-0.3%	0.7%	2.0%	-0.2%	0.0%	0.0%	0.2%	-0.9%	0.1%	0.1%	0.1%	-0.1%
1981	-0.2%	-0.3%	-2.2%	-1.7%	-5.5%	-3.1%	-0.5%	-1.5%	-0.2%	-2.2%	-1.7%	-0.4%
1982	-0.3%	-0.1%	-1.4%	-0.2%	0.5%	0.0%	0.0%	-0.1%	0.3%	0.1%	0.1%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.2%	-0.3%	0.1%	0.7%	0.7%
1985	0.2%	0.0%	-0.3%	0.7%	0.6%	0.0%	0.5%	-2.0%	-0.5%	-2.4%	-1.2%	-0.3%
1986	-0.3%	0.5%	0.3%	-0.3%	0.1%	-0.1%	0.1%	-0.1%	0.0%	0.8%	-0.4%	-1.9%
1987	-0.5%	-0.2%	-0.6%	-0.9%	-0.4%	0.2%	1.0%	-3.5%	1.2%	1.1%	-1.2%	-0.2%
1988	0.2%	0.3%	0.5%	0.3%	2.3%	-5.9%	-4.9%	-3.3%	5.9%	8.1%	1.1%	-0.3%
1989	-0.2%	-1.4%	-3.5%	-4.4%	-4.5%	-2.2%	3.4%	-2.8%	-2.2%	4.5%	-0.1%	2.2%
1990	2.0%	-1.7%	-4.6%	-3.8%	-1.9%	-6.0%	-0.3%	2.4%	1.1%	-1.6%	-5.0%	-8.7%
1991	-5.7%	-3.3%	-5.8%	-0.2%	-1.7%	-1.9%	2.9%	3.0%	0.6%	-1.8%	-5.5%	-5.0%
<b>Avg</b>	-0.7%	-0.5%	-0.8%	-0.8%	-0.7%	-1.1%	0.4%	-0.6%	0.3%	0.7%	-0.9%	-0.9%
<b>W/AN/BN</b>	-0.2%	0.2%	0.3%	-0.2%	0.2%	-0.1%	0.0%	-0.6%	-0.3%	-0.8%	0.3%	1.0%
<b>D/C</b>	-1.0%	-0.9%	-1.7%	-1.2%	-1.4%	-2.0%	0.7%	-0.6%	0.8%	1.8%	-1.9%	-2.3%

City of Stockton Intake Salinity  
 Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions

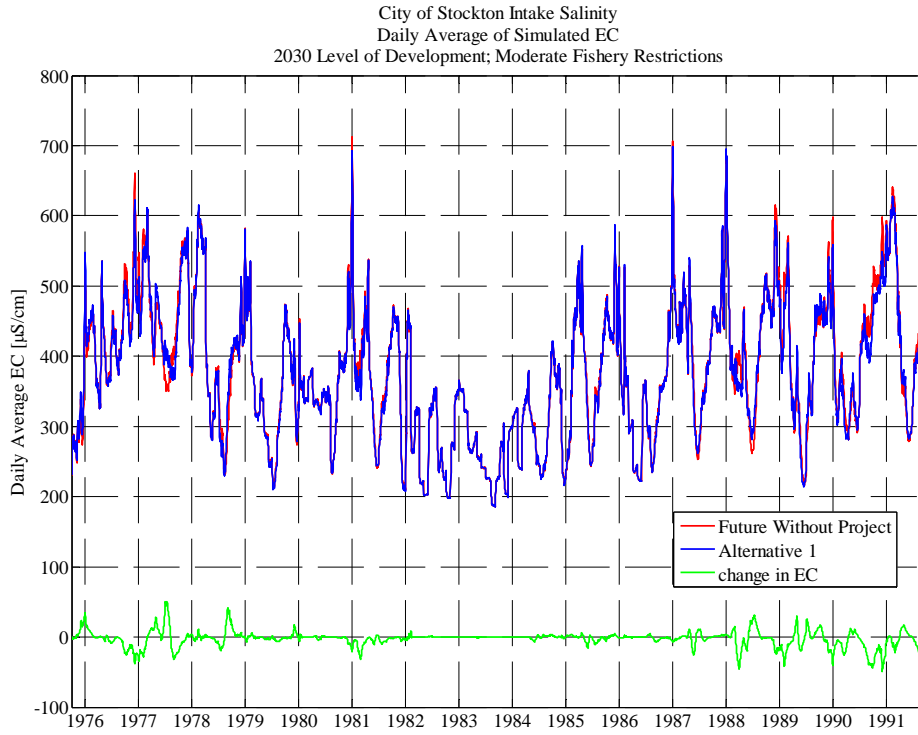


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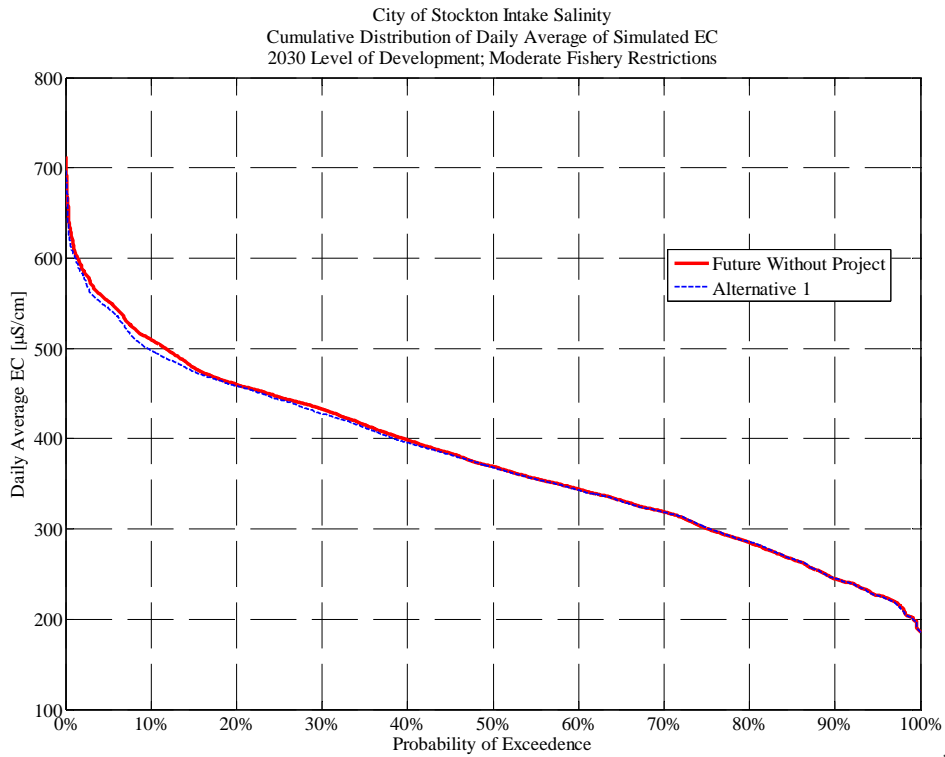
City of Stockton Intake Salinity  
 Change from Future Without Project for Long-term Monthly Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions  
 Alternative 1



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04-Nov-2008 DS



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**Alternative 2**

**City of Stockton Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Alternative 2**

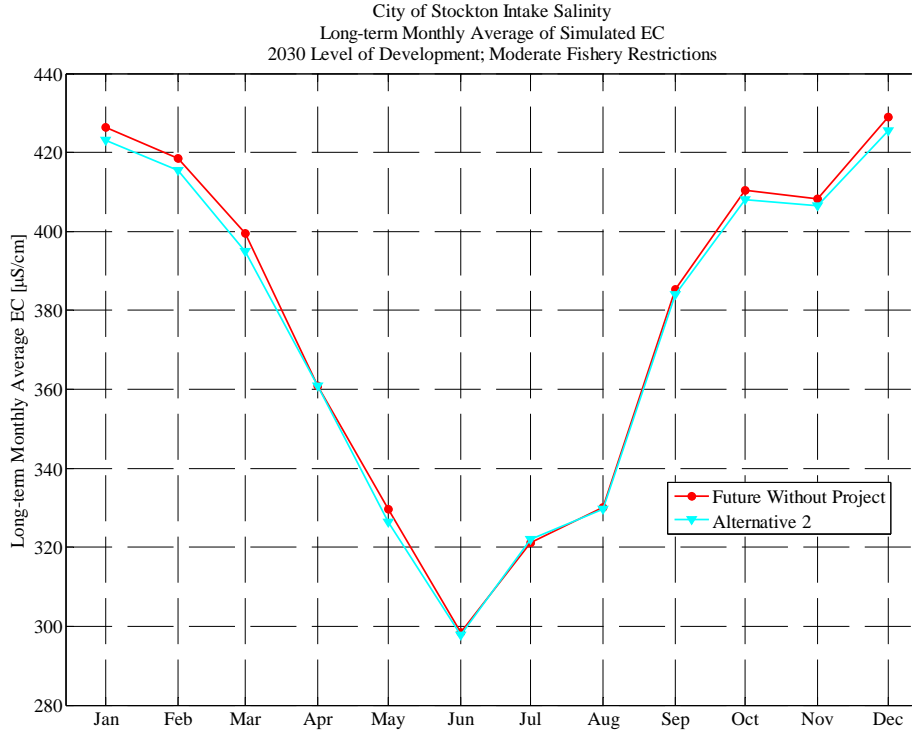
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	273	292	362	449	455	385	400	403	375	434	394	451
1977	471	456	520	470	555	513	434	465	396	359	390	436
1978	525	556	456	466	582	561	395	303	355	286	261	373
1979	417	425	468	478	412	323	339	297	254	224	292	397
1980	442	391	340	363	340	369	343	328	343	343	255	322
1981	389	402	512	439	360	417	446	335	254	301	346	411
1982	454	408	224	403	291	317	229	204	301	341	260	238
1983	204	261	338	353	324	269	277	258	243	227	196	216
1984	263	218	287	316	256	307	345	305	262	233	259	361
1985	386	366	240	262	386	478	481	371	259	306	355	429
1986	456	446	482	373	385	303	246	227	324	305	251	300
1987	353	376	493	505	438	478	456	387	275	325	363	416
1988	459	455	535	530	384	369	375	370	302	339	442	491
1989	488	483	530	417	503	393	336	303	221	331	371	460
1990	466	468	496	377	349	324	293	345	307	413	426	419
1991	481	503	526	567	628	513	380	320	294	387	411	426
<b>Avg</b>	408	406	426	423	415	395	361	326	298	322	330	384
<b>W/AN/BN</b>	395	386	371	393	370	350	311	275	297	280	254	315
<b>D/C</b>	418	422	468	446	451	430	400	367	298	355	389	438

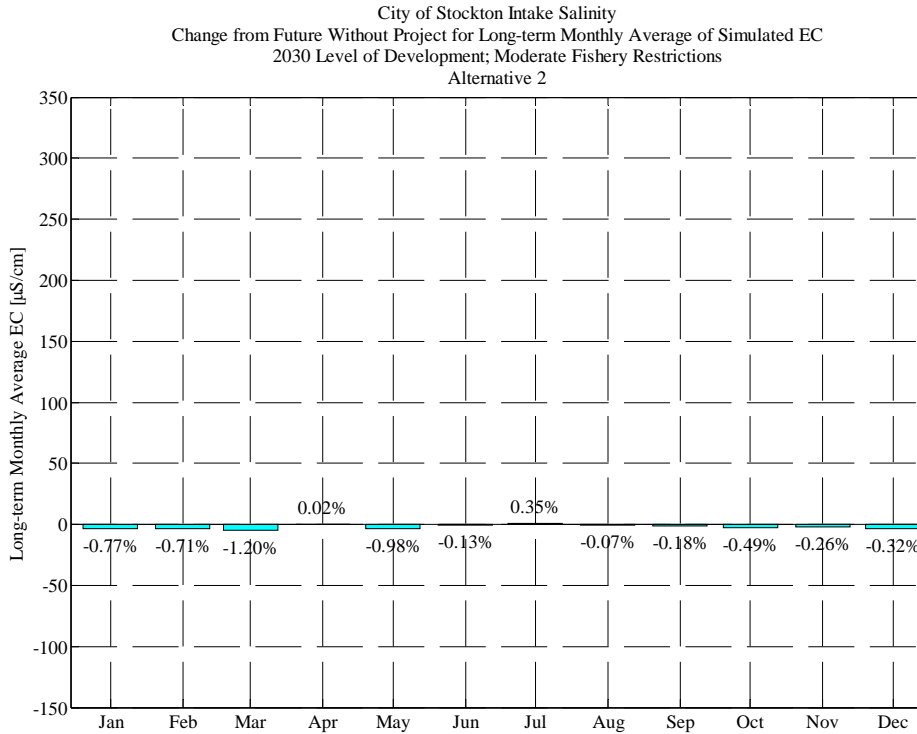
**Percent (%) Change from Future Without Project for City of Stockton Intake Salinity  
(Alternative 2 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.6%	1.9%	8.7%	4.4%	0.7%	-0.5%	0.0%	-0.5%	-1.3%	-1.0%	-0.2%	-2.4%
1977	-4.2%	-3.3%	-5.3%	-5.0%	-2.6%	1.4%	3.0%	1.1%	-2.3%	-0.4%	-0.1%	-0.6%
1978	-0.4%	-0.3%	2.5%	0.6%	0.5%	0.0%	0.2%	-0.4%	-1.5%	-5.0%	3.7%	8.9%
1979	1.7%	0.6%	0.4%	-1.2%	0.3%	-0.3%	-0.1%	-0.9%	-1.1%	-1.3%	-1.8%	-0.4%
1980	-0.3%	1.9%	5.7%	-0.2%	0.0%	0.0%	0.2%	-0.8%	0.2%	0.1%	0.1%	-0.1%
1981	-0.2%	-0.3%	-2.2%	-2.0%	-6.3%	-3.3%	-0.6%	-1.5%	-0.2%	-2.2%	-1.7%	-0.4%
1982	-0.3%	1.2%	-1.1%	-1.0%	0.4%	0.0%	0.0%	-0.1%	0.3%	0.1%	0.1%	0.0%
1983	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	-0.2%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.2%	-0.3%	0.1%	0.7%	0.7%
1985	0.2%	0.1%	-0.5%	0.5%	-0.7%	-0.6%	0.5%	-2.1%	-0.5%	-2.4%	-1.2%	-0.3%
1986	-0.3%	0.5%	0.3%	-0.9%	0.0%	-0.1%	0.0%	-0.3%	-0.9%	0.6%	-0.4%	-2.1%
1987	-0.5%	-0.2%	-0.6%	-0.2%	-0.2%	-0.2%	0.9%	-3.4%	1.4%	3.0%	-0.8%	0.0%
1988	0.3%	0.4%	0.6%	0.2%	1.6%	-6.0%	-4.9%	-3.3%	5.9%	11.1%	6.5%	1.4%
1989	0.2%	-1.3%	-3.5%	-4.4%	-4.5%	-2.2%	3.4%	-2.8%	-2.2%	4.5%	-0.1%	2.1%
1990	2.1%	-1.7%	-4.6%	-3.9%	-2.0%	-6.6%	-1.6%	1.0%	0.2%	-1.6%	-5.0%	-8.3%
1991	-5.7%	-3.5%	-5.4%	0.6%	1.3%	-0.7%	-1.0%	-0.3%	0.2%	0.1%	-1.0%	-1.3%
<b>Avg</b>	-0.5%	-0.3%	-0.3%	-0.8%	-0.7%	-1.2%	0.0%	-1.0%	-0.1%	0.4%	-0.1%	-0.2%
<b>W/AN/BN</b>	0.1%	0.6%	1.1%	-0.4%	0.2%	-0.1%	0.1%	-0.6%	-0.5%	-0.8%	0.3%	1.0%
<b>D/C</b>	-0.9%	-0.9%	-1.4%	-1.1%	-1.4%	-2.1%	0.0%	-1.3%	0.1%	1.2%	-0.4%	-1.1%

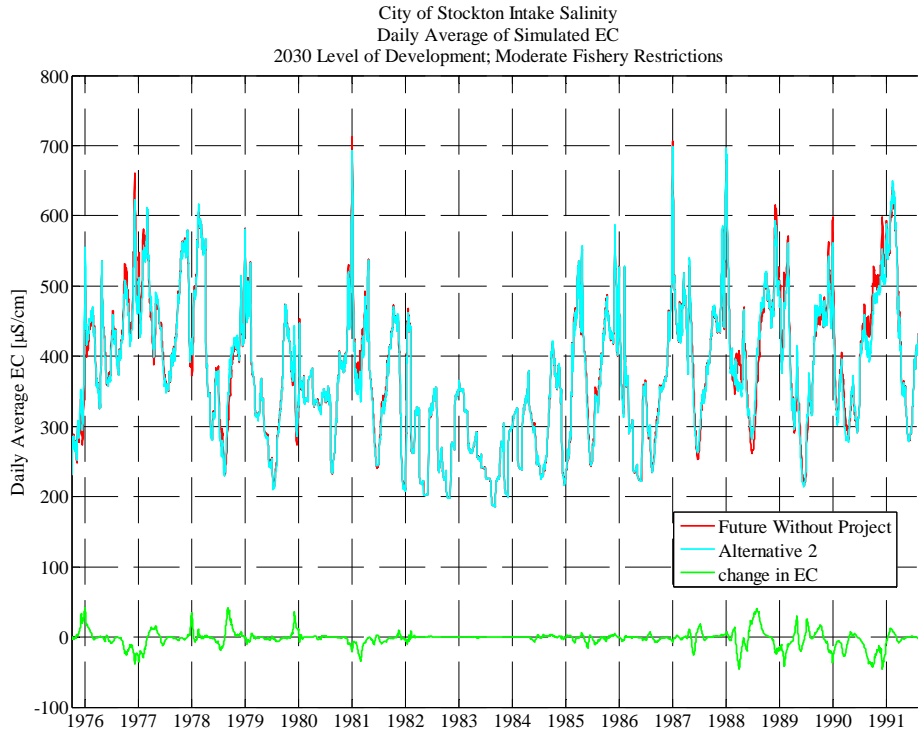




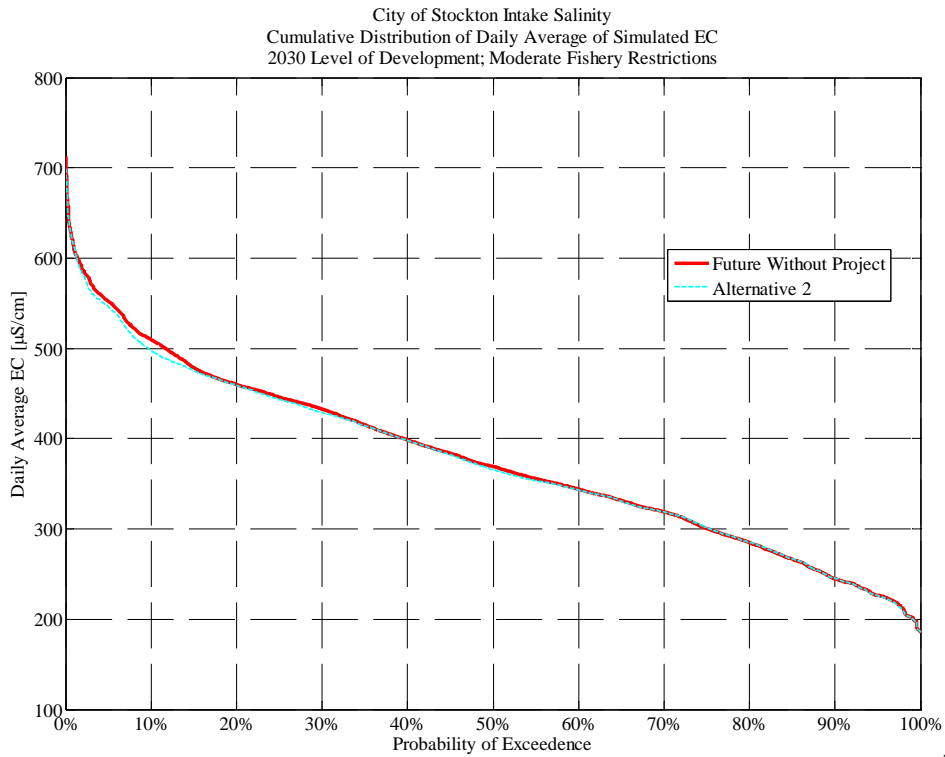
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04-Nov-2008 DS



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04-Nov-2008 DS



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05-Nov-2008 DS

**Alternative 3**

**City of Stockton Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)**

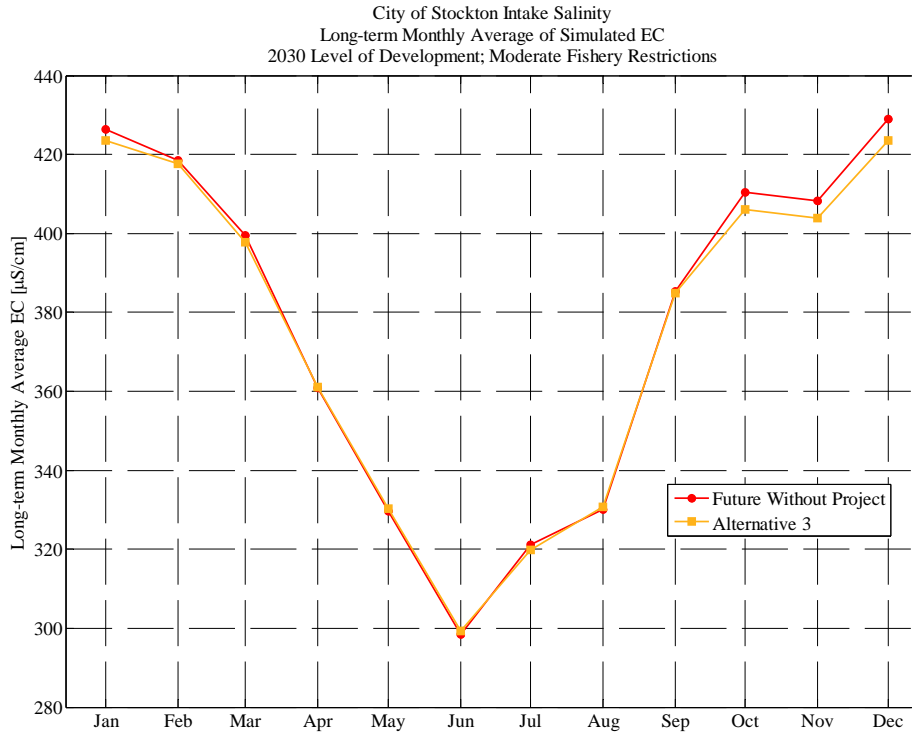
**Alternative 3****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	273	283	327	427	450	387	399	412	365	413	386	446
1977	465	448	515	473	559	516	435	473	418	409	380	421
1978	519	557	446	463	579	561	394	303	356	290	260	371
1979	423	425	467	484	410	323	340	298	262	230	312	412
1980	447	392	334	365	339	369	342	330	343	344	257	324
1981	391	404	526	451	385	434	450	336	256	303	362	421
1982	457	404	225	410	290	317	229	204	301	341	260	238
1983	204	261	338	353	324	270	277	258	243	227	196	215
1984	263	218	287	316	256	298	342	307	264	233	256	363
1985	389	368	242	261	388	481	478	374	259	307	355	427
1986	455	443	480	373	385	303	245	227	327	297	248	298
1987	353	376	495	527	467	446	426	400	270	305	374	421
1988	459	452	537	534	394	424	412	375	299	306	431	495
1989	486	477	529	416	500	397	334	329	229	337	381	450
1990	433	455	496	382	350	327	291	340	303	390	418	422
1991	478	498	532	541	604	512	383	320	294	386	416	431
<b>Avg</b>	406	404	423	423	418	398	361	330	299	320	331	385
<b>W/AN/BN</b>	395	386	368	395	369	349	310	275	300	280	255	318
<b>D/C</b>	414	418	466	446	455	436	401	373	299	351	389	437

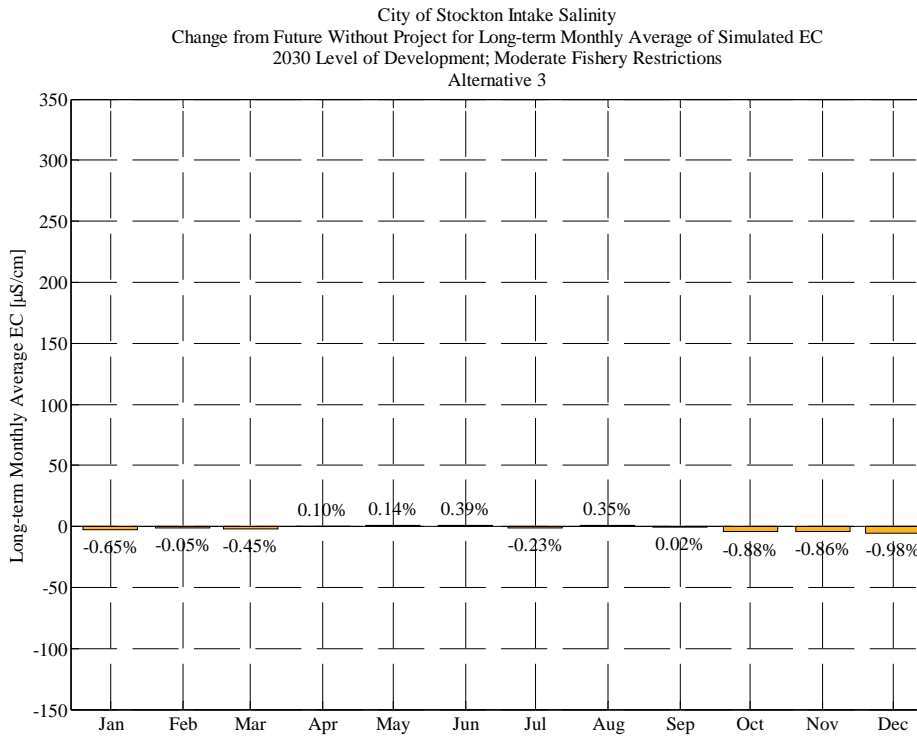
**Percent (%) Change from Future Without Project for City of Stockton Intake Salinity  
(Alternative 3 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

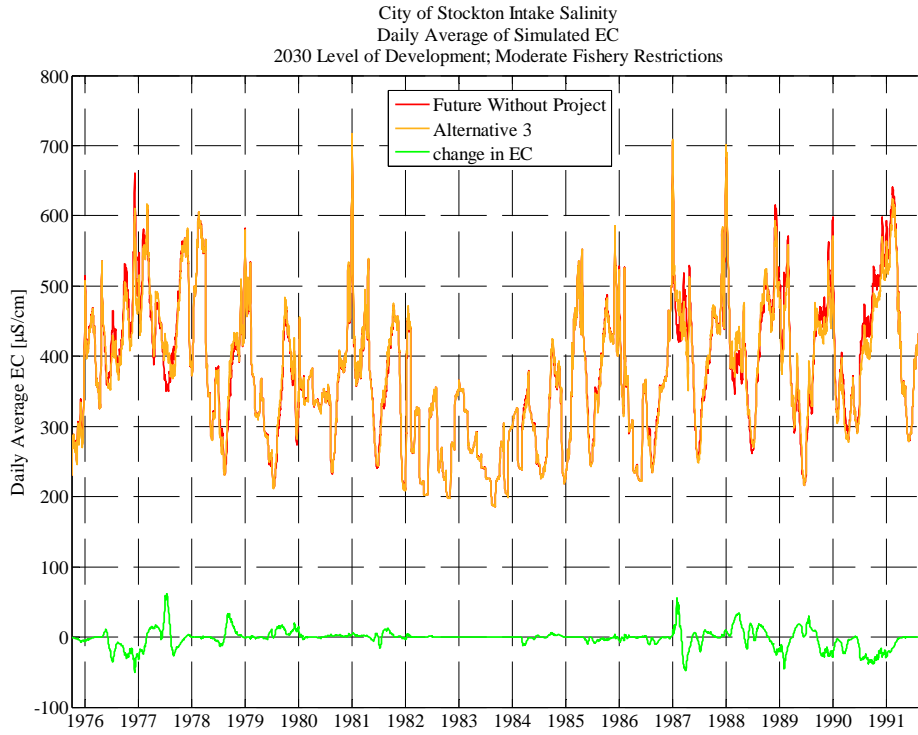
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.4%	-1.1%	-1.8%	-0.9%	-0.4%	-0.1%	0.0%	1.7%	-4.0%	-5.8%	-2.2%	-3.5%
1977	-5.3%	-5.0%	-6.1%	-4.2%	-1.9%	2.1%	3.3%	2.7%	3.2%	13.4%	-2.8%	-4.0%
1978	-1.6%	-0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	-0.4%	-1.2%	-3.7%	3.2%	8.2%
1979	3.1%	0.8%	0.1%	0.0%	0.0%	-0.3%	0.0%	-0.7%	2.1%	1.5%	4.6%	3.5%
1980	1.0%	2.2%	3.9%	0.5%	-0.3%	0.0%	0.1%	-0.3%	0.0%	0.4%	0.7%	0.7%
1981	0.5%	0.2%	0.5%	0.7%	0.4%	0.5%	0.3%	-1.1%	0.9%	-1.8%	2.9%	2.0%
1982	0.3%	0.2%	-0.8%	0.6%	0.1%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	-2.8%	-0.9%	-0.6%	0.5%	0.0%	-0.3%	1.1%
1985	0.8%	0.8%	0.2%	0.0%	0.0%	0.0%	0.0%	-1.2%	-0.7%	-2.1%	-1.1%	-0.7%
1986	-0.7%	-0.2%	-0.2%	-0.8%	-0.1%	0.1%	-0.1%	-0.2%	0.2%	-2.0%	-1.6%	-2.7%
1987	-0.4%	-0.1%	-0.1%	4.1%	6.3%	-6.8%	-5.7%	-0.2%	-0.3%	-3.3%	2.2%	1.3%
1988	0.2%	-0.2%	0.9%	0.9%	4.3%	7.9%	4.4%	-2.3%	5.0%	0.3%	3.8%	2.4%
1989	-0.1%	-2.4%	-3.7%	-4.8%	-5.0%	-1.2%	2.9%	5.6%	1.4%	6.4%	2.7%	-0.2%
1990	-5.2%	-4.4%	-4.7%	-2.6%	-1.5%	-5.6%	-2.4%	-0.5%	-1.2%	-7.0%	-6.6%	-7.7%
1991	-6.3%	-4.3%	-4.3%	-4.0%	-2.5%	-0.9%	-0.2%	-0.1%	0.1%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.9%	-0.9%	-1.0%	-0.6%	0.0%	-0.4%	0.1%	0.1%	0.4%	-0.2%	0.3%	0.0%
<b>W/AN/BN</b>	0.3%	0.4%	0.5%	0.0%	0.0%	-0.4%	-0.1%	-0.3%	0.3%	-0.5%	1.0%	1.5%
<b>D/C</b>	-1.8%	-1.8%	-2.1%	-1.2%	0.0%	-0.5%	0.3%	0.5%	0.5%	0.0%	-0.1%	-1.2%



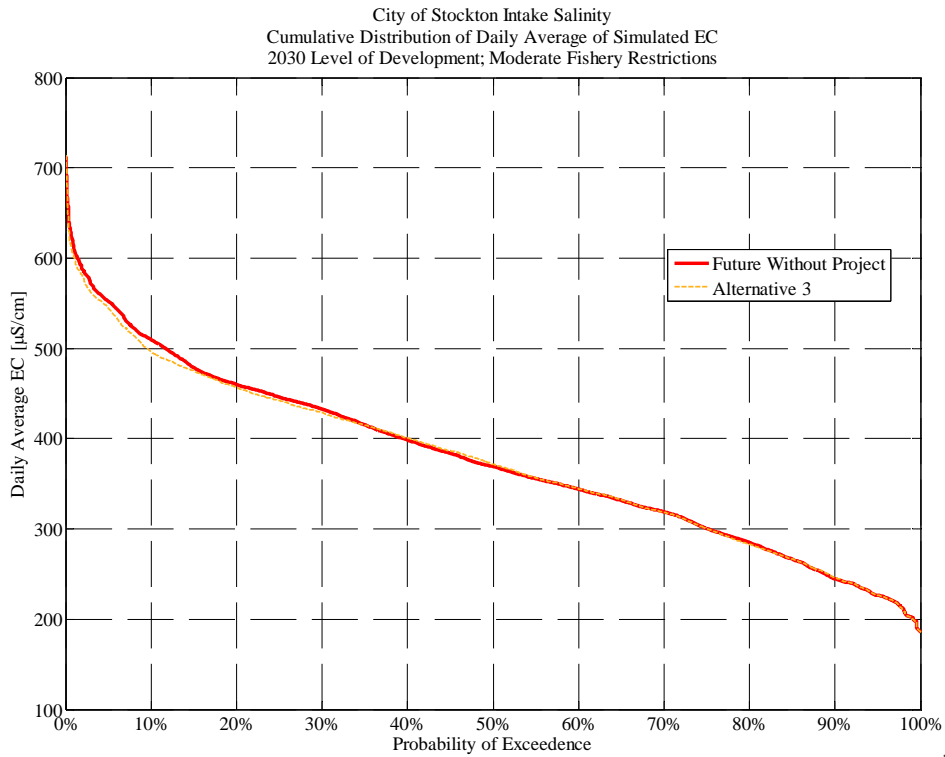
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04-Nov-2008 DS



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04-Nov-2008 DS



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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 4**

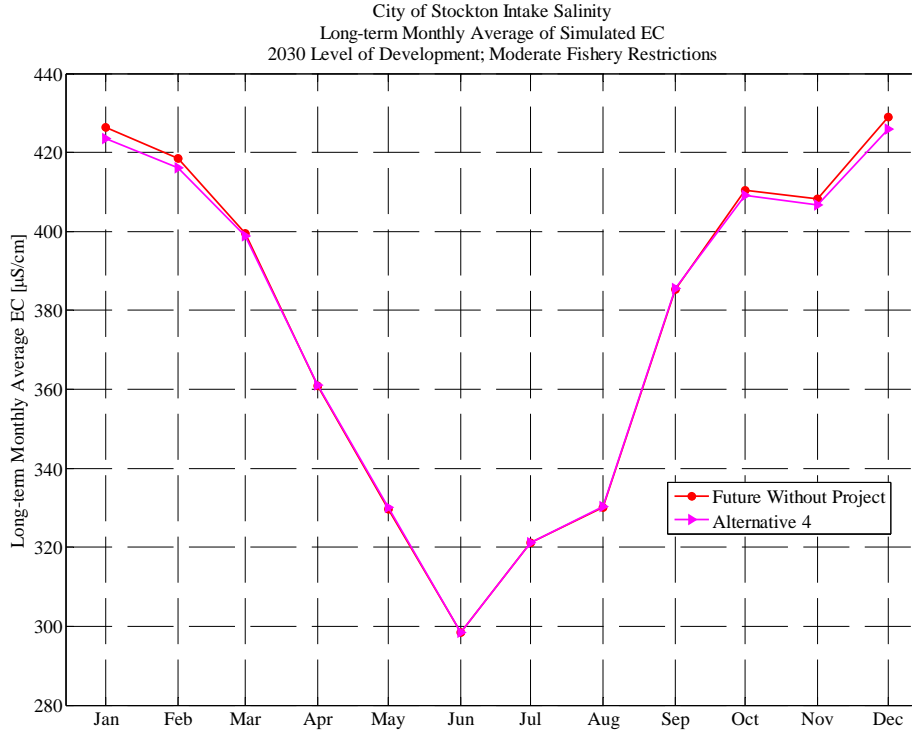
**City of Stockton Intake Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 4**

**2030 Level of Development; Moderate Fishery Restrictions**

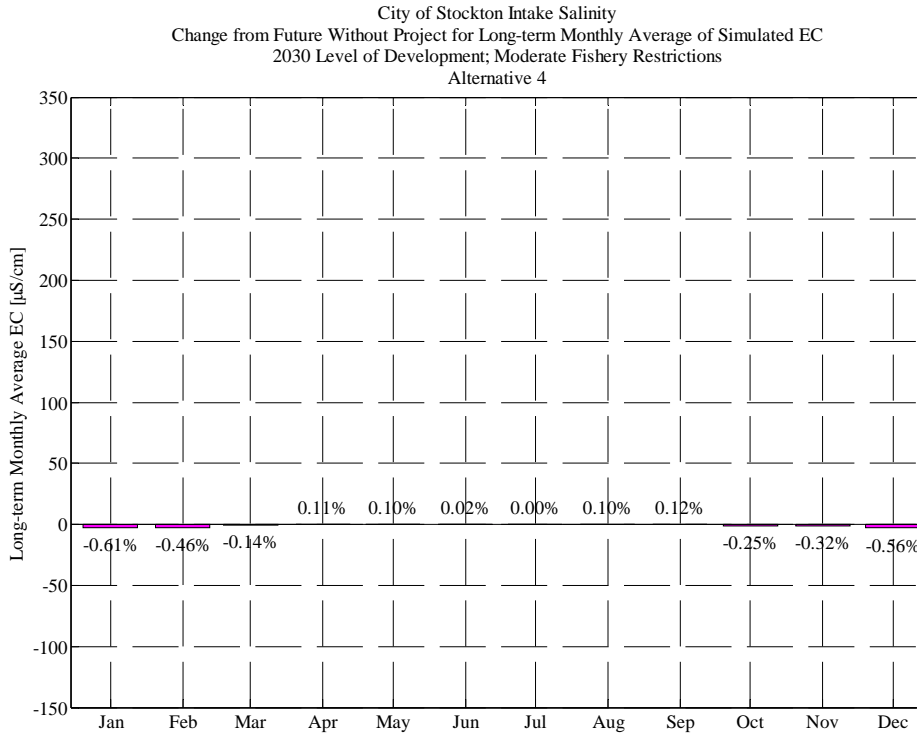
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	274	286	332	431	452	387	399	406	380	439	394	450
1977	471	456	520	469	553	499	415	457	405	362	388	433
1978	524	559	447	464	579	561	394	304	361	300	252	343
1979	410	422	467	484	410	324	340	300	256	227	301	411
1980	446	385	322	363	339	368	342	331	342	341	258	328
1981	392	404	524	449	385	434	450	340	255	308	352	411
1982	454	404	226	406	291	317	229	204	300	341	260	238
1983	204	261	338	353	324	270	277	258	242	227	196	216
1984	263	218	287	316	256	307	345	309	263	233	257	359
1985	385	365	241	261	388	481	478	378	261	314	360	430
1986	458	443	480	376	385	303	246	227	327	303	252	309
1987	356	377	496	506	439	479	452	401	271	316	366	416
1988	458	453	532	529	378	393	395	383	285	305	415	484
1989	487	483	530	417	502	397	334	319	227	317	371	451
1990	454	471	516	390	356	346	298	342	307	419	448	457
1991	511	521	556	563	619	516	384	321	294	386	416	431
<b>Avg</b>	409	407	426	424	416	399	361	330	298	321	330	386
<b>W/AN/BN</b>	394	385	367	395	369	350	310	276	299	282	254	315
<b>D/C</b>	421	424	472	446	452	437	401	372	298	352	390	441

**Percent (%) Change from Future Without Project for City of Stockton Intake Salinity  
(Alternative 4 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-2.5%
1977	-4.2%	-3.3%	-5.3%	-5.0%	-3.0%	-1.4%	-1.4%	-0.6%	-0.1%	0.4%	-0.7%	-1.3%
1978	-0.5%	0.1%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%	0.1%
1979	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	1.2%	3.0%
1980	0.8%	0.2%	0.1%	0.0%	-0.4%	-0.1%	0.1%	0.1%	-0.1%	-0.5%	1.1%	1.9%
1981	0.6%	0.3%	0.1%	0.3%	0.3%	0.5%	0.3%	-0.2%	0.2%	0.1%	-0.1%	-0.3%
1982	-0.3%	0.0%	-0.1%	-0.2%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.1%
1986	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.9%
1987	0.3%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1989	0.0%	-1.3%	-3.5%	-4.4%	-4.6%	-1.2%	2.9%	2.4%	0.4%	0.0%	0.0%	0.0%
1990	-0.6%	-1.1%	-0.8%	-0.5%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1991	0.0%	0.0%	0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.2%	-0.3%	-0.6%	-0.6%	-0.5%	-0.1%	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%
<b>W/AN/BN</b>	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.3%	0.8%
<b>D/C</b>	-0.4%	-0.6%	-1.0%	-1.1%	-0.8%	-0.2%	0.2%	0.2%	0.1%	0.1%	-0.1%	-0.4%

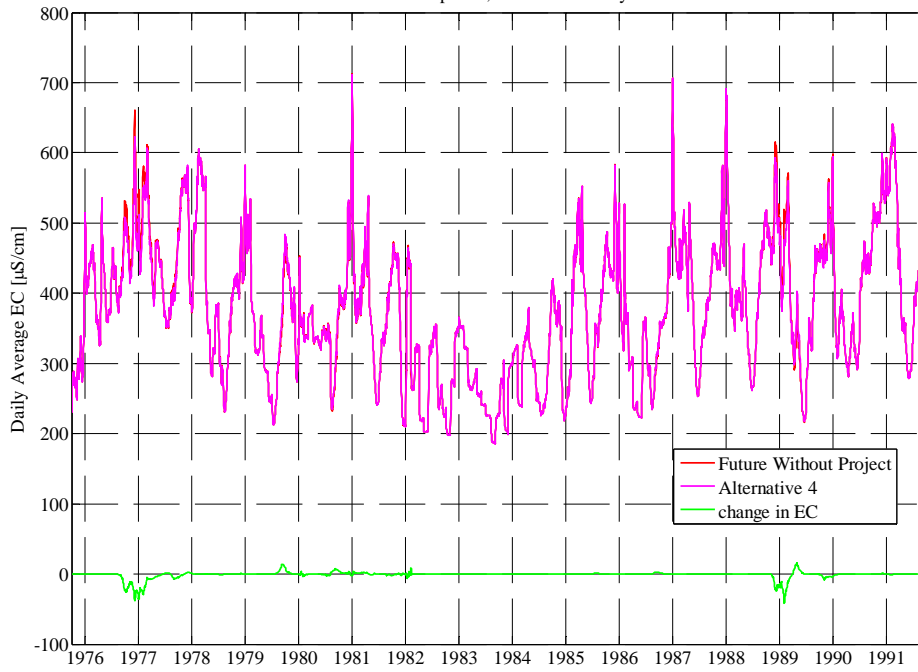


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04-Nov-2008 DS



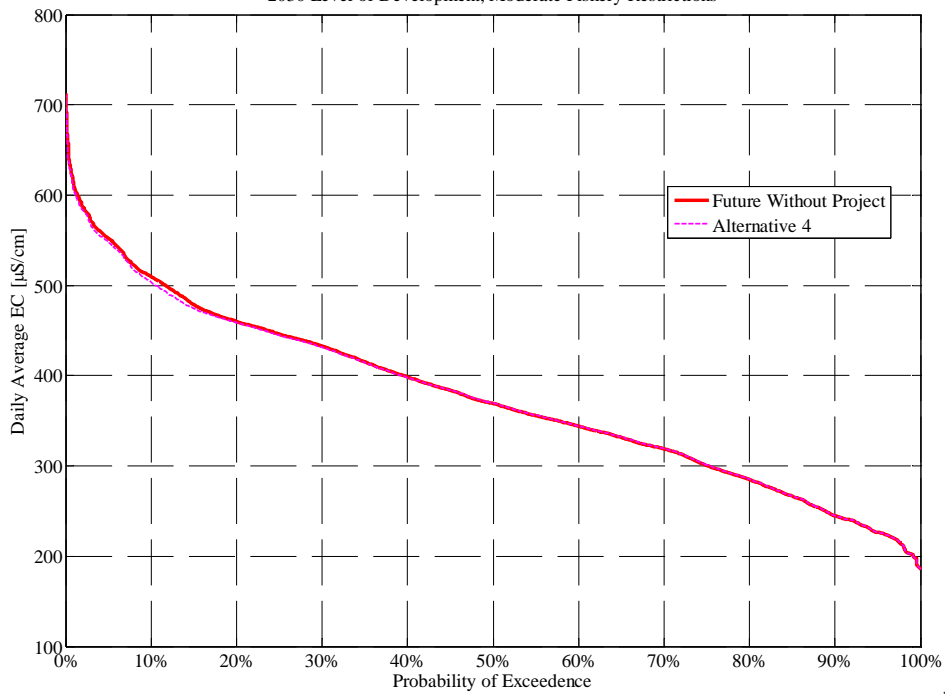
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04-Nov-2008 DS

City of Stockton Intake Salinity  
 Daily Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions



p\_lve\_wq\_eir.m  
 04-Nov-2008 DS

City of Stockton Intake Salinity  
 Cumulative Distribution of Daily Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions



p\_lve\_wq\_eir.m  
 05-Nov-2008 DS



## San Joaquin River at Antioch

### *Future Without Project*

**San Joaquin River at Antioch Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1,443	2,002	2,805	2,796	1,497	442	545	1,930	4,065	4,601	4,652	6,139
1977	5,785	5,938	4,697	4,087	1,515	1,040	1,905	2,675	3,324	3,535	4,528	5,560
1978	5,810	5,295	2,942	420	253	261	262	248	280	765	2,527	4,595
1979	5,342	5,541	4,531	1,099	275	236	233	269	390	1,512	3,194	5,320
1980	5,470	3,854	1,717	302	277	271	252	252	282	625	2,309	4,510
1981	5,088	5,084	5,082	1,156	238	205	244	482	1,622	2,825	3,398	4,664
1982	5,468	1,547	216	239	227	239	216	198	202	442	2,270	781
1983	205	199	238	308	299	260	239	225	218	213	217	202
1984	307	201	230	244	223	202	226	314	695	1,107	2,368	4,810
1985	4,771	1,332	343	711	438	247	317	494	1,657	2,597	3,274	5,142
1986	5,143	4,970	3,366	882	260	269	248	243	334	728	2,379	3,797
1987	4,182	4,722	5,223	2,586	614	233	343	952	1,942	2,853	3,694	4,798
1988	5,365	5,181	4,370	1,105	412	752	900	1,423	1,949	3,448	4,851	5,641
1989	5,219	5,607	4,304	3,136	2,244	405	201	237	1,267	2,358	3,274	4,911
1990	5,569	5,323	4,716	1,361	532	721	822	1,426	3,131	4,570	4,854	5,576
1991	5,758	5,744	4,990	4,587	4,123	920	337	1,257	3,023	4,146	4,361	5,419
<b>Avg</b>	4,433	3,909	3,111	1,564	839	419	456	789	1,524	2,270	3,259	4,492
<b>W/AN/BN</b>	3,964	3,087	1,891	499	259	248	240	250	343	770	2,181	3,431
<b>D/C</b>	4,798	4,548	4,059	2,392	1,290	552	624	1,208	2,442	3,437	4,098	5,317

**Alternative 1**

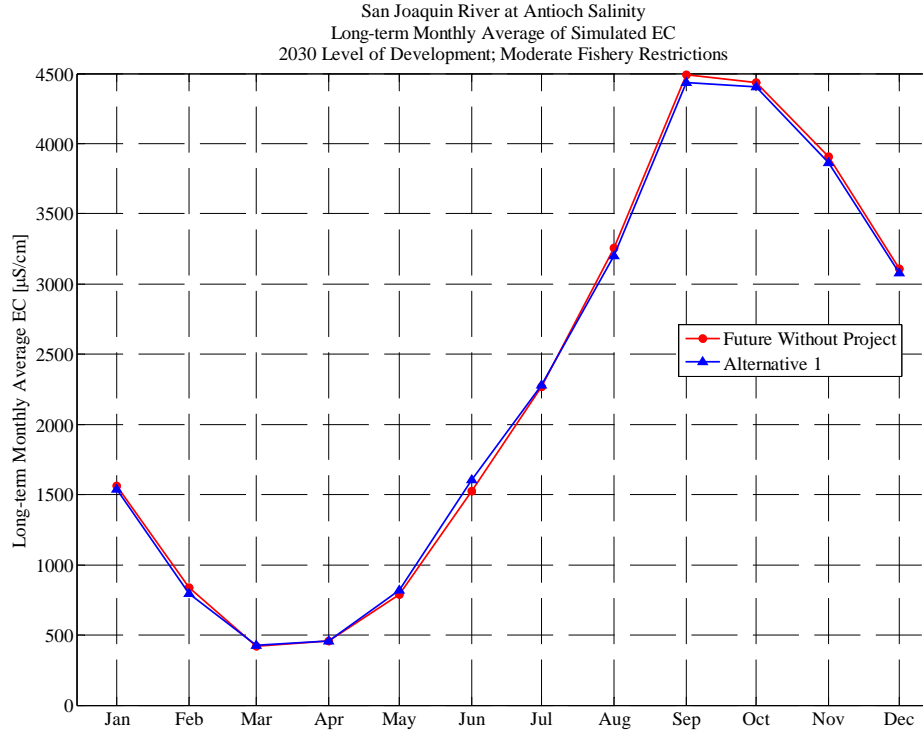
**San Joaquin River at Antioch Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )  
Alternative 1**

**2030 Level of Development; Moderate Fishery Restrictions**

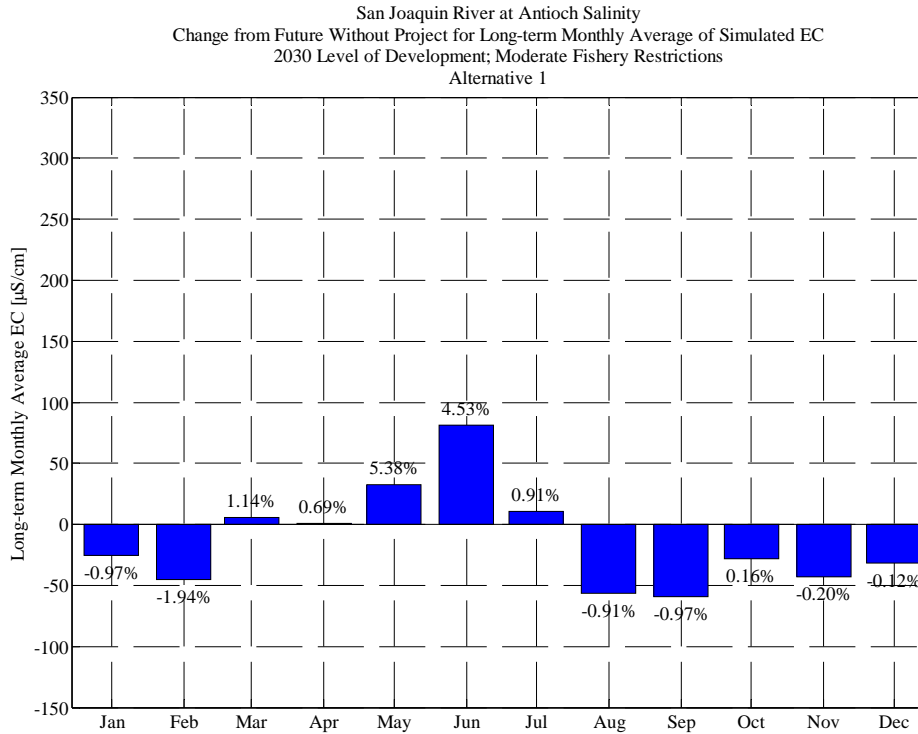
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1,626	2,252	2,962	2,856	1,517	453	548	1,954	3,976	4,590	4,631	5,902
1977	5,464	5,692	4,482	3,939	1,266	871	1,708	2,435	3,789	3,848	4,114	5,308
1978	5,710	5,344	2,975	420	253	261	262	246	300	918	2,931	4,859
1979	5,412	5,584	4,517	1,102	274	233	231	284	389	1,447	3,159	5,312
1980	5,456	3,972	1,729	299	276	271	253	255	278	619	2,314	4,504
1981	5,074	5,026	5,001	1,142	238	204	243	565	1,657	2,759	3,397	4,683
1982	5,472	1,545	217	239	228	239	216	197	202	443	2,279	786
1983	206	199	238	307	299	260	240	223	218	213	217	202
1984	308	201	229	244	223	202	226	335	699	1,089	2,370	4,827
1985	4,762	1,329	365	738	445	248	316	542	1,637	2,536	3,260	5,110
1986	5,208	5,000	3,367	876	261	265	248	254	344	700	2,284	3,725
1987	4,149	4,706	5,197	2,480	584	232	340	1,151	2,145	2,864	3,688	4,785
1988	5,382	5,206	4,384	1,112	402	879	966	1,761	2,475	3,590	4,828	5,623
1989	5,198	5,449	4,129	2,940	2,076	387	201	251	1,446	2,426	3,284	5,044
1990	5,592	5,154	4,518	1,274	561	955	973	1,443	3,114	4,474	4,519	5,060
1991	5,455	5,190	4,950	4,642	3,807	837	327	1,248	3,013	3,980	3,978	5,191
<b>Avg</b>	<b>4,405</b>	<b>3,866</b>	<b>3,079</b>	<b>1,538</b>	<b>794</b>	<b>425</b>	<b>456</b>	<b>821</b>	<b>1,605</b>	<b>2,281</b>	<b>3,203</b>	<b>4,433</b>
<b>W/AN/BN</b>	<b>3,968</b>	<b>3,121</b>	<b>1,896</b>	<b>498</b>	<b>259</b>	<b>247</b>	<b>239</b>	<b>256</b>	<b>347</b>	<b>775</b>	<b>2,222</b>	<b>3,459</b>
<b>D/C</b>	<b>4,745</b>	<b>4,445</b>	<b>3,998</b>	<b>2,347</b>	<b>1,210</b>	<b>563</b>	<b>625</b>	<b>1,261</b>	<b>2,583</b>	<b>3,452</b>	<b>3,967</b>	<b>5,189</b>

**Percent (%) Change from Future Without Project for San Joaquin River at Antioch Salinity  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	12.7%	12.5%	5.6%	2.2%	1.3%	2.5%	0.5%	1.3%	-2.2%	-0.2%	-0.5%	-3.9%
1977	-5.5%	-4.1%	-4.6%	-3.6%	-16.4%	-16.2%	-10.3%	-9.0%	14.0%	8.9%	-9.2%	-4.5%
1978	-1.7%	0.9%	1.1%	0.1%	0.0%	0.0%	0.1%	-0.8%	7.1%	19.9%	16.0%	5.7%
1979	1.3%	0.8%	-0.3%	0.3%	-0.6%	-1.6%	-1.0%	5.5%	-0.1%	-4.3%	-1.1%	-0.1%
1980	-0.3%	3.1%	0.7%	-1.3%	-0.3%	-0.2%	0.3%	1.3%	-1.5%	-0.9%	0.2%	-0.1%
1981	-0.3%	-1.1%	-1.6%	-1.3%	0.0%	-0.6%	-0.4%	17.1%	2.1%	-2.4%	0.0%	0.4%
1982	0.1%	-0.1%	0.2%	0.1%	0.2%	0.0%	0.0%	-0.5%	-0.1%	0.1%	0.4%	0.6%
1983	0.6%	0.0%	-0.1%	-0.3%	-0.1%	0.0%	0.2%	-0.8%	0.0%	0.0%	0.0%	0.1%
1984	0.2%	0.0%	-0.1%	-0.1%	0.0%	0.0%	-0.1%	6.6%	0.5%	-1.6%	0.1%	0.4%
1985	-0.2%	-0.2%	6.4%	3.9%	1.5%	0.5%	-0.3%	9.8%	-1.2%	-2.4%	-0.4%	-0.6%
1986	1.3%	0.6%	0.0%	-0.7%	0.6%	-1.3%	0.0%	4.6%	3.2%	-3.9%	-4.0%	-1.9%
1987	-0.8%	-0.4%	-0.5%	-4.1%	-5.0%	-0.5%	-0.8%	20.9%	10.4%	0.4%	-0.2%	-0.3%
1988	0.3%	0.5%	0.3%	0.6%	-2.6%	16.8%	7.3%	23.8%	27.0%	4.1%	-0.5%	-0.3%
1989	-0.4%	-2.8%	-4.0%	-6.3%	-7.5%	-4.4%	0.1%	5.8%	14.1%	2.9%	0.3%	2.7%
1990	0.4%	-3.2%	-4.2%	-6.4%	5.4%	32.5%	18.4%	1.2%	-0.6%	-2.1%	-6.9%	-9.3%
1991	-5.3%	-9.6%	-0.8%	1.2%	-7.7%	-8.9%	-3.2%	-0.8%	-0.3%	-4.0%	-8.8%	-4.2%
<b>Avg</b>	<b>0.2%</b>	<b>-0.2%</b>	<b>-0.1%</b>	<b>-1.0%</b>	<b>-1.9%</b>	<b>1.1%</b>	<b>0.7%</b>	<b>5.4%</b>	<b>4.5%</b>	<b>0.9%</b>	<b>-0.9%</b>	<b>-1.0%</b>
<b>W/AN/BN</b>	<b>0.2%</b>	<b>0.7%</b>	<b>0.2%</b>	<b>-0.3%</b>	<b>0.0%</b>	<b>-0.5%</b>	<b>-0.1%</b>	<b>2.3%</b>	<b>1.3%</b>	<b>1.3%</b>	<b>1.7%</b>	<b>0.7%</b>
<b>D/C</b>	<b>0.1%</b>	<b>-0.9%</b>	<b>-0.4%</b>	<b>-1.5%</b>	<b>-3.4%</b>	<b>2.4%</b>	<b>1.3%</b>	<b>7.8%</b>	<b>7.0%</b>	<b>0.6%</b>	<b>-2.9%</b>	<b>-2.2%</b>

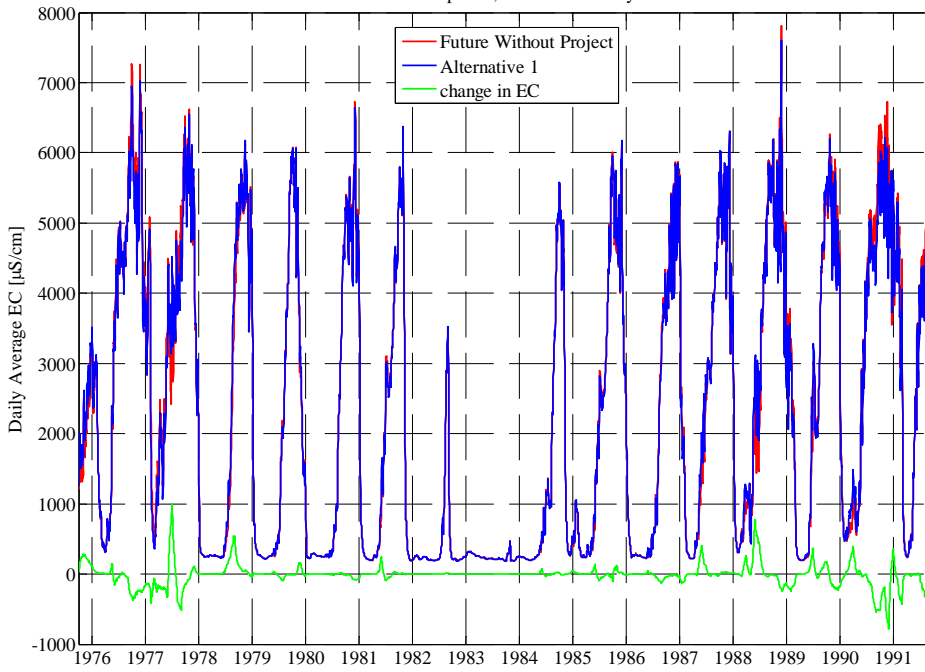


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04-Nov-2008 DS



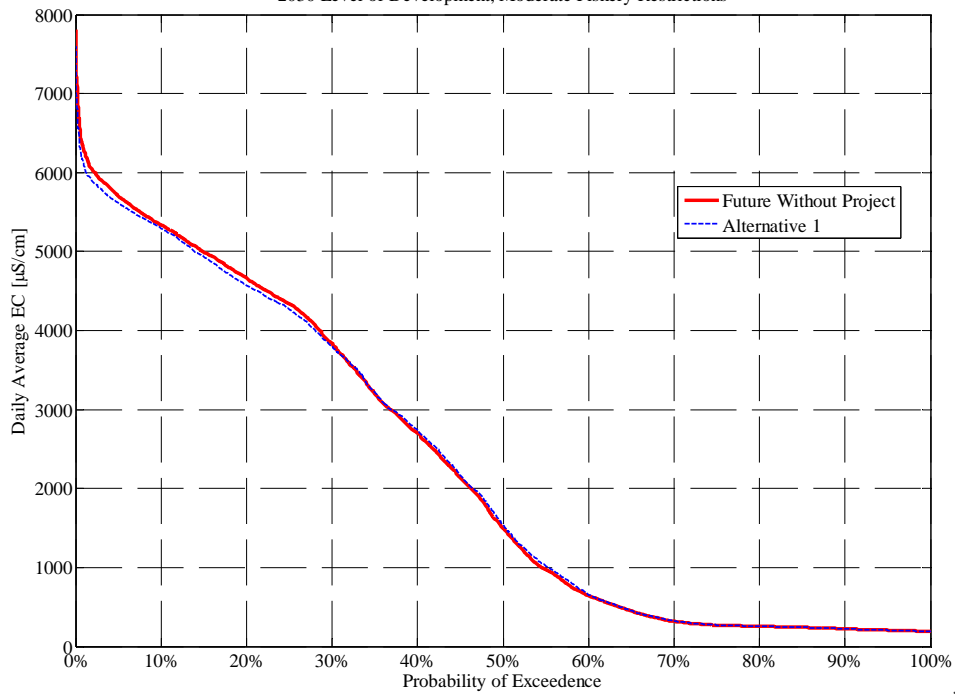
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San Joaquin River at Antioch Salinity  
 Daily Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions



p\_lve\_wq\_eir.m  
 04-Nov-2008 DS

San Joaquin River at Antioch Salinity  
 Cumulative Distribution of Daily Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions



p\_lve\_wq\_eir.m  
 05-Nov-2008 DS

**Alternative 2**

**San Joaquin River at Antioch Salinity  
Monthly Average of Simulated Values (EC, µS/cm)**

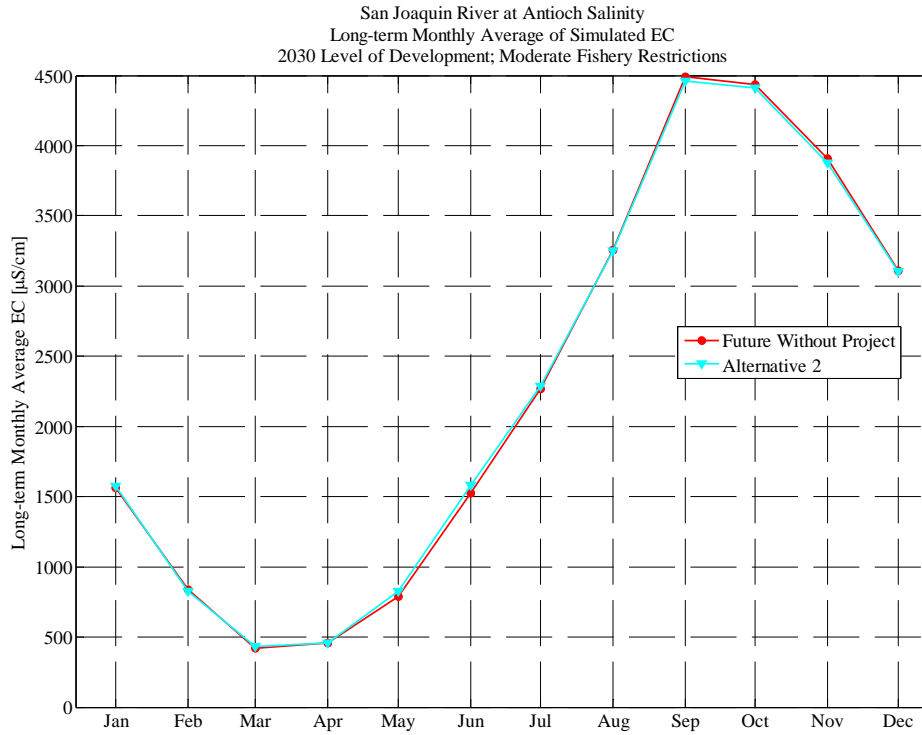
**Alternative 2****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1,653	2,325	3,004	2,867	1,568	466	549	1,955	3,977	4,590	4,633	5,906
1977	5,469	5,696	4,474	3,927	1,279	883	1,702	2,489	3,272	3,544	4,501	5,536
1978	5,798	5,301	3,270	472	253	261	262	246	300	917	2,929	4,857
1979	5,412	5,592	4,517	1,139	274	232	231	284	391	1,448	3,159	5,313
1980	5,456	4,079	1,813	304	276	271	253	255	278	619	2,314	4,504
1981	5,074	5,026	5,001	1,154	238	204	243	565	1,657	2,758	3,396	4,683
1982	5,471	1,562	218	237	227	239	216	197	202	443	2,279	786
1983	208	199	237	306	299	260	240	223	218	213	217	202
1984	308	201	229	244	223	202	226	335	699	1,089	2,370	4,828
1985	4,761	1,332	372	766	466	249	316	542	1,636	2,535	3,259	5,110
1986	5,209	5,001	3,367	917	262	265	248	254	385	722	2,266	3,716
1987	4,145	4,704	5,198	2,664	656	235	340	1,150	2,215	2,904	3,692	4,787
1988	5,387	5,210	4,386	1,133	404	880	966	1,761	2,477	3,763	4,956	5,655
1989	5,206	5,451	4,130	2,940	2,076	388	201	251	1,446	2,427	3,284	5,054
1990	5,608	5,163	4,519	1,348	584	960	974	1,443	3,112	4,474	4,527	5,077
1991	5,431	5,220	4,966	4,764	4,091	916	337	1,265	3,034	4,143	4,267	5,349
<b>Avg</b>	<b>4,412</b>	<b>3,879</b>	<b>3,106</b>	<b>1,574</b>	<b>823</b>	<b>432</b>	<b>456</b>	<b>826</b>	<b>1,581</b>	<b>2,287</b>	<b>3,253</b>	<b>4,460</b>
<b>W/AN/BN</b>	<b>3,980</b>	<b>3,134</b>	<b>1,950</b>	<b>517</b>	<b>259</b>	<b>247</b>	<b>239</b>	<b>256</b>	<b>353</b>	<b>779</b>	<b>2,219</b>	<b>3,458</b>
<b>D/C</b>	<b>4,748</b>	<b>4,459</b>	<b>4,005</b>	<b>2,396</b>	<b>1,262</b>	<b>576</b>	<b>625</b>	<b>1,269</b>	<b>2,536</b>	<b>3,460</b>	<b>4,057</b>	<b>5,240</b>

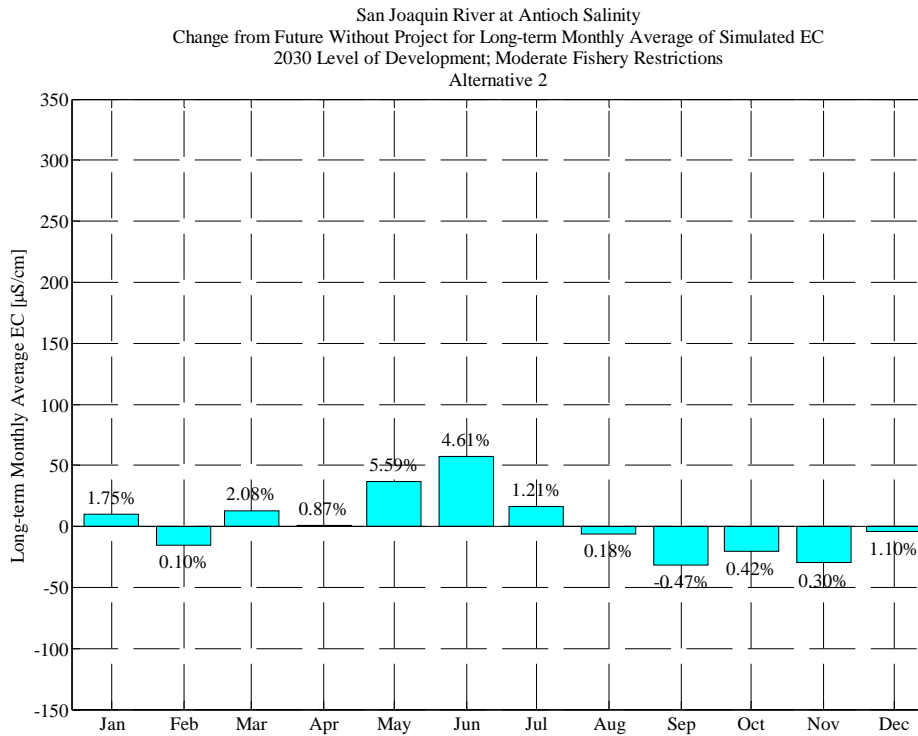
**Percent (%) Change from Future Without Project for San Joaquin River at Antioch  
(Alternative 2 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

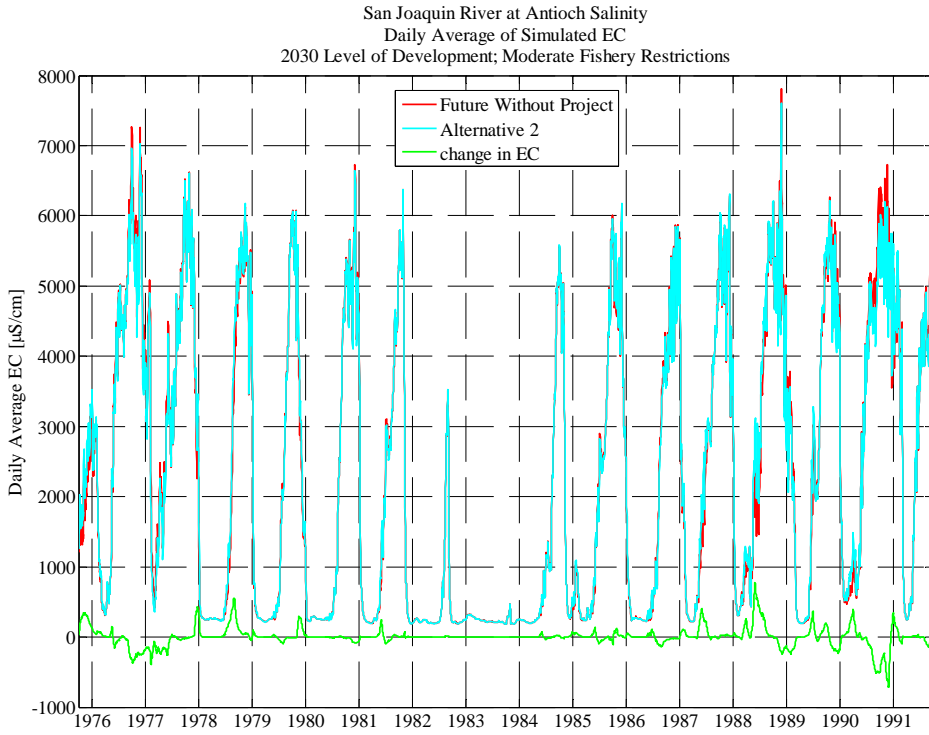
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	14.6%	16.2%	7.1%	2.5%	4.7%	5.5%	0.7%	1.3%	-2.2%	-0.2%	-0.4%	-3.8%
1977	-5.5%	-4.1%	-4.7%	-3.9%	-15.5%	-15.1%	-10.7%	-7.0%	-1.6%	0.2%	-0.6%	-0.4%
1978	-0.2%	0.1%	11.2%	12.5%	0.0%	0.0%	0.1%	-0.8%	7.1%	19.8%	15.9%	5.7%
1979	1.3%	0.9%	-0.3%	3.7%	-0.5%	-1.7%	-1.0%	5.5%	0.3%	-4.2%	-1.1%	-0.1%
1980	-0.3%	5.8%	5.6%	0.6%	-0.6%	-0.3%	0.4%	1.3%	-1.5%	-0.9%	0.2%	-0.1%
1981	-0.3%	-1.1%	-1.6%	-0.2%	0.3%	-0.7%	-0.4%	17.1%	2.1%	-2.4%	0.0%	0.4%
1982	0.1%	1.0%	1.0%	-0.6%	-0.3%	0.0%	0.0%	-0.5%	-0.1%	0.1%	0.4%	0.6%
1983	1.3%	0.0%	-0.2%	-0.4%	-0.2%	-0.1%	0.2%	-0.8%	0.0%	0.0%	0.0%	0.1%
1984	0.2%	0.0%	-0.2%	-0.1%	-0.1%	-0.1%	-0.1%	6.6%	0.5%	-1.6%	0.1%	0.4%
1985	-0.2%	0.1%	8.6%	7.8%	6.5%	1.1%	-0.3%	9.8%	-1.2%	-2.4%	-0.4%	-0.6%
1986	1.3%	0.6%	0.0%	4.0%	1.0%	-1.3%	0.0%	4.6%	15.3%	-0.8%	-4.8%	-2.1%
1987	-0.9%	-0.4%	-0.5%	3.0%	6.7%	0.6%	-0.9%	20.8%	14.1%	1.8%	-0.1%	-0.2%
1988	0.4%	0.5%	0.4%	2.5%	-1.9%	16.9%	7.4%	23.8%	27.1%	9.1%	2.2%	0.2%
1989	-0.2%	-2.8%	-4.0%	-6.3%	-7.5%	-4.4%	0.1%	5.8%	14.1%	2.9%	0.3%	2.9%
1990	0.7%	-3.0%	-4.2%	-0.9%	9.8%	33.2%	18.5%	1.2%	-0.6%	-2.1%	-6.7%	-9.0%
1991	-5.7%	-9.1%	-0.5%	3.9%	-0.8%	-0.3%	-0.2%	0.6%	0.4%	-0.1%	-2.2%	-1.3%
<b>Avg</b>	<b>0.4%</b>	<b>0.3%</b>	<b>1.1%</b>	<b>1.8%</b>	<b>0.1%</b>	<b>2.1%</b>	<b>0.9%</b>	<b>5.6%</b>	<b>4.6%</b>	<b>1.2%</b>	<b>0.2%</b>	<b>-0.5%</b>
<b>W/AN/BN</b>	<b>0.5%</b>	<b>1.2%</b>	<b>2.4%</b>	<b>2.8%</b>	<b>-0.1%</b>	<b>-0.5%</b>	<b>-0.1%</b>	<b>2.3%</b>	<b>3.1%</b>	<b>1.8%</b>	<b>1.5%</b>	<b>0.6%</b>
<b>D/C</b>	<b>0.3%</b>	<b>-0.4%</b>	<b>0.1%</b>	<b>0.9%</b>	<b>0.3%</b>	<b>4.1%</b>	<b>1.6%</b>	<b>8.2%</b>	<b>5.8%</b>	<b>0.8%</b>	<b>-0.9%</b>	<b>-1.3%</b>



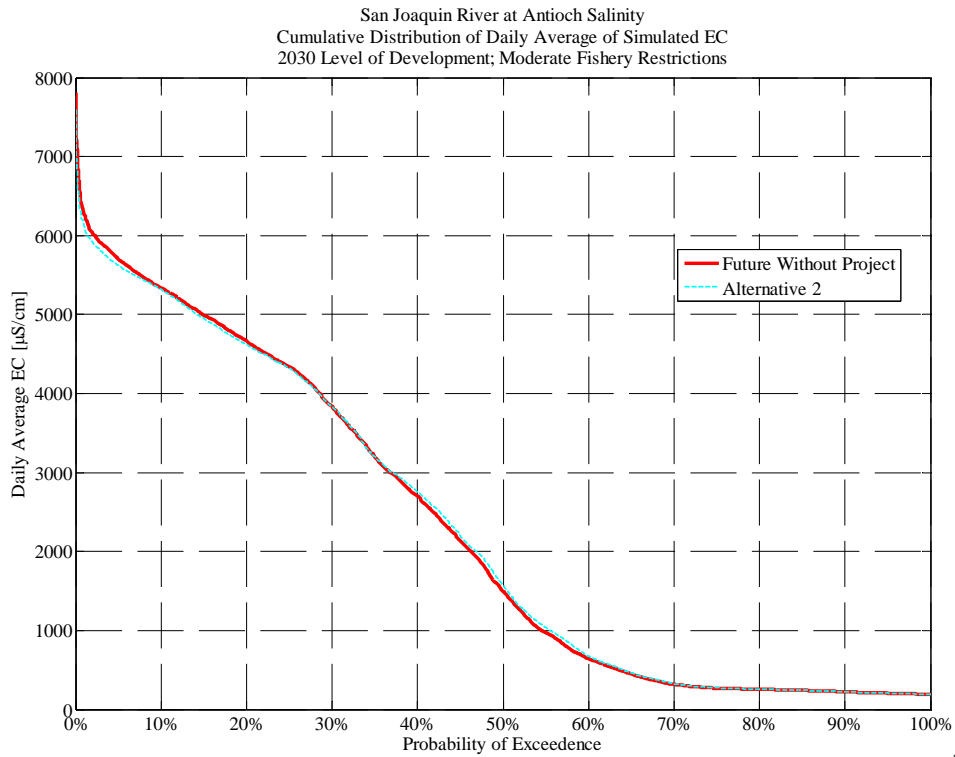
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04-Nov-2008 DS



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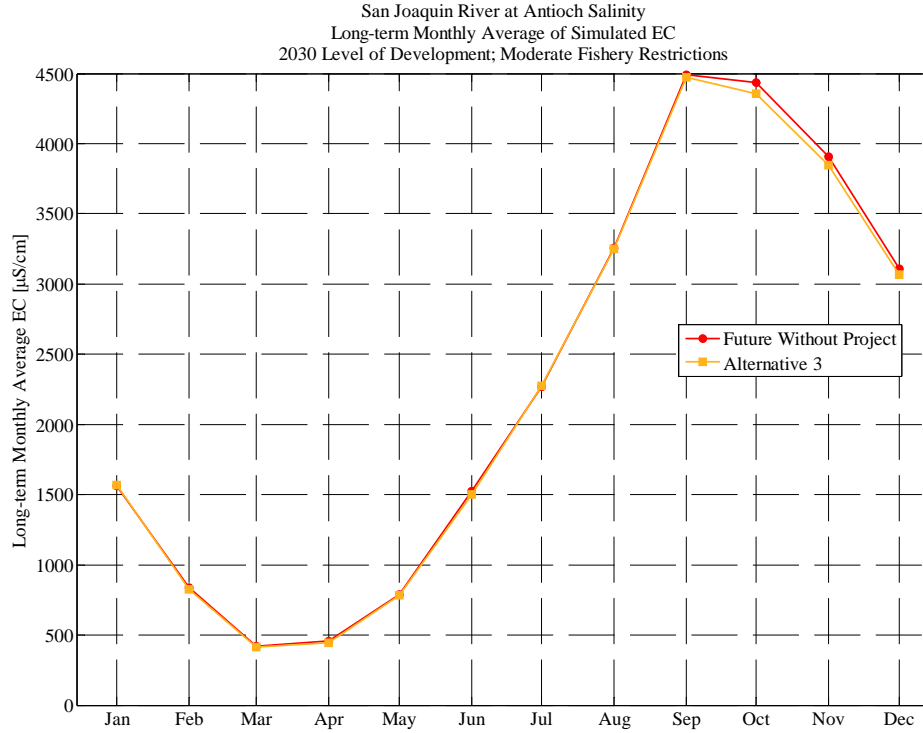
**Alternative 3****San Joaquin River at Antioch Salinity  
Monthly Average of Simulated Values (EC, µS/cm)****Alternative 3****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1,305	1,840	2,756	2,768	1,480	439	545	1,780	3,724	4,449	4,550	5,907
1977	5,356	5,576	4,497	3,982	1,298	889	1,703	2,400	3,906	3,944	4,178	5,372
1978	5,732	5,326	2,939	417	253	261	262	246	297	891	2,850	4,868
1979	5,475	5,570	4,517	1,103	274	233	231	281	363	1,603	3,367	5,412
1980	5,538	4,044	1,830	308	276	271	252	253	278	619	2,320	4,533
1981	5,094	5,096	5,102	1,160	238	205	244	524	1,476	2,768	3,470	4,760
1982	5,474	1,550	217	241	228	239	216	197	202	443	2,277	785
1983	205	199	238	308	299	260	239	224	219	213	217	202
1984	308	201	230	244	223	199	220	321	682	1,084	2,376	4,856
1985	4,827	1,358	345	712	440	247	317	519	1,615	2,550	3,262	5,119
1986	5,133	4,977	3,355	869	259	266	246	245	325	704	2,256	3,734
1987	4,173	4,724	5,224	3,228	862	244	338	870	1,663	2,758	3,735	4,879
1988	5,356	5,186	4,372	1,106	392	682	869	1,730	1,935	3,474	4,981	5,730
1989	5,198	5,419	4,115	2,921	2,061	385	202	236	1,381	2,458	3,325	4,800
1990	5,233	5,043	4,558	1,285	549	907	935	1,438	2,922	4,308	4,516	5,163
1991	5,278	5,391	4,742	4,454	4,083	914	337	1,262	3,023	4,146	4,360	5,418
<b>Avg</b>	<b>4,355</b>	<b>3,844</b>	<b>3,065</b>	<b>1,569</b>	<b>826</b>	<b>415</b>	<b>447</b>	<b>783</b>	<b>1,501</b>	<b>2,276</b>	<b>3,252</b>	<b>4,471</b>
<b>W/AN/BN</b>	<b>3,981</b>	<b>3,124</b>	<b>1,904</b>	<b>498</b>	<b>259</b>	<b>247</b>	<b>238</b>	<b>252</b>	<b>338</b>	<b>794</b>	<b>2,237</b>	<b>3,484</b>
<b>D/C</b>	<b>4,647</b>	<b>4,404</b>	<b>3,968</b>	<b>2,402</b>	<b>1,267</b>	<b>546</b>	<b>610</b>	<b>1,195</b>	<b>2,405</b>	<b>3,428</b>	<b>4,042</b>	<b>5,239</b>

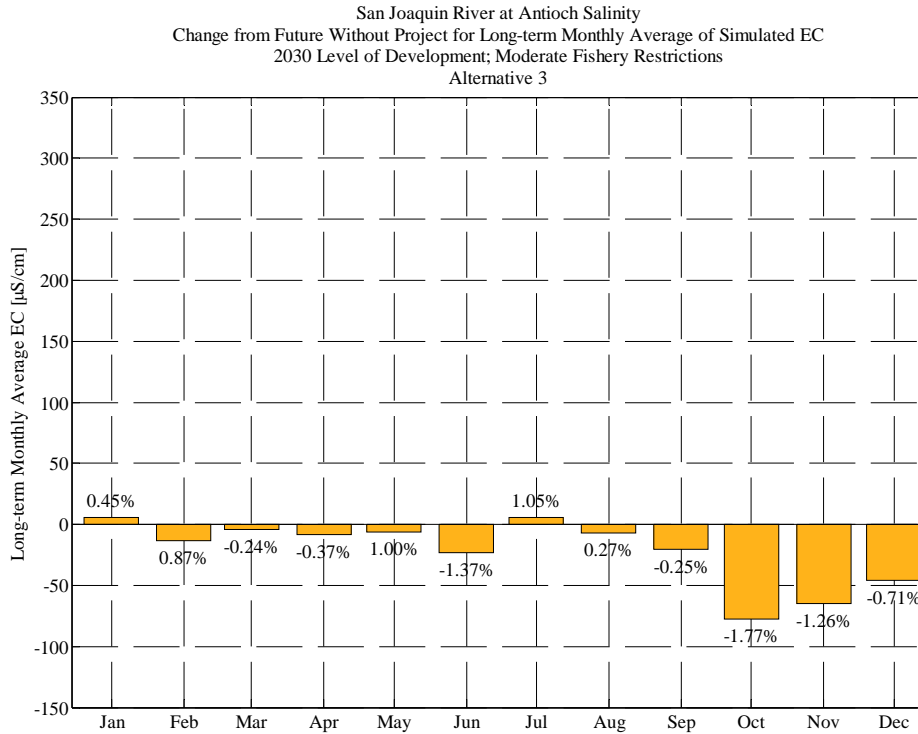
**Percent (%) Change from Future Without Project for San Joaquin River at Antioch  
(Alternative 3 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-9.6%	-8.1%	-1.7%	-1.0%	-1.1%	-0.6%	-0.1%	-7.8%	-8.4%	-3.3%	-2.2%	-3.8%
1977	-7.4%	-6.1%	-4.3%	-2.6%	-14.3%	-14.5%	-10.6%	-10.3%	17.5%	11.6%	-7.7%	-3.4%
1978	-1.3%	0.6%	-0.1%	-0.8%	0.0%	0.0%	0.0%	-0.5%	6.2%	16.4%	12.8%	5.9%
1979	2.5%	0.5%	-0.3%	0.4%	-0.4%	-1.4%	-0.8%	4.3%	-6.9%	6.0%	5.4%	1.7%
1980	1.2%	4.9%	6.6%	1.9%	-0.3%	0.0%	0.0%	0.3%	-1.7%	-0.8%	0.5%	0.5%
1981	0.1%	0.2%	0.4%	0.4%	0.0%	0.0%	0.0%	8.6%	-9.0%	-2.0%	2.1%	2.1%
1982	0.1%	0.2%	0.3%	0.8%	0.5%	0.0%	0.0%	-0.2%	0.0%	0.2%	0.3%	0.4%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	0.1%	0.0%	0.1%	0.1%
1984	0.2%	0.0%	0.0%	0.0%	-0.3%	-1.5%	-2.5%	2.1%	-1.9%	-2.0%	0.3%	1.0%
1985	1.2%	2.0%	0.7%	0.1%	0.5%	0.2%	0.1%	5.1%	-2.5%	-1.8%	-0.4%	-0.5%
1986	-0.2%	0.1%	-0.3%	-1.5%	-0.2%	-1.1%	-1.0%	0.9%	-2.6%	-3.3%	-5.2%	-1.7%
1987	-0.2%	0.0%	0.0%	24.8%	40.3%	4.4%	-1.4%	-8.6%	-14.4%	-3.3%	1.1%	1.7%
1988	-0.2%	0.1%	0.0%	0.0%	-4.9%	-9.3%	-3.4%	21.6%	-0.7%	0.7%	2.7%	1.6%
1989	-0.4%	-3.3%	-4.4%	-6.9%	-8.2%	-5.2%	0.2%	-0.5%	8.9%	4.2%	1.5%	-2.3%
1990	-6.0%	-5.3%	-3.3%	-5.5%	3.2%	25.8%	13.7%	0.9%	-6.7%	-5.7%	-7.0%	-7.4%
1991	-8.3%	-6.1%	-5.0%	-2.9%	-1.0%	-0.6%	-0.1%	0.4%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	<b>-1.8%</b>	<b>-1.3%</b>	<b>-0.7%</b>	<b>0.5%</b>	<b>0.9%</b>	<b>-0.2%</b>	<b>-0.4%</b>	<b>1.0%</b>	<b>-1.4%</b>	<b>1.1%</b>	<b>0.3%</b>	<b>-0.3%</b>
<b>W/AN/BN</b>	<b>0.4%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.1%</b>	<b>-0.1%</b>	<b>-0.6%</b>	<b>-0.6%</b>	<b>0.9%</b>	<b>-1.0%</b>	<b>2.4%</b>	<b>2.0%</b>	<b>1.1%</b>
<b>D/C</b>	<b>-3.4%</b>	<b>-2.9%</b>	<b>-1.9%</b>	<b>0.7%</b>	<b>1.6%</b>	<b>0.0%</b>	<b>-0.2%</b>	<b>1.0%</b>	<b>-1.7%</b>	<b>0.0%</b>	<b>-1.1%</b>	<b>-1.3%</b>

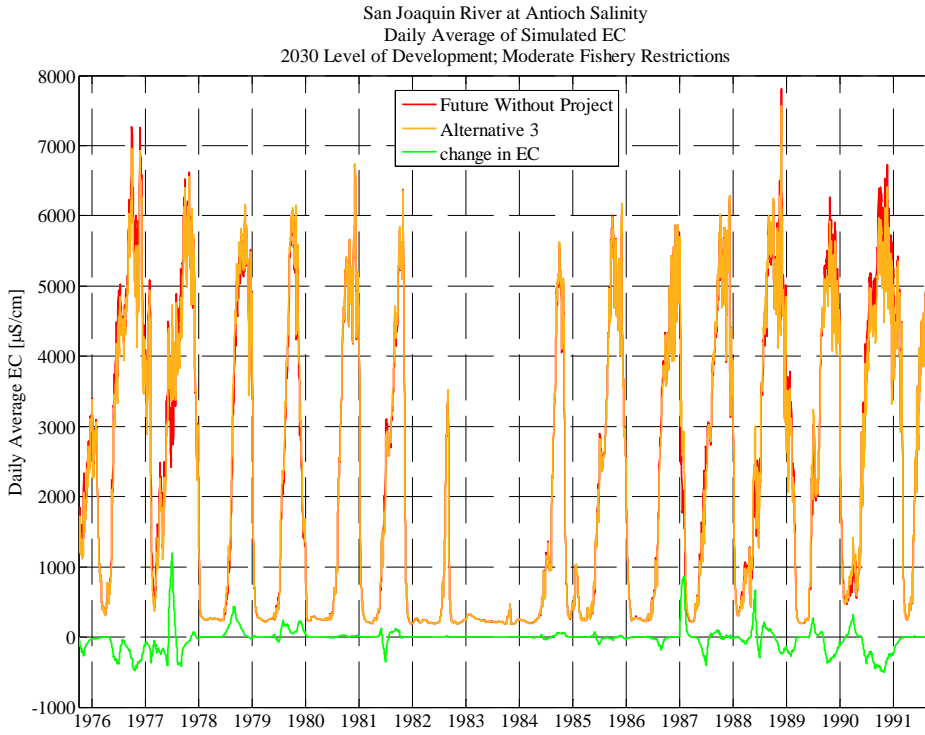




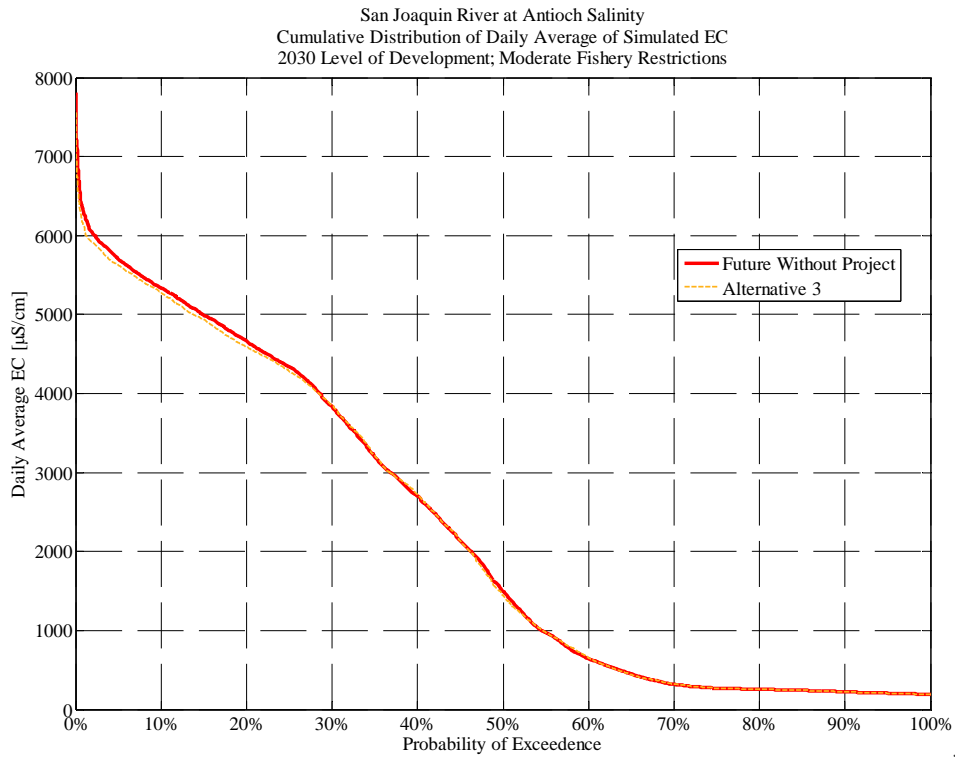
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**Alternative 4**

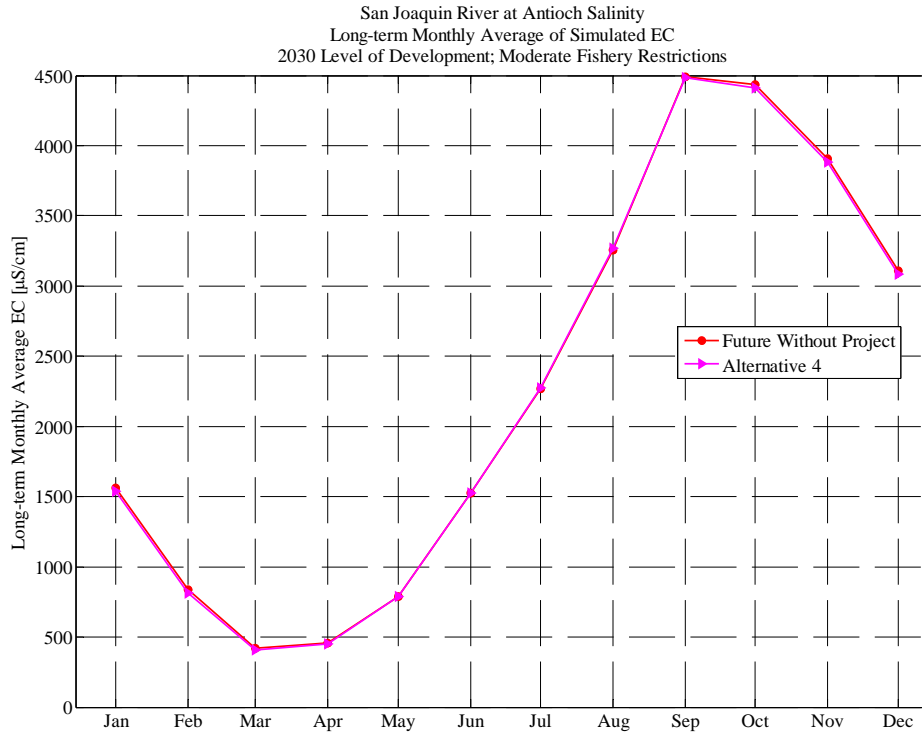
**San Joaquin River at Antioch Salinity  
Monthly Average of Simulated Values (EC, µS/cm)**

**Alternative 4****2030 Level of Development; Moderate Fishery Restrictions**

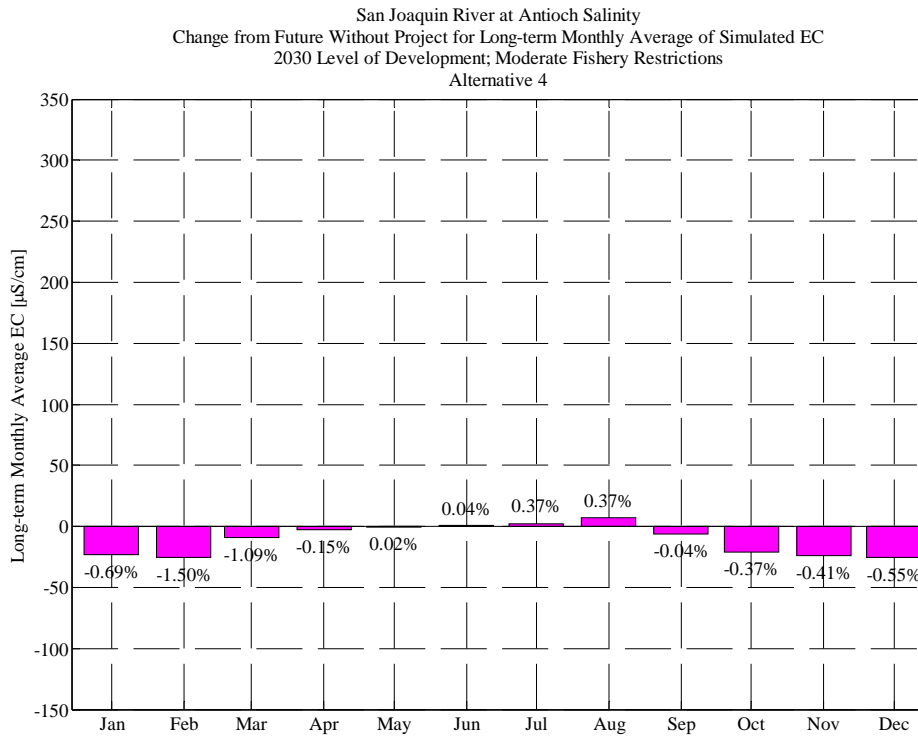
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1,440	1,996	2,804	2,795	1,497	442	545	1,930	4,065	4,602	4,626	5,901
1977	5,476	5,699	4,471	3,928	1,287	920	1,862	2,668	3,337	3,529	4,444	5,490
1978	5,770	5,316	2,961	421	253	261	262	248	280	767	2,533	4,598
1979	5,346	5,548	4,531	1,098	276	236	233	269	390	1,521	3,301	5,416
1980	5,498	3,862	1,718	302	274	269	251	252	282	654	2,380	4,563
1981	5,110	5,093	5,080	1,155	238	205	244	482	1,622	2,827	3,399	4,669
1982	5,476	1,549	216	239	227	239	216	198	202	443	2,273	783
1983	205	199	238	308	299	260	239	225	218	213	217	202
1984	308	201	230	244	223	202	226	314	697	1,109	2,371	4,808
1985	4,771	1,333	343	711	438	247	317	494	1,657	2,600	3,277	5,143
1986	5,141	4,968	3,365	882	260	269	248	243	333	728	2,409	3,837
1987	4,200	4,729	5,225	2,585	614	233	343	952	1,942	2,852	3,694	4,799
1988	5,366	5,183	4,372	1,106	412	752	900	1,423	1,949	3,448	4,852	5,648
1989	5,210	5,454	4,127	2,940	2,077	385	202	239	1,267	2,358	3,276	4,906
1990	5,513	5,276	4,691	1,353	531	721	822	1,426	3,133	4,568	4,853	5,584
1991	5,753	5,750	4,987	4,579	4,121	919	337	1,257	3,023	4,147	4,361	5,419
<b>Avg</b>	<b>4,411</b>	<b>3,885</b>	<b>3,085</b>	<b>1,540</b>	<b>814</b>	<b>410</b>	<b>453</b>	<b>789</b>	<b>1,525</b>	<b>2,273</b>	<b>3,267</b>	<b>4,485</b>
<b>W/AN/BN</b>	<b>3,963</b>	<b>3,092</b>	<b>1,894</b>	<b>499</b>	<b>259</b>	<b>248</b>	<b>239</b>	<b>250</b>	<b>343</b>	<b>776</b>	<b>2,212</b>	<b>3,458</b>
<b>D/C</b>	<b>4,760</b>	<b>4,501</b>	<b>4,011</b>	<b>2,350</b>	<b>1,246</b>	<b>536</b>	<b>619</b>	<b>1,208</b>	<b>2,444</b>	<b>3,437</b>	<b>4,087</b>	<b>5,284</b>

**Percent (%) Change from Future Without Project for San Joaquin River at Antioch****(Alternative 4 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

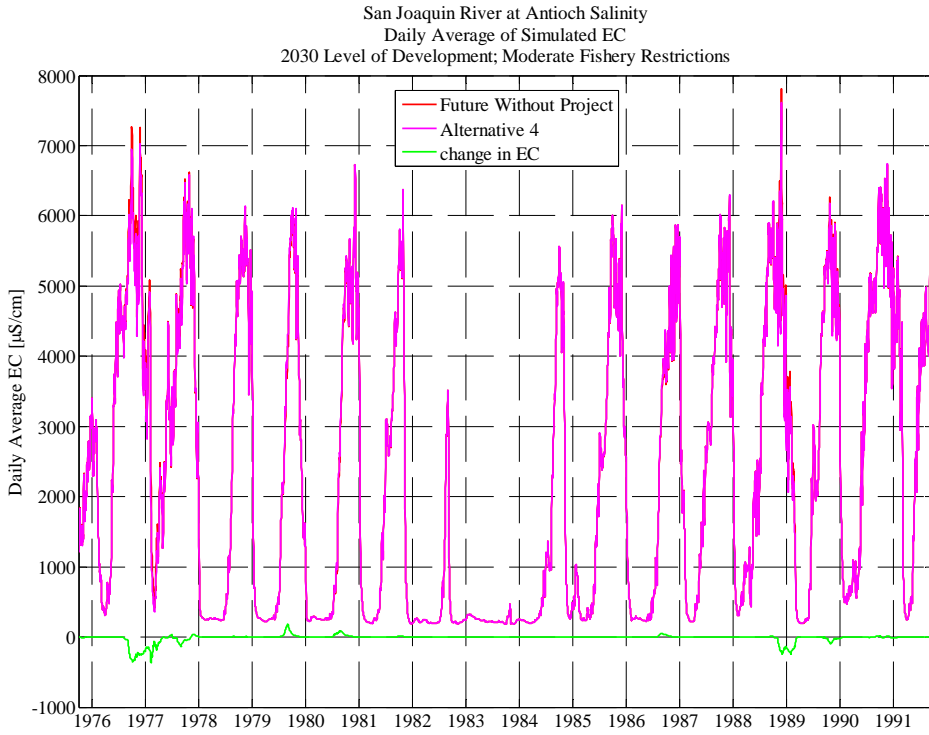
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.2%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.6%	-3.9%
1977	-5.4%	-4.0%	-4.8%	-3.9%	-15.0%	-11.5%	-2.3%	-0.3%	0.4%	-0.2%	-1.9%	-1.3%
1978	-0.7%	0.4%	0.6%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.2%	0.1%
1979	0.1%	0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	3.3%	1.8%
1980	0.5%	0.2%	0.1%	-0.1%	-1.3%	-0.9%	-0.3%	0.0%	0.0%	4.7%	3.1%	1.2%
1981	0.4%	0.2%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%
1982	0.1%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	0.2%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.1%	0.0%
1985	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%
1986	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	-0.1%	0.0%	1.2%	1.0%
1987	0.4%	0.1%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1989	-0.2%	-2.7%	-4.1%	-6.3%	-7.4%	-5.1%	0.2%	0.7%	0.0%	0.0%	0.0%	-0.1%
1990	-1.0%	-0.9%	-0.5%	-0.6%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1991	-0.1%	0.1%	-0.1%	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	<b>-0.4%</b>	<b>-0.4%</b>	<b>-0.5%</b>	<b>-0.7%</b>	<b>-1.5%</b>	<b>-1.1%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.0%</b>
<b>W/AN/BN</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>-0.2%</b>	<b>-0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.9%</b>	<b>1.2%</b>	<b>0.6%</b>
<b>D/C</b>	<b>-0.7%</b>	<b>-0.8%</b>	<b>-1.1%</b>	<b>-1.2%</b>	<b>-2.5%</b>	<b>-1.8%</b>	<b>-0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>-0.2%</b>	<b>-0.5%</b>



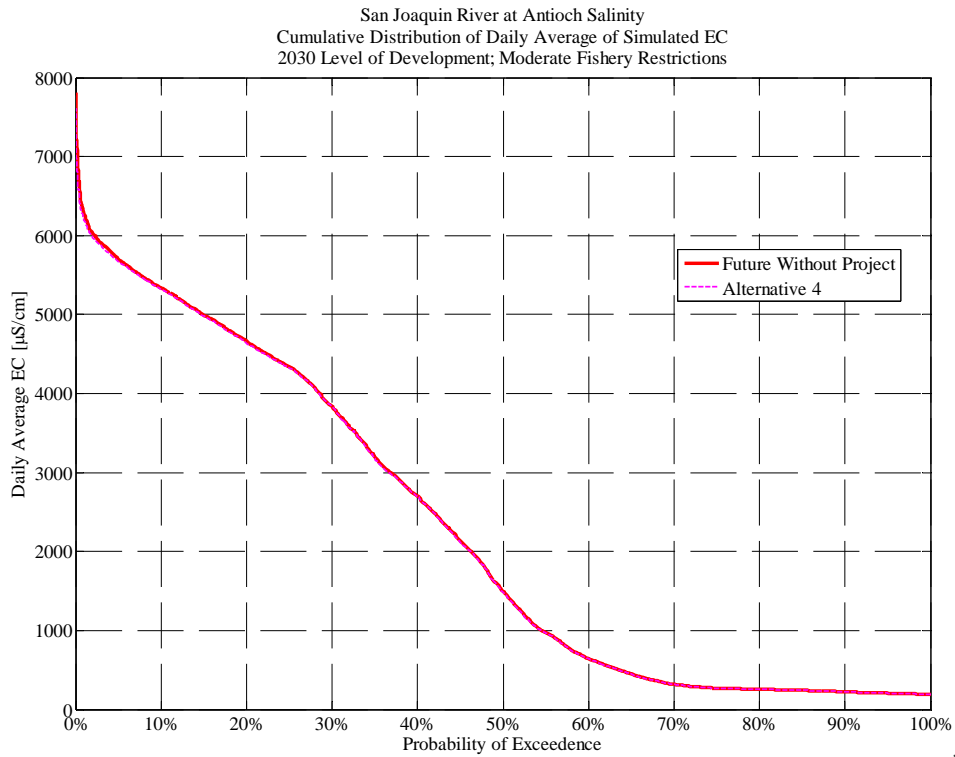
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## Old River at Rock Slough

### *Future Without Project*

**Old River at Rock Slough Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	277	301	547	706	549	313	296	367	656	836	807	1,045
1977	1,116	988	1,083	847	818	465	442	504	681	625	802	991
1978	1,272	1,300	797	429	365	399	405	336	268	242	339	704
1979	871	904	945	637	346	295	327	319	235	268	479	851
1980	1,033	725	504	348	435	422	384	342	286	257	316	655
1981	835	806	1,058	674	274	248	321	361	291	528	654	832
1982	1,000	656	222	337	323	313	248	236	238	253	315	301
1983	194	228	343	462	358	285	331	280	254	271	209	191
1984	195	225	322	363	280	241	310	329	247	244	337	738
1985	833	518	236	238	267	275	360	392	296	534	672	912
1986	971	859	910	502	410	358	343	271	257	272	324	571
1987	643	729	990	854	425	299	346	358	328	539	688	849
1988	961	886	1,012	734	309	298	328	329	368	487	823	1,089
1989	1,057	999	1,083	690	724	384	270	260	245	540	689	954
1990	979	956	983	606	298	271	296	307	461	783	891	991
1991	1,173	1,127	1,136	1,032	1,045	577	301	282	445	736	844	934
<b>Avg</b>	838	763	761	591	452	340	332	330	347	463	574	788
<b>W/AN/BN</b>	791	700	578	440	360	330	335	302	255	258	331	573
<b>D/C</b>	875	812	903	709	523	348	329	351	419	623	763	955

**Alternative 1**

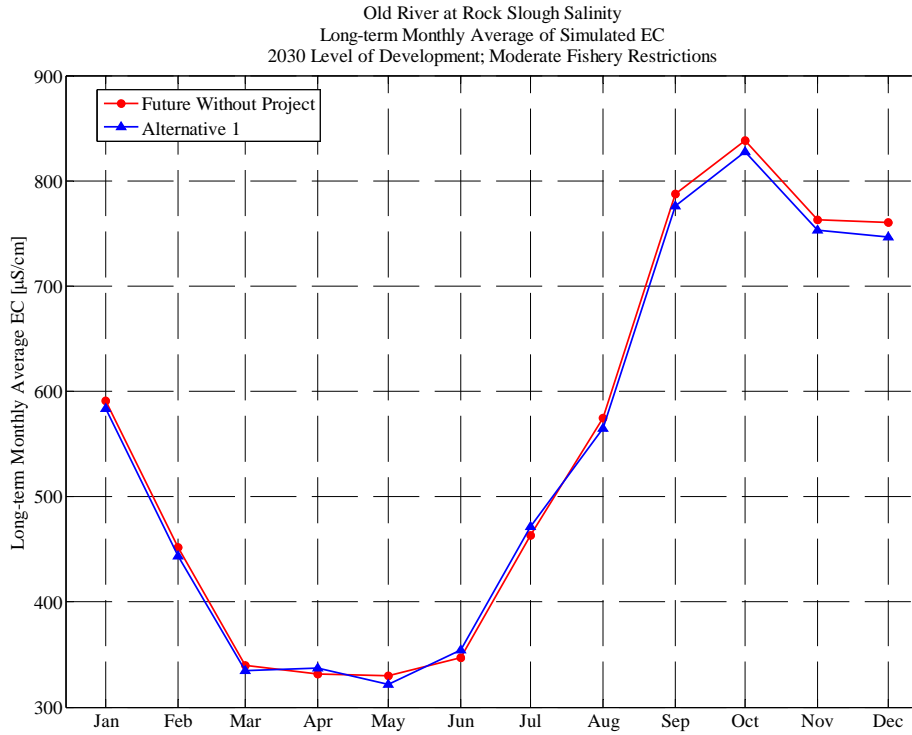
**Old River at Rock Slough Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )**

**Alternative 1****2030 Level of Development; Moderate Fishery Restrictions**

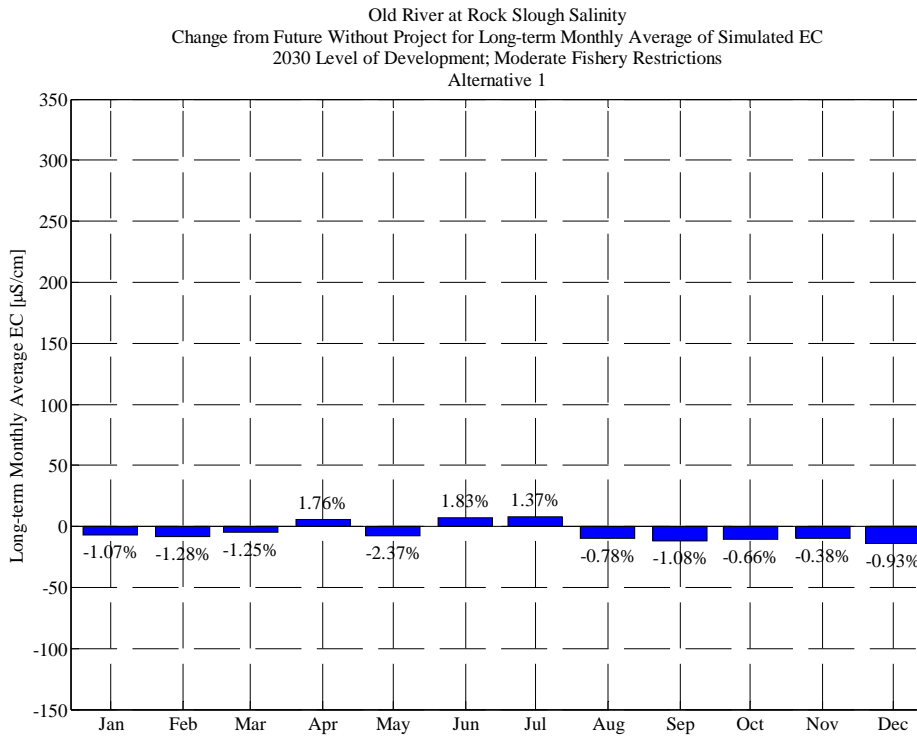
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	290	338	601	738	557	313	296	362	639	826	804	1,009
1977	1,047	925	1,016	796	786	468	443	508	707	745	762	923
1978	1,228	1,295	808	430	366	399	406	320	262	242	396	804
1979	896	915	950	634	340	286	323	300	231	261	464	847
1980	1,030	742	521	342	427	417	392	318	285	258	316	653
1981	830	798	1,029	657	267	243	319	338	297	508	639	832
1982	1,002	658	221	337	325	313	247	229	238	255	316	301
1983	194	228	339	455	358	285	328	277	254	267	208	191
1984	195	224	321	362	279	240	310	318	246	242	336	743
1985	834	517	237	243	270	275	365	366	295	513	661	903
1986	971	868	913	500	417	354	349	255	257	273	315	550
1987	633	724	982	841	411	297	361	347	357	545	677	847
1988	965	892	1,019	736	314	291	331	340	442	545	829	1,083
1989	1,053	973	1,032	646	663	364	295	261	250	576	687	982
1990	1,002	920	925	573	291	273	318	318	461	767	832	868
1991	1,069	1,031	1,029	1,054	1,022	542	312	289	445	719	793	875
<b>Avg</b>	827	753	747	584	443	335	337	322	354	471	565	776
<b>W/AN/BN</b>	788	704	582	437	359	328	336	288	253	257	336	584
<b>D/C</b>	858	791	875	698	509	341	338	348	433	638	743	925

**Percent (%) Change from Future Without Project for Old River at Rock Slough Salinity****(Alternative 1 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	4.7%	12.2%	9.9%	4.5%	1.5%	0.0%	0.0%	-1.2%	-2.5%	-1.2%	-0.3%	-3.4%
1977	-6.2%	-6.3%	-6.2%	-6.0%	-4.0%	0.5%	0.2%	0.9%	3.7%	19.3%	-5.0%	-6.8%
1978	-3.4%	-0.4%	1.5%	0.2%	0.1%	0.1%	0.2%	-5.0%	-2.2%	0.0%	16.6%	14.2%
1979	2.9%	1.2%	0.5%	-0.5%	-1.7%	-3.0%	-1.2%	-6.0%	-1.3%	-2.8%	-3.1%	-0.4%
1980	-0.3%	2.4%	3.4%	-1.9%	-1.8%	-1.1%	2.1%	-7.2%	-0.3%	0.6%	0.1%	-0.3%
1981	-0.5%	-1.1%	-2.7%	-2.6%	-2.6%	-2.1%	-0.8%	-6.6%	1.9%	-3.7%	-2.2%	0.0%
1982	0.2%	0.2%	-0.4%	0.2%	0.4%	-0.1%	-0.5%	-2.9%	0.1%	0.5%	0.2%	0.0%
1983	-0.1%	-0.1%	-1.1%	-1.5%	-0.2%	-0.1%	-0.7%	-1.0%	-0.1%	-1.6%	-0.3%	0.0%
1984	0.1%	0.0%	-0.3%	-0.4%	-0.1%	-0.1%	0.1%	-3.4%	-0.5%	-0.8%	-0.1%	0.6%
1985	0.0%	-0.2%	0.3%	2.3%	0.9%	0.0%	1.5%	-6.5%	-0.5%	-3.9%	-1.7%	-1.0%
1986	0.0%	1.1%	0.3%	-0.5%	1.8%	-1.0%	1.6%	-5.7%	-0.3%	0.2%	-2.9%	-3.7%
1987	-1.6%	-0.7%	-0.7%	-1.5%	-3.5%	-0.4%	4.3%	-3.2%	8.9%	1.1%	-1.5%	-0.2%
1988	0.4%	0.7%	0.6%	0.3%	1.5%	-2.5%	0.8%	3.4%	20.1%	11.9%	0.8%	-0.5%
1989	-0.3%	-2.6%	-4.7%	-6.4%	-8.3%	-5.1%	9.3%	0.3%	2.3%	6.6%	-0.3%	3.0%
1990	2.4%	-3.7%	-5.9%	-5.5%	-2.5%	0.7%	7.7%	3.7%	-0.1%	-2.0%	-6.7%	-12.3%
1991	-8.8%	-8.5%	-9.4%	2.2%	-2.2%	-6.0%	3.7%	2.4%	0.1%	-2.3%	-6.1%	-6.3%
<b>Avg</b>	-0.7%	-0.4%	-0.9%	-1.1%	-1.3%	-1.3%	1.8%	-2.4%	1.8%	1.4%	-0.8%	-1.1%
<b>W/AN/BN</b>	-0.1%	0.6%	0.6%	-0.6%	-0.2%	-0.7%	0.2%	-4.5%	-0.7%	-0.6%	1.5%	1.5%
<b>D/C</b>	-1.1%	-1.1%	-2.1%	-1.4%	-2.1%	-1.6%	3.0%	-0.8%	3.8%	2.9%	-2.6%	-3.1%

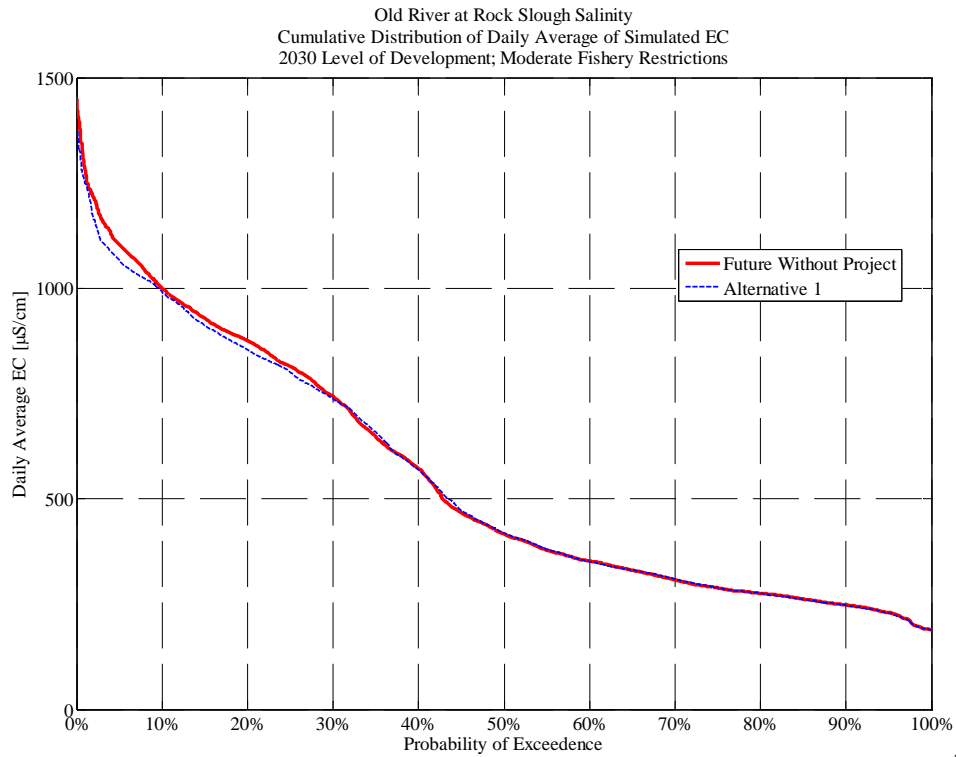
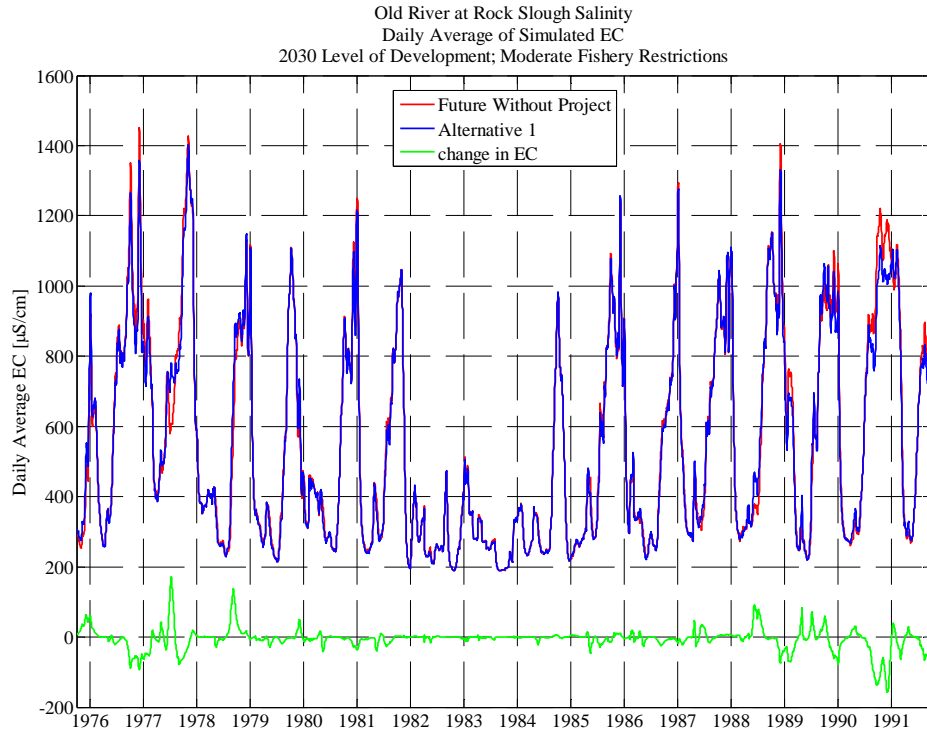


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**Alternative 2**

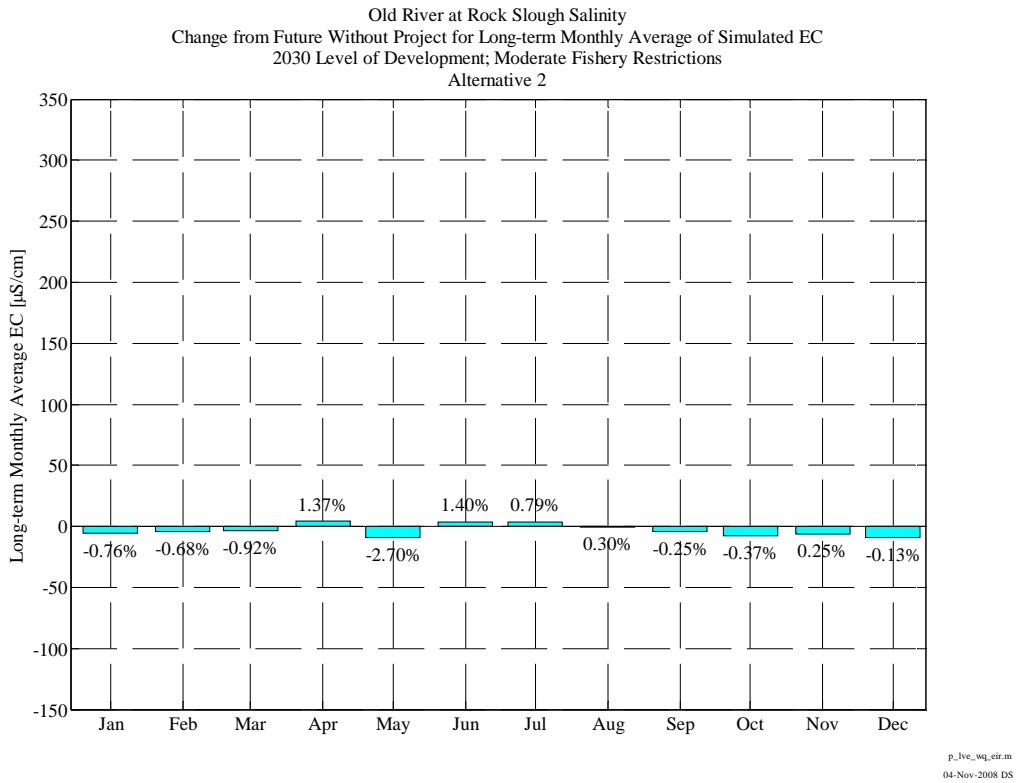
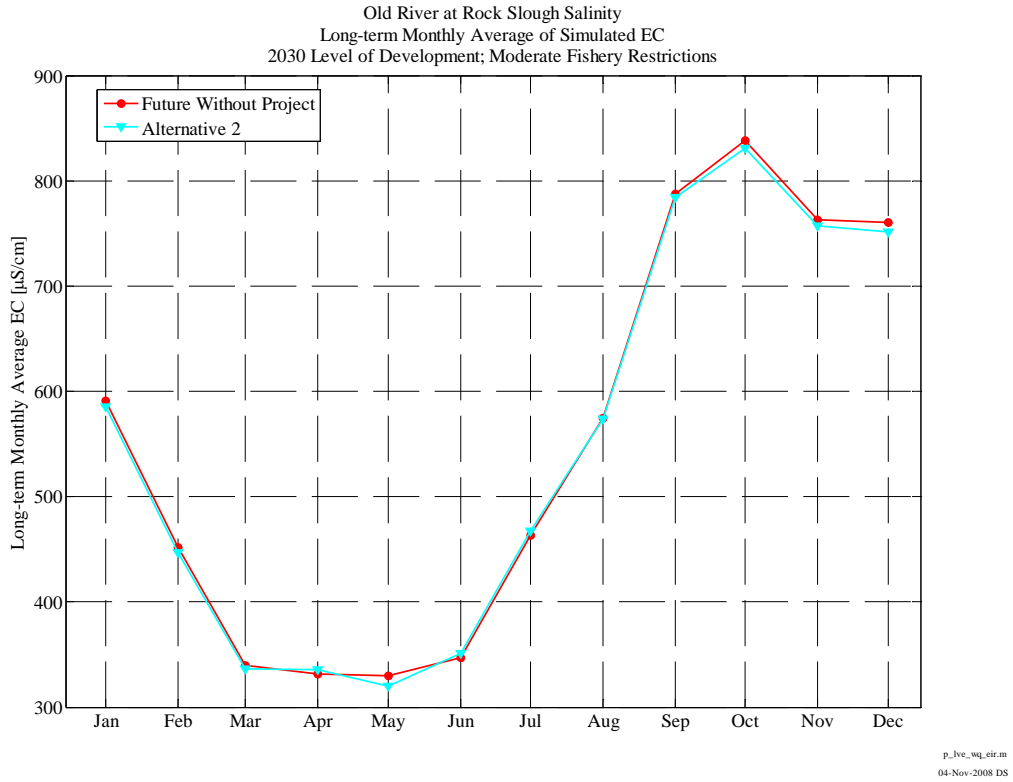
**Old River at Rock Slough Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 2**

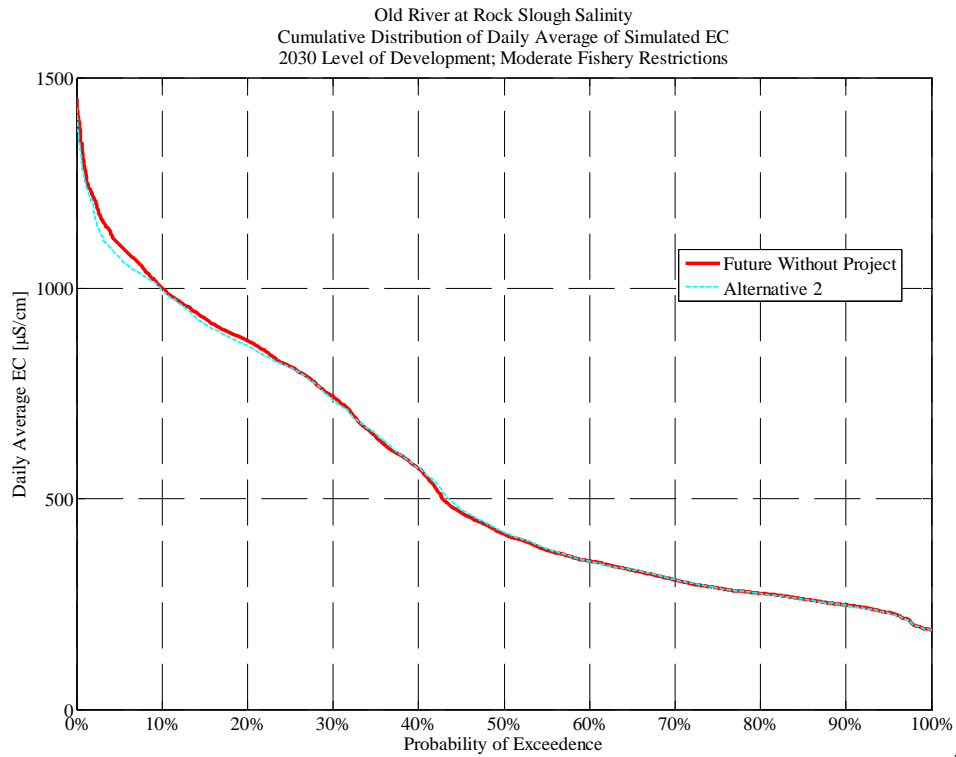
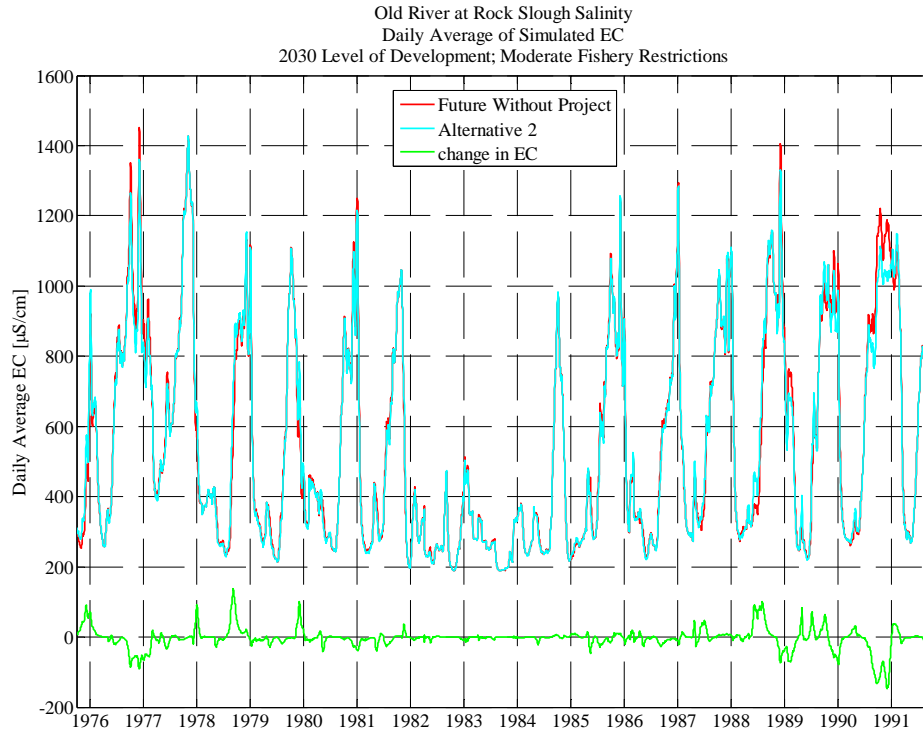
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	291	348	619	744	558	314	296	362	640	826	804	1,010
1977	1,048	926	1,016	793	784	468	435	498	657	625	803	984
1978	1,267	1,301	825	458	365	399	406	320	262	242	396	804
1979	896	916	951	624	338	286	323	300	231	261	464	847
1980	1,030	762	552	344	426	417	392	318	286	259	316	653
1981	830	798	1,029	653	266	242	319	338	297	508	640	832
1982	1,002	674	223	331	321	312	247	229	238	255	316	301
1983	193	228	337	454	358	285	328	277	254	267	208	191
1984	195	224	321	362	278	240	310	318	246	242	336	743
1985	833	519	238	246	273	274	365	366	295	513	661	903
1986	971	868	913	497	417	354	349	255	254	272	313	548
1987	632	724	982	849	433	299	361	347	361	560	680	849
1988	967	893	1,020	733	313	291	331	340	443	569	885	1,103
1989	1,059	974	1,032	646	663	364	295	261	250	576	687	984
1990	1,007	923	926	570	296	274	318	317	460	767	833	873
1991	1,068	1,030	1,037	1,062	1,066	566	299	281	447	737	837	919
<b>Avg</b>	831	757	751	585	447	337	336	320	351	467	574	784
<b>W/AN/BN</b>	794	710	589	438	358	328	336	288	253	257	336	584
<b>D/C</b>	860	793	878	700	517	344	335	346	428	631	759	940

**Percent (%) Change from Future Without Project for Old River at Rock Slough Salinity  
(Alternative 2 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	5.3%	15.7%	13.1%	5.3%	1.7%	0.6%	0.1%	-1.2%	-2.4%	-1.2%	-0.3%	-3.3%
1977	-6.1%	-6.2%	-6.2%	-6.3%	-4.1%	0.7%	-1.5%	-1.2%	-3.6%	0.0%	0.0%	-0.7%
1978	-0.3%	0.1%	3.6%	6.7%	0.0%	0.1%	0.1%	-5.0%	-2.2%	0.0%	16.5%	14.1%
1979	3.0%	1.3%	0.7%	-2.1%	-2.3%	-3.0%	-1.2%	-6.0%	-1.4%	-2.8%	-3.1%	-0.4%
1980	-0.3%	5.1%	9.4%	-1.2%	-2.0%	-1.1%	2.2%	-7.1%	-0.3%	0.6%	0.1%	-0.3%
1981	-0.5%	-1.1%	-2.7%	-3.2%	-2.9%	-2.2%	-0.8%	-6.6%	1.9%	-3.7%	-2.2%	0.0%
1982	0.2%	2.6%	0.5%	-1.6%	-0.7%	-0.1%	-0.5%	-2.9%	0.1%	0.6%	0.2%	0.0%
1983	-0.2%	-0.2%	-1.8%	-1.8%	-0.2%	-0.1%	-0.7%	-1.0%	-0.1%	-1.6%	-0.3%	0.0%
1984	0.1%	0.0%	-0.3%	-0.4%	-0.5%	-0.1%	0.1%	-3.4%	-0.5%	-0.8%	-0.1%	0.6%
1985	0.0%	0.2%	0.6%	3.5%	2.1%	-0.3%	1.4%	-6.6%	-0.5%	-3.9%	-1.7%	-1.0%
1986	0.0%	1.1%	0.4%	-1.1%	1.8%	-1.0%	1.7%	-5.7%	-1.5%	-0.1%	-3.3%	-4.0%
1987	-1.7%	-0.8%	-0.7%	-0.6%	1.7%	0.1%	4.3%	-3.2%	10.0%	3.9%	-1.1%	0.0%
1988	0.5%	0.8%	0.7%	-0.1%	1.4%	-2.5%	0.8%	3.4%	20.2%	16.7%	7.6%	1.3%
1989	0.3%	-2.4%	-4.7%	-6.4%	-8.3%	-5.1%	9.3%	0.3%	2.3%	6.6%	-0.2%	3.2%
1990	2.9%	-3.4%	-5.8%	-5.9%	-0.6%	1.2%	7.7%	3.4%	-0.2%	-2.0%	-6.5%	-11.8%
1991	-8.9%	-8.7%	-8.7%	2.9%	2.0%	-1.8%	-0.9%	-0.4%	0.5%	0.1%	-0.8%	-1.6%
<b>Avg</b>	-0.4%	0.3%	-0.1%	-0.8%	-0.7%	-0.9%	1.4%	-2.7%	1.4%	0.8%	0.3%	-0.2%
<b>W/AN/BN</b>	0.3%	1.4%	1.8%	-0.2%	-0.5%	-0.8%	0.2%	-4.5%	-0.8%	-0.6%	1.4%	1.4%
<b>D/C</b>	-0.9%	-0.7%	-1.6%	-1.2%	-0.8%	-1.0%	2.3%	-1.3%	3.1%	1.9%	-0.6%	-1.6%





**Alternative 3**

**Old River at Rock Slough Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )**

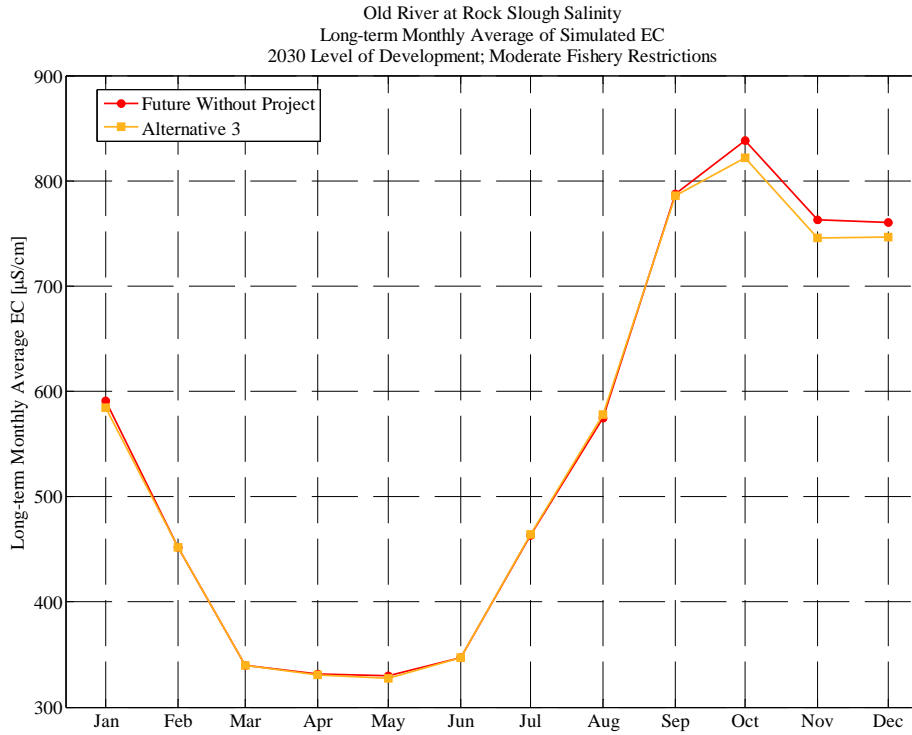
**Alternative 3****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	270	282	532	698	544	311	296	376	603	777	784	990
1977	1,026	895	1,007	804	793	486	439	504	707	762	768	942
1978	1,240	1,296	803	428	365	398	405	322	262	242	384	795
1979	914	918	946	636	341	288	323	302	236	282	530	889
1980	1,051	760	538	355	441	423	383	329	286	258	317	660
1981	839	808	1,064	678	275	248	322	345	290	513	681	857
1982	1,003	658	222	345	326	313	248	233	238	254	316	301
1983	194	228	343	462	358	285	331	279	255	271	208	191
1984	195	225	322	363	276	228	298	324	247	242	339	751
1985	849	528	237	238	267	275	360	375	294	516	664	905
1986	964	859	910	498	409	355	331	263	257	269	311	546
1987	638	729	990	911	548	296	329	372	315	514	707	866
1988	963	885	1,022	742	320	327	338	340	421	485	864	1,114
1989	1,051	958	1,028	642	658	367	285	286	252	592	711	946
1990	904	884	926	585	292	271	306	310	444	714	822	886
1991	1,049	1,022	1,055	973	1,016	570	300	282	446	736	844	934
<b>Avg</b>	822	746	746	585	452	340	331	328	347	464	578	786
<b>W/AN/BN</b>	794	706	583	441	360	327	331	293	254	259	343	590
<b>D/C</b>	843	777	873	697	524	350	331	354	419	623	761	938

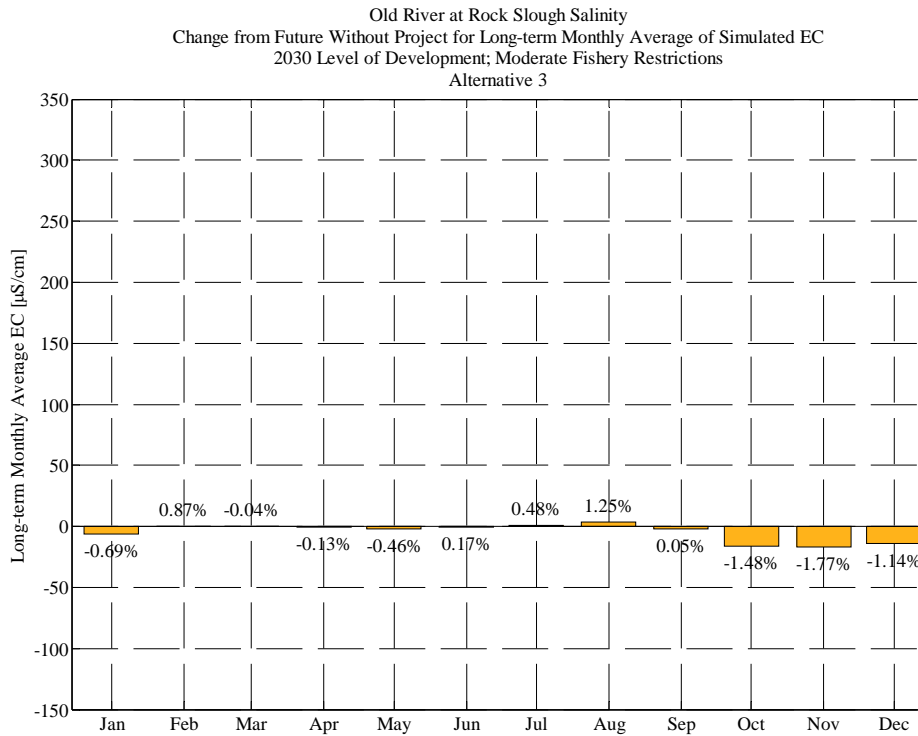
**Percent (%) Change from Future Without Project for Old River at Rock Slough Salinity  
(Alternative 3 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

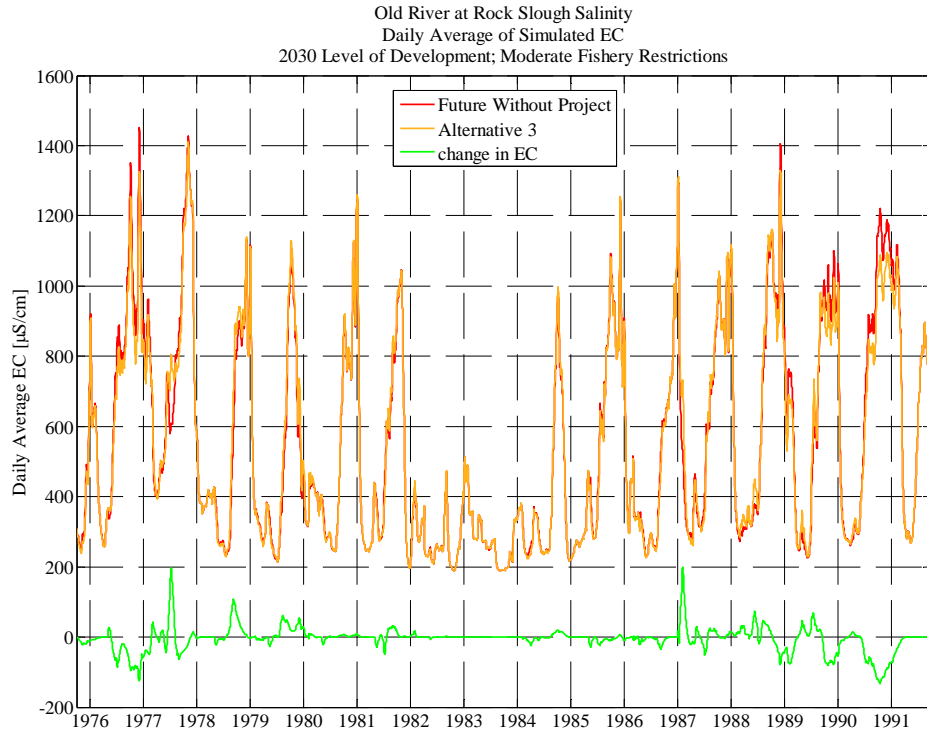
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-2.5%	-6.3%	-2.7%	-1.2%	-0.9%	-0.4%	-0.1%	2.6%	-8.1%	-7.1%	-2.8%	-5.2%
1977	-8.0%	-9.4%	-7.0%	-5.1%	-3.0%	4.5%	-0.8%	0.0%	3.8%	21.9%	-4.3%	-4.9%
1978	-2.5%	-0.3%	0.8%	-0.3%	0.0%	0.0%	0.0%	-4.2%	-2.1%	-0.2%	13.0%	12.9%
1979	5.0%	1.6%	0.1%	-0.1%	-1.4%	-2.5%	-1.0%	-5.4%	0.7%	5.2%	10.6%	4.4%
1980	1.7%	4.8%	6.7%	1.9%	1.5%	0.3%	-0.1%	-3.8%	-0.2%	0.3%	0.4%	0.8%
1981	0.5%	0.2%	0.6%	0.5%	0.1%	0.1%	0.1%	-4.4%	-0.5%	-2.9%	4.1%	3.0%
1982	0.3%	0.2%	-0.2%	2.4%	0.7%	0.0%	0.0%	-1.1%	0.1%	0.2%	0.2%	0.2%
1983	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	-0.2%	0.4%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	-1.2%	-5.1%	-3.8%	-1.6%	-0.1%	-0.9%	0.5%	1.8%
1985	1.9%	2.0%	0.5%	0.1%	0.1%	0.0%	0.0%	-4.3%	-0.8%	-3.3%	-1.2%	-0.8%
1986	-0.7%	0.0%	-0.1%	-0.9%	-0.2%	-0.9%	-3.5%	-3.0%	-0.1%	-1.2%	-3.9%	-4.3%
1987	-0.8%	0.0%	0.1%	6.7%	28.7%	-0.8%	-4.9%	3.9%	-4.0%	-4.6%	2.8%	2.0%
1988	0.1%	-0.2%	0.9%	1.1%	3.6%	9.5%	3.0%	3.3%	14.2%	-0.4%	5.0%	2.3%
1989	-0.5%	-4.1%	-5.1%	-6.9%	-9.1%	-4.3%	5.5%	9.8%	3.1%	9.6%	3.2%	-0.8%
1990	-7.6%	-7.5%	-5.8%	-3.5%	-2.2%	0.2%	3.6%	1.0%	-3.7%	-8.8%	-7.7%	-10.6%
1991	-10.6%	-9.4%	-7.1%	-5.7%	-2.8%	-1.2%	-0.3%	-0.1%	0.2%	0.0%	0.0%	-0.1%
<b>Avg</b>	-1.5%	-1.8%	-1.1%	-0.7%	0.9%	0.0%	-0.1%	-0.5%	0.2%	0.5%	1.2%	0.1%
<b>W/AN/BN</b>	0.5%	0.9%	1.1%	0.4%	-0.1%	-1.2%	-1.2%	-2.8%	-0.2%	0.5%	3.0%	2.3%
<b>D/C</b>	-3.1%	-3.8%	-2.8%	-1.6%	1.6%	0.9%	0.7%	1.3%	0.5%	0.5%	-0.1%	-1.7%



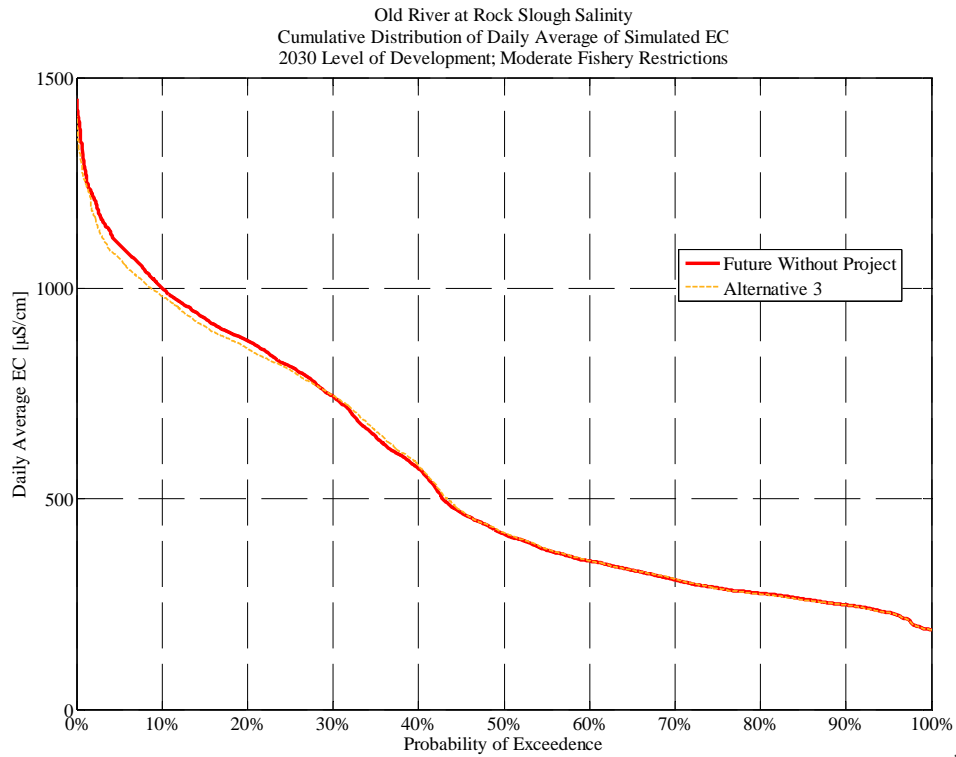
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04-Nov-2008 DS



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**Alternative 4**

**Old River at Rock Slough Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 4**

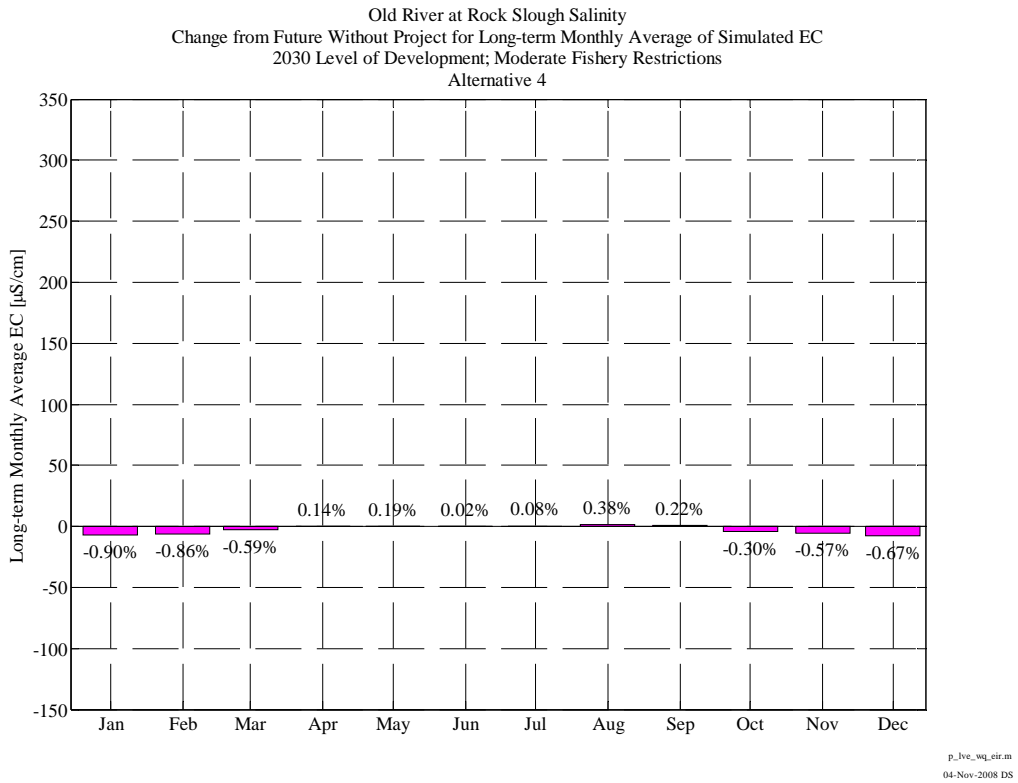
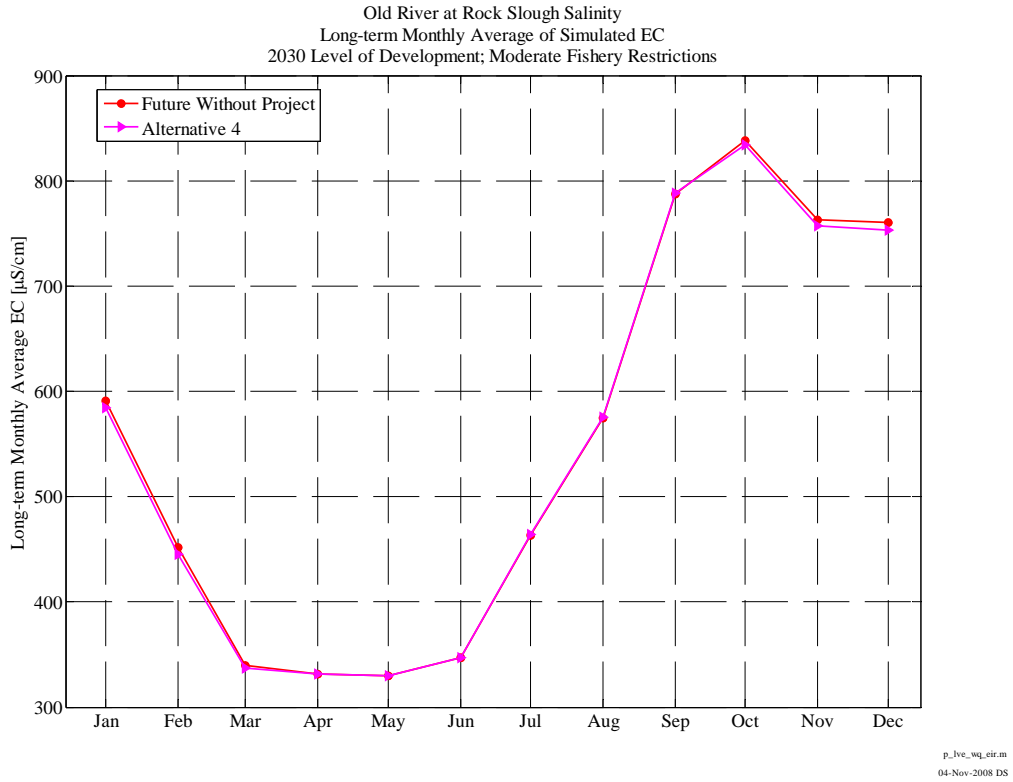
**2030 Level of Development; Moderate Fishery Restrictions**

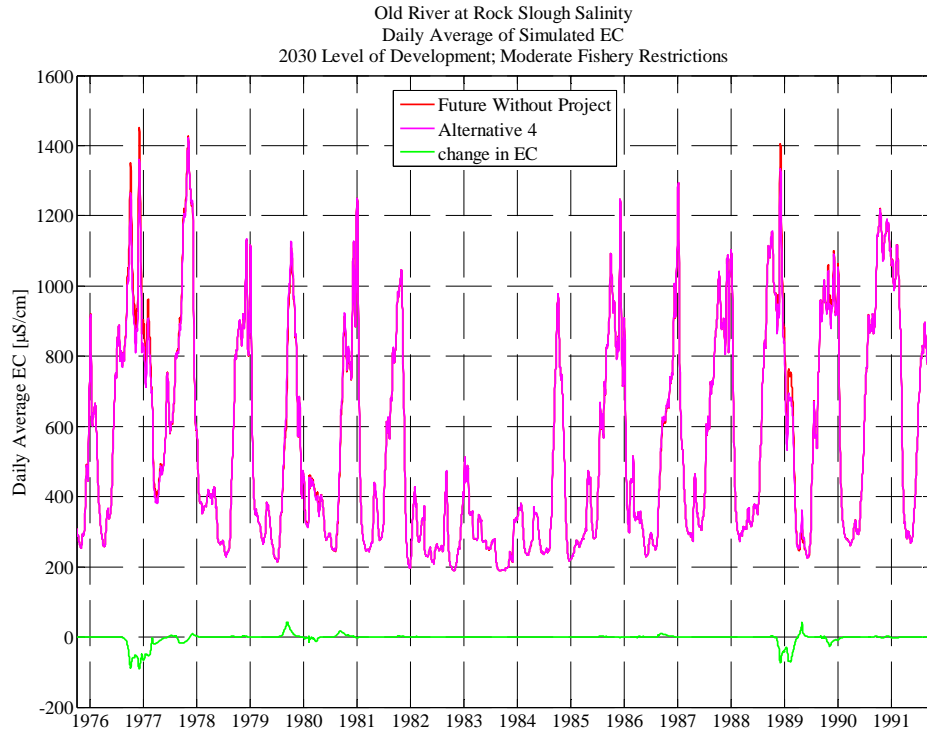
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	277	301	547	706	549	313	296	367	656	836	804	1,009
1977	1,048	927	1,016	793	780	448	429	499	681	628	799	974
1978	1,259	1,302	802	430	365	399	405	336	268	242	340	706
1979	871	906	946	637	346	295	327	319	235	269	494	886
1980	1,045	728	505	346	432	414	381	342	286	257	323	670
1981	842	809	1,058	674	274	248	322	361	291	528	654	832
1982	1,001	658	222	336	324	313	248	236	238	253	315	301
1983	194	228	343	462	358	285	331	280	254	271	209	191
1984	195	225	322	363	280	241	310	329	247	244	337	738
1985	833	518	236	238	267	275	360	392	296	536	674	912
1986	971	858	909	502	410	358	344	272	258	272	327	580
1987	649	732	991	855	425	299	346	358	328	539	688	849
1988	962	887	1,013	734	309	298	328	329	368	487	823	1,089
1989	1,057	974	1,032	645	663	369	285	270	246	540	689	953
1990	970	937	974	602	298	271	296	307	461	783	891	992
1991	1,173	1,127	1,138	1,030	1,044	576	301	282	445	736	844	934
<b>Avg</b>	834	757	753	585	445	338	332	330	347	464	576	789
<b>W/AN/BN</b>	791	701	578	439	359	329	335	302	255	258	335	582
<b>D/C</b>	868	801	889	697	512	344	329	352	419	624	763	949

**Percent (%) Change from Future Without Project for Old River at Rock Slough Salinity  
(Alternative 4 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

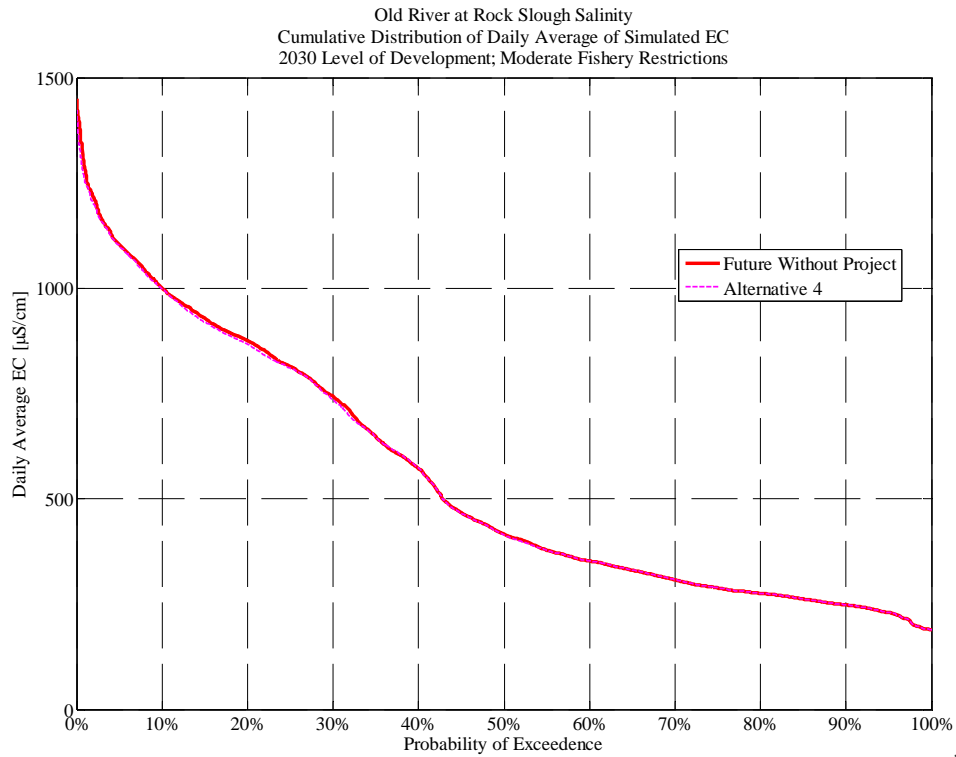
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	-3.4%
1977	-6.1%	-6.1%	-6.2%	-6.4%	-4.7%	-3.6%	-2.9%	-0.9%	0.0%	0.5%	-0.5%	-1.7%
1978	-1.0%	0.1%	0.7%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.2%	0.2%
1979	0.0%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	3.1%	4.1%
1980	1.2%	0.4%	0.1%	-0.8%	-0.8%	-1.8%	-0.8%	0.0%	0.0%	-0.1%	2.3%	2.3%
1981	0.9%	0.3%	0.0%	-0.1%	0.1%	0.1%	0.1%	0.0%	-0.1%	0.1%	0.1%	0.1%
1982	0.2%	0.2%	0.0%	-0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%
1985	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.2%	0.1%
1986	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.3%	0.4%	0.0%	0.0%	0.8%	1.6%
1987	0.9%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1989	0.1%	-2.5%	-4.8%	-6.4%	-8.3%	-4.0%	5.5%	3.7%	0.4%	0.0%	0.0%	-0.1%
1990	-0.9%	-2.0%	-0.9%	-0.7%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1991	0.0%	0.0%	0.2%	-0.2%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.3%	-0.6%	-0.7%	-0.9%	-0.9%	-0.6%	0.1%	0.2%	0.0%	0.1%	0.4%	0.2%
<b>W/AN/BN</b>	0.1%	0.1%	0.1%	-0.1%	-0.1%	-0.3%	-0.1%	0.0%	0.0%	0.0%	0.9%	1.2%
<b>D/C</b>	-0.6%	-1.1%	-1.3%	-1.5%	-1.5%	-0.8%	0.3%	0.3%	0.0%	0.1%	-0.1%	-0.5%







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## Barker Slough at North Bay Aqueduct

### *Future Without Project*

#### Barker Slough at North Bay Aqueduct Salinity Monthly Average of Simulated Values (EC, $\mu\text{S/cm}$ )

#### Future Without Project

#### 2030 Level of Development; Moderate Fishery Restrictions

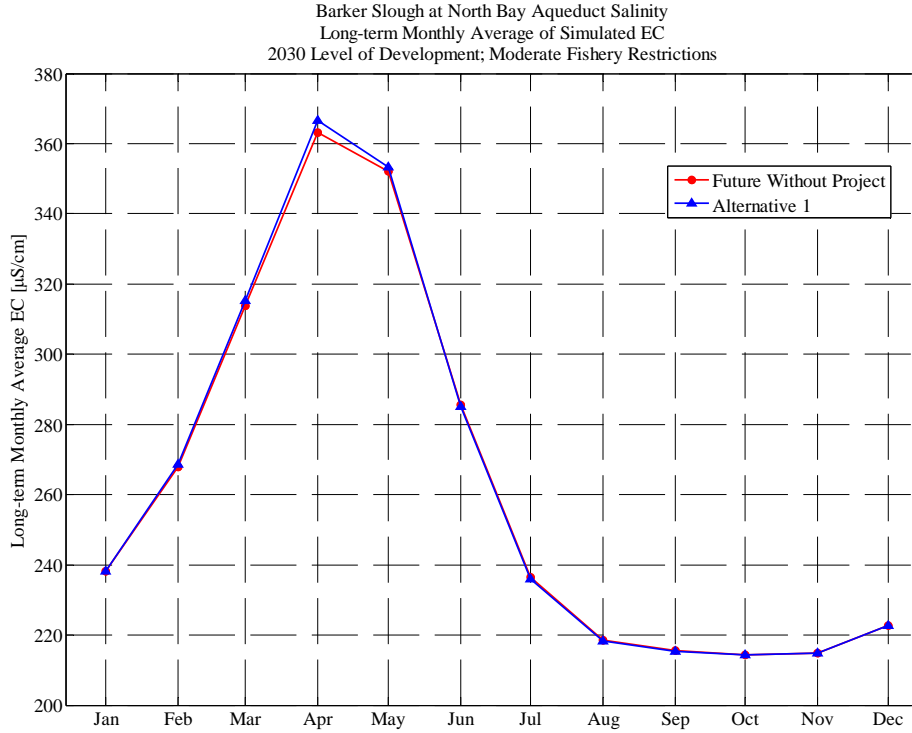
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	210	201	208	219	238	253	262	240	223	215	208	207
1977	211	214	215	216	216	216	216	249	266	256	243	234
1978	232	231	232	232	232	356	565	451	286	222	210	210
1979	211	214	215	217	220	232	245	406	360	248	215	213
1980	212	207	209	242	322	445	532	365	262	222	211	212
1981	213	214	221	226	253	280	283	308	294	249	224	218
1982	217	224	237	269	396	538	585	515	329	232	214	212
1983	209	210	244	300	358	471	653	554	340	236	210	210
1984	209	211	220	256	337	358	322	261	228	217	211	212
1985	215	213	246	289	312	323	326	327	278	231	215	212
1986	213	214	223	235	259	349	548	477	305	235	216	215
1987	215	216	220	222	236	249	251	284	282	239	217	214
1988	216	216	217	223	244	280	304	342	289	241	221	218
1989	221	224	225	225	225	225	267	278	235	216	209	208
1990	208	205	208	213	216	221	227	300	287	247	226	220
1991	222	224	225	225	225	226	228	277	306	276	246	236
<b>Avg</b>	214	215	223	238	268	314	363	352	286	236	218	216
<b>W/AN/BN</b>	215	216	226	250	303	393	493	433	302	230	212	212
<b>D/C</b>	214	214	221	229	240	253	263	289	273	241	223	218

**Alternative 1****Barker Slough at North Bay Aqueduct Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )****Alternative 1****2030 Level of Development; Moderate Fishery Restrictions**

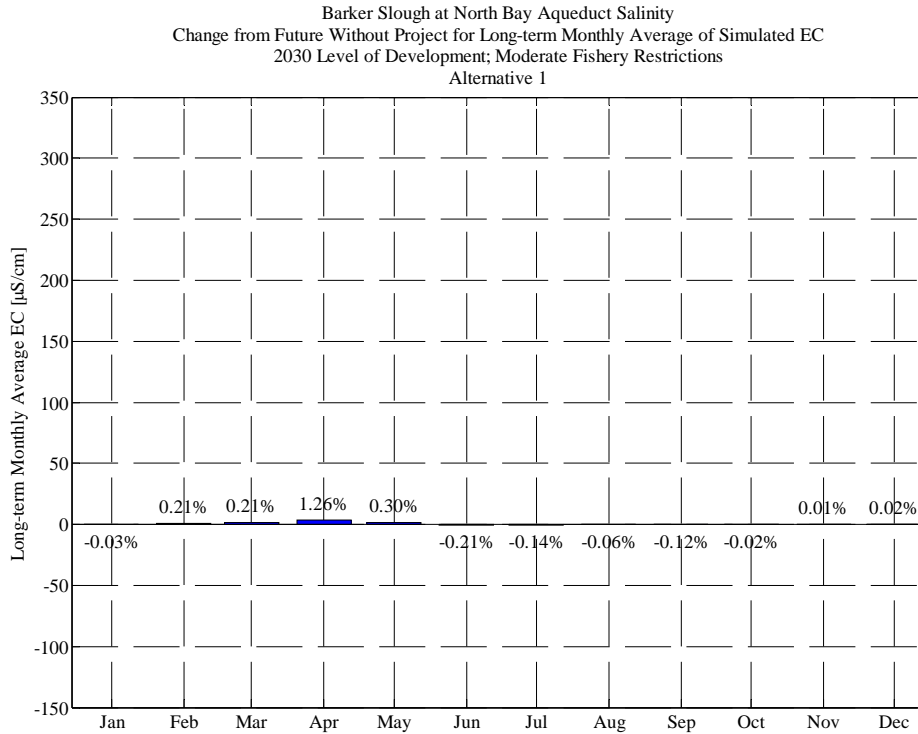
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	210	202	208	219	237	252	261	239	223	215	208	207
1977	211	214	215	216	216	216	216	249	266	256	243	234
1978	232	231	232	233	233	362	568	451	286	222	209	210
1979	211	214	215	217	218	224	290	425	353	246	215	213
1980	212	207	209	242	336	472	541	366	262	222	211	212
1981	213	214	221	226	253	280	283	308	294	248	224	218
1982	217	223	237	270	397	538	585	515	330	232	214	212
1983	209	210	244	299	357	471	653	554	340	236	210	210
1984	209	211	220	255	337	358	322	261	228	217	211	212
1985	215	213	247	289	312	323	327	327	276	231	215	212
1986	213	215	223	235	257	346	546	478	306	235	216	215
1987	215	216	220	222	236	250	252	284	281	238	217	214
1988	216	216	217	223	245	280	304	342	288	241	221	218
1989	221	223	224	224	225	225	267	278	235	216	209	208
1990	208	205	209	213	216	221	227	301	285	245	224	219
1991	221	223	224	224	225	225	227	276	306	276	246	232
<b>Avg</b>	214	215	223	238	269	315	367	353	285	236	218	215
<b>W/AN/BN</b>	215	216	226	250	305	396	501	436	301	230	212	212
<b>D/C</b>	214	214	221	229	240	252	263	289	273	241	223	218

**Percent (%) Change from Future Without Project for Barker Slough at North Bay Aqueduct  
(Alternative 1 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

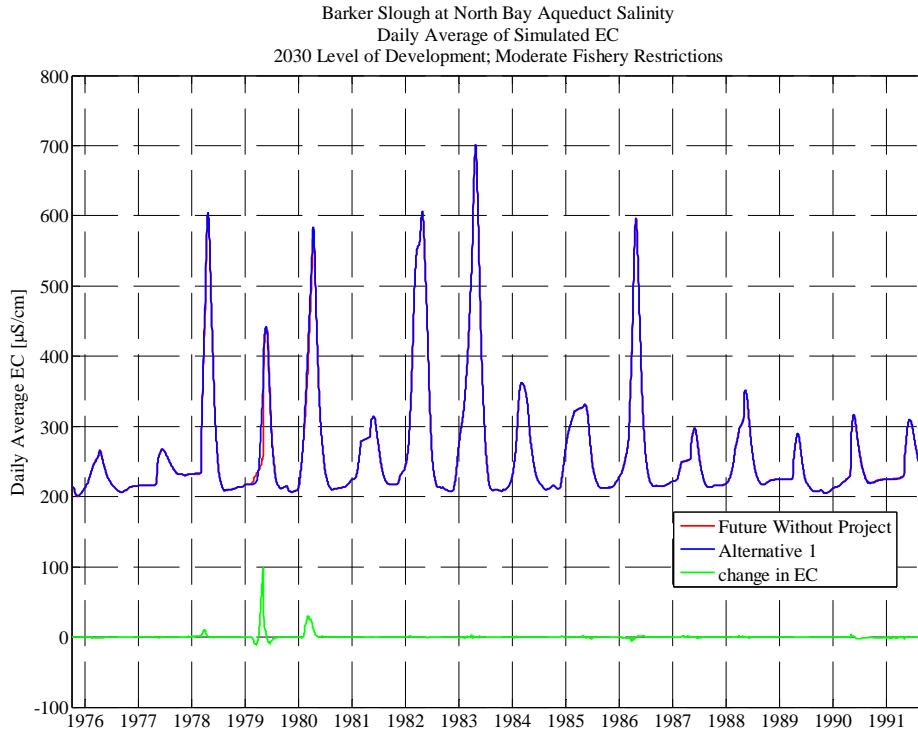
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.2%	0.2%	0.0%	-0.2%	-0.3%	-0.4%	-0.2%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.2%	0.1%
1978	0.1%	0.1%	0.3%	0.3%	0.3%	1.8%	0.5%	-0.1%	-0.1%	0.0%	-0.1%	-0.1%
1979	0.0%	0.0%	0.0%	0.0%	-0.8%	-3.5%	18.4%	4.9%	-2.0%	-0.9%	-0.2%	0.0%
1980	-0.1%	0.0%	0.0%	-0.2%	4.6%	5.9%	1.6%	0.2%	0.2%	0.1%	0.0%	0.0%
1981	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	-0.1%	-0.1%	0.0%	0.0%
1982	0.0%	0.0%	-0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
1983	0.0%	0.0%	0.1%	-0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.1%	-0.1%	0.0%	0.0%	0.2%	-0.1%	-0.5%	-0.2%	0.0%	0.0%
1986	0.0%	0.0%	-0.1%	-0.2%	-0.6%	-0.7%	-0.4%	0.2%	0.2%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%	0.3%	0.0%	-0.3%	-0.2%	-0.1%	0.0%
1988	0.0%	0.1%	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	-0.1%	0.0%	-0.1%	-0.1%
1989	-0.1%	-0.2%	-0.2%	-0.2%	-0.1%	-0.1%	0.0%	-0.1%	-0.1%	-0.1%	-0.1%	0.0%
1990	0.1%	0.1%	0.1%	0.0%	0.0%	-0.1%	-0.1%	0.4%	-0.6%	-0.7%	-0.6%	-0.2%
1991	-0.3%	-0.3%	-0.3%	-0.3%	-0.2%	-0.3%	-0.2%	-0.1%	0.0%	-0.1%	0.0%	-1.7%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	1.3%	0.3%	-0.2%	-0.1%	-0.1%	-0.1%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.5%	0.5%	2.9%	0.7%	-0.2%	-0.1%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.2%	-0.1%	-0.2%



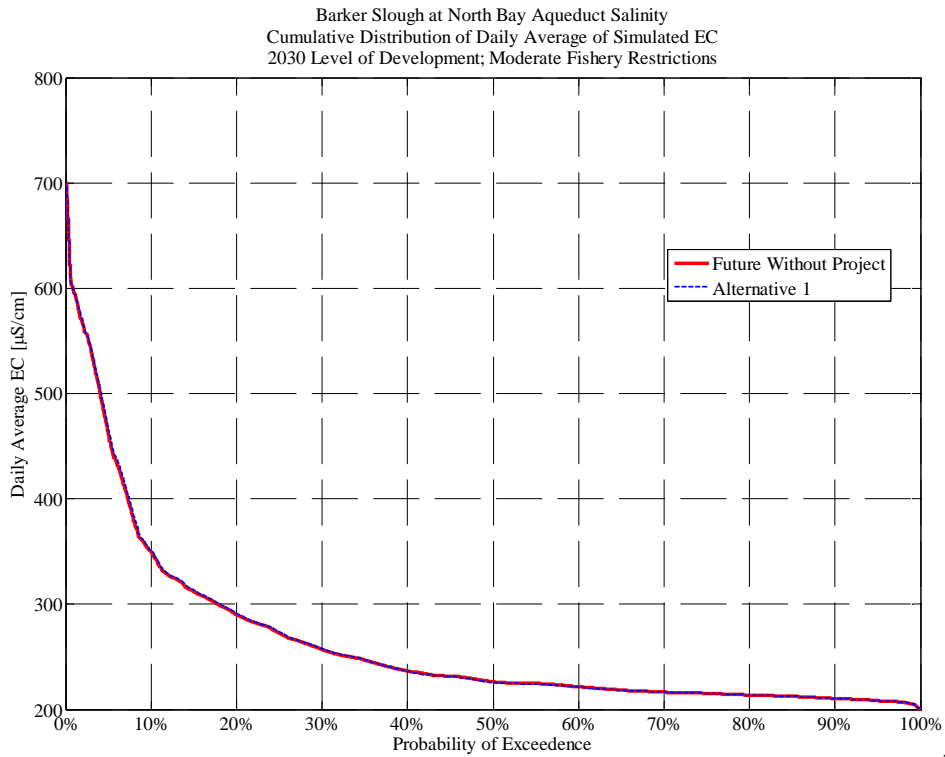
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04-Nov-2008 DS



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04-Nov-2008 DS



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04-Nov-2008 DS



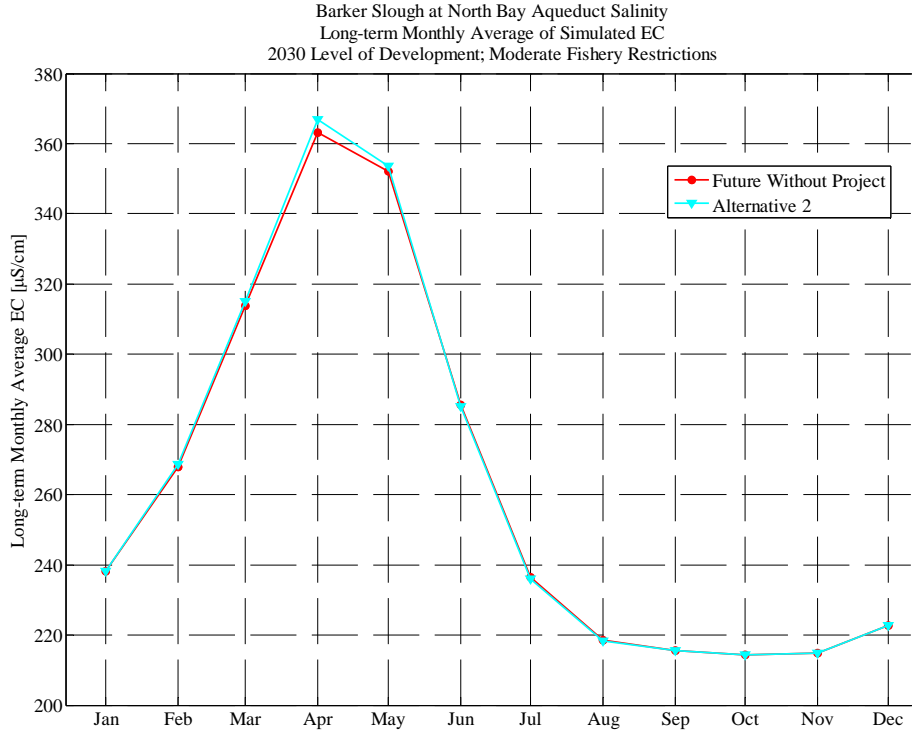
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**Alternative 2****Barker Slough at North Bay Aqueduct Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 2****2030 Level of Development; Moderate Fishery Restrictions**

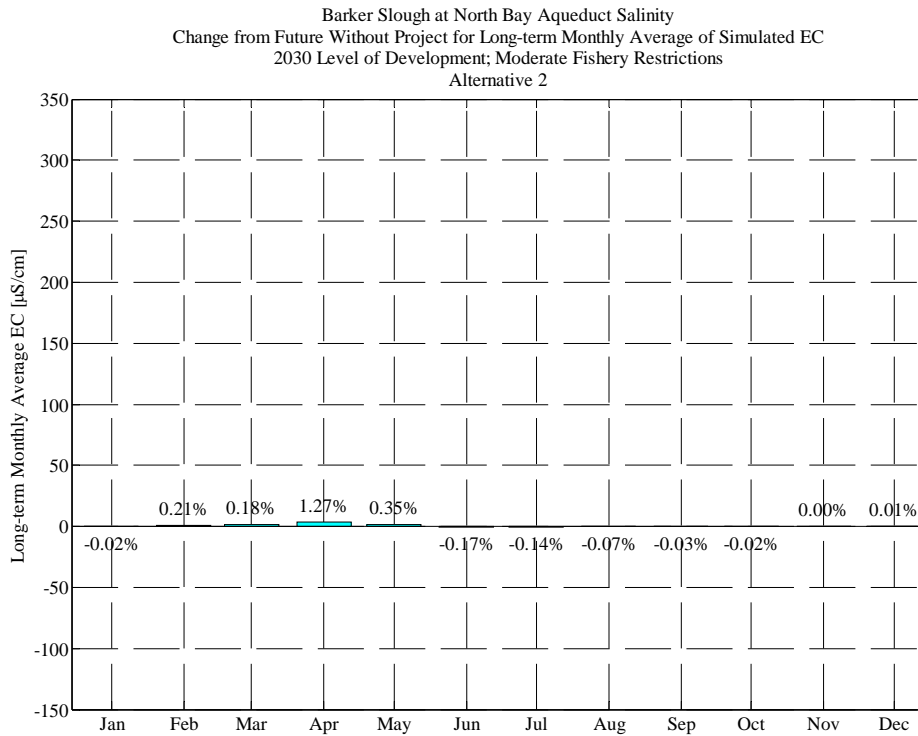
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	210	202	208	219	237	252	261	239	223	215	208	207
1977	211	214	215	216	216	216	216	249	266	257	243	234
1978	232	231	232	233	233	361	568	452	286	222	209	210
1979	211	213	215	217	218	224	290	425	353	246	215	213
1980	212	207	209	242	336	471	541	366	262	222	211	212
1981	213	214	221	226	253	280	283	308	294	248	224	218
1982	217	223	237	270	397	538	584	515	330	232	214	212
1983	209	210	244	300	358	471	653	554	340	236	210	210
1984	209	211	220	255	337	358	322	261	228	217	211	212
1985	215	213	247	289	312	323	326	327	276	231	215	212
1986	213	215	223	235	257	346	546	478	306	235	216	215
1987	215	216	220	222	236	250	252	285	282	239	217	214
1988	216	216	217	223	245	280	304	342	288	241	221	218
1989	221	223	224	224	225	225	267	278	235	216	209	208
1990	208	205	209	213	216	221	227	302	285	245	224	219
1991	221	223	224	225	225	225	227	276	306	276	245	236
<b>Avg</b>	214	215	223	238	269	315	367	354	285	236	218	216
<b>W/AN/BN</b>	215	216	226	250	305	396	501	436	301	230	212	212
<b>D/C</b>	214	214	221	229	240	253	263	289	273	241	223	218

**Percent (%) Change from Future Without Project for Barker Slough at North Bay  
(Alternative 2 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.2%	0.2%	0.0%	-0.2%	-0.3%	-0.4%	-0.2%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.1%	0.1%
1978	0.1%	0.1%	0.2%	0.2%	0.2%	1.4%	0.5%	0.0%	-0.1%	0.0%	-0.1%	-0.1%
1979	0.0%	0.0%	0.0%	0.0%	-0.8%	-3.5%	18.3%	4.8%	-2.0%	-0.9%	-0.2%	0.0%
1980	-0.1%	0.0%	0.0%	-0.2%	4.5%	5.8%	1.7%	0.2%	0.2%	0.1%	0.0%	0.0%
1981	0.0%	0.0%	-0.1%	0.0%	0.0%	0.1%	0.2%	0.1%	-0.2%	-0.1%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
1983	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.2%	-0.1%	-0.5%	-0.2%	0.0%	0.0%
1986	0.0%	0.0%	-0.1%	-0.2%	-0.6%	-0.7%	-0.3%	0.2%	0.3%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.2%	0.3%	0.1%	-0.1%	-0.1%	0.0%
1988	0.0%	0.1%	0.0%	0.0%	0.1%	0.2%	0.1%	0.0%	-0.1%	0.0%	-0.1%	-0.1%
1989	-0.1%	-0.2%	-0.2%	-0.2%	-0.1%	-0.1%	0.0%	-0.1%	-0.1%	-0.1%	-0.1%	0.0%
1990	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.6%	-0.4%	-0.7%	-0.6%	-0.1%
1991	-0.3%	-0.3%	-0.2%	-0.2%	-0.2%	-0.2%	-0.2%	-0.1%	0.1%	-0.2%	-0.2%	-0.1%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	1.3%	0.3%	-0.2%	-0.1%	-0.1%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.5%	0.4%	2.9%	0.7%	-0.2%	-0.1%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.2%	-0.1%	0.0%

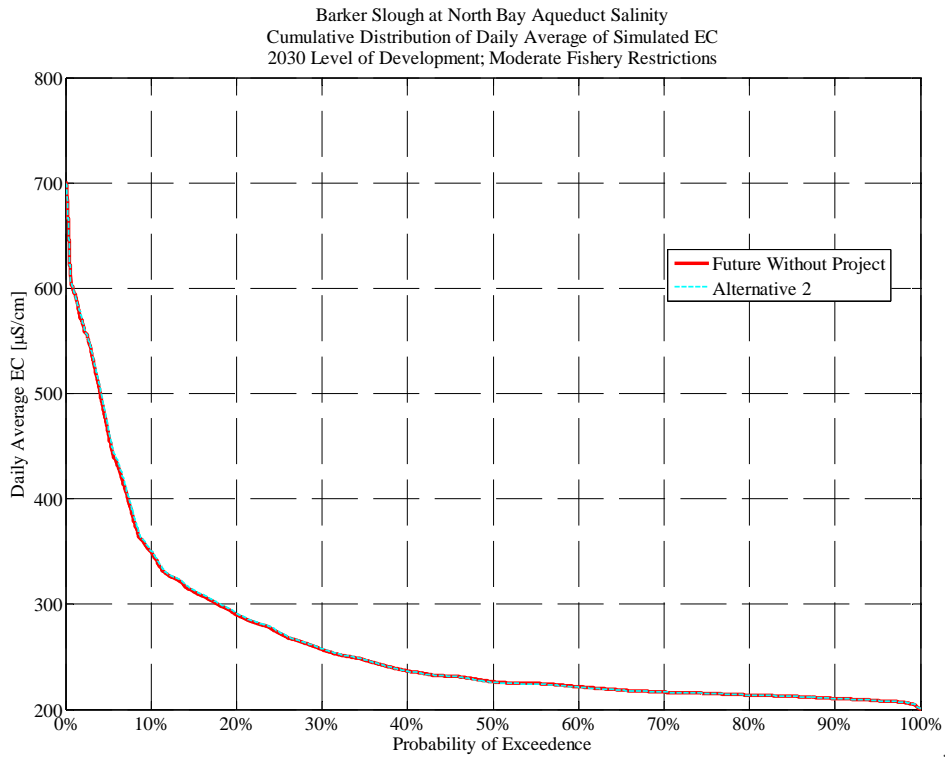
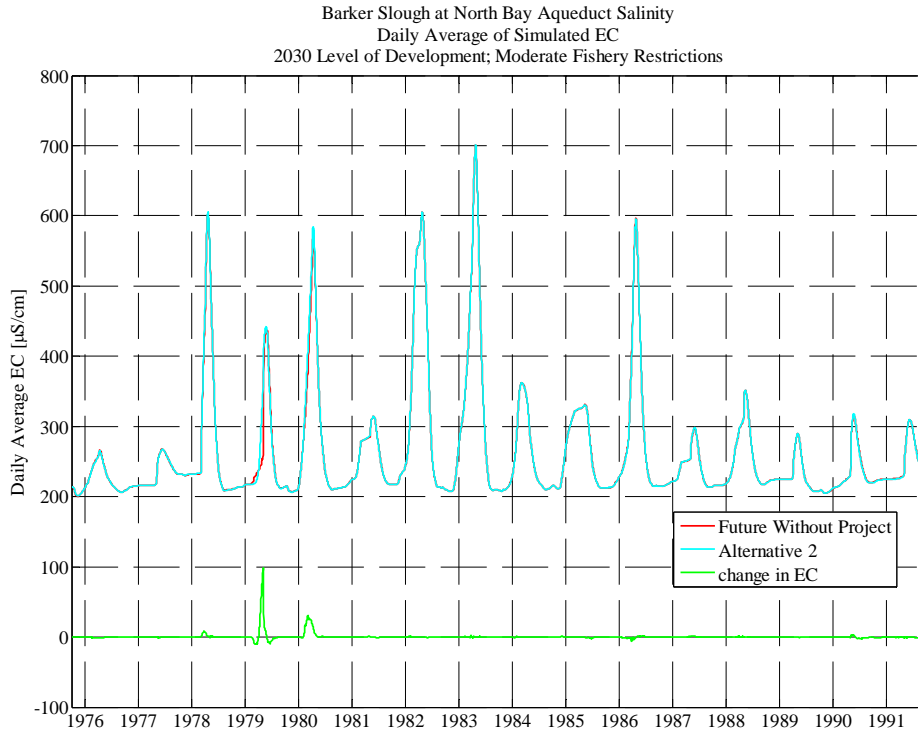


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**Alternative 3**

**Barker Slough at North Bay Aqueduct Salinity  
Monthly Average of Simulated Values (EC, µS/cm)**

**Alternative 3**

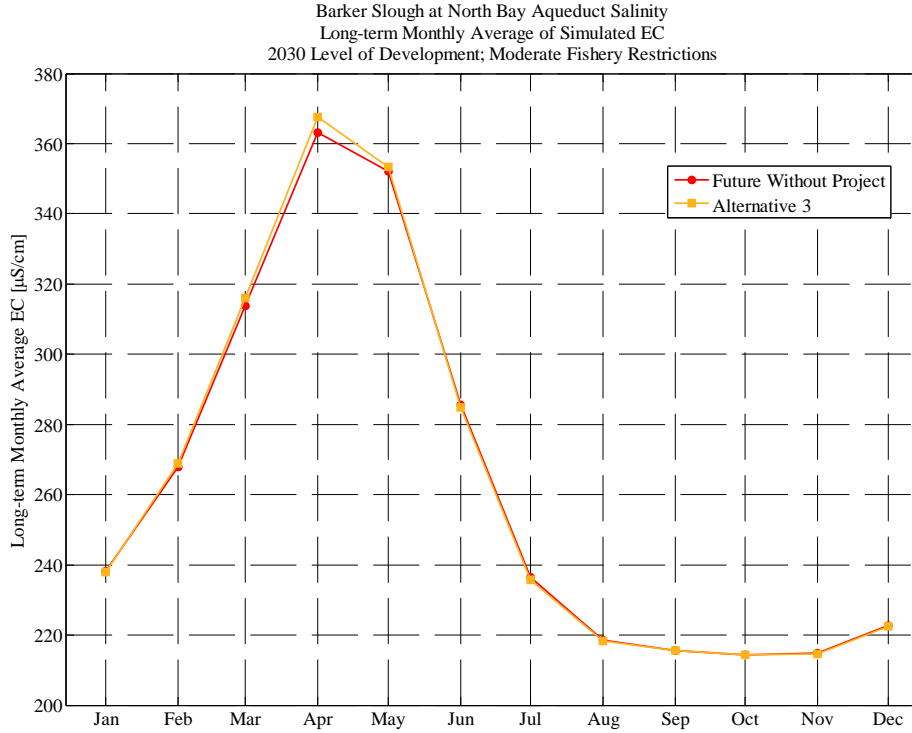
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	211	202	208	219	237	253	262	240	223	215	208	207
1977	211	214	215	216	216	216	216	249	266	256	243	234
1978	231	230	232	232	233	363	568	449	285	222	209	210
1979	211	213	215	217	218	222	291	425	352	245	215	213
1980	212	207	209	241	336	471	541	366	262	222	211	212
1981	213	214	221	226	253	280	283	308	294	249	224	218
1982	217	223	237	269	396	538	585	515	329	232	214	212
1983	209	210	244	300	358	471	653	554	340	236	210	210
1984	209	211	220	256	337	358	322	261	228	217	211	212
1985	214	213	246	289	312	323	326	326	275	231	215	212
1986	213	214	223	235	257	347	547	476	305	235	216	215
1987	215	216	220	222	238	253	255	288	280	235	215	212
1988	214	214	215	222	248	288	311	344	289	241	222	218
1989	221	224	224	224	225	225	267	278	236	216	209	208
1990	208	205	208	213	216	221	227	300	287	247	226	220
1991	222	224	225	225	225	226	228	276	305	276	245	236
<b>Avg</b>	214	215	223	238	269	316	368	353	285	236	218	216
<b>W/AN/BN</b>	214	216	226	250	305	396	501	435	300	230	212	212
<b>D/C</b>	214	214	220	228	241	254	264	290	273	241	223	218

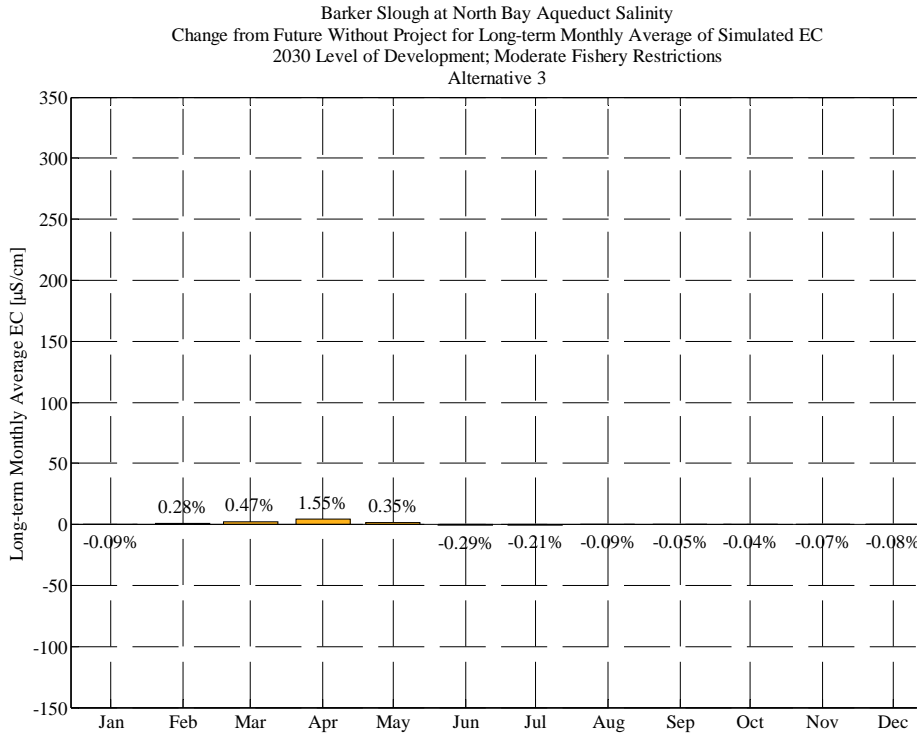
**Percent (%) Change from Future Without Project for Barker Slough at North Bay  
(Alternative 3 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

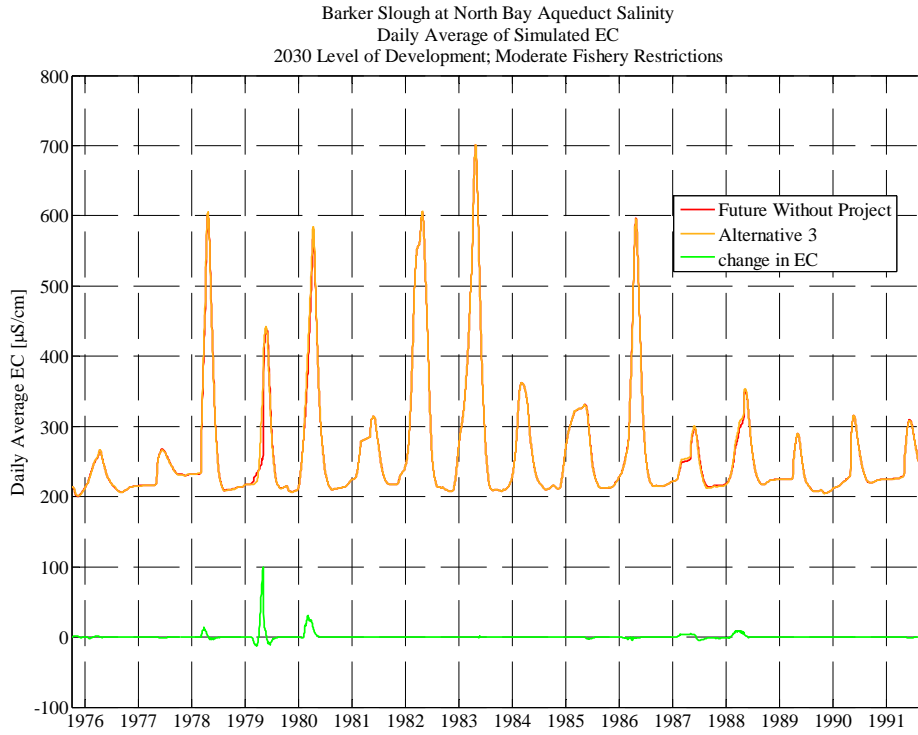
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.3%	0.3%	-0.2%	-0.2%	-0.4%	0.3%	0.1%	0.0%	0.1%	0.2%	0.0%	0.1%
1977	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.3%	-0.2%	-0.1%	-0.1%
1978	-0.2%	0.0%	0.1%	0.1%	0.2%	2.2%	0.6%	-0.5%	-0.5%	-0.2%	-0.2%	-0.2%
1979	-0.1%	-0.1%	-0.1%	0.0%	-0.9%	-4.0%	19.0%	4.8%	-2.3%	-1.0%	-0.2%	-0.1%
1980	-0.1%	0.0%	0.0%	-0.3%	4.4%	5.7%	1.7%	0.3%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.1%	0.0%	-0.3%	-0.9%	-0.3%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	-0.2%	-0.6%	-0.6%	-0.3%	-0.2%	0.0%	0.0%	0.0%	0.0%
1987	0.1%	0.0%	0.0%	0.0%	0.9%	1.5%	1.5%	1.4%	-0.7%	-1.8%	-1.1%	-0.5%
1988	-0.6%	-0.8%	-0.7%	-0.3%	1.3%	2.8%	2.4%	0.6%	0.0%	0.1%	0.1%	0.1%
1989	0.0%	-0.1%	-0.2%	-0.2%	-0.2%	-0.2%	0.0%	0.0%	0.1%	0.0%	-0.1%	0.0%
1990	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	0.0%	-0.1%	0.0%	0.1%	0.1%	0.1%
1991	0.0%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.2%	-0.3%	-0.2%	-0.1%	-0.1%
<b>Avg</b>	0.0%	-0.1%	-0.1%	-0.1%	0.3%	0.5%	1.6%	0.4%	-0.3%	-0.2%	-0.1%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	-0.1%	0.4%	0.5%	3.0%	0.6%	-0.4%	-0.2%	-0.1%	0.0%
<b>D/C</b>	0.0%	-0.1%	-0.1%	-0.1%	0.2%	0.5%	0.4%	0.1%	-0.2%	-0.2%	-0.1%	-0.1%



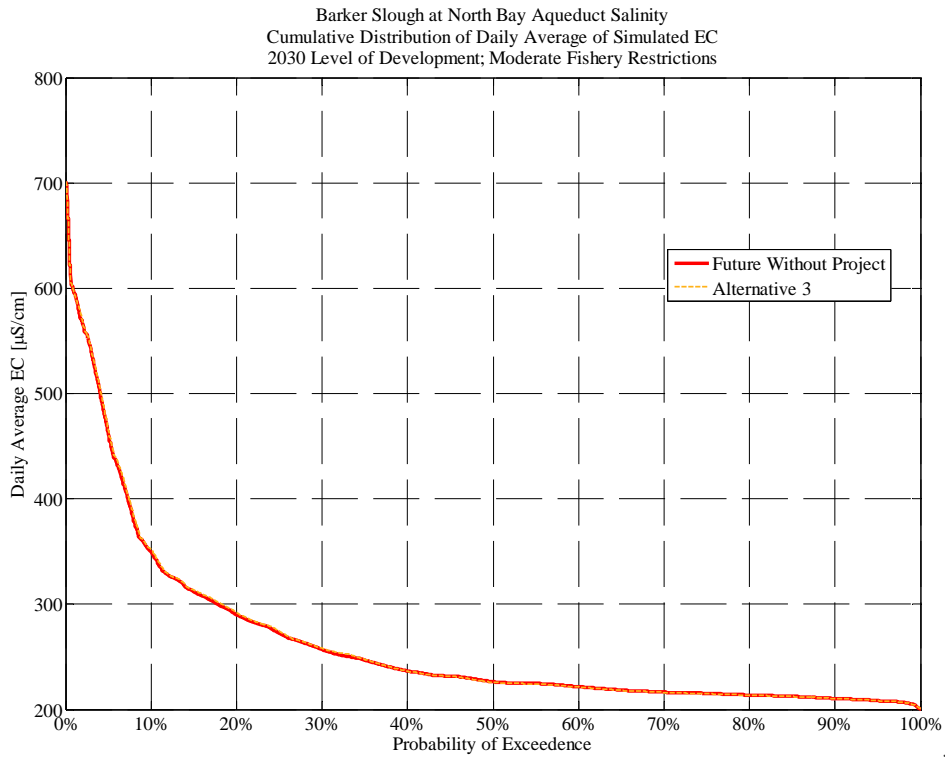
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



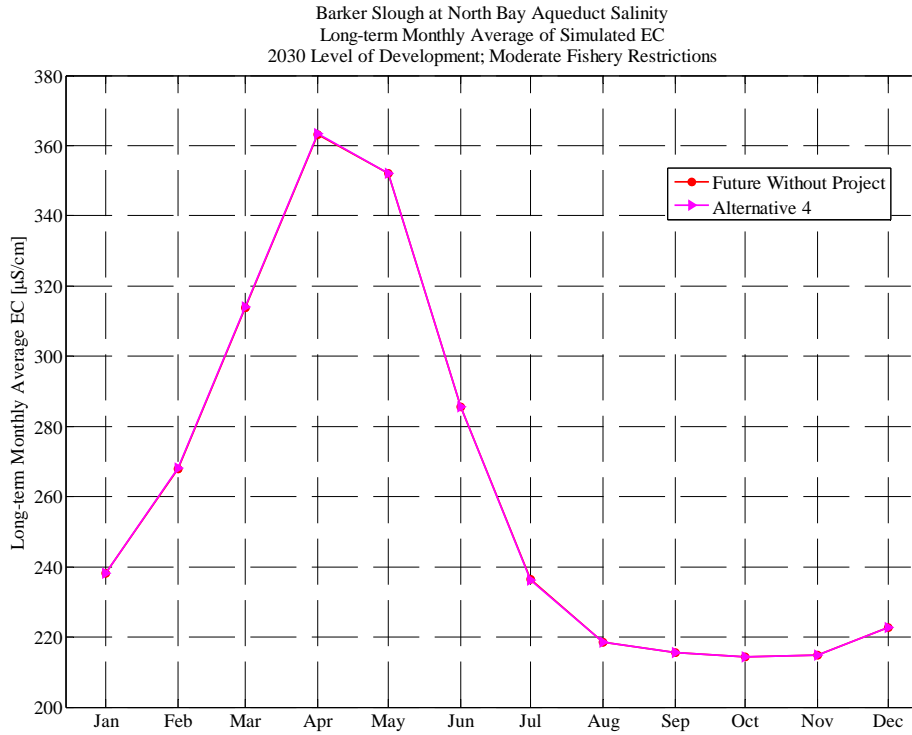
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**Alternative 4****Barker Slough at North Bay Aqueduct Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 4****2030 Level of Development; Moderate Fishery Restrictions**

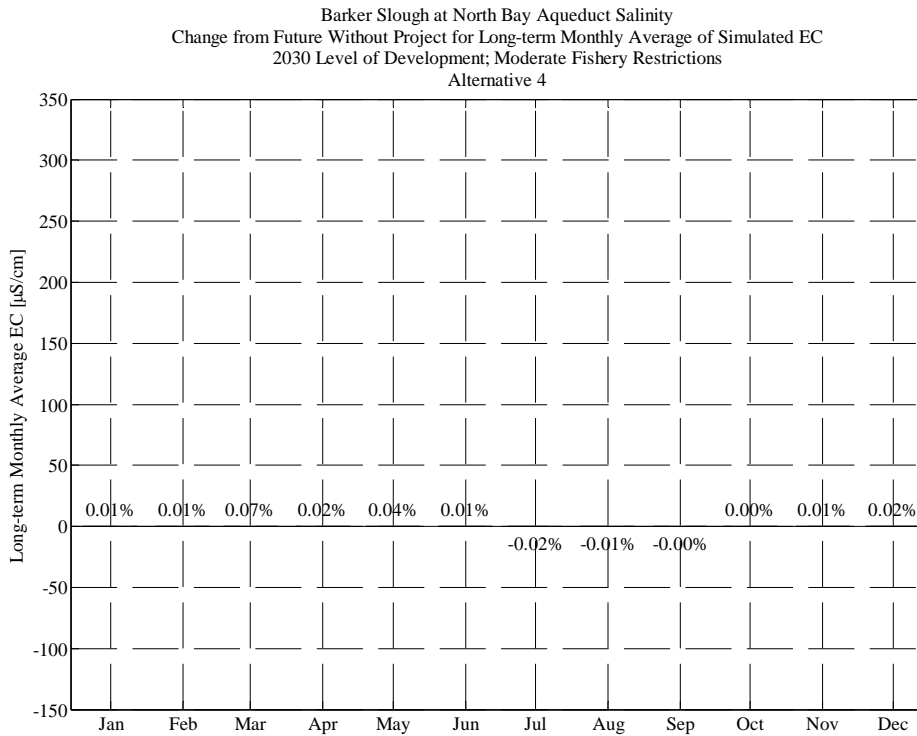
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	210	202	208	219	237	253	261	240	223	215	208	207
1977	211	214	215	216	216	216	216	249	265	255	243	234
1978	231	231	232	233	233	360	568	452	287	222	210	210
1979	211	214	215	217	219	231	245	406	360	248	215	213
1980	212	207	209	242	323	446	533	366	262	222	211	211
1981	213	214	221	226	253	280	283	308	294	249	224	218
1982	217	223	237	270	396	538	585	515	329	232	214	212
1983	209	210	244	300	358	471	653	554	340	236	210	210
1984	209	211	220	256	337	358	322	261	228	217	211	212
1985	215	213	246	289	312	323	326	327	278	231	215	212
1986	213	214	223	235	259	349	548	477	305	235	216	215
1987	215	216	220	222	235	249	251	284	282	239	217	214
1988	216	216	217	223	244	280	303	342	289	241	221	218
1989	221	224	225	225	225	225	267	278	235	216	209	208
1990	208	205	208	213	216	221	227	301	287	247	226	220
1991	222	224	225	225	225	226	228	276	306	276	246	236
<b>Avg</b>	214	215	223	238	268	314	363	352	286	236	218	216
<b>W/AN/BN</b>	215	216	226	250	304	393	493	433	302	230	212	212
<b>D/C</b>	214	214	221	229	240	253	263	289	273	241	223	218

**Percent (%) Change from Future Without Project for Barker Slough at North Bay  
(Alternative 4 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

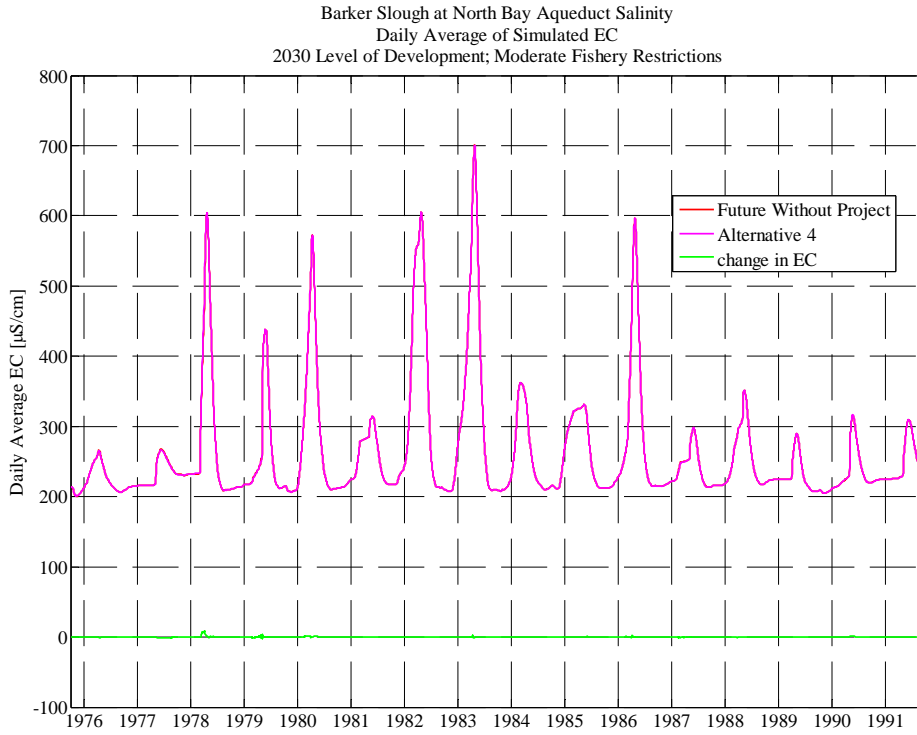
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	-0.2%	0.0%	0.1%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	-0.4%	-0.4%	-0.2%	-0.1%
1978	-0.1%	0.0%	0.2%	0.2%	0.2%	1.2%	0.5%	0.1%	0.1%	0.1%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.3%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.1%	0.3%	0.1%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.2%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



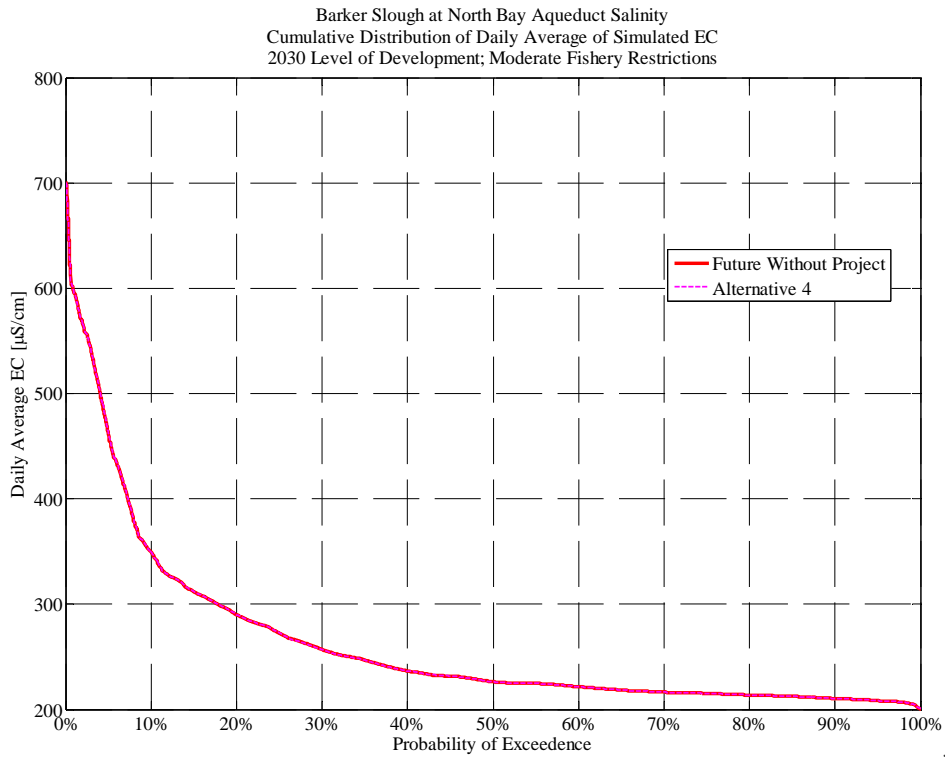
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04-Nov-2008 DS



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04-Nov-2008 DS



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04-Nov-2008 DS



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05-Nov-2008 DS

## Cache Slough at City of Vallejo Intake

### *Future Without Project*

**Cache Slough at City of Vallejo Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	201	201	203	206	210	244	233	212	205	200	196	197
1977	201	207	208	209	211	250	242	217	205	202	202	203
1978	204	209	375	725	791	793	623	365	258	209	202	202
1979	203	207	209	677	768	596	419	310	236	207	201	201
1980	203	204	326	641	758	657	435	297	235	208	202	202
1981	203	207	209	445	336	227	287	245	214	205	200	200
1982	201	204	426	709	665	673	729	564	278	212	205	204
1983	202	202	203	667	779	791	676	426	271	217	201	200
1984	200	203	492	552	471	296	273	225	207	202	199	200
1985	203	203	203	204	204	217	303	251	212	203	198	198
1986	200	204	206	530	748	790	582	336	250	211	204	204
1987	204	208	209	210	210	212	270	235	209	201	197	198
1988	201	206	207	571	647	390	296	242	212	202	200	201
1989	205	209	210	212	213	232	266	229	203	200	196	196
1990	197	201	204	205	206	245	308	246	213	203	200	201
1991	205	209	211	213	215	233	325	290	223	206	203	204
<b>Avg</b>	202	205	256	436	465	428	392	293	227	206	200	201
<b>W/AN/BN</b>	202	205	319	643	712	656	534	360	248	210	202	202
<b>D/C</b>	202	206	207	275	272	250	281	241	211	202	199	200

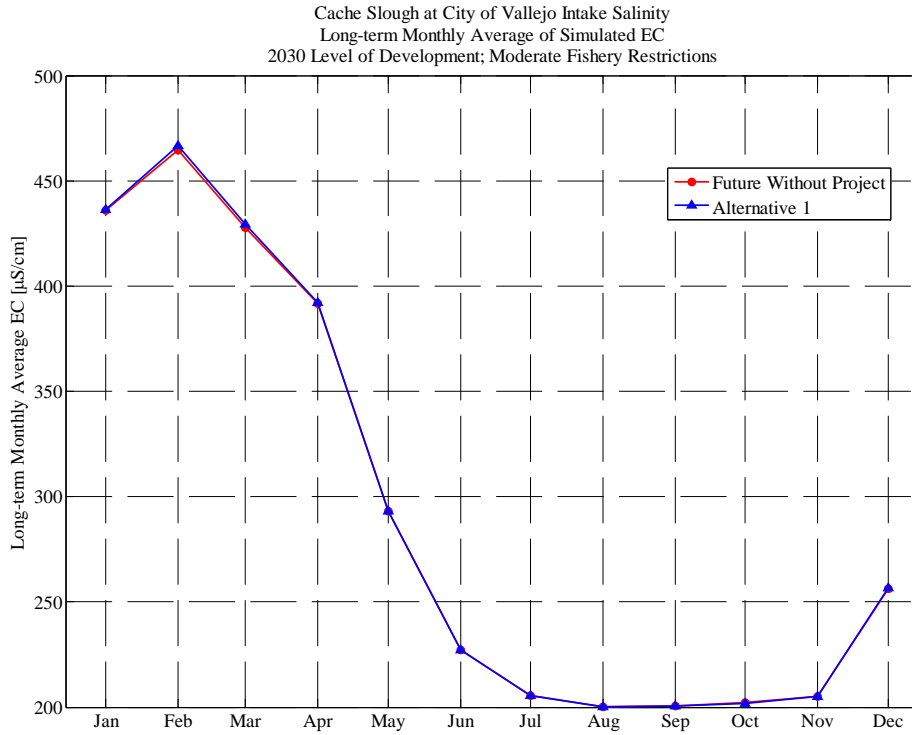


**Alternative 1****Cache Slough at City of Vallejo Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )****Alternative 1****2030 Level of Development; Moderate Fishery Restrictions**

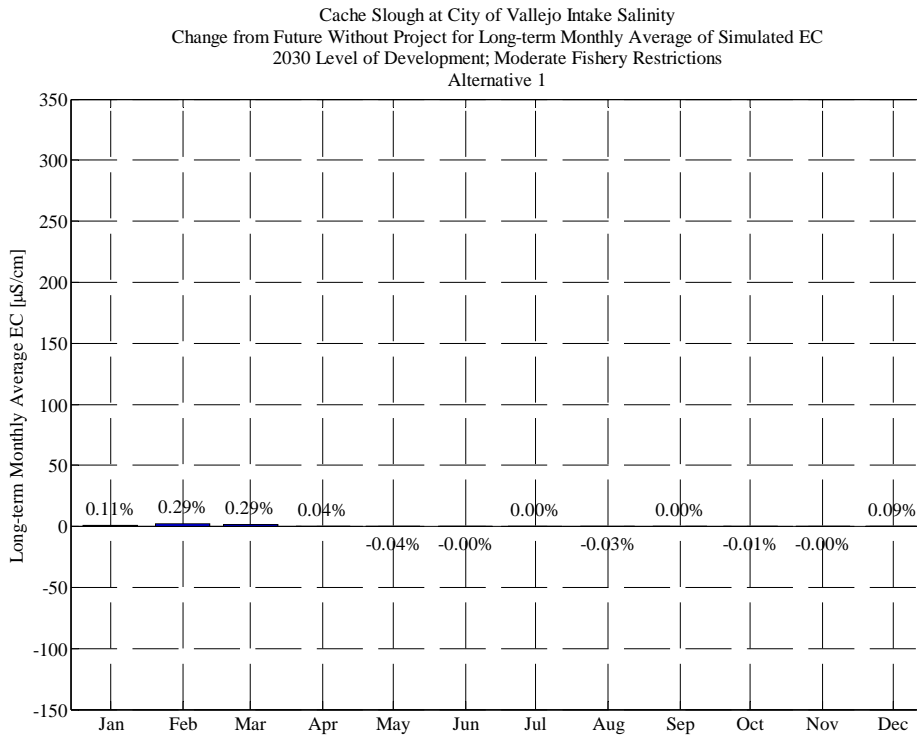
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	200	200	203	206	211	247	234	211	205	200	196	197
1977	201	207	209	210	212	253	241	218	206	202	201	203
1978	204	210	376	725	792	793	622	365	258	209	202	202
1979	203	207	209	684	771	595	419	310	236	207	201	201
1980	203	204	328	641	758	658	436	295	236	208	202	202
1981	203	207	209	446	336	227	287	245	214	205	200	200
1982	201	204	426	709	665	673	729	564	278	212	205	204
1983	202	202	203	666	780	791	677	426	271	217	201	200
1984	200	203	491	552	471	296	273	225	207	202	199	200
1985	203	203	203	204	204	217	303	250	212	203	198	198
1986	200	204	206	530	772	804	585	337	251	211	204	204
1987	204	208	209	210	210	212	270	235	209	201	197	198
1988	202	206	207	571	647	390	296	242	211	202	199	201
1989	205	209	210	212	213	232	266	229	203	200	196	196
1990	197	201	204	205	206	246	308	246	213	203	200	201
1991	204	209	211	212	215	233	326	290	223	206	204	204
<b>Avg</b>	202	205	256	436	466	429	392	293	227	206	200	201
<b>W/AN/BN</b>	202	205	320	644	716	659	534	360	248	210	202	202
<b>D/C</b>	202	206	207	275	273	251	281	241	211	202	199	200

**Percent (%) Change from Future Without Project for Cache Slough at City of Vallejo Intake****(Alternative 1 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

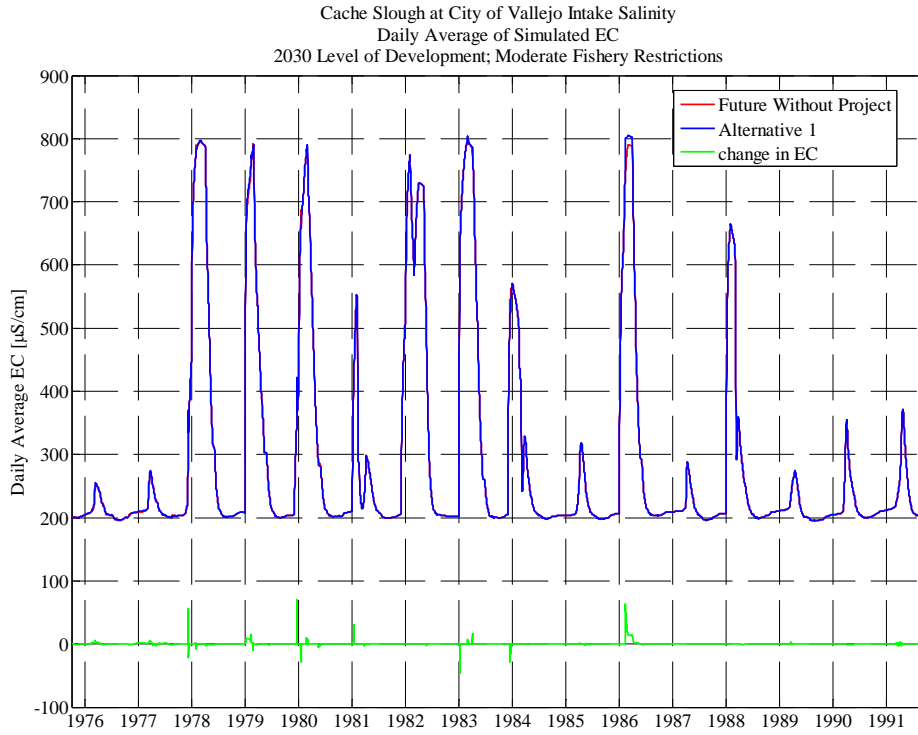
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.1%	-0.3%	0.1%	0.2%	0.6%	1.2%	0.3%	-0.2%	0.0%	0.0%	0.1%	0.2%
1977	-0.1%	-0.1%	0.5%	0.6%	0.5%	1.3%	-0.3%	0.3%	0.4%	0.4%	-0.4%	0.1%
1978	0.0%	0.2%	0.4%	0.1%	0.1%	0.0%	-0.2%	-0.2%	-0.1%	0.0%	-0.1%	-0.1%
1979	-0.1%	0.0%	0.0%	1.1%	0.4%	-0.1%	0.1%	0.0%	-0.2%	-0.1%	0.0%	0.0%
1980	0.0%	0.0%	0.8%	-0.1%	0.1%	0.2%	0.1%	-0.7%	0.2%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	-0.2%	0.0%	0.0%	0.2%	-0.1%	-0.1%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.2%	0.0%	0.0%	0.0%
1986	0.1%	0.0%	0.0%	0.0%	3.1%	1.8%	0.6%	0.3%	0.1%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%
1988	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	-0.1%	-0.1%	-0.1%	-0.2%	-0.1%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	-0.1%	-0.1%	0.0%	0.0%
1990	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%	-0.3%	-0.3%	-0.1%	-0.1%	0.0%	-0.2%
1991	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	0.1%	0.2%	0.2%	0.1%	0.0%	0.1%	0.2%
<b>Avg</b>	0.0%	0.0%	0.1%	0.1%	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.1%	0.1%	0.5%	0.3%	0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.1%	0.1%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



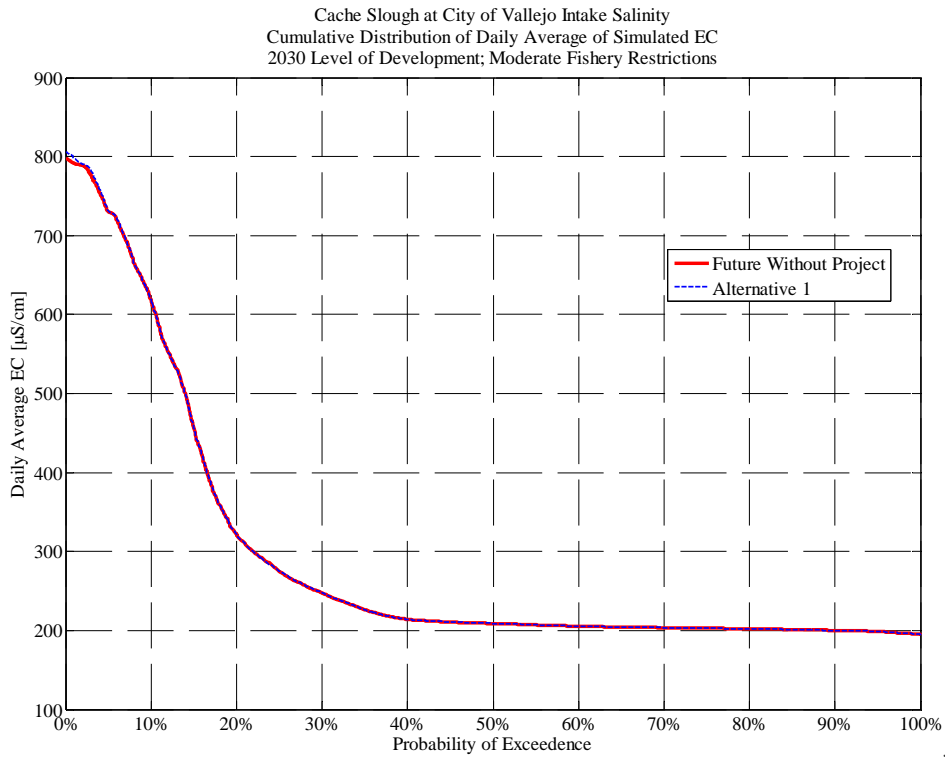
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04-Nov-2008 DS



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04-Nov-2008 DS



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**Alternative 2**

**Cache Slough at City of Vallejo Intake Salinity  
Monthly Average of Simulated Values (EC, µS/cm)**

**Alternative 2**

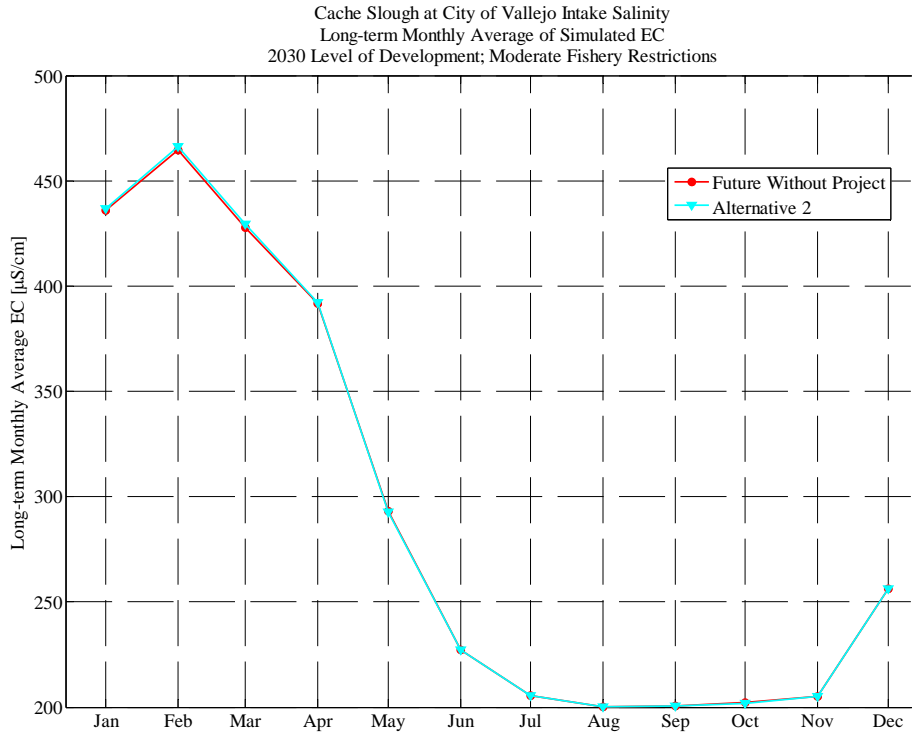
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	200	200	203	206	211	247	234	211	205	200	196	197
1977	201	207	209	210	212	253	241	218	206	202	202	203
1978	204	209	374	725	791	793	624	365	258	209	202	202
1979	203	207	209	684	770	596	419	310	236	207	201	201
1980	203	204	326	641	758	658	436	295	236	208	202	202
1981	203	207	209	445	336	227	286	245	214	205	200	200
1982	201	204	426	709	665	673	729	564	278	212	205	204
1983	202	202	203	669	780	791	676	426	271	217	201	200
1984	200	203	491	552	471	296	273	225	207	202	199	200
1985	203	203	203	204	204	217	303	250	212	203	198	198
1986	200	204	206	530	772	804	585	337	251	211	204	204
1987	204	208	209	210	210	212	270	234	209	201	197	198
1988	202	206	207	571	647	390	296	242	211	202	199	201
1989	205	209	210	212	213	232	266	229	203	200	196	196
1990	197	201	204	205	206	246	308	246	213	203	200	201
1991	204	209	211	212	215	233	326	289	223	206	203	204
<b>Avg</b>	202	205	256	437	466	429	392	293	227	205	200	201
<b>W/AN/BN</b>	202	205	319	644	715	659	534	360	248	210	202	202
<b>D/C</b>	202	206	207	275	273	251	281	240	211	202	199	200

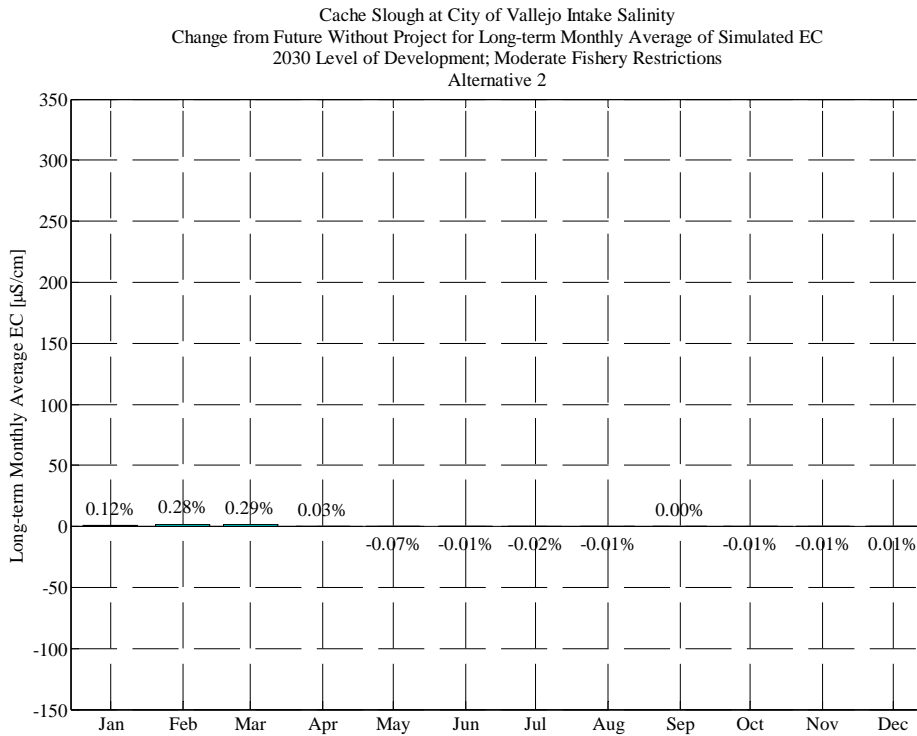
**Percent (%) Change from Future Without Project for Cache Slough at City of Vallejo  
(Alternative 2 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.1%	-0.3%	0.1%	0.2%	0.6%	1.2%	0.3%	-0.2%	0.0%	0.0%	0.1%	0.2%
1977	-0.1%	-0.1%	0.5%	0.6%	0.5%	1.4%	-0.2%	0.1%	0.3%	0.0%	0.0%	0.1%
1978	0.0%	0.0%	-0.2%	0.0%	0.0%	0.0%	0.1%	0.0%	-0.1%	0.0%	-0.1%	-0.1%
1979	-0.1%	0.0%	0.0%	1.1%	0.3%	-0.1%	0.1%	0.0%	-0.2%	-0.1%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	-0.1%	0.0%	0.2%	0.1%	-0.7%	0.2%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.1%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.2%	0.0%	0.0%	0.0%
1986	0.1%	0.0%	0.0%	0.0%	3.1%	1.8%	0.6%	0.3%	0.1%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	-0.1%	-0.1%	0.0%	0.0%
1988	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	-0.1%	-0.1%	-0.1%	-0.2%	-0.1%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	-0.1%	-0.1%	0.0%	0.0%
1990	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	-0.3%	-0.3%	-0.1%	0.0%	0.0%	-0.2%
1991	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	0.1%	0.1%	-0.1%	0.0%	0.0%	0.0%	0.1%
<b>Avg</b>	0.0%	0.0%	0.0%	0.1%	0.3%	0.3%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	-0.1%	0.2%	0.5%	0.3%	0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.1%	0.1%	0.1%	0.3%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%

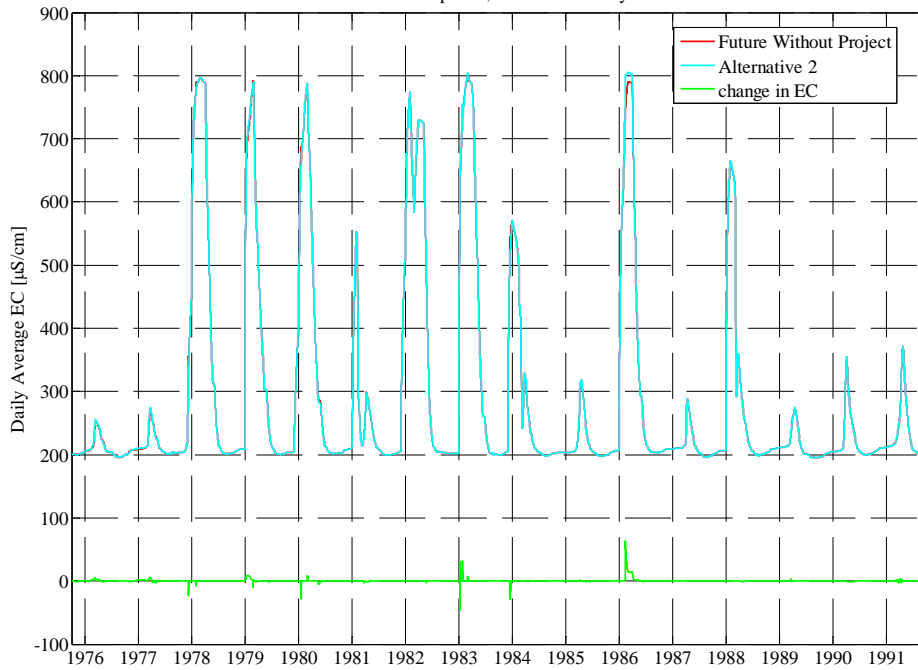


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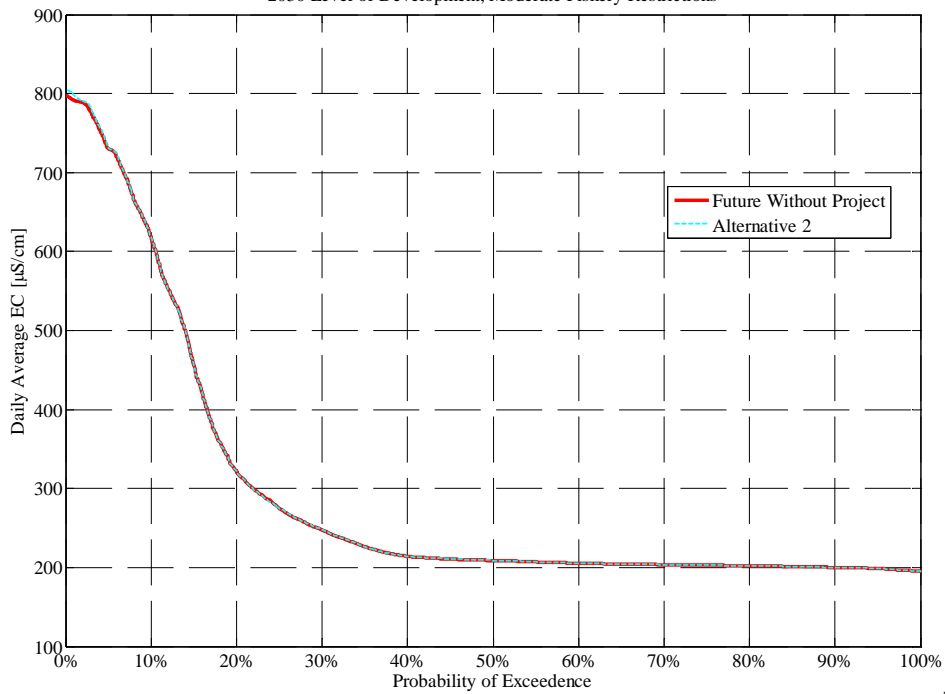
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04-Nov-2008 DS

Cache Slough at City of Vallejo Intake Salinity  
 Daily Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions



p\_lve\_wq\_eir.m  
 04-Nov-2008 DS

Cache Slough at City of Vallejo Intake Salinity  
 Cumulative Distribution of Daily Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions



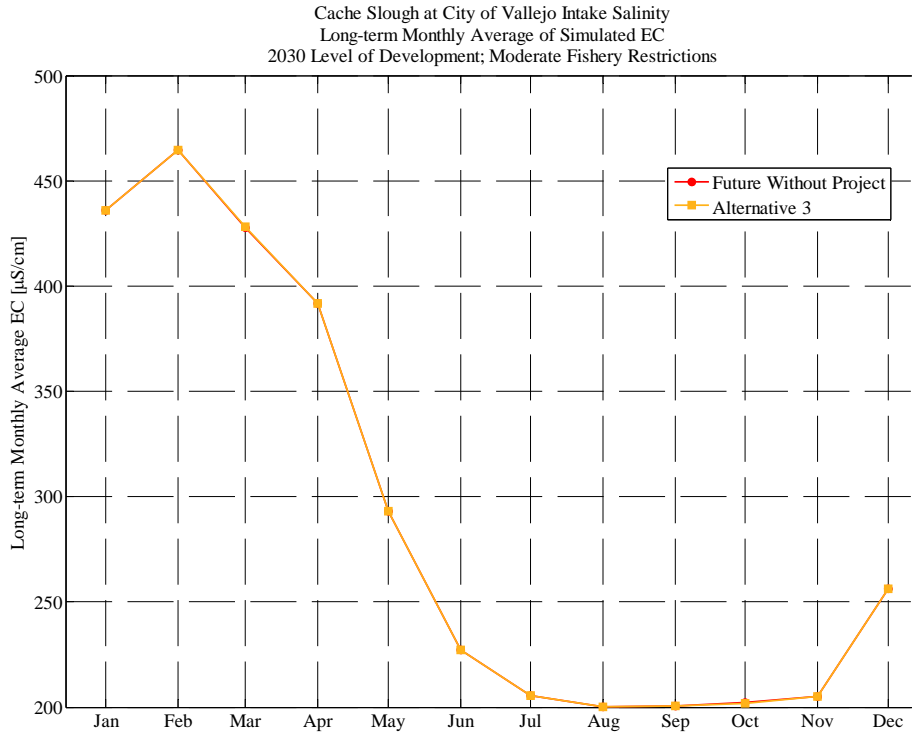
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 05-Nov-2008 DS

**Alternative 3****Cache Slough at City of Vallejo Intake Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )****Alternative 3****2030 Level of Development; Moderate Fishery Restrictions**

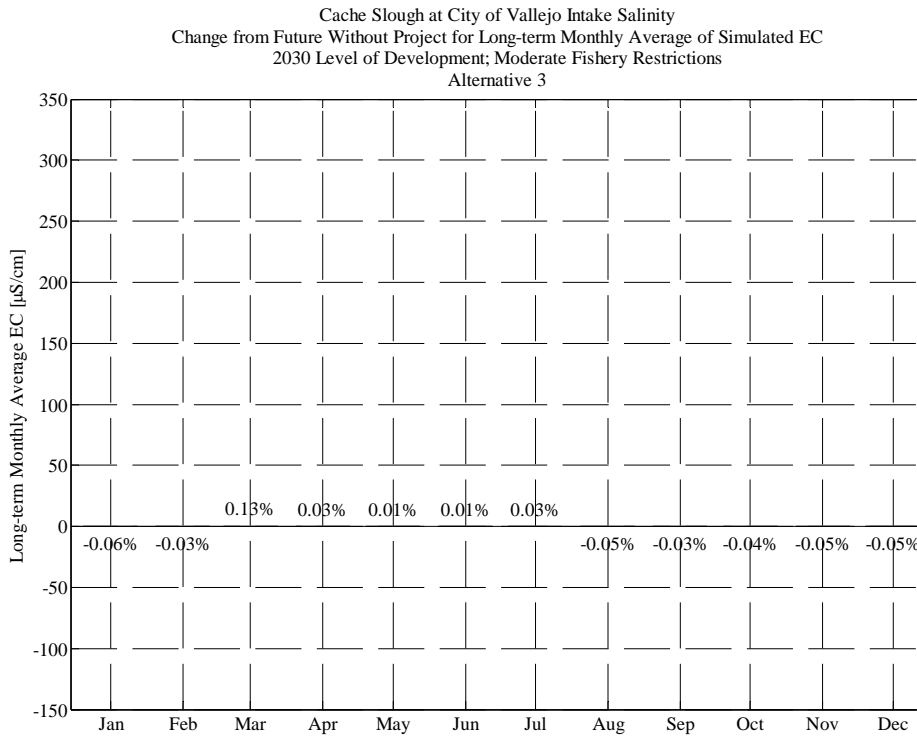
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	201	201	203	206	210	244	233	212	205	200	196	197
1977	201	207	208	209	210	255	243	218	206	202	201	203
1978	204	210	375	725	792	793	623	365	258	209	202	202
1979	203	207	208	677	767	595	419	310	236	207	201	201
1980	203	204	326	641	758	658	436	297	236	208	202	202
1981	203	207	209	445	336	227	287	245	215	205	200	200
1982	201	204	426	709	665	674	729	564	278	212	205	204
1983	202	202	203	666	780	791	676	426	271	217	201	200
1984	200	203	492	552	472	296	273	225	207	202	199	200
1985	202	203	203	204	204	217	303	250	212	203	198	198
1986	200	204	206	530	748	789	581	336	250	211	204	204
1987	204	208	209	210	210	212	270	234	209	201	197	198
1988	201	205	206	571	647	390	297	243	212	202	200	201
1989	205	209	210	211	212	232	266	229	204	200	196	196
1990	197	201	204	205	206	245	309	246	213	203	200	201
1991	204	209	211	212	215	233	325	290	223	206	203	204
<b>Avg</b>	202	205	256	436	465	428	392	293	227	206	200	201
<b>W/AN/BN</b>	202	205	319	643	712	657	534	360	248	210	202	202
<b>D/C</b>	202	205	207	275	272	251	281	241	211	203	199	200

**Percent (%) Change from Future Without Project for Cache Slough at City of Vallejo  
(Alternative 3 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	-0.1%	-0.1%
1977	-0.1%	-0.1%	-0.1%	-0.1%	-0.2%	2.0%	0.5%	0.3%	0.4%	0.1%	-0.6%	-0.1%
1978	0.0%	0.2%	0.1%	0.0%	0.1%	0.0%	-0.1%	-0.1%	-0.1%	0.0%	-0.1%	-0.1%
1979	-0.1%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.1%	0.0%	-0.2%	0.0%	-0.1%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
1982	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	-0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.3%	-0.2%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.1%
1987	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	-0.2%	-0.1%	0.0%	-0.1%	-0.1%
1988	-0.2%	-0.2%	-0.2%	0.0%	0.0%	0.1%	0.4%	0.3%	0.1%	0.1%	0.0%	0.0%
1989	-0.1%	-0.2%	-0.2%	-0.2%	-0.2%	-0.1%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
1990	0.0%	-0.1%	-0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%
1991	-0.1%	-0.2%	-0.2%	-0.2%	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	-0.1%	-0.1%	-0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	0.2%	0.1%	0.0%	0.0%	0.1%	-0.1%	0.0%

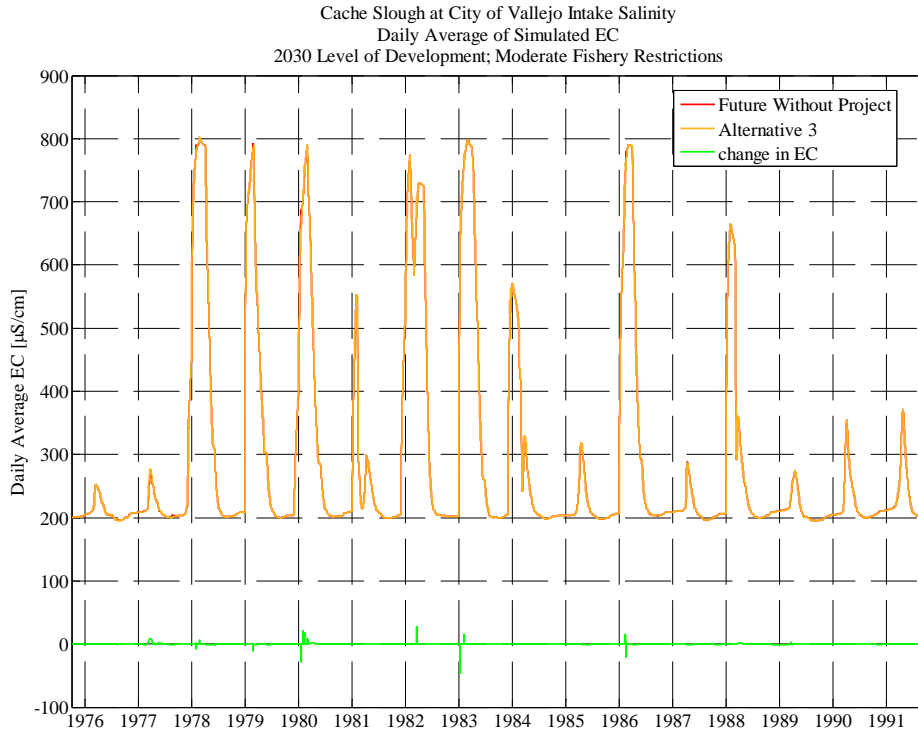


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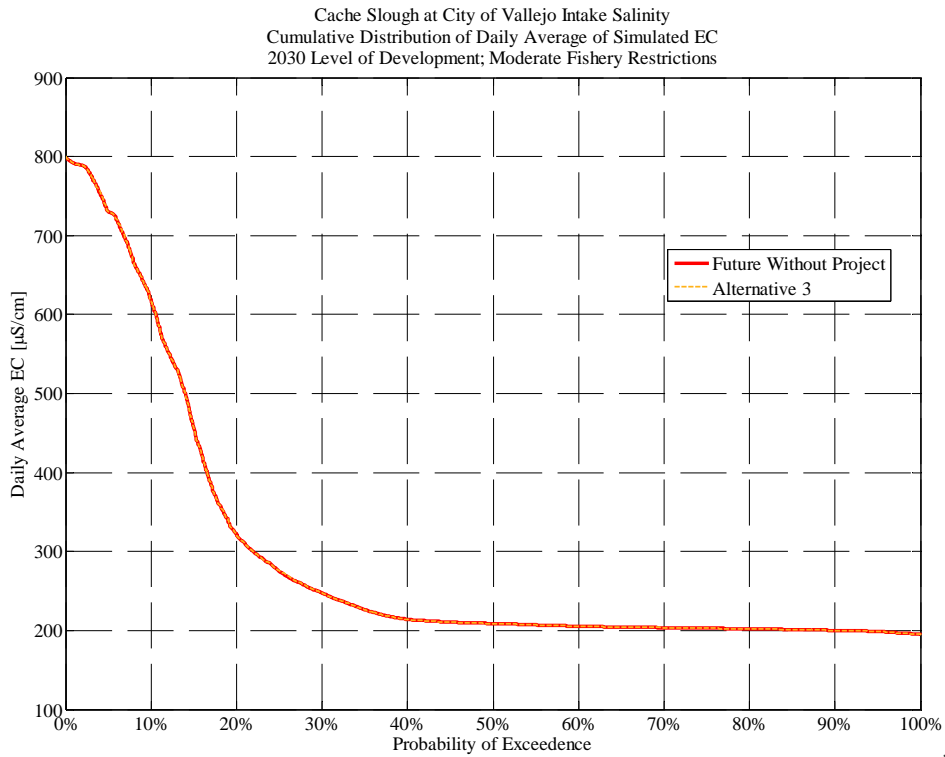


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**Alternative 4**

**Cache Slough at City of Vallejo Intake Salinity  
Monthly Average of Simulated Values (EC, µS/cm)**

**Alternative 4**

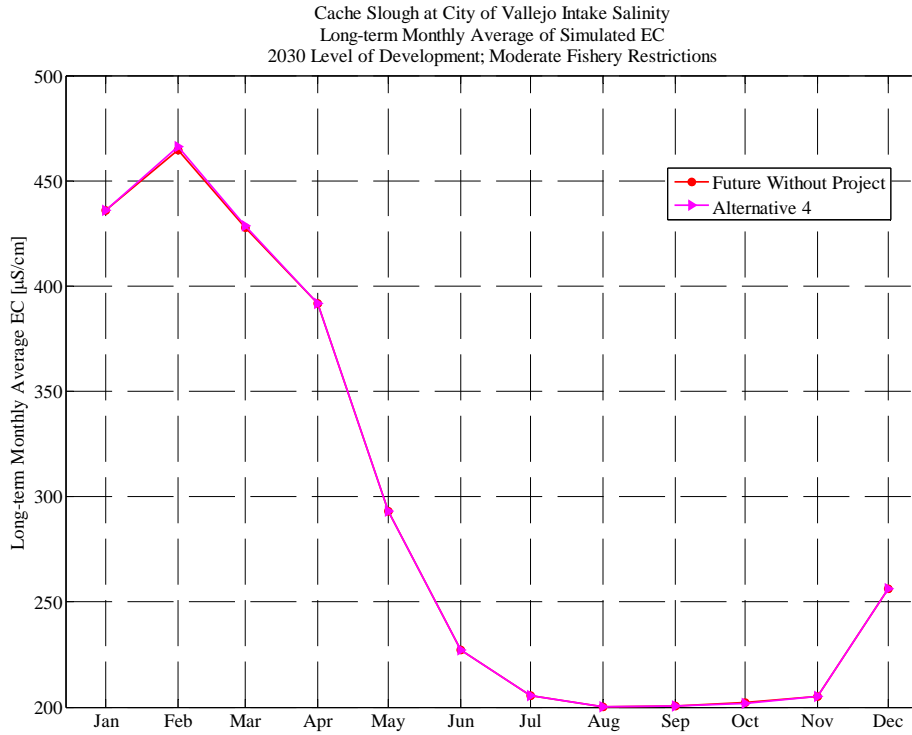
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	200	201	203	206	211	246	233	212	205	200	196	197
1977	201	207	209	209	211	256	243	218	205	201	202	203
1978	204	210	375	725	792	793	623	365	258	209	202	202
1979	203	207	209	677	768	596	419	310	236	207	201	201
1980	203	204	326	641	781	661	437	297	236	208	202	202
1981	203	207	209	445	336	227	287	245	214	205	200	200
1982	201	204	426	709	665	673	729	564	278	212	205	204
1983	202	202	203	666	779	791	676	426	271	217	201	200
1984	200	203	492	552	472	296	273	225	207	202	199	200
1985	203	203	203	204	204	217	303	251	212	203	198	198
1986	200	204	206	530	748	790	582	336	250	211	204	204
1987	204	208	209	210	210	212	270	234	209	201	197	198
1988	201	206	207	571	647	390	296	242	212	202	200	201
1989	205	209	210	212	213	232	266	229	204	200	196	196
1990	197	201	204	205	206	245	309	246	213	203	200	201
1991	205	209	211	213	215	233	325	290	223	206	203	204
<b>Avg</b>	202	205	256	436	466	429	392	293	227	206	200	201
<b>W/AN/BN</b>	202	205	319	643	715	657	534	360	248	210	202	202
<b>D/C</b>	202	206	207	275	273	251	281	241	211	202	199	200

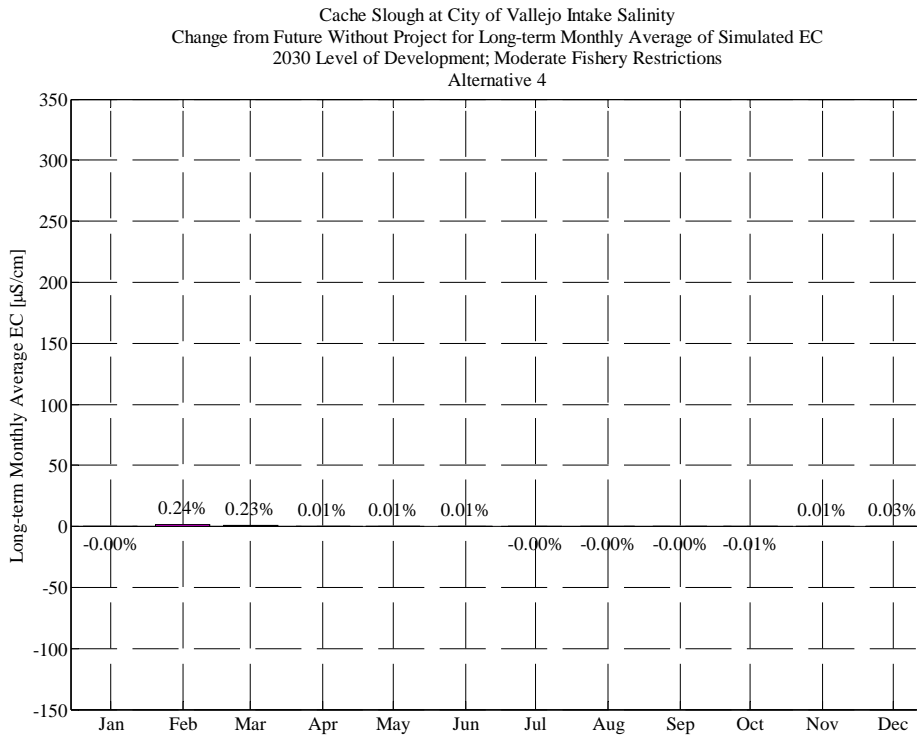
**Percent (%) Change from Future Without Project for Cache Slough at City of Vallejo  
(Alternative 4 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.1%	-0.1%	0.0%	0.1%	0.3%	0.7%	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.1%	0.3%	0.1%	0.4%	2.4%	0.2%	0.2%	0.0%	-0.1%	0.1%	0.0%
1978	-0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	-0.1%	3.1%	0.7%	0.4%	0.2%	0.1%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

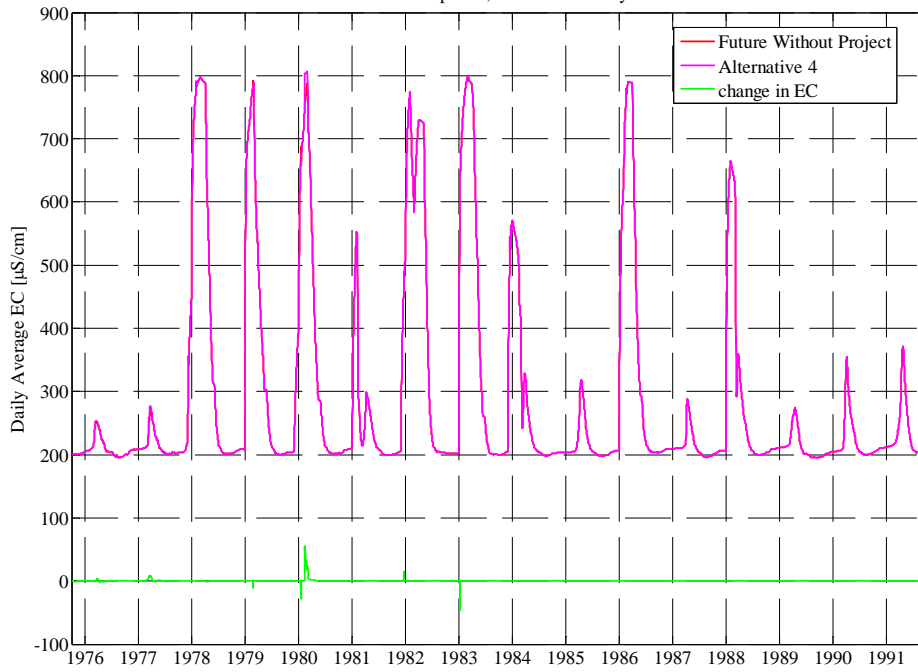


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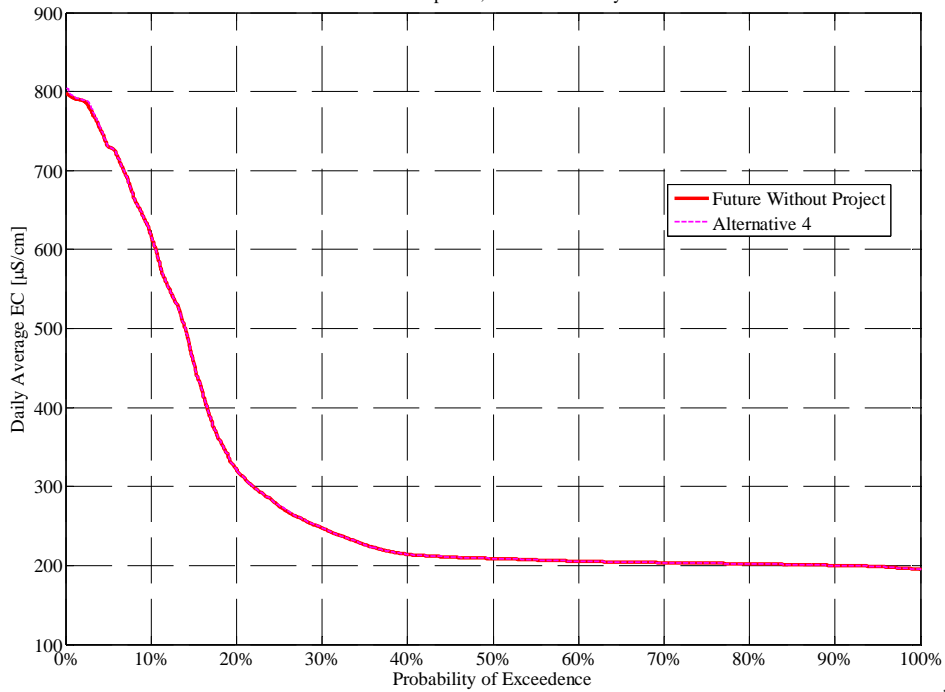
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Cache Slough at City of Vallejo Intake Salinity  
 Daily Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions



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 04-Nov-2008 DS

Cache Slough at City of Vallejo Intake Salinity  
 Cumulative Distribution of Daily Average of Simulated EC  
 2030 Level of Development; Moderate Fishery Restrictions



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## Old River near Tracy Road Bridge

### *Future Without Project*

#### Old River near Tracy Road Bridge Salinity Monthly Average of Simulated Values (EC, $\mu\text{S/cm}$ )

#### Future Without Project

#### 2030 Level of Development; Moderate Fishery Restrictions

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	324	326	733	759	888	1,004	637	551	692	670	633	716
1977	850	726	793	852	990	1,020	730	601	722	598	613	685
1978	818	896	834	796	756	696	385	309	426	518	415	522
1979	659	669	730	696	391	341	378	300	426	378	439	600
1980	753	615	748	453	364	405	351	350	370	442	402	492
1981	634	612	713	757	883	870	506	427	648	487	539	635
1982	722	642	765	775	309	332	224	204	354	400	321	263
1983	224	290	380	392	340	281	302	259	237	223	179	247
1984	266	214	311	342	245	368	362	353	503	386	373	538
1985	635	529	757	767	814	872	539	477	642	485	547	666
1986	753	671	753	807	503	321	249	222	376	527	414	468
1987	525	566	697	762	941	914	620	535	697	506	562	641
1988	737	696	790	849	992	1,018	699	618	716	479	607	755
1989	806	750	805	891	1,044	1,015	703	611	688	476	536	707
1990	743	745	806	898	998	1,015	754	626	717	616	671	707
1991	841	833	822	926	1,154	973	717	632	718	586	649	672
<b>Avg</b>	643	611	715	733	726	715	510	442	558	486	494	582
<b>W/AN/BN</b>	599	571	646	609	415	392	322	285	385	411	363	447
<b>D/C</b>	677	642	768	829	967	967	656	564	693	545	595	687

**Alternative 1**

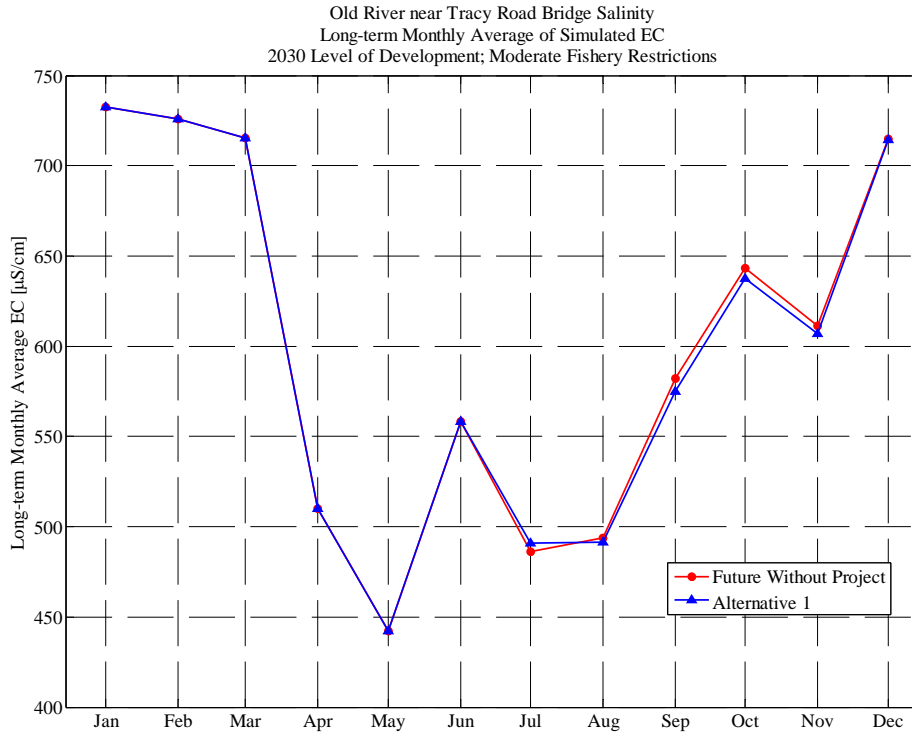
**Old River near Tracy Road Bridge Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 1**

**2030 Level of Development; Moderate Fishery Restrictions**

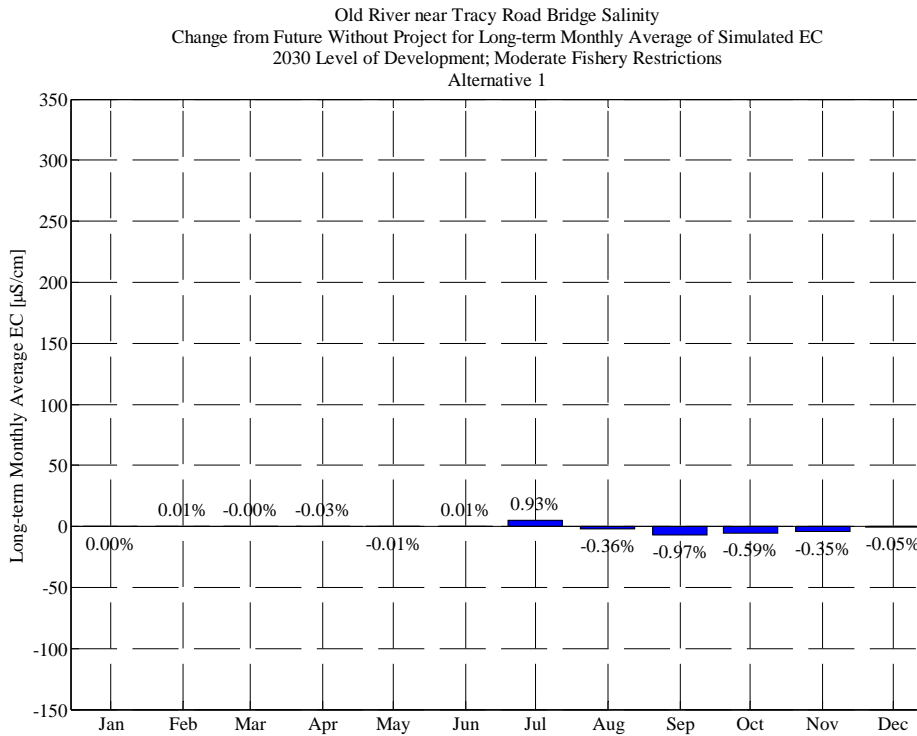
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	329	341	734	759	888	1,004	637	550	693	665	630	701
1977	810	694	790	851	989	1,020	730	601	721	643	627	650
1978	783	887	834	795	756	696	385	309	427	518	426	570
1979	677	675	730	696	391	341	378	300	426	376	430	592
1980	754	619	748	453	364	405	351	350	370	442	403	489
1981	630	607	712	756	883	870	506	427	648	480	530	632
1982	727	644	765	775	309	332	224	204	354	400	321	263
1983	224	290	380	393	340	281	304	259	238	223	179	247
1984	266	214	311	343	245	368	362	353	503	386	374	537
1985	636	527	757	767	814	872	539	477	643	477	538	660
1986	752	678	753	807	503	321	245	221	375	529	413	457
1987	517	562	696	762	942	914	621	536	697	511	554	638
1988	742	704	790	849	992	1,018	700	618	715	509	615	756
1989	810	745	804	891	1,044	1,015	704	611	688	495	534	716
1990	765	732	805	898	998	1,015	755	626	717	615	658	654
1991	778	792	818	926	1,154	973	717	632	718	586	631	639
<b>Avg</b>	637	607	714	733	726	715	510	442	558	491	491	575
<b>W/AN/BN</b>	598	572	646	609	415	392	321	285	385	411	364	451
<b>D/C</b>	668	634	767	829	967	967	656	564	693	553	591	672

**Percent (%) Change from Future Without Project for Old River near Tracy Road Bridge  
(Alternative 1 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

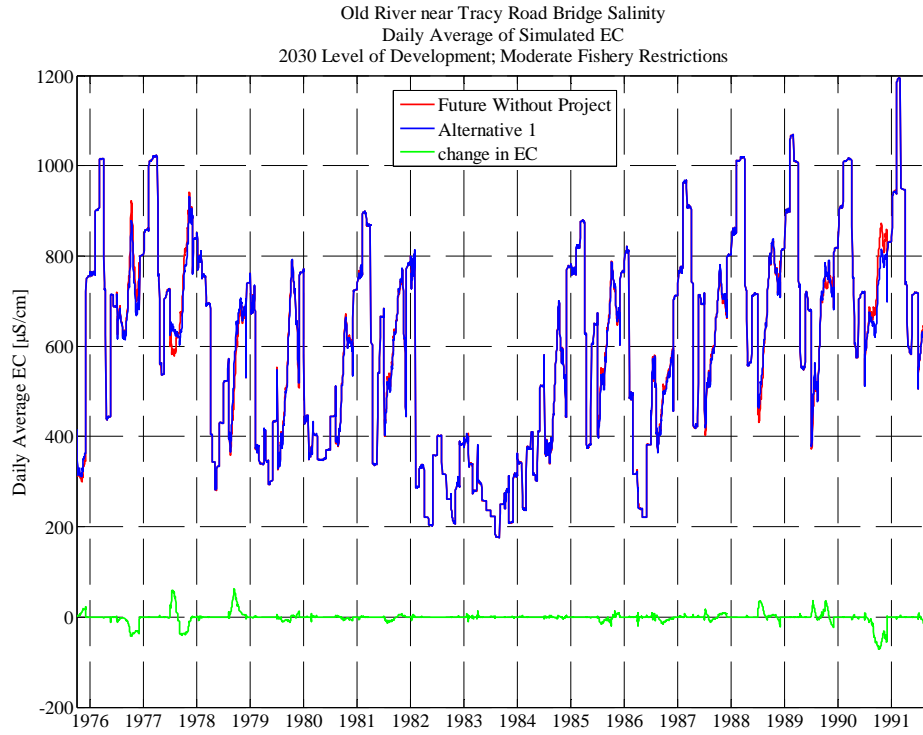
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1.3%	4.6%	0.1%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%	-0.8%	-0.5%	-2.1%
1977	-4.6%	-4.4%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	7.4%	2.3%	-5.1%
1978	-4.3%	-1.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6%	9.2%
1979	2.8%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.4%	-2.0%	-1.3%
1980	0.1%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	-0.6%
1981	-0.7%	-0.8%	-0.1%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	-1.4%	-1.8%	-0.5%
1982	0.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.1%	0.0%	-0.1%	0.7%	0.1%	0.2%	0.3%	-0.1%	0.0%
1984	0.0%	0.1%	-0.1%	0.1%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.1%	0.2%	-0.2%
1985	0.1%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.7%	-1.6%	-0.9%
1986	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	-1.4%	-0.3%	0.0%	0.4%	-0.2%	-2.4%
1987	-1.5%	-0.7%	0.0%	0.1%	0.1%	0.0%	0.1%	0.1%	0.0%	1.1%	-1.4%	-0.5%
1988	0.7%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%	1.4%	0.1%
1989	0.5%	-0.6%	-0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	3.9%	-0.4%	1.2%
1990	2.9%	-1.7%	-0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	-0.2%	-1.9%	-7.4%
1991	-7.5%	-4.9%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-2.8%	-4.9%
<b>Avg</b>	-0.6%	-0.4%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	-0.4%	-1.0%
<b>W/AN/BN</b>	-0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.1%	0.7%
<b>D/C</b>	-1.0%	-0.8%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%	-0.7%	-2.2%



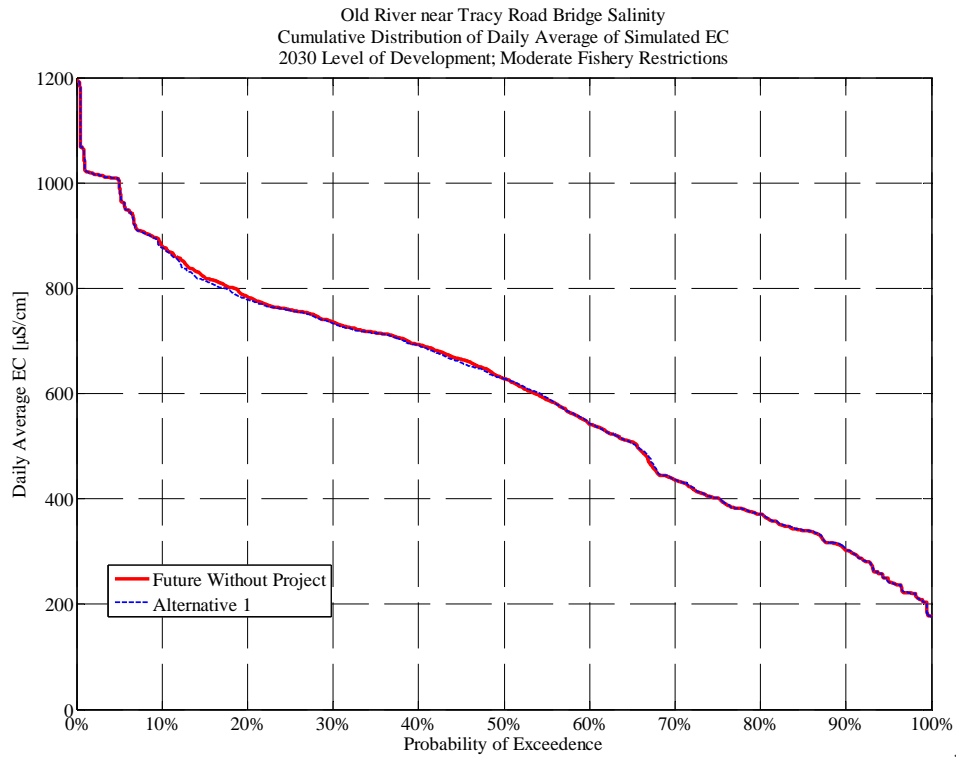
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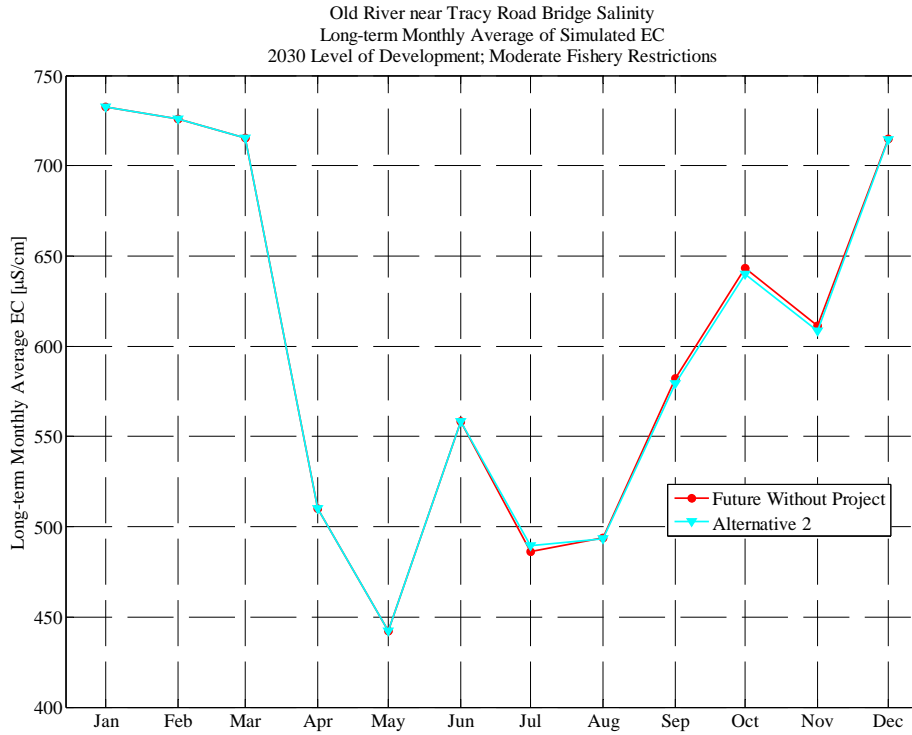


**Alternative 2****Old River near Tracy Road Bridge Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 2****2030 Level of Development; Moderate Fishery Restrictions**

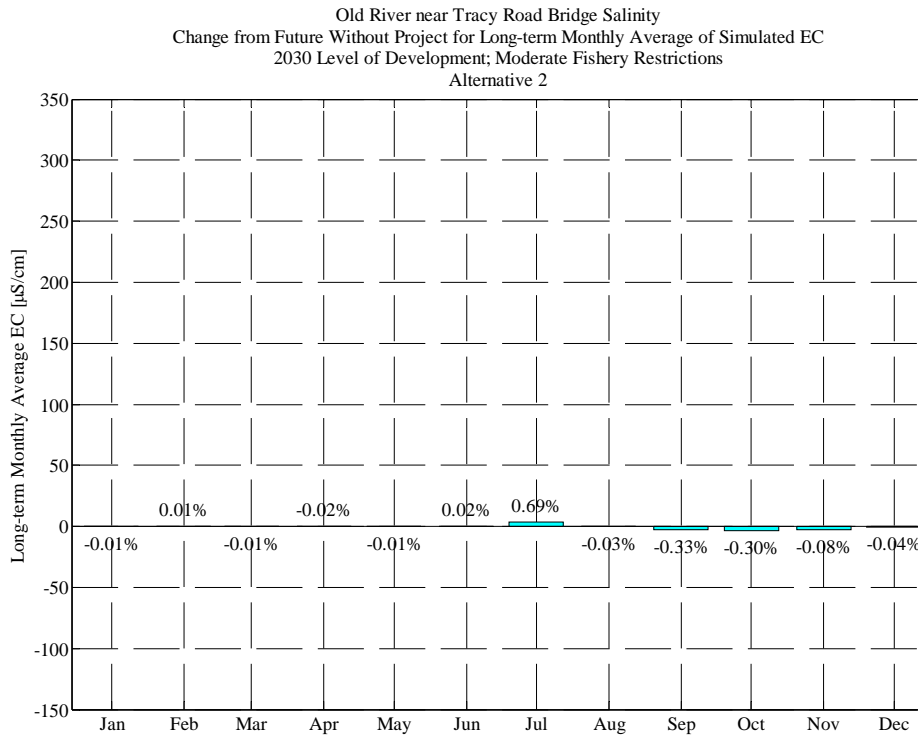
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	329	344	734	759	888	1,004	637	550	693	665	630	701
1977	811	694	790	851	990	1,020	730	601	723	598	613	679
1978	810	895	834	796	757	696	385	309	427	518	426	570
1979	678	676	730	697	391	341	378	300	426	376	430	592
1980	754	625	749	453	364	404	353	350	370	442	403	489
1981	630	607	712	756	883	870	506	427	648	480	530	632
1982	727	650	766	775	309	332	224	204	354	400	321	263
1983	224	290	380	392	341	281	303	259	238	223	179	247
1984	266	214	311	342	245	368	362	353	503	386	374	537
1985	636	528	757	767	814	872	539	477	643	477	538	660
1986	752	678	753	807	503	321	245	221	376	537	415	456
1987	516	561	696	762	942	914	621	536	697	519	556	638
1988	743	705	790	849	992	1,018	700	618	715	513	642	772
1989	816	747	804	891	1,044	1,015	704	611	688	495	534	715
1990	767	734	805	898	998	1,015	755	626	717	614	658	657
1991	779	790	818	926	1,154	973	717	632	718	586	644	662
<b>Avg</b>	640	609	714	733	726	715	510	442	558	489	493	579
<b>W/AN/BN</b>	602	575	646	609	415	392	322	285	385	412	364	451
<b>D/C</b>	670	634	768	829	967	967	656	564	694	550	594	680

**Percent (%) Change from Future Without Project for Old River near Tracy Road Bridge  
(Alternative 2 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

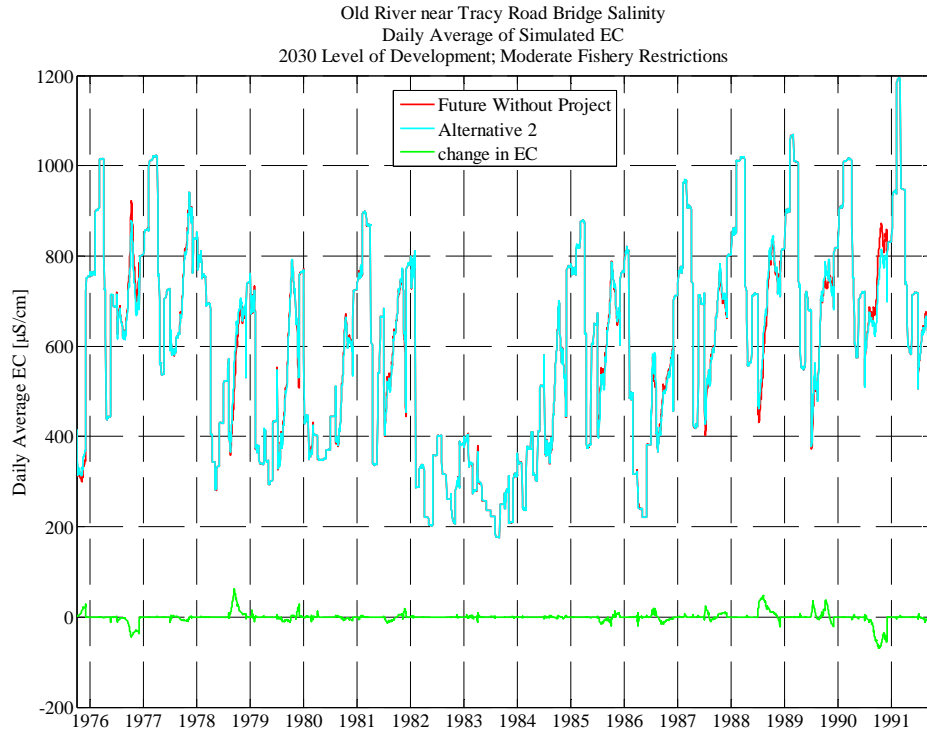
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	1.5%	5.7%	0.1%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%	-0.8%	-0.5%	-2.0%
1977	-4.5%	-4.3%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	-0.8%
1978	-1.0%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6%	9.2%
1979	2.9%	1.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.4%	-2.0%	-1.3%
1980	0.2%	1.6%	0.2%	0.0%	-0.2%	-0.1%	0.5%	0.0%	0.0%	0.0%	0.4%	-0.6%
1981	-0.7%	-0.8%	-0.1%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	-1.4%	-1.7%	-0.5%
1982	0.6%	1.3%	0.1%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.1%	0.0%	0.0%	0.3%	0.0%	0.3%	0.1%	0.2%	0.3%	-0.1%	0.0%
1984	0.0%	0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	-0.2%
1985	0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.7%	-1.6%	-0.9%
1986	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	-1.4%	-0.3%	0.0%	2.0%	0.3%	-2.6%
1987	-1.6%	-0.8%	0.0%	0.0%	0.1%	0.0%	0.1%	0.1%	0.0%	2.6%	-1.0%	-0.3%
1988	0.9%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.0%	5.9%	2.2%
1989	1.2%	-0.4%	-0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	3.9%	-0.4%	1.2%
1990	3.2%	-1.5%	-0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	-0.4%	-1.9%	-7.1%
1991	-7.4%	-5.2%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.8%	-1.5%
<b>Avg</b>	-0.3%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	-0.3%
<b>W/AN/BN</b>	0.4%	0.7%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.3%	0.2%	0.6%
<b>D/C</b>	-0.8%	-0.7%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	-0.2%	-1.1%



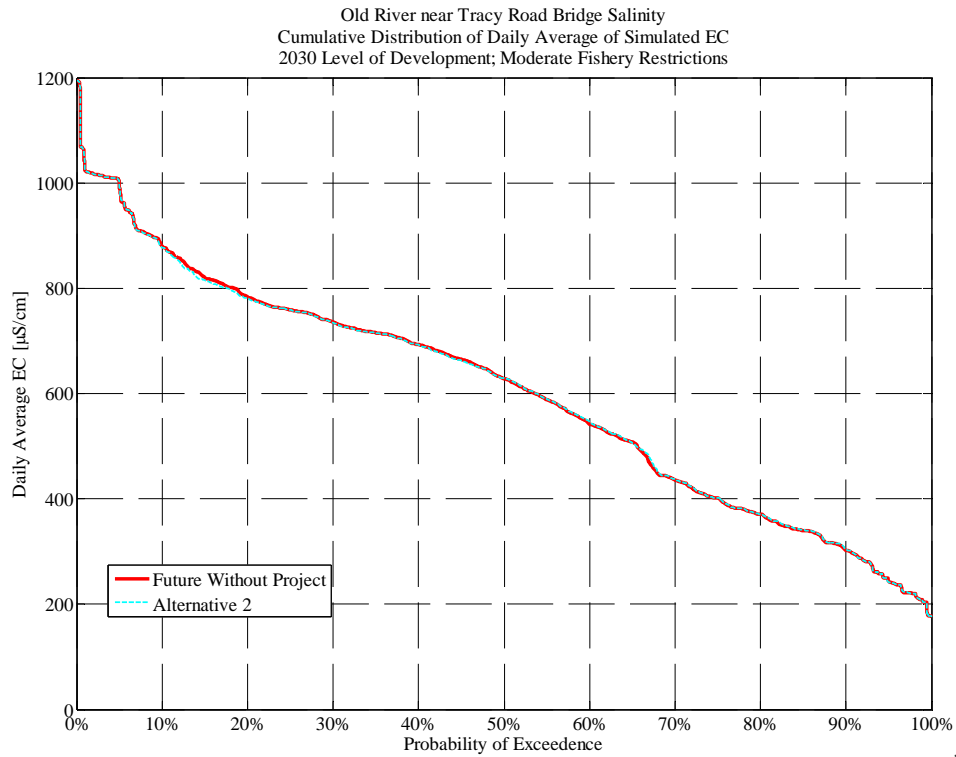
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**Alternative 3**

**Old River near Tracy Road Bridge Salinity  
Monthly Average of Simulated Values (EC, µS/cm)**

**Alternative 3**

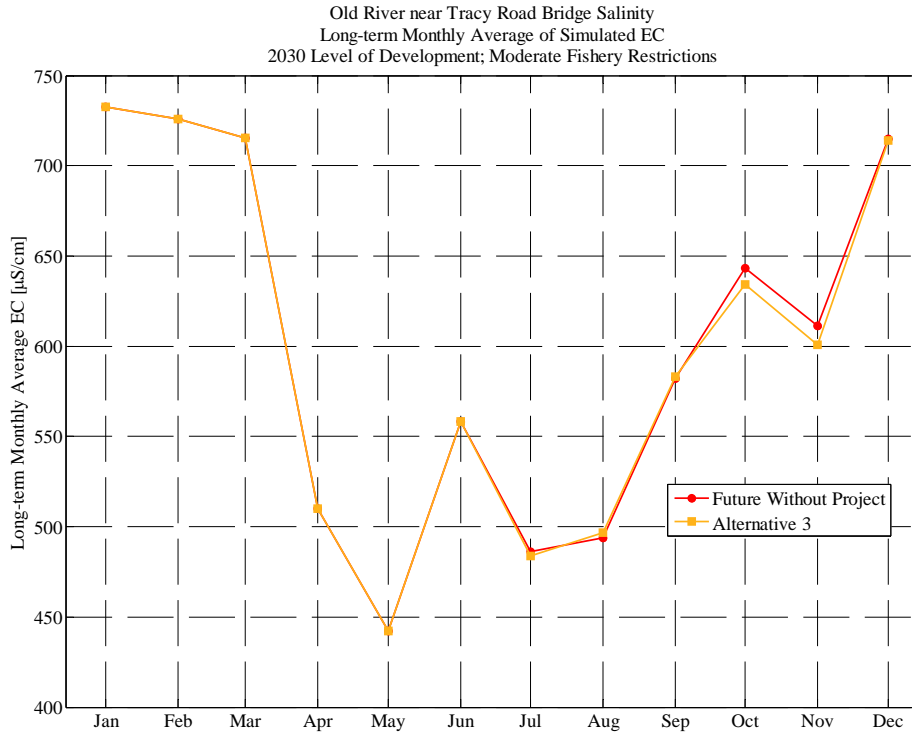
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	322	317	733	759	888	1,004	637	551	692	643	619	694
1977	795	672	789	851	990	1,020	730	601	719	647	628	661
1978	794	889	834	796	757	696	385	309	427	518	424	566
1979	688	680	730	696	391	341	378	300	426	382	462	622
1980	765	631	749	453	364	403	352	350	370	442	402	495
1981	637	613	713	756	883	871	506	427	648	477	551	652
1982	728	642	765	775	309	333	224	204	354	400	321	263
1983	224	290	380	392	340	281	302	259	237	223	179	247
1984	266	214	311	342	245	368	362	353	503	386	373	543
1985	644	535	757	767	814	872	539	477	642	477	542	662
1986	747	669	753	806	504	321	249	222	376	499	404	455
1987	520	565	697	762	943	914	620	535	697	490	571	651
1988	739	695	790	849	992	1,018	699	618	716	481	623	775
1989	809	730	803	891	1,044	1,015	704	611	688	501	552	712
1990	701	698	804	898	998	1,015	754	626	717	594	643	658
1991	770	769	817	926	1,154	973	717	632	718	585	649	672
<b>Avg</b>	634	601	714	733	726	715	510	442	558	484	497	583
<b>W/AN/BN</b>	602	574	646	609	416	392	322	285	385	407	367	456
<b>D/C</b>	660	622	767	829	967	967	656	564	693	544	598	682

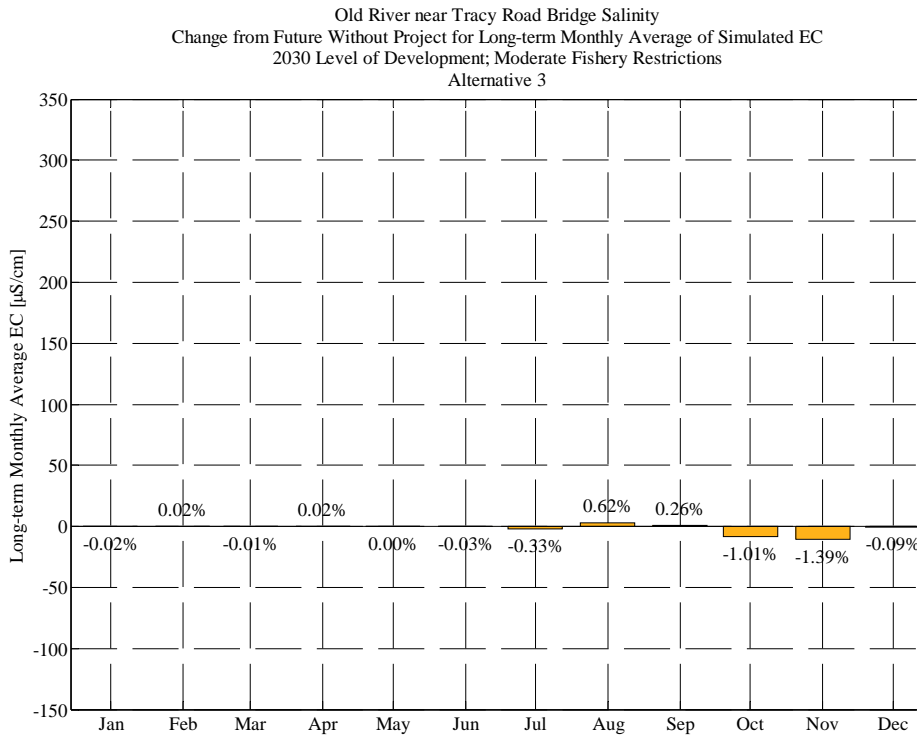
**Percent (%) Change from Future Without Project for Old River near Tracy Road Bridge  
(Alternative 3 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

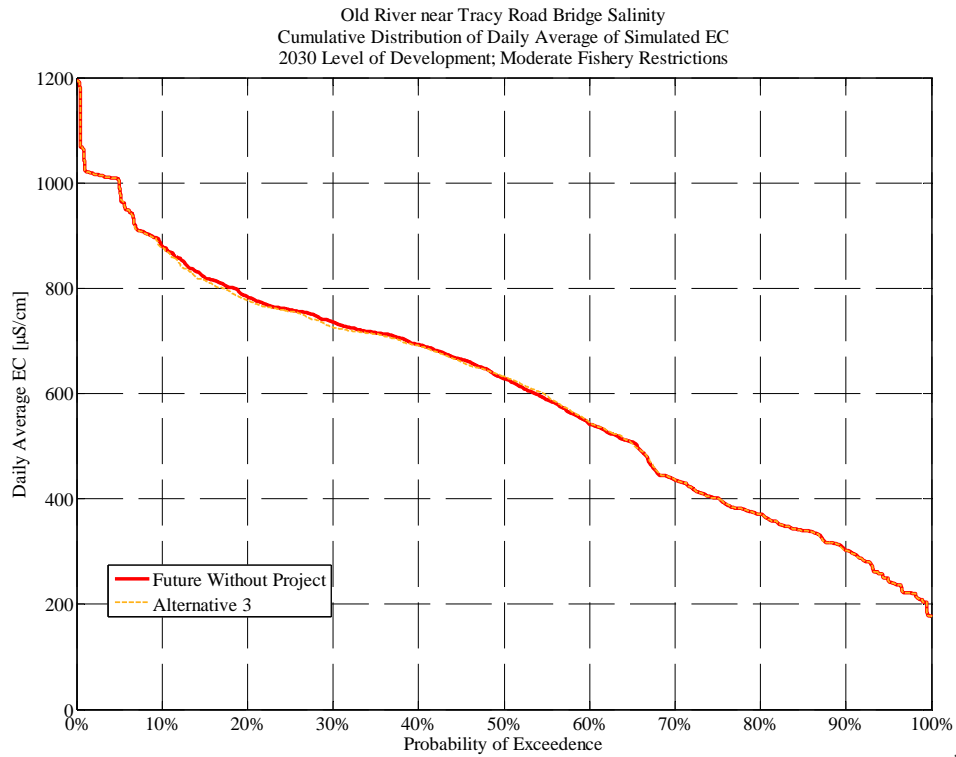
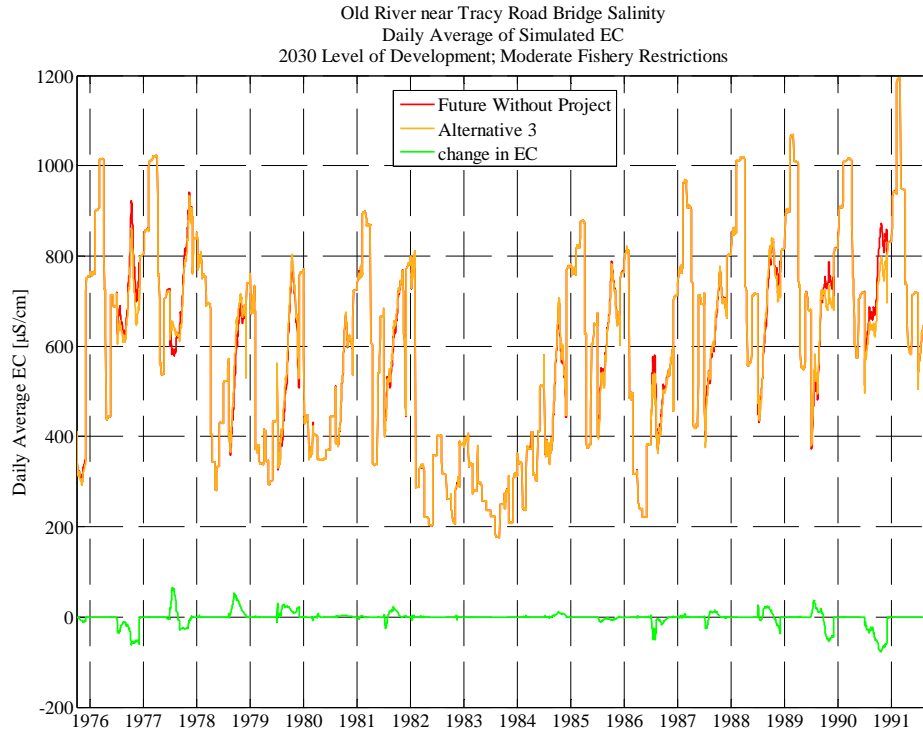
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	-0.6%	-2.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-4.1%	-2.1%	-3.0%
1977	-6.4%	-7.4%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.4%	8.0%	2.6%	-3.5%
1978	-3.0%	-0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%	8.3%
1979	4.5%	1.6%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%	5.4%	3.6%
1980	1.6%	2.6%	0.1%	0.0%	0.0%	-0.3%	0.3%	0.0%	0.0%	0.0%	0.2%	0.5%
1981	0.5%	0.2%	0.0%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	-2.1%	2.2%	2.7%
1982	0.7%	0.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	1.0%
1985	1.4%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.6%	-1.1%	-0.6%
1986	-0.7%	-0.3%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-5.3%	-2.3%	-2.8%
1987	-0.9%	-0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	-3.2%	1.7%	1.7%
1988	0.4%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	2.8%	2.6%
1989	0.4%	-2.6%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.1%	2.9%	0.7%
1990	-5.7%	-6.2%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-3.6%	-4.2%	-6.9%
1991	-8.5%	-7.7%	-0.5%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
<b>Avg</b>	-1.0%	-1.4%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	0.6%	0.3%
<b>W/AN/BN</b>	0.4%	0.5%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	-0.6%	0.7%	1.5%
<b>D/C</b>	-2.2%	-2.8%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.5%	-0.7%



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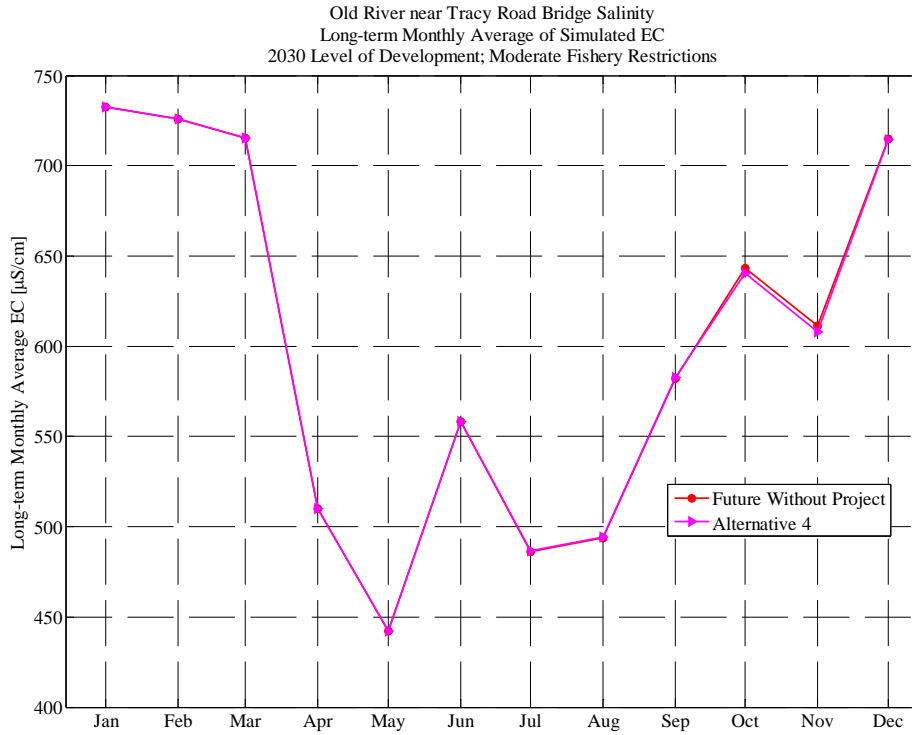


**Alternative 4****Old River near Tracy Road Bridge Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 4****2030 Level of Development; Moderate Fishery Restrictions**

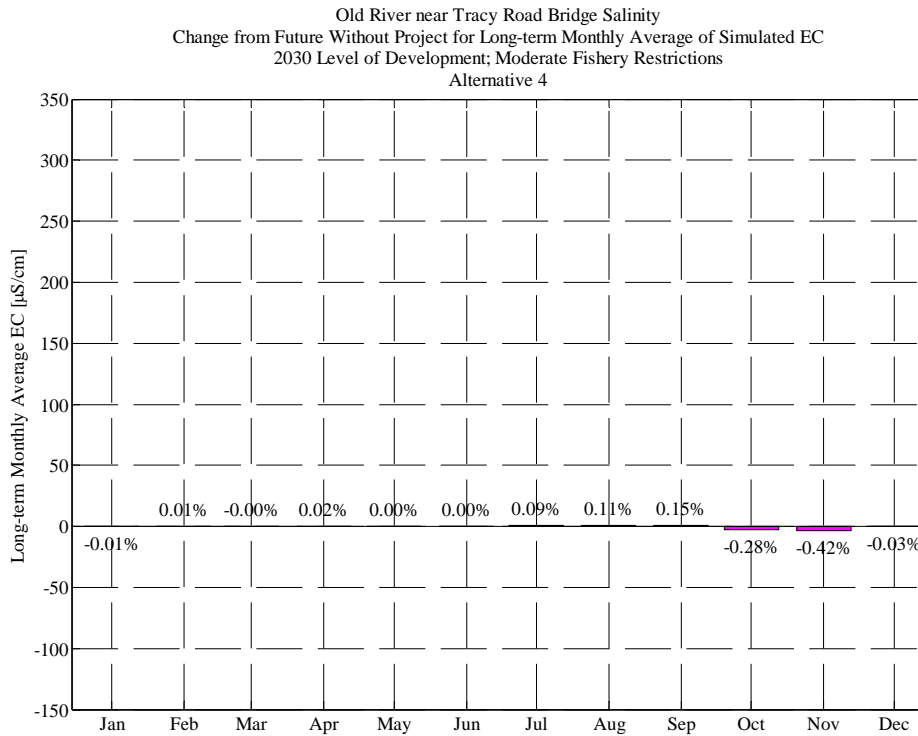
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	324	325	733	759	888	1,004	637	551	692	670	632	701
1977	804	690	790	851	990	1,020	730	601	722	605	614	677
1978	805	894	834	796	756	696	385	309	426	518	415	523
1979	659	670	730	696	391	342	378	300	426	378	443	617
1980	764	617	748	453	364	403	352	350	370	442	404	500
1981	639	615	713	756	883	871	506	427	648	487	540	635
1982	722	642	765	775	309	332	224	204	354	400	321	263
1983	224	290	380	392	340	281	302	259	237	223	179	247
1984	266	214	311	342	245	368	362	353	503	386	373	538
1985	635	529	758	767	814	873	539	477	642	485	548	666
1986	752	671	753	806	504	321	249	222	376	527	414	472
1987	528	567	697	762	941	914	620	535	697	506	562	641
1988	737	696	790	849	992	1,018	699	618	716	479	607	756
1989	807	741	803	891	1,044	1,015	704	611	688	476	536	706
1990	739	733	805	898	998	1,015	754	626	717	616	671	707
1991	841	833	822	926	1,154	973	717	632	718	586	650	672
<b>Avg</b>	640	608	714	733	726	715	510	442	558	487	494	583
<b>W/AN/BN</b>	599	571	646	609	415	392	322	285	385	411	364	451
<b>D/C</b>	673	637	768	829	967	967	656	564	693	546	595	685

**Percent (%) Change from Future Without Project for Old River near Tracy Road Bridge  
(Alternative 4 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-2.0%
1977	-5.3%	-4.9%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%	0.2%	-1.1%
1978	-1.6%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1979	0.0%	0.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.1%	0.9%	2.9%
1980	1.4%	0.4%	0.0%	0.0%	0.0%	-0.3%	0.2%	0.0%	0.0%	0.0%	0.5%	1.6%
1981	0.8%	0.4%	0.0%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
1982	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.8%
1987	0.7%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1989	0.0%	-1.2%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%
1990	-0.6%	-1.6%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
1991	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.3%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.2%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.8%
<b>D/C</b>	-0.5%	-0.8%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	-0.3%

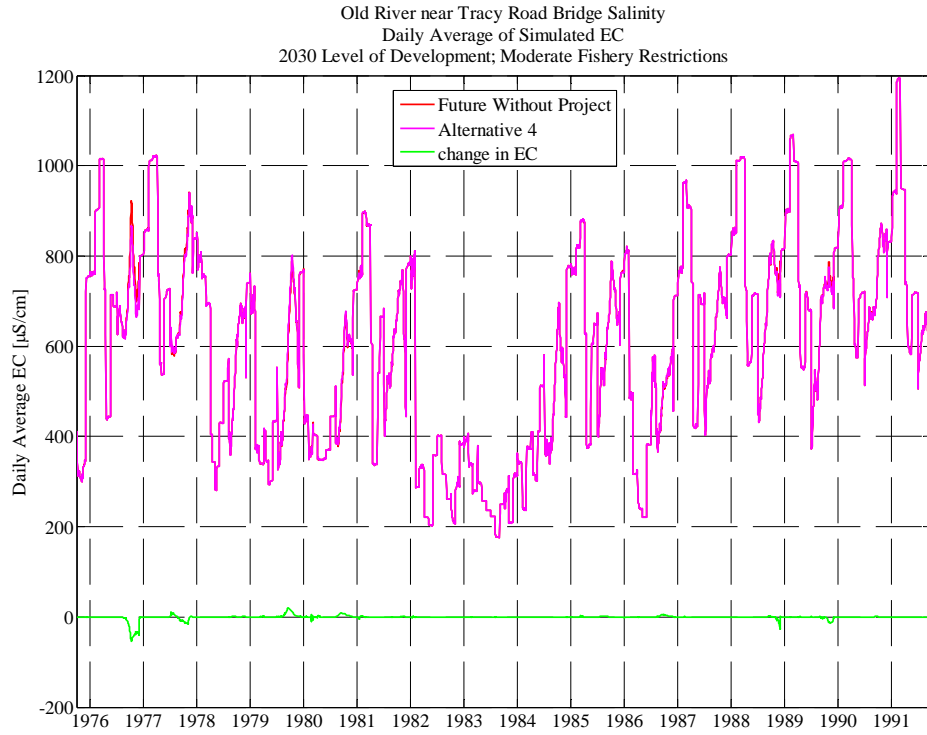


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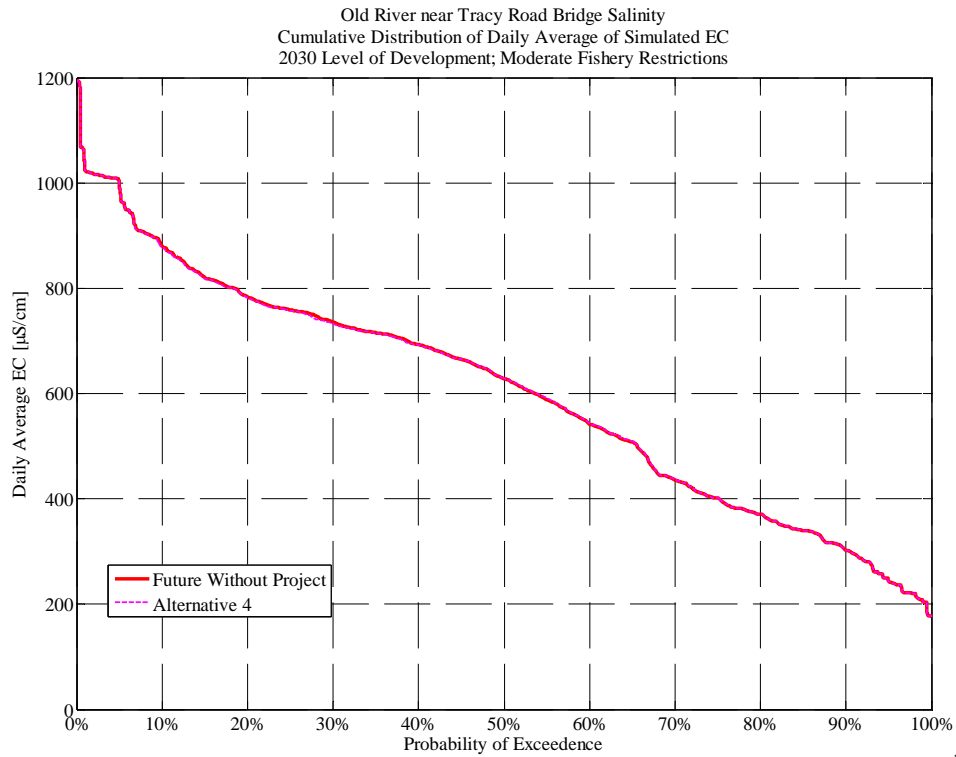


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05-Nov-2008 DS

## Old River near Middle River

### *Future Without Project*

**Old River near Middle River Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	403	474	745	744	889	1,003	587	563	682	649	567	600
1977	609	615	794	836	994	1,010	658	611	710	645	633	668
1978	662	708	827	744	736	676	375	304	422	516	446	461
1979	528	514	731	648	360	332	369	292	417	573	457	548
1980	506	535	754	425	342	398	343	343	364	439	420	498
1981	454	495	716	732	878	861	470	428	649	596	560	586
1982	551	585	772	711	292	313	221	199	350	395	313	260
1983	207	275	378	346	324	258	293	257	235	220	172	245
1984	331	209	303	333	229	362	351	346	499	549	458	477
1985	427	486	761	746	806	867	499	480	638	626	543	556
1986	551	562	751	787	456	313	236	215	372	559	447	455
1987	423	442	702	743	944	897	574	552	688	619	576	601
1988	587	605	792	829	994	1,010	650	624	707	648	632	652
1989	657	653	805	880	1,053	1,006	648	617	672	600	578	583
1990	609	631	810	889	996	1,006	680	631	710	638	622	642
1991	637	653	822	920	1,176	954	665	635	708	647	634	660
<b>Avg</b>	509	528	716	707	717	704	476	443	551	557	504	531
<b>W/AN/BN</b>	477	484	645	570	391	379	313	279	380	464	388	420
<b>D/C</b>	534	562	772	813	970	957	603	571	685	630	594	616

**Alternative 1**

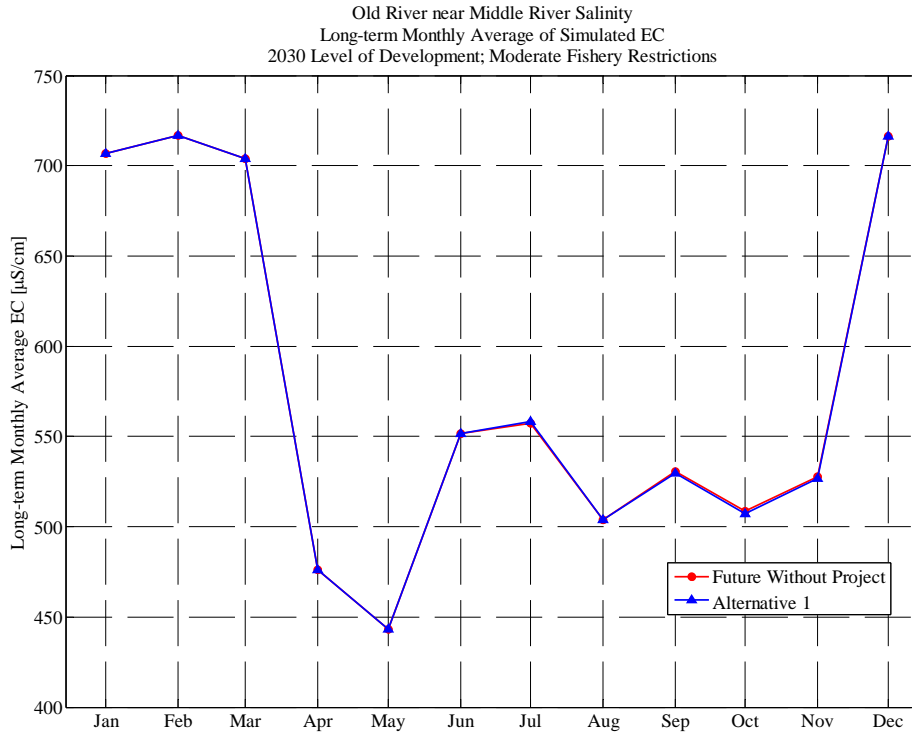
**Old River near Middle River Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )**

**Alternative 1****2030 Level of Development; Moderate Fishery Restrictions**

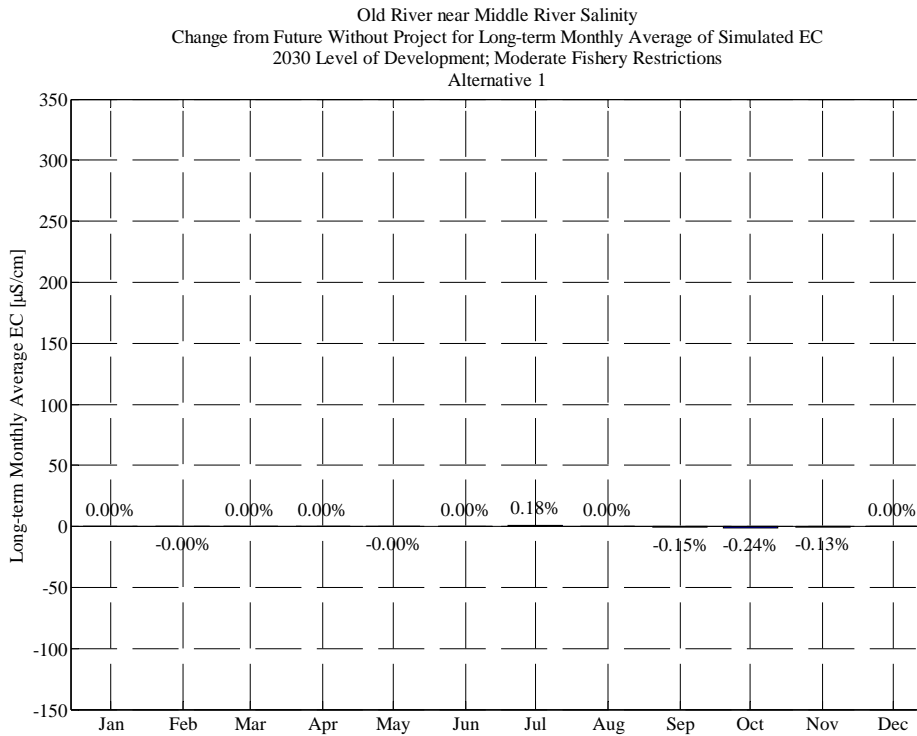
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	403	475	745	744	889	1,003	587	563	682	649	567	598
1977	602	610	794	836	994	1,010	658	611	710	654	638	664
1978	652	704	827	744	736	676	375	304	422	516	446	461
1979	530	514	731	648	360	332	369	292	417	573	456	548
1980	505	535	754	425	342	398	343	343	364	439	420	498
1981	454	495	716	732	878	861	470	428	649	596	558	585
1982	550	585	772	711	292	313	221	199	350	395	313	260
1983	207	275	378	346	324	258	293	257	235	220	172	245
1984	331	209	303	333	229	362	351	346	499	551	459	477
1985	427	486	761	746	806	867	499	480	638	626	542	555
1986	550	562	751	787	456	313	236	215	372	559	447	455
1987	423	442	702	743	944	897	574	552	688	621	575	601
1988	587	606	792	829	994	1,010	650	624	707	650	636	653
1989	656	653	805	880	1,052	1,006	648	617	672	602	578	585
1990	614	630	810	889	996	1,006	680	631	710	637	619	635
1991	623	649	822	920	1,176	954	665	635	708	647	634	655
<b>Avg</b>	507	527	716	707	717	704	476	443	551	558	504	530
<b>W/AN/BN</b>	475	484	645	570	391	379	313	279	380	465	388	420
<b>D/C</b>	532	561	772	813	970	957	603	571	685	631	594	615

**Percent (%) Change from Future Without Project for Old River near Middle River Salinity****(Alternative 1 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

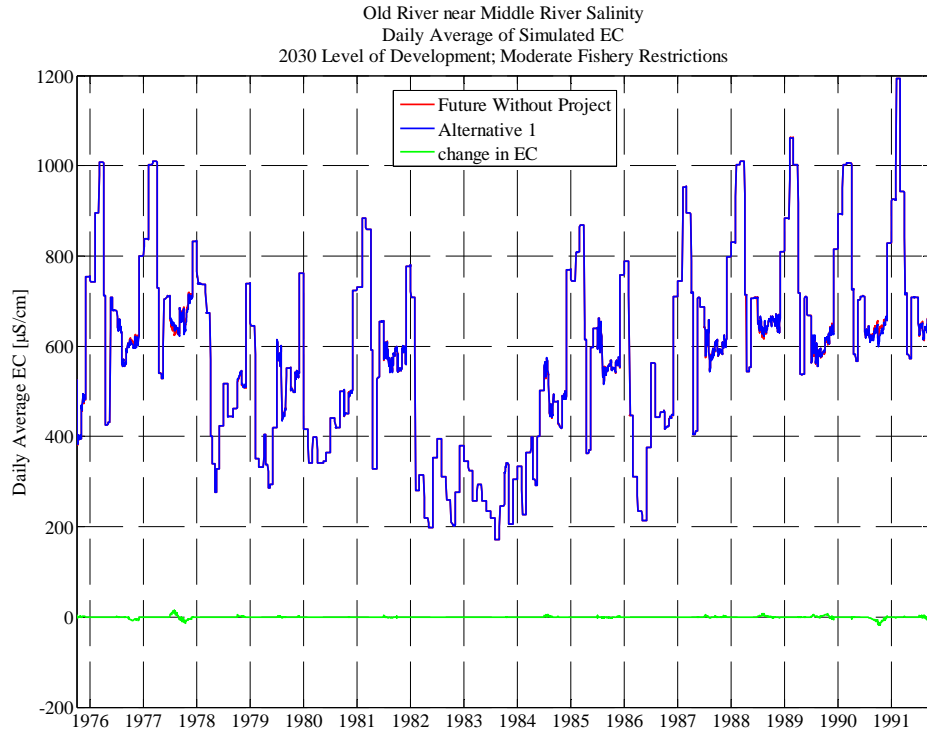
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%
1977	-1.2%	-0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.7%	-0.6%
1978	-1.5%	-0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.5%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	-0.2%	0.0%
1980	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.1%
1982	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.2%	0.0%
1985	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.1%
1986	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	-0.2%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.6%	0.1%
1989	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.3%
1990	0.8%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.5%	-1.1%
1991	-2.1%	-0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.7%
<b>Avg</b>	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	-0.1%
<b>W/AN/BN</b>	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
<b>D/C</b>	-0.3%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	-0.3%



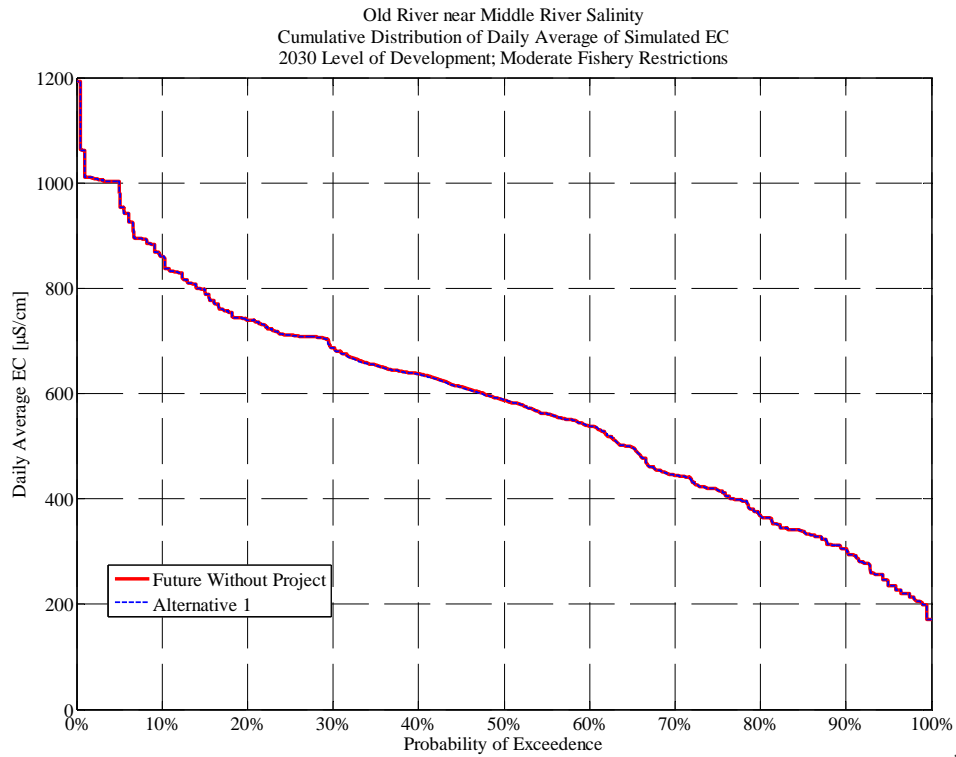
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 2**

**Old River near Middle River Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 2**

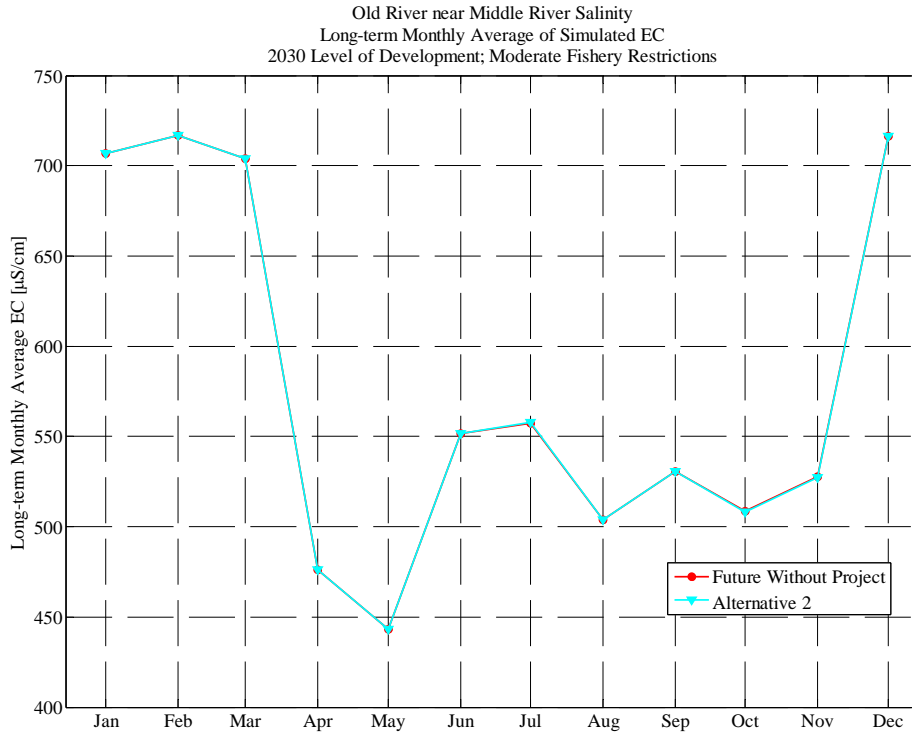
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	403	475	745	744	889	1,003	587	563	682	649	567	598
1977	602	610	794	836	994	1,010	658	611	710	644	634	669
1978	660	707	827	744	736	676	375	304	422	516	446	461
1979	530	514	731	648	360	332	369	292	417	573	456	548
1980	505	536	754	425	342	398	343	343	364	439	420	498
1981	454	495	716	732	878	861	470	428	649	596	558	585
1982	550	587	772	711	292	313	221	199	350	395	313	260
1983	207	275	378	346	324	258	293	257	235	220	172	245
1984	331	209	303	333	229	362	351	346	499	551	459	477
1985	427	486	761	746	806	867	499	480	638	626	542	555
1986	550	562	751	787	456	313	236	215	372	559	447	455
1987	423	442	702	743	944	897	574	552	688	622	576	601
1988	587	606	792	829	994	1,010	650	624	707	651	640	656
1989	658	653	805	880	1,052	1,006	648	617	672	602	578	585
1990	614	630	810	889	996	1,006	680	631	710	637	619	635
1991	624	648	822	920	1,176	954	665	635	708	647	635	658
<b>Avg</b>	508	527	716	707	717	704	476	443	551	558	504	530
<b>W/AN/BN</b>	476	484	645	570	391	379	313	279	380	465	388	420
<b>D/C</b>	532	561	772	813	970	957	603	571	685	630	594	616

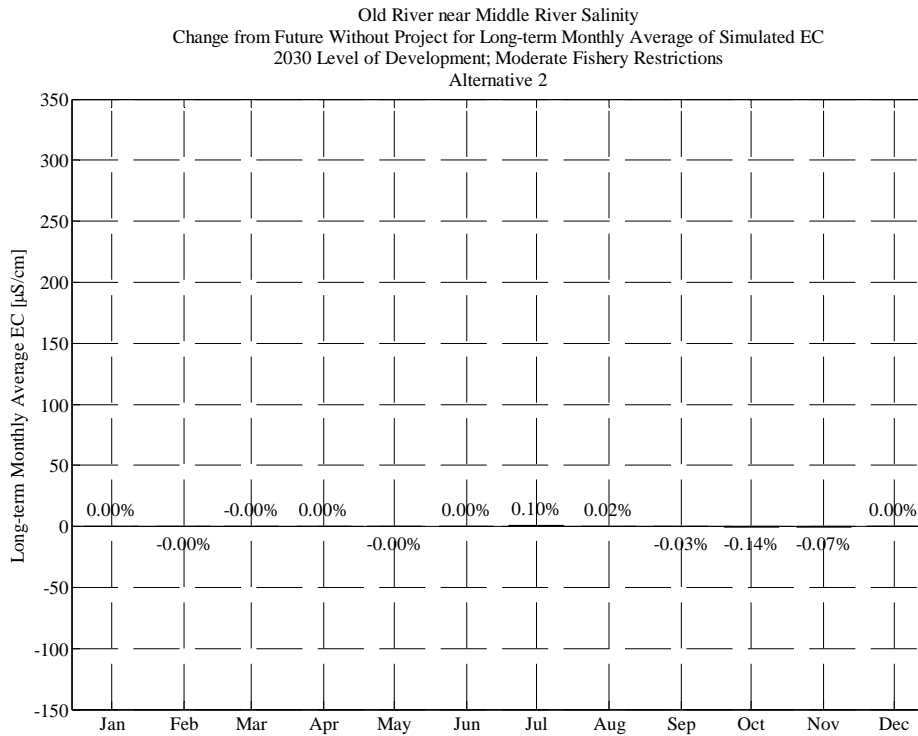
**Percent (%) Change from Future Without Project for Old River near Middle River Salinity  
(Alternative 2 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

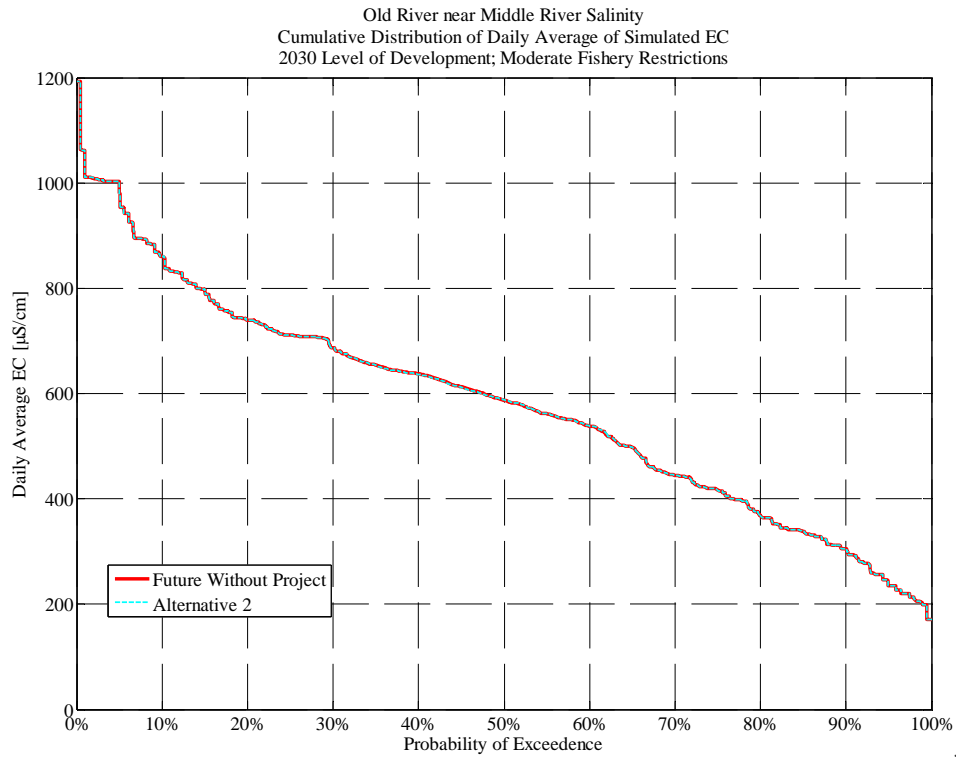
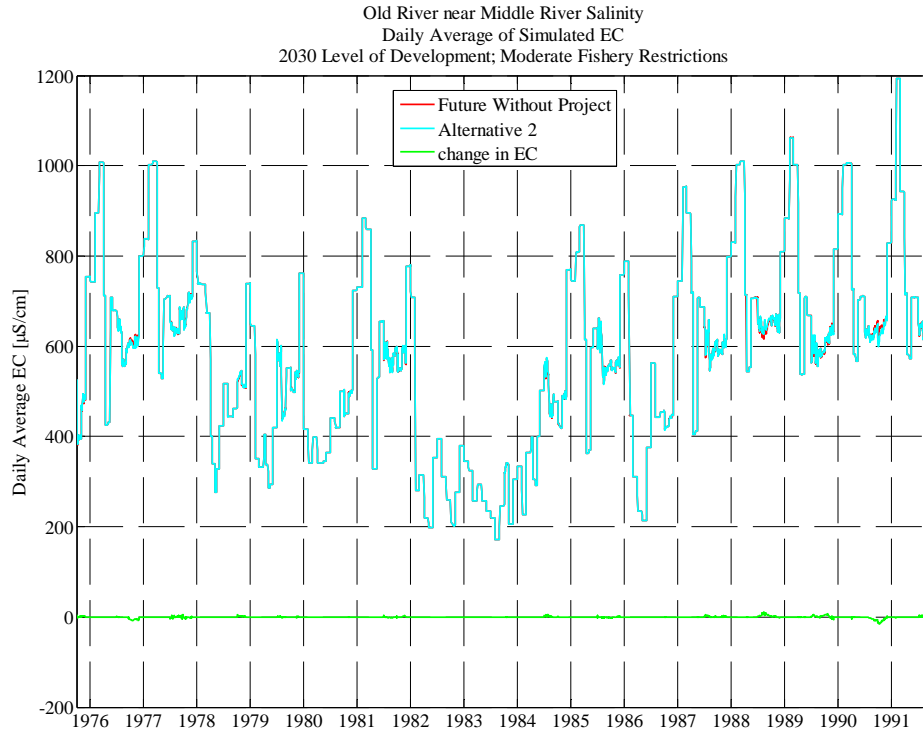
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%
1977	-1.1%	-0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.1%	0.1%
1978	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.5%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	-0.2%	0.0%
1980	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	0.0%
1982	-0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.2%	0.0%
1985	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.1%
1986	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	-0.1%	0.1%
1988	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	1.2%	0.6%
1989	0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.3%
1990	0.8%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.5%	-1.1%
1991	-2.0%	-0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	-0.2%
<b>Avg</b>	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
<b>D/C</b>	-0.2%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	-0.1%



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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



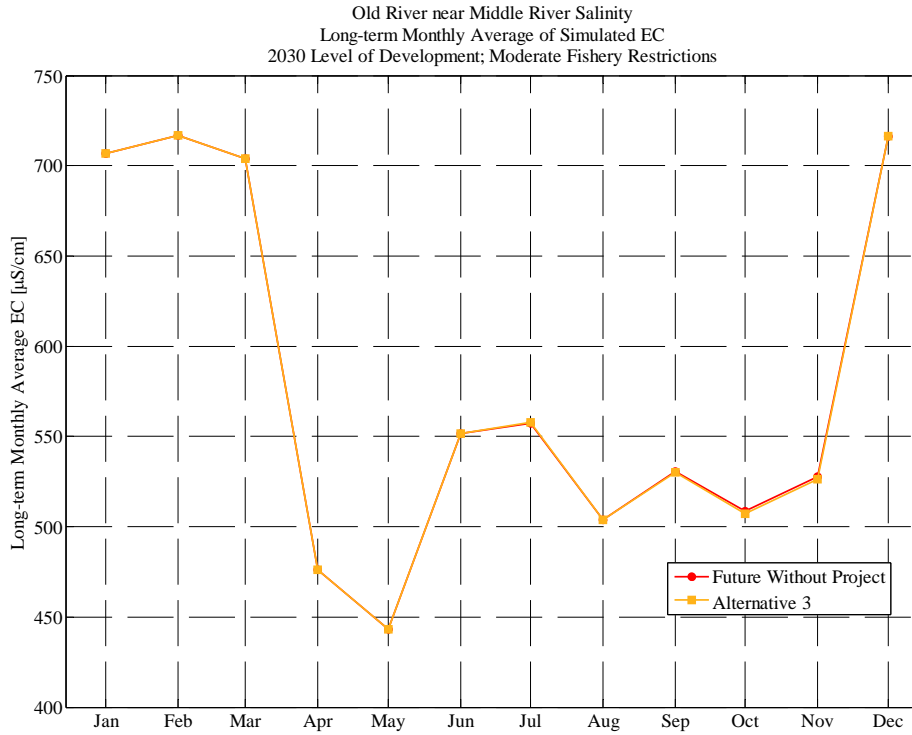


**Alternative 3****Old River near Middle River Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 3****2030 Level of Development; Moderate Fishery Restrictions**

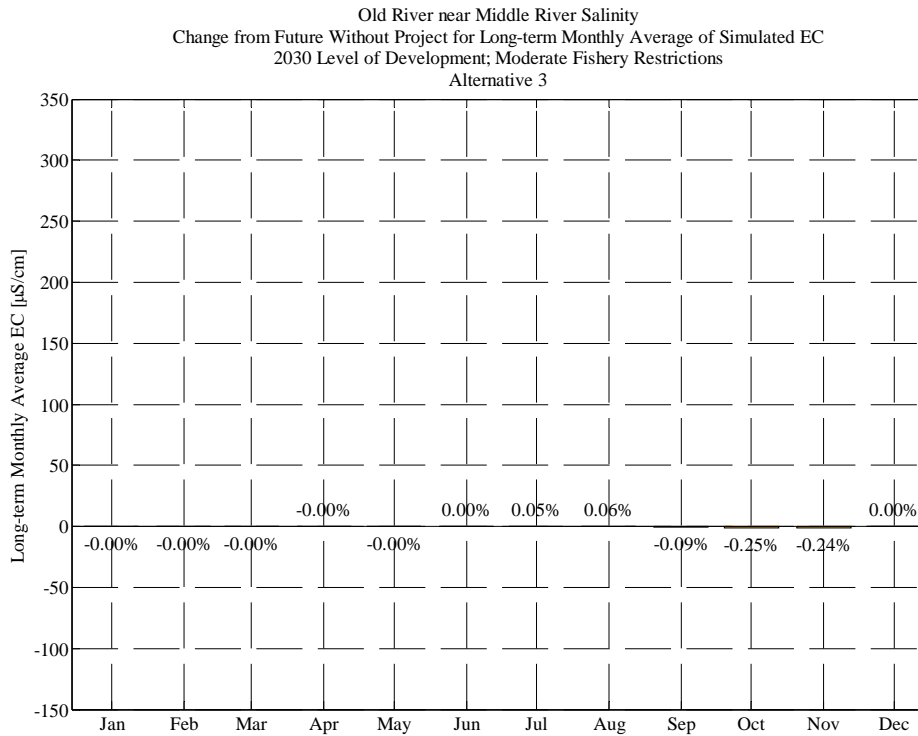
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	403	473	745	744	889	1,003	587	563	682	645	564	597
1977	601	608	794	836	994	1,010	658	611	710	653	637	665
1978	655	706	827	744	736	676	375	304	422	516	446	461
1979	532	515	731	648	360	332	369	292	417	575	459	548
1980	507	537	754	425	342	398	343	343	364	439	420	498
1981	454	495	716	732	878	861	470	428	649	596	561	587
1982	552	585	772	711	292	313	221	199	350	395	313	260
1983	207	275	378	346	324	258	293	257	235	220	172	245
1984	331	209	303	333	229	362	351	346	499	549	458	477
1985	427	486	761	746	806	867	499	480	638	626	542	555
1986	550	561	751	787	456	313	236	215	372	559	447	455
1987	423	442	702	743	944	897	574	552	688	618	578	602
1988	588	606	792	829	994	1,010	650	624	707	649	634	655
1989	657	651	805	880	1,052	1,006	648	617	672	603	581	584
1990	602	625	810	889	996	1,006	680	631	710	634	616	634
1991	624	644	822	920	1,176	954	665	635	708	647	634	660
<b>Avg</b>	507	526	716	707	717	704	476	443	551	558	504	530
<b>W/AN/BN</b>	476	484	645	570	391	379	313	279	380	465	388	420
<b>D/C</b>	531	559	772	813	970	957	603	571	685	630	594	615

**Percent (%) Change from Future Without Project for Old River near Middle River Salinity  
(Alternative 3 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

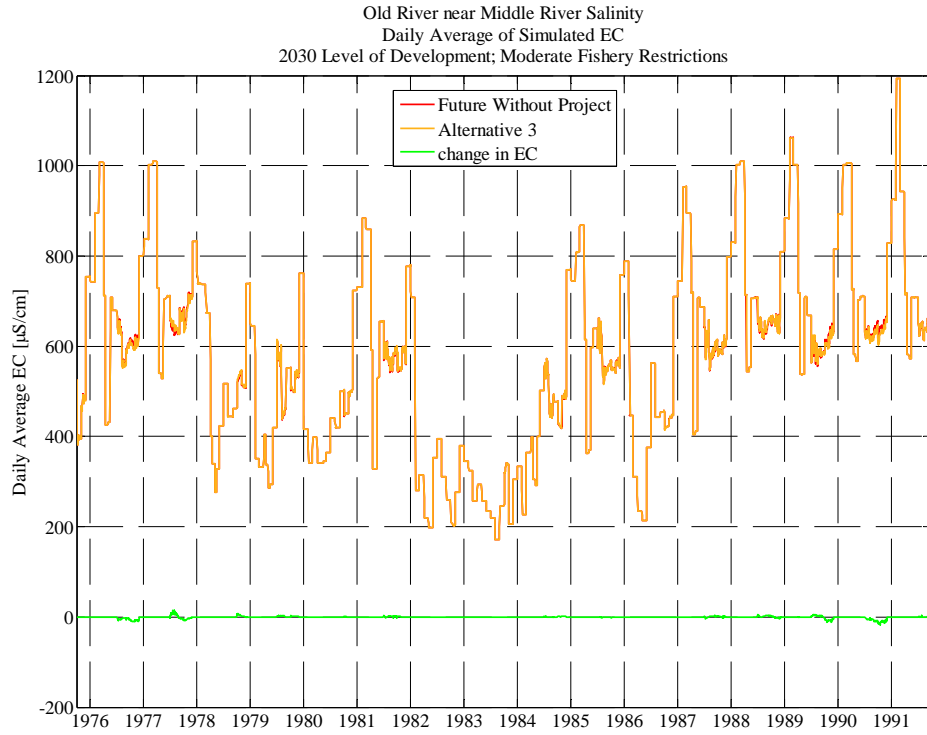
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.7%	-0.5%	-0.5%
1977	-1.4%	-1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	0.6%	-0.5%
1978	-1.0%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.8%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.0%
1980	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%
1982	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
1985	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.2%	-0.1%
1986	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.3%	0.3%	0.2%
1988	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%	0.4%
1989	0.1%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.5%	0.2%
1990	-1.1%	-1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.5%	-0.9%	-1.3%
1991	-2.0%	-1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.2%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	-0.1%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%
<b>D/C</b>	-0.5%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	-0.2%



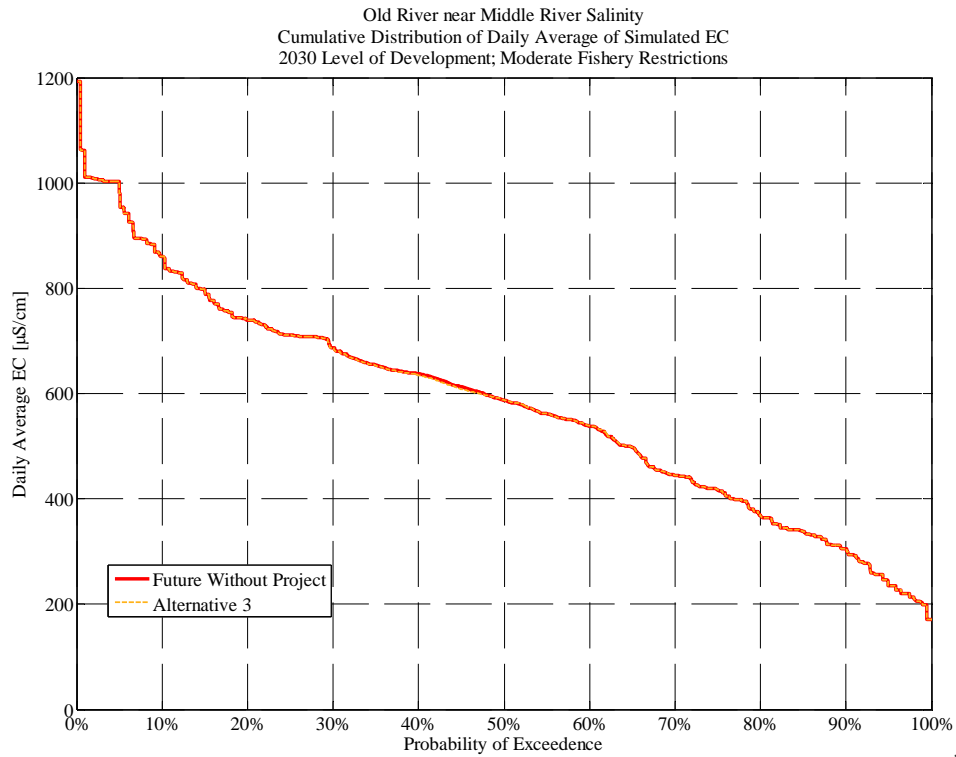
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 4**

**Old River near Middle River Salinity  
Monthly Average of Simulated Values (EC, µS/cm)**

**Alternative 4**

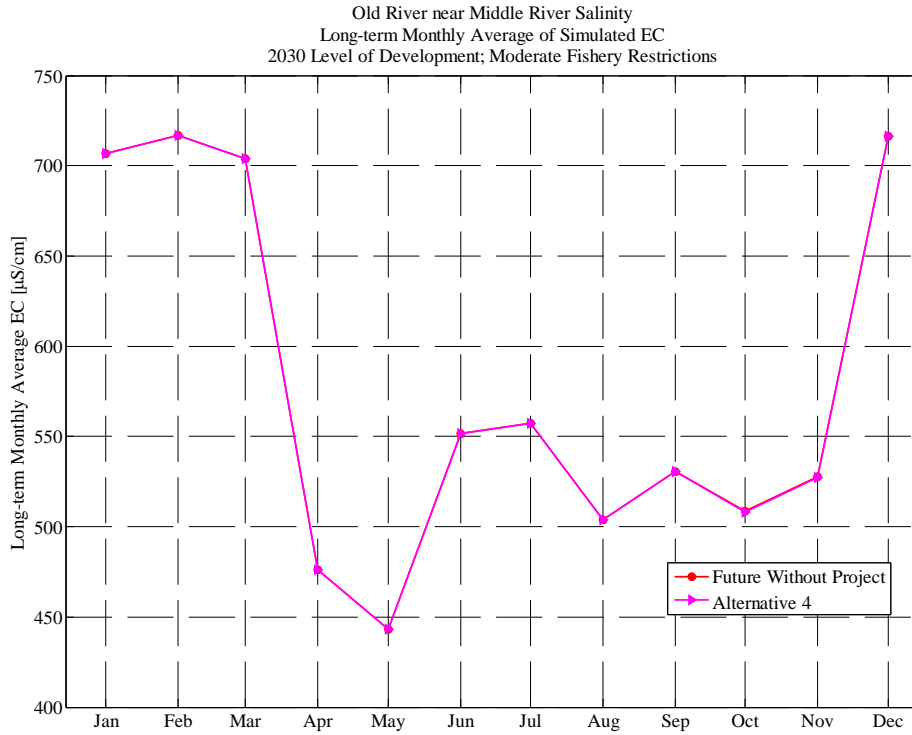
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	403	474	745	744	889	1,003	587	563	682	649	567	598
1977	602	611	794	836	994	1,010	658	611	710	645	634	667
1978	660	708	827	744	736	676	375	304	422	516	446	461
1979	528	514	731	648	360	332	369	292	417	573	457	548
1980	507	535	754	425	342	398	343	343	364	439	420	498
1981	454	495	716	732	878	861	470	428	649	596	560	586
1982	550	585	772	711	292	313	221	199	350	395	313	260
1983	207	275	378	346	324	258	293	257	235	220	172	245
1984	331	209	303	333	229	362	351	346	499	549	458	477
1985	427	486	761	746	806	867	499	480	638	626	543	556
1986	551	562	751	787	456	313	236	215	372	559	447	455
1987	424	442	702	743	944	897	574	552	688	619	576	601
1988	587	605	792	829	994	1,010	650	624	707	648	632	653
1989	657	653	805	880	1,053	1,006	648	617	672	600	578	583
1990	609	629	810	889	996	1,006	680	631	710	638	622	642
1991	637	653	822	920	1,176	954	665	635	708	647	634	660
<b>Avg</b>	508	527	716	707	717	704	476	443	551	557	504	530
<b>W/AN/BN</b>	476	484	645	570	391	379	313	279	380	464	388	420
<b>D/C</b>	533	561	772	813	970	957	603	571	685	630	594	616

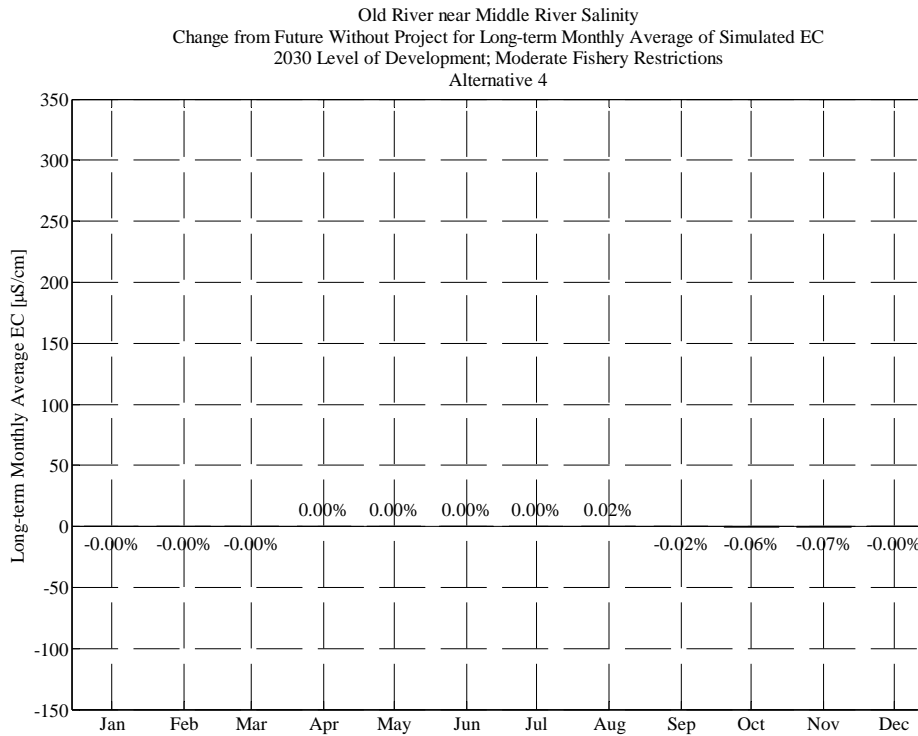
**Percent (%) Change from Future Without Project for Old River near Middle River Salinity  
(Alternative 4 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

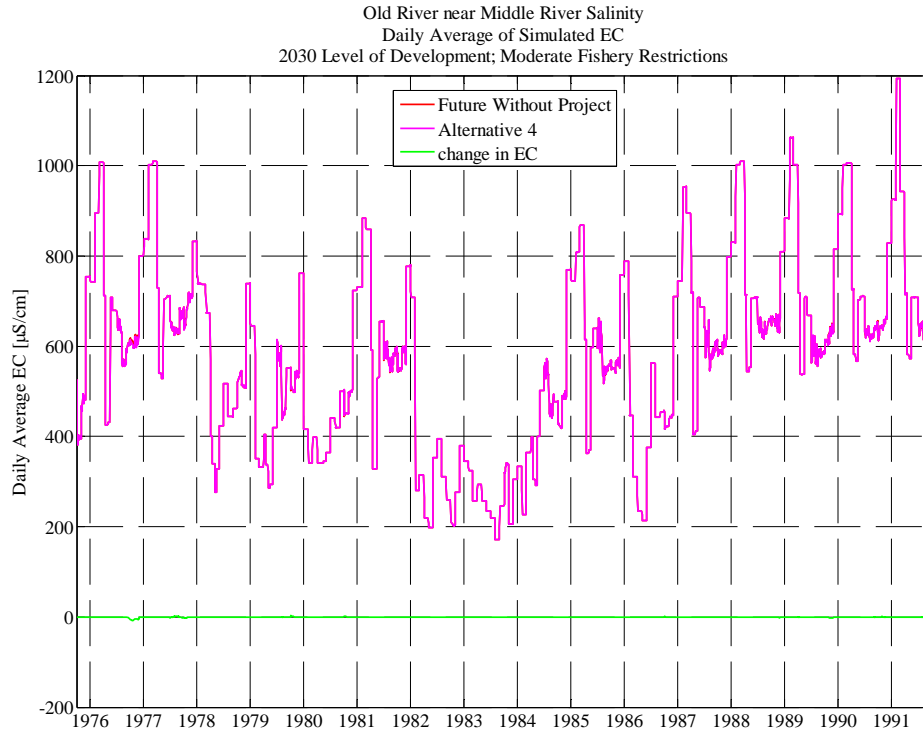
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%
1977	-1.1%	-0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	-0.1%
1978	-0.3%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
1980	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	-0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



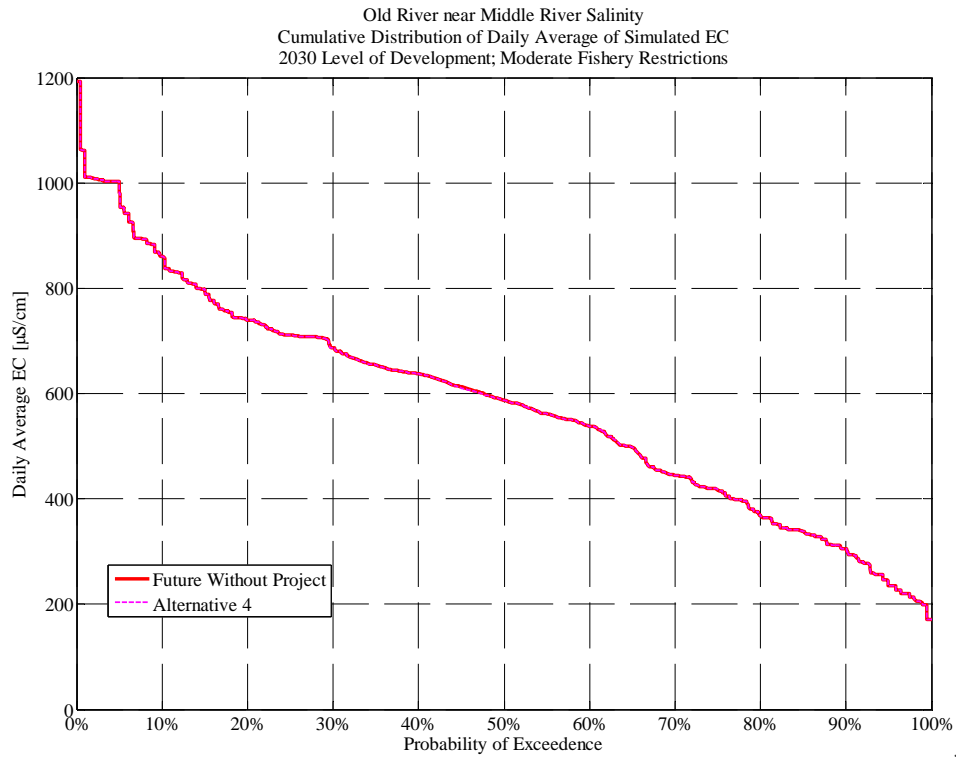
p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

## San Joaquin River at Brandt Bridge

### *Future Without Project*

#### San Joaquin River at Brandt Bridge Salinity Monthly Average of Simulated Values (EC, $\mu\text{S/cm}$ )

#### Future Without Project

#### 2030 Level of Development; Moderate Fishery Restrictions

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	416	516	742	743	886	1,001	598	555	688	679	598	639
1977	628	668	788	835	989	1,010	684	606	717	690	690	733
1978	711	728	825	744	735	675	376	303	421	515	447	460
1979	554	524	730	646	360	331	369	291	417	608	476	547
1980	498	562	750	425	342	397	342	343	364	438	420	497
1981	450	506	713	731	875	860	475	426	645	633	597	621
1982	563	632	770	709	292	312	221	199	350	394	313	260
1983	198	275	378	345	324	257	292	257	235	219	172	244
1984	341	210	303	332	228	360	351	345	497	596	499	477
1985	416	502	757	745	804	866	506	477	638	673	577	583
1986	557	587	747	787	456	313	235	214	371	558	448	454
1987	423	446	699	741	939	898	584	540	695	674	629	646
1988	619	656	784	828	989	1,010	663	620	711	697	680	686
1989	701	694	802	876	1,049	1,007	663	607	701	656	638	612
1990	654	685	805	888	994	1,007	714	628	716	685	657	685
1991	665	680	817	916	1,169	959	679	631	712	684	670	713
<b>Avg</b>	525	554	713	706	714	704	485	440	555	587	532	554
<b>W/AN/BN</b>	489	503	643	570	391	378	312	279	379	476	396	420
<b>D/C</b>	553	595	768	811	966	957	618	566	692	674	637	657

**Alternative 1**

**San Joaquin River at Brandt Bridge Salinity  
Monthly Average of Simulated Values (EC, µS/cm)**

**Alternative 1**

**2030 Level of Development; Moderate Fishery Restrictions**

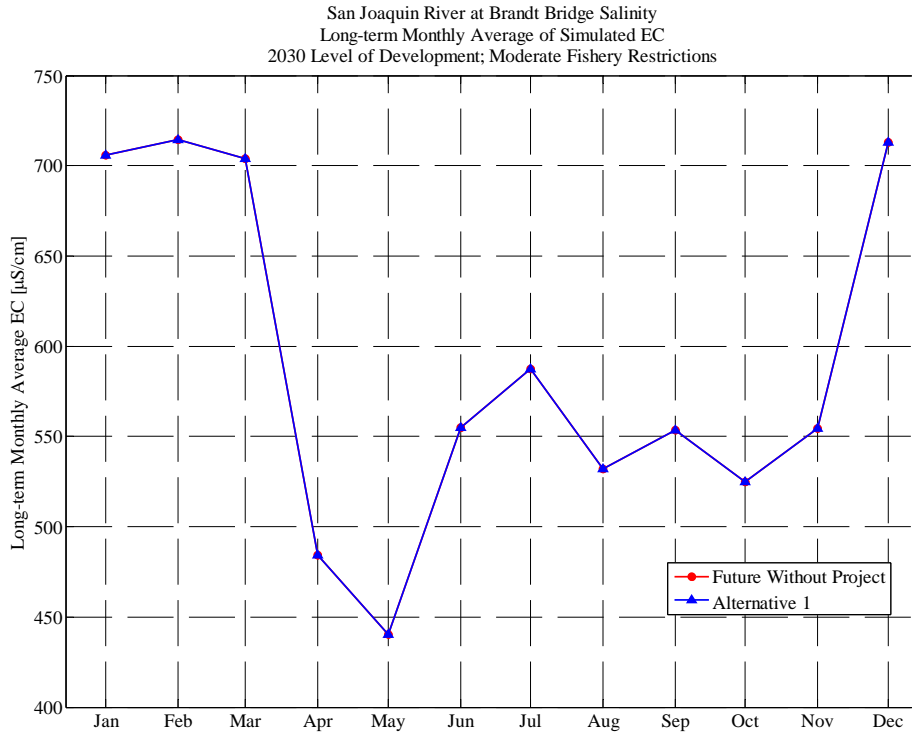
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	416	516	742	743	886	1,001	598	556	687	679	598	639
1977	628	668	788	835	989	1,010	684	606	718	690	690	733
1978	711	728	825	744	735	675	376	303	421	515	447	460
1979	554	524	730	646	360	331	369	291	417	608	476	547
1980	498	562	750	425	342	397	342	343	364	438	420	497
1981	450	506	713	731	875	860	475	426	645	633	597	621
1982	563	632	770	709	292	312	221	199	350	394	313	260
1983	198	275	378	345	324	257	292	257	235	219	172	244
1984	341	210	303	332	228	360	351	345	497	596	499	477
1985	416	502	757	745	804	866	506	477	638	673	577	583
1986	557	587	747	787	456	313	235	214	371	558	448	454
1987	423	446	699	741	939	898	584	540	694	674	629	646
1988	619	656	784	828	989	1,010	663	620	711	698	680	686
1989	701	694	802	876	1,048	1,007	662	606	701	655	638	612
1990	654	685	805	888	994	1,007	714	628	717	685	657	685
1991	665	680	817	916	1,169	959	679	631	712	684	670	713
<b>Avg</b>	525	554	713	706	714	704	484	440	555	588	532	554
<b>W/AN/BN</b>	489	503	643	570	391	378	312	279	379	476	396	420
<b>D/C</b>	553	595	768	811	966	957	618	566	692	675	637	657

**Percent (%) Change from Future Without Project for San Joaquin River at Brandt Bridge  
(Alternative 1 - Future Without Project) / Future Without Project**

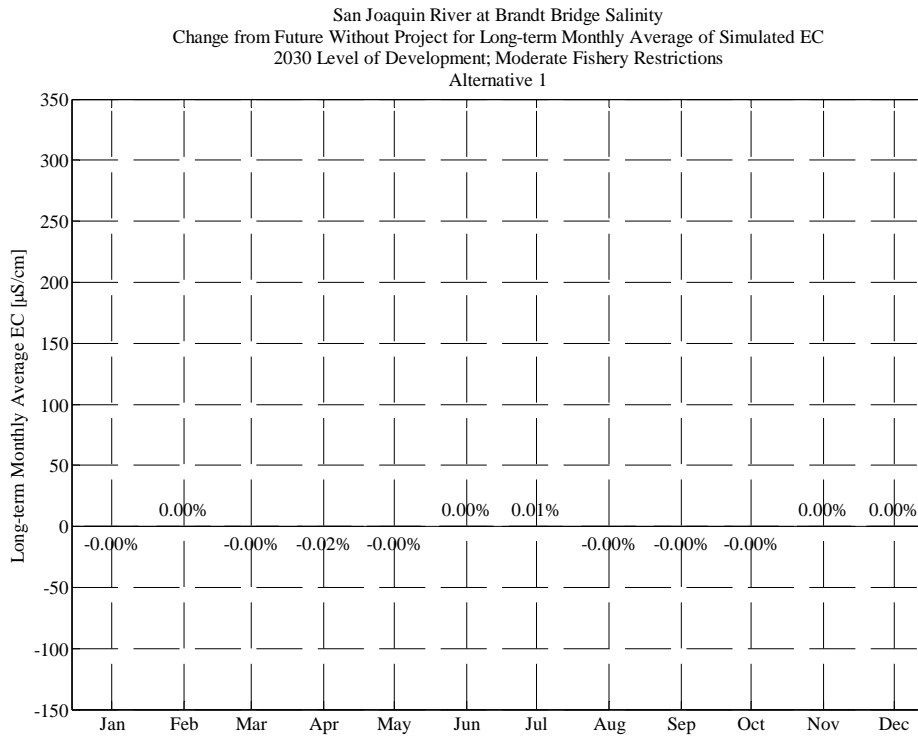
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	-0.1%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%	-0.1%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.1%	0.1%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

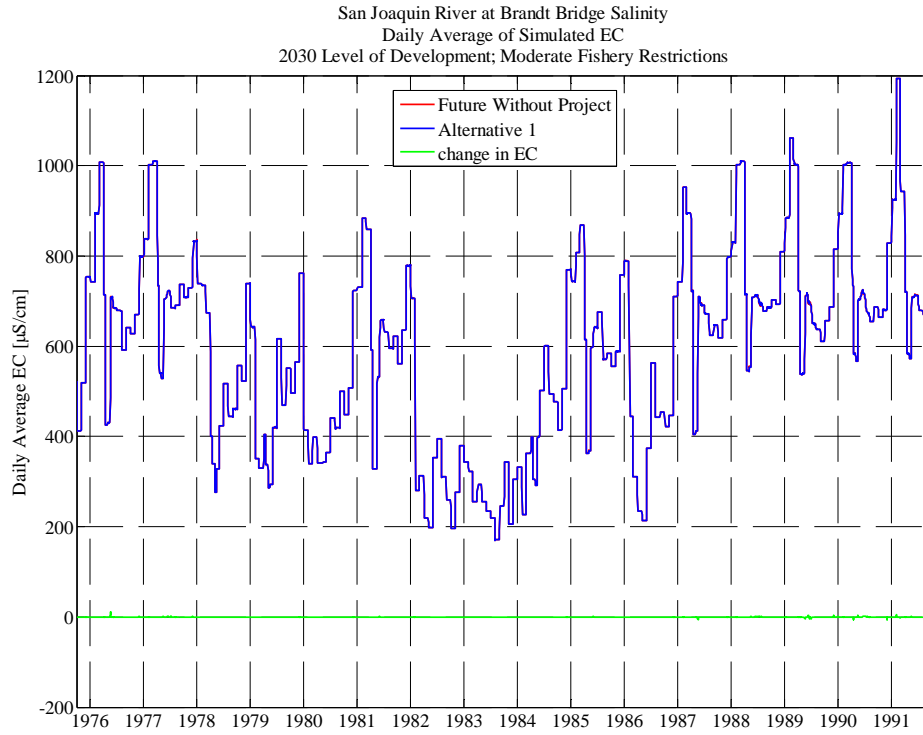




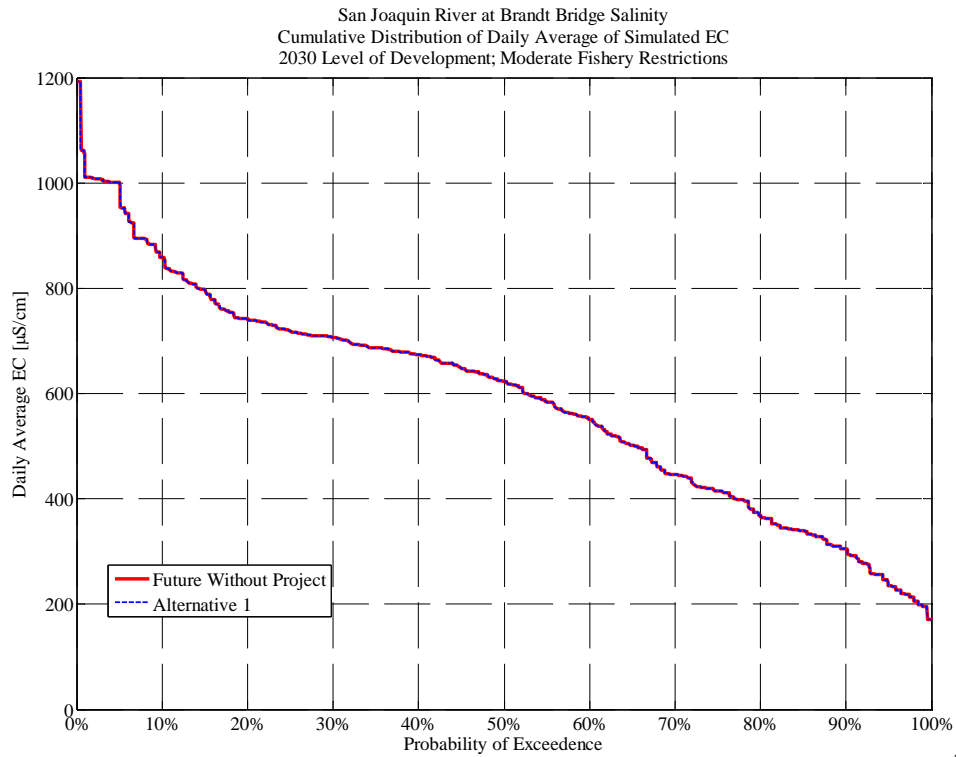
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



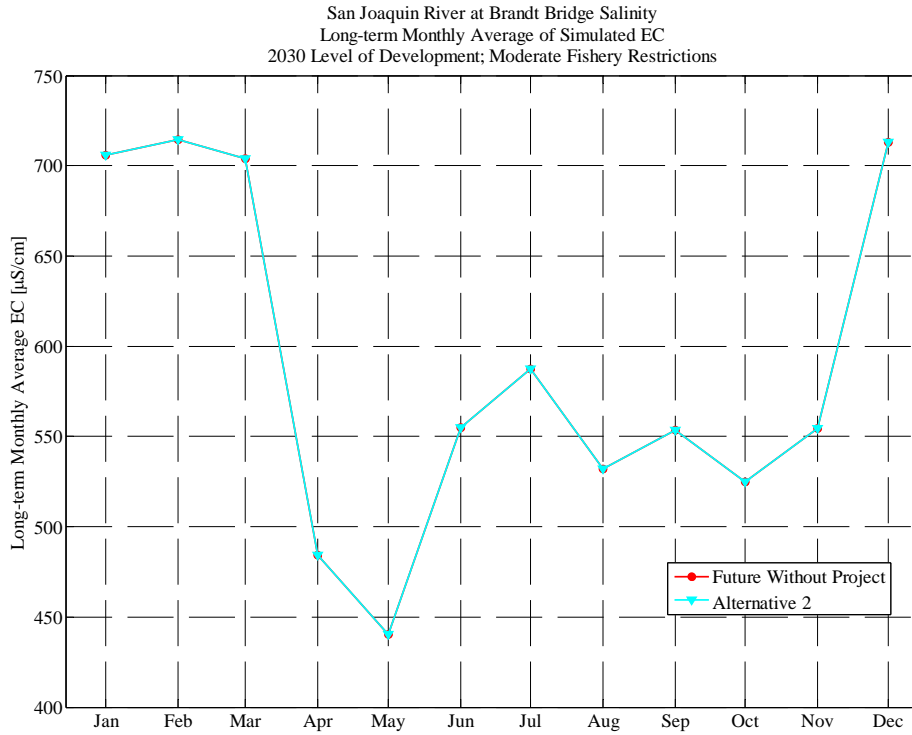
p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 2****San Joaquin River at Brandt Bridge Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 2****2030 Level of Development; Moderate Fishery Restrictions**

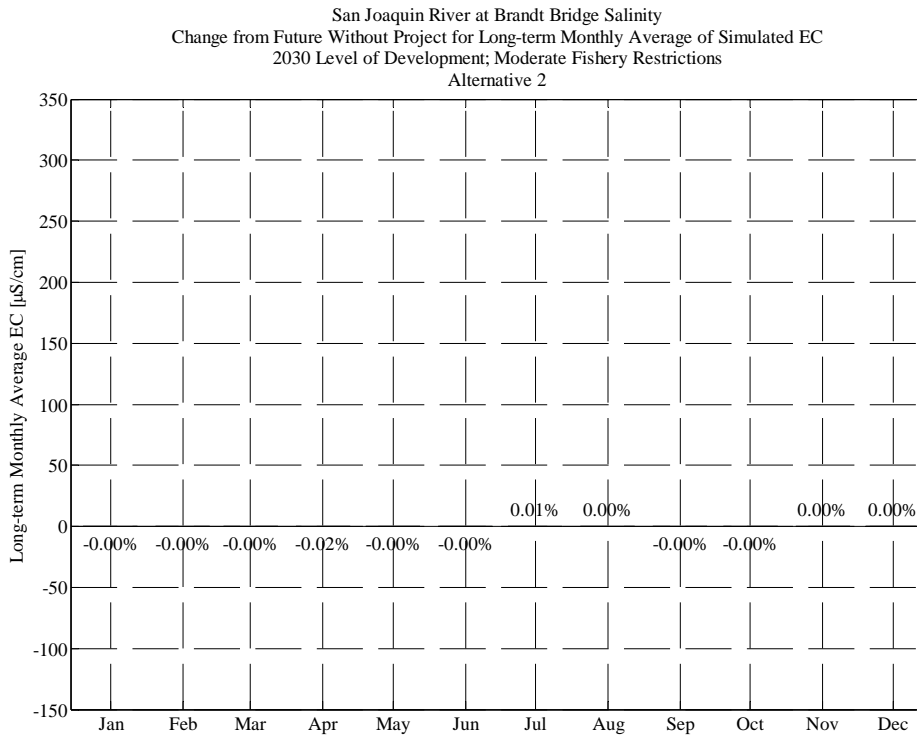
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	416	516	742	743	886	1,001	598	556	687	679	598	639
1977	628	668	788	835	989	1,010	684	606	717	690	690	733
1978	711	728	825	744	735	675	376	303	421	515	447	460
1979	554	524	730	646	360	331	369	291	417	608	476	547
1980	498	562	750	425	342	397	342	343	364	438	420	497
1981	450	506	713	731	875	860	475	426	645	633	597	621
1982	563	632	770	709	292	312	221	199	350	394	313	260
1983	198	275	378	345	324	257	292	257	235	219	172	244
1984	341	210	303	332	228	360	351	345	497	596	499	477
1985	416	502	757	745	804	866	506	477	638	673	577	583
1986	557	587	747	787	456	313	235	214	371	558	448	454
1987	423	446	699	741	939	898	584	540	694	674	629	646
1988	619	656	784	828	989	1,010	663	620	711	698	680	686
1989	701	694	802	876	1,048	1,007	662	606	701	655	638	612
1990	654	685	805	888	994	1,007	714	628	717	685	657	685
1991	665	680	817	916	1,169	959	679	631	712	684	670	713
<b>Avg</b>	525	554	713	706	714	704	484	440	555	588	532	554
<b>W/AN/BN</b>	489	503	643	570	391	378	312	279	379	476	396	420
<b>D/C</b>	553	595	768	811	966	957	618	566	691	675	637	657

**Percent (%) Change from Future Without Project for San Joaquin River at Brandt Bridge  
(Alternative 2 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

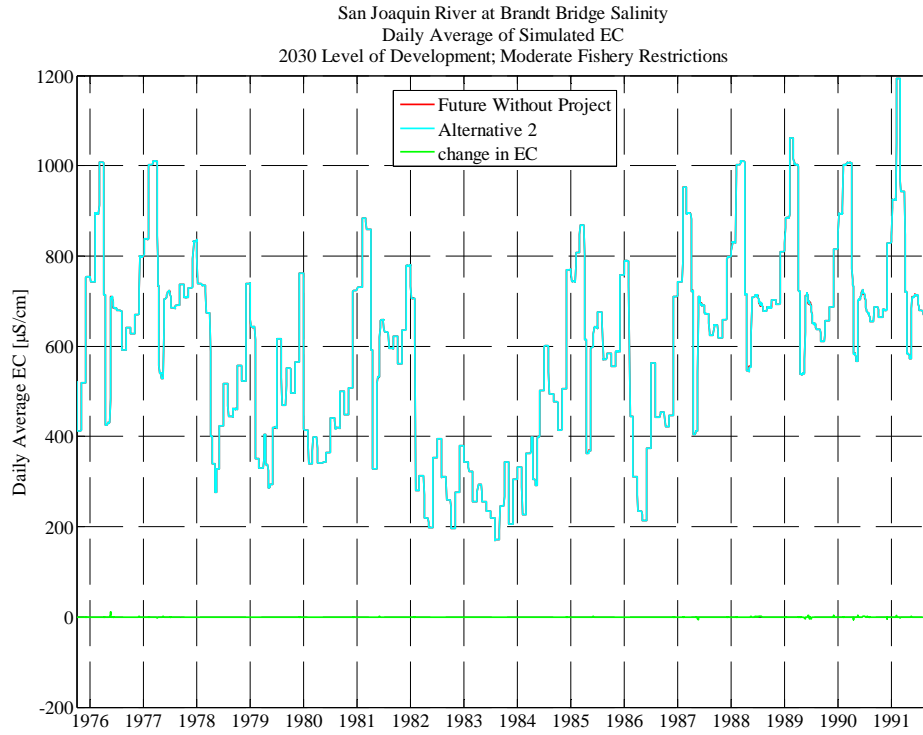
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	-0.1%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%	-0.1%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.1%	0.1%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



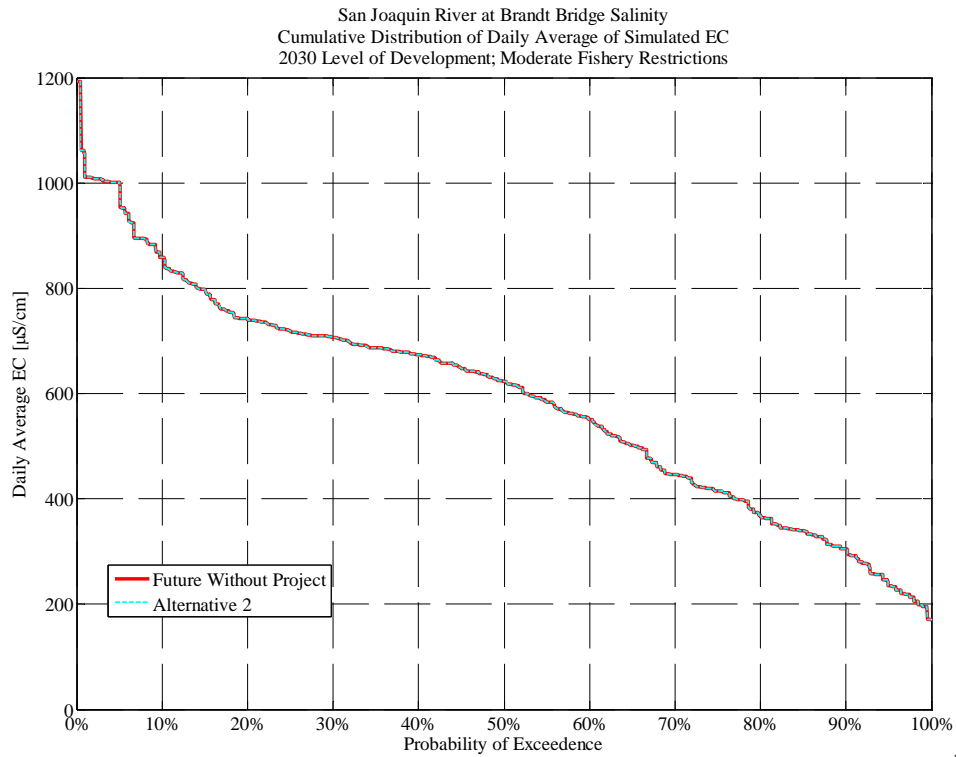
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 3**

**San Joaquin River at Brandt Bridge Salinity  
Monthly Average of Simulated Values (EC, µS/cm)**

**Alternative 3**

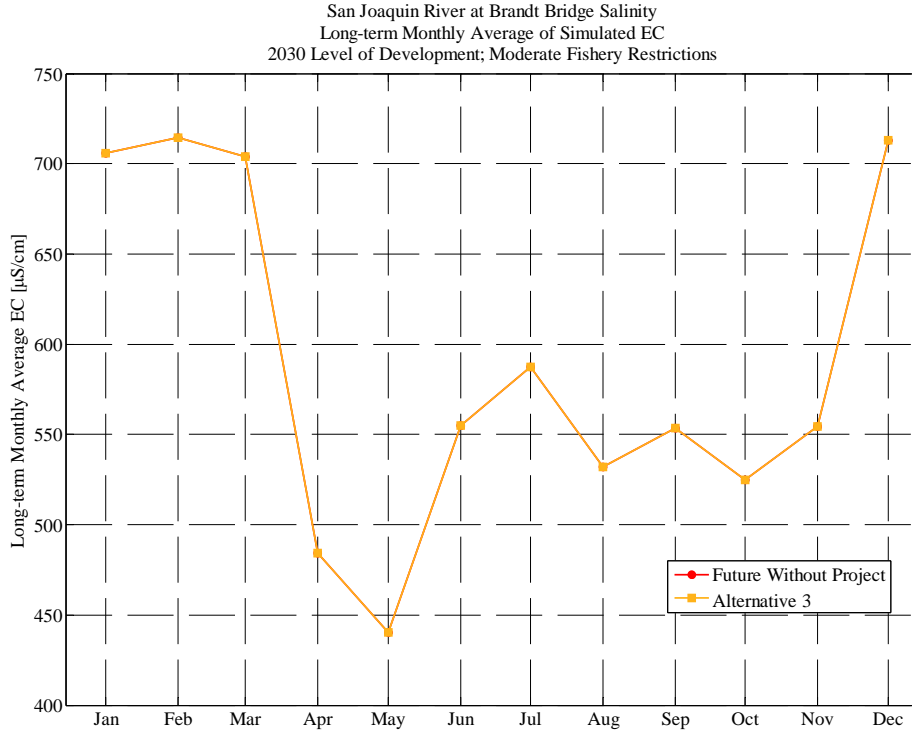
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	416	516	742	743	886	1,001	598	555	688	679	598	639
1977	628	668	788	835	989	1,010	684	606	716	689	690	733
1978	711	728	825	744	735	675	376	303	421	515	447	460
1979	554	524	730	646	360	331	369	291	417	608	476	547
1980	498	562	750	425	342	397	342	343	364	438	420	497
1981	450	506	713	731	875	860	475	426	645	633	597	621
1982	563	632	770	709	292	312	221	199	350	394	313	260
1983	198	275	378	345	324	257	292	257	235	219	172	244
1984	341	210	303	332	228	360	351	345	497	596	499	477
1985	416	502	757	745	804	866	506	477	638	673	577	583
1986	557	587	747	787	456	313	235	214	371	558	448	454
1987	423	446	699	741	939	898	584	540	694	674	629	646
1988	619	656	784	828	989	1,010	663	620	711	696	679	686
1989	701	694	802	876	1,048	1,007	663	607	703	656	638	612
1990	654	685	805	888	994	1,007	714	628	717	685	657	685
1991	665	680	817	916	1,169	959	679	631	712	684	670	713
<b>Avg</b>	525	554	713	706	714	704	484	440	555	587	532	554
<b>W/AN/BN</b>	489	503	643	570	391	378	312	279	379	476	396	420
<b>D/C</b>	553	595	768	811	966	957	618	566	691	674	637	657

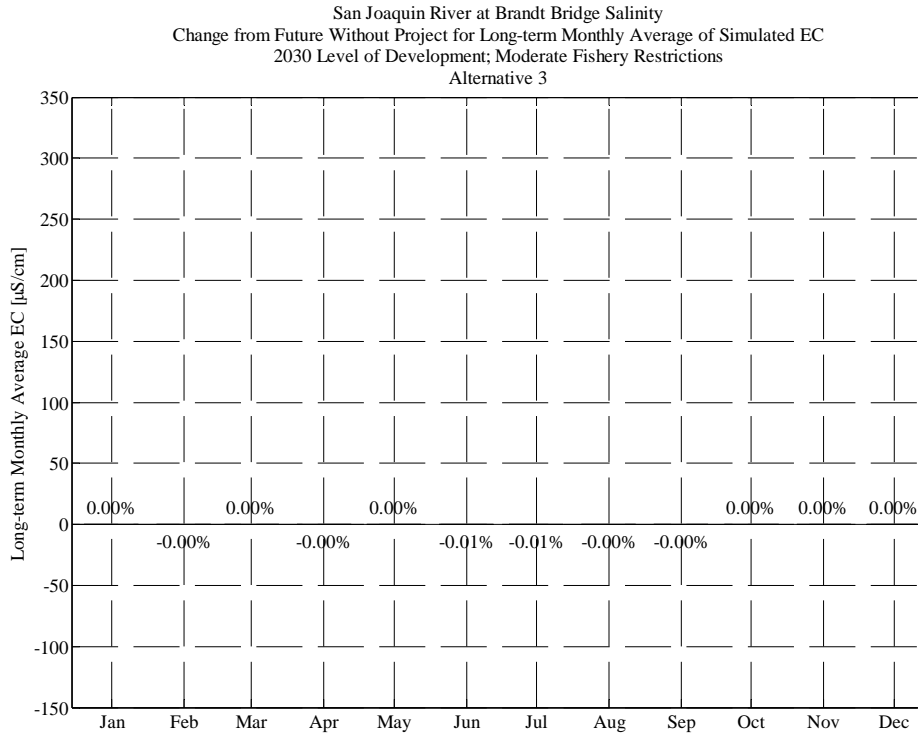
**Percent (%) Change from Future Without Project for San Joaquin River at Brandt Bridge  
(Alternative 3 - Future Without Project) / Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

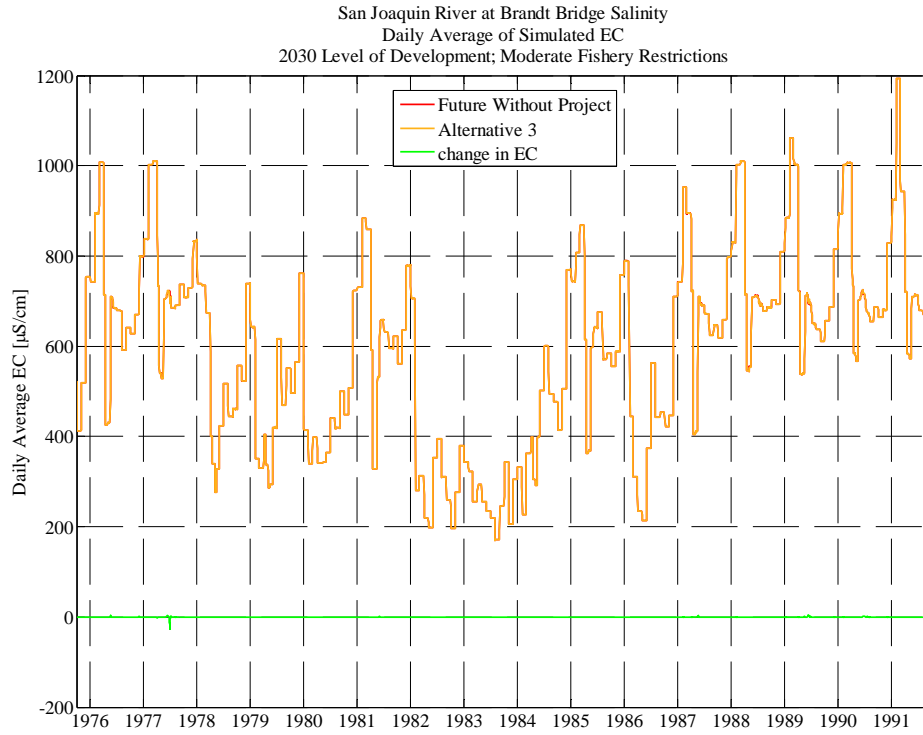
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.2%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



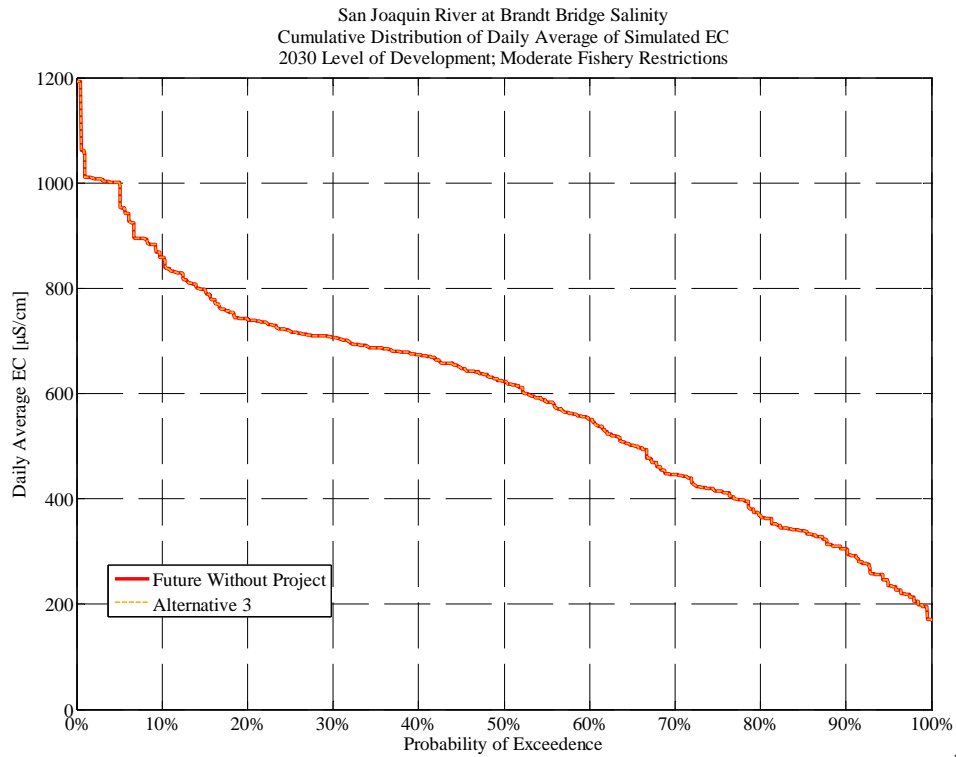
p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

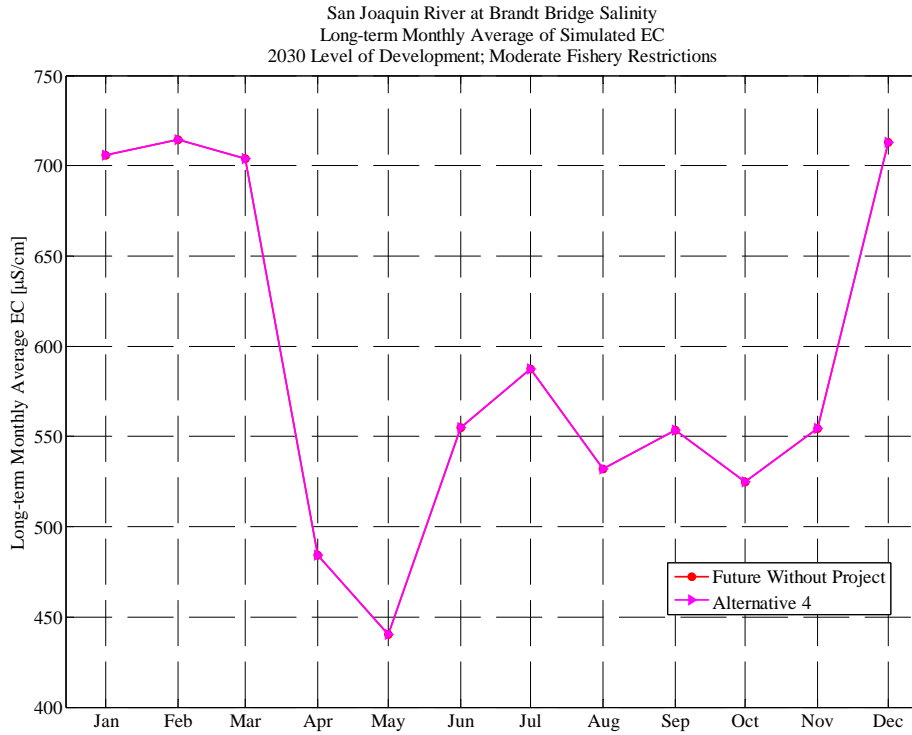


**Alternative 4****San Joaquin River at Brandt Bridge Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 4****2030 Level of Development; Moderate Fishery Restrictions**

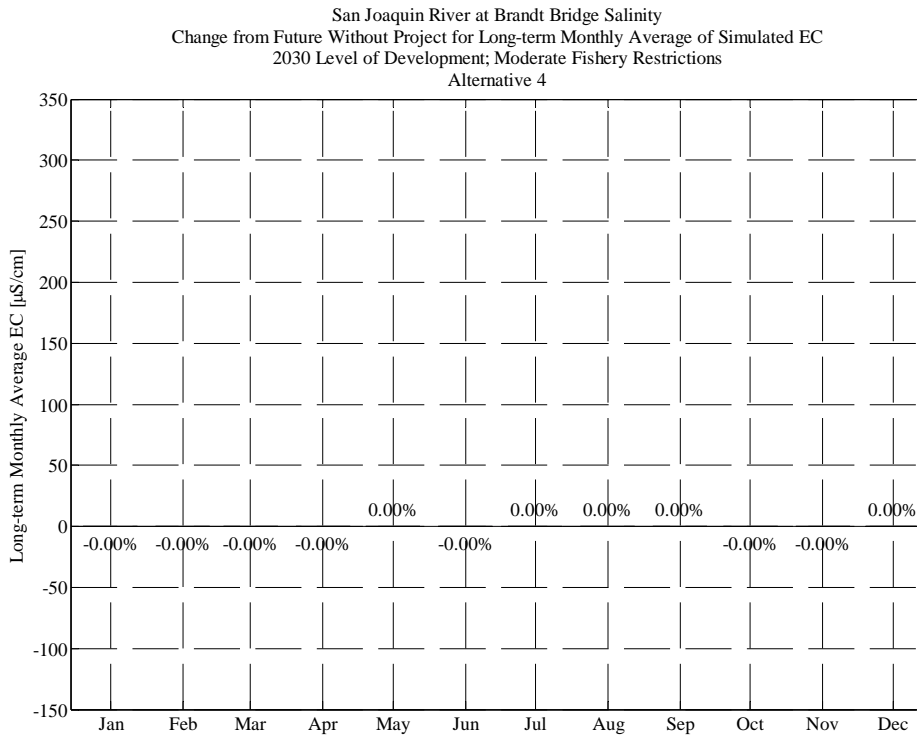
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	416	516	742	743	886	1,001	598	555	688	679	598	639
1977	628	668	788	835	989	1,010	684	606	717	690	690	733
1978	711	728	825	744	735	675	376	303	421	515	447	460
1979	554	524	730	646	360	331	369	291	417	608	476	547
1980	498	562	750	425	342	397	342	343	364	438	420	497
1981	450	506	713	731	875	860	475	426	645	633	597	621
1982	563	632	770	709	292	312	221	199	350	394	313	260
1983	198	275	378	345	324	257	292	257	235	219	172	244
1984	341	210	303	332	228	360	351	345	497	596	499	477
1985	416	502	757	745	804	866	506	477	638	673	577	583
1986	557	587	747	787	456	313	235	214	371	558	448	454
1987	423	446	699	741	939	898	584	540	695	674	629	646
1988	619	656	784	828	989	1,010	663	620	711	697	680	686
1989	701	694	802	876	1,049	1,007	663	607	701	656	638	612
1990	654	685	805	888	994	1,007	714	628	716	684	657	685
1991	665	680	817	916	1,169	959	679	631	712	684	670	713
<b>Avg</b>	525	554	713	706	714	704	484	440	555	587	532	554
<b>W/AN/BN</b>	489	503	643	570	391	378	312	279	379	476	396	420
<b>D/C</b>	553	595	768	811	966	957	618	566	692	674	637	658

**Percent (%) Change from Future Without Project for San Joaquin River at Brandt Bridge  
(Alternative 4 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

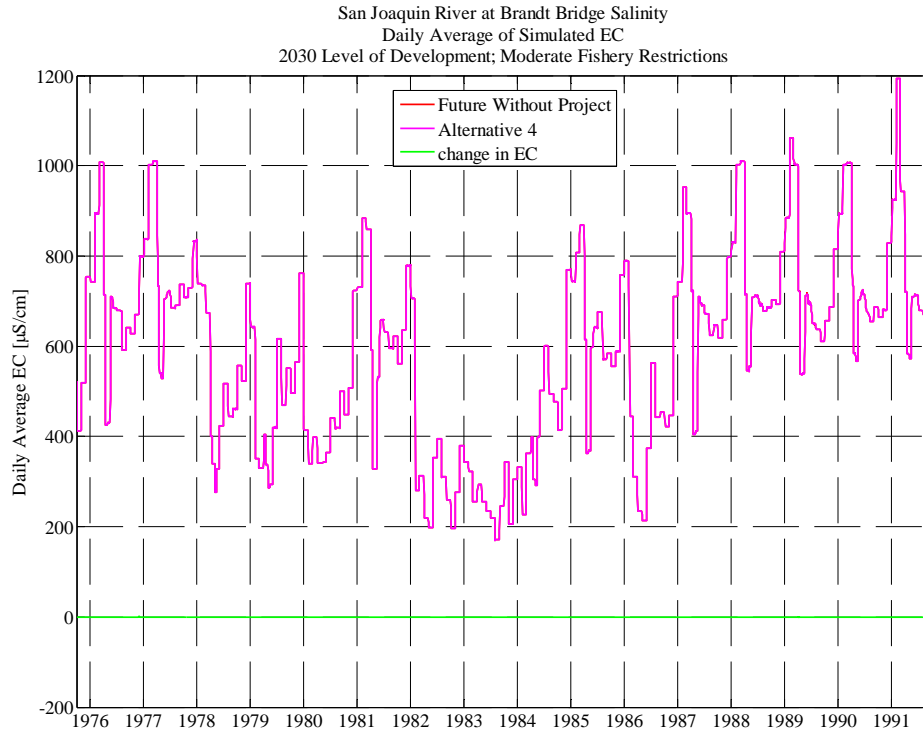
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



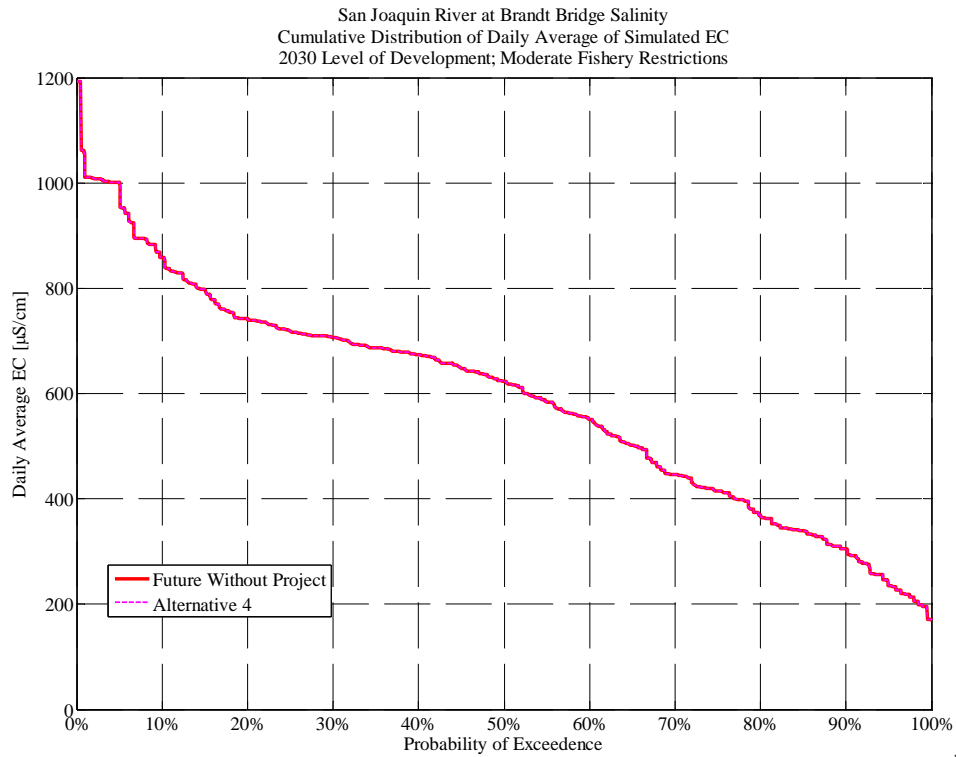
p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

## San Joaquin River at Vernalis

### *Future Without Project*

**San Joaquin River at Vernalis Salinity  
Monthly Average of Simulated Values (EC,  $\mu$ S/cm)  
Future Without Project**

**2030 Level of Development; Moderate Fishery Restrictions**

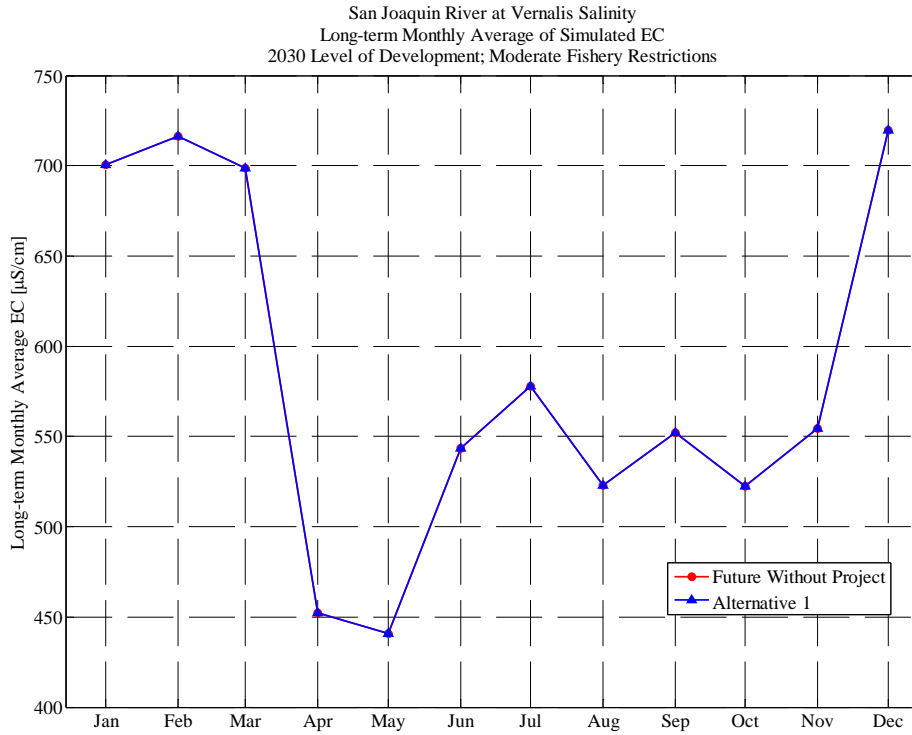
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	411	518	751	738	891	999	549	562	671	673	587	640
1977	626	669	797	832	999	1,000	604	613	698	674	687	735
1978	707	729	828	730	732	668	368	300	418	512	436	457
1979	555	521	737	637	349	329	366	285	406	608	463	546
1980	496	563	758	413	338	398	338	338	360	436	412	496
1981	446	507	721	726	881	857	445	423	644	623	588	619
1982	560	634	774	695	281	307	219	197	349	391	305	258
1983	196	273	379	337	321	252	292	255	232	217	167	244
1984	342	206	302	332	226	361	343	339	491	593	487	472
1985	414	502	765	741	806	866	471	476	629	671	564	581
1986	555	587	754	782	440	308	233	210	370	555	435	452
1987	419	445	709	739	949	888	536	553	677	665	618	644
1988	617	657	794	823	999	1,005	612	623	698	677	674	683
1989	700	693	807	878	1,060	1,001	605	613	653	628	631	610
1990	656	686	814	888	999	1,000	624	632	698	651	647	684
1991	661	679	827	920	1,191	941	629	631	698	668	662	714
<b>Avg</b>	523	554	720	701	716	699	452	441	543	578	523	552
<b>W/AN/BN</b>	487	502	648	561	384	375	308	275	375	473	386	418
<b>D/C</b>	550	595	776	809	975	951	564	569	674	659	629	657

**Alternative 1****San Joaquin River at Vernalis Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S}/\text{cm}$ )****Alternative 1****2030 Level of Development; Moderate Fishery Restrictions**

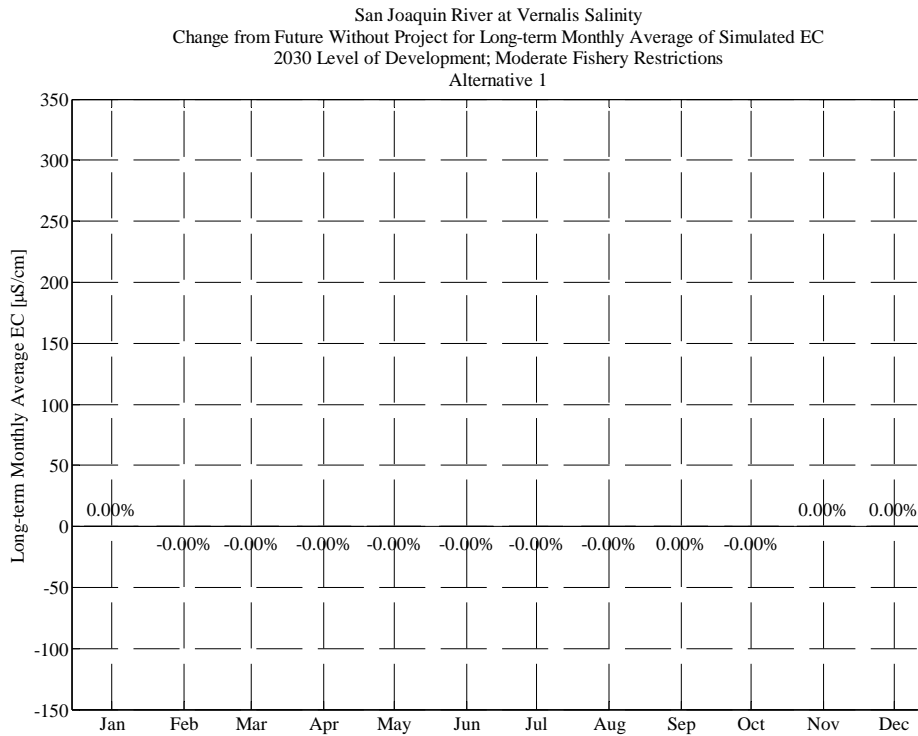
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	411	518	751	738	891	999	549	562	671	673	587	640
1977	626	669	797	832	999	1,000	604	613	698	674	687	735
1978	707	729	828	730	732	668	368	300	418	512	436	457
1979	555	521	737	637	349	329	366	285	406	608	463	546
1980	496	563	758	413	338	398	338	338	360	436	412	496
1981	446	507	721	726	881	857	445	423	644	623	588	619
1982	560	634	774	695	281	307	219	197	349	391	305	258
1983	196	273	379	337	321	252	292	255	232	217	167	244
1984	342	206	302	332	226	361	343	339	491	593	487	472
1985	414	502	765	741	806	866	471	476	629	671	564	581
1986	555	587	754	782	440	308	233	210	370	555	435	452
1987	419	445	709	739	949	888	536	553	677	665	618	644
1988	617	657	794	823	999	1,005	612	623	698	677	674	683
1989	700	693	807	878	1,060	1,001	605	613	653	628	631	610
1990	656	686	814	888	999	1,000	624	632	698	651	647	684
1991	661	679	827	920	1,191	941	629	631	698	668	662	714
<b>Avg</b>	523	554	720	701	716	699	452	441	543	578	523	552
<b>W/AN/BN</b>	487	502	648	561	384	375	308	275	375	473	386	418
<b>D/C</b>	550	595	776	809	975	951	564	569	674	659	629	657

**Percent (%) Change from Future Without Project for San Joaquin River at Vernalis Salinity****(Alternative 1 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

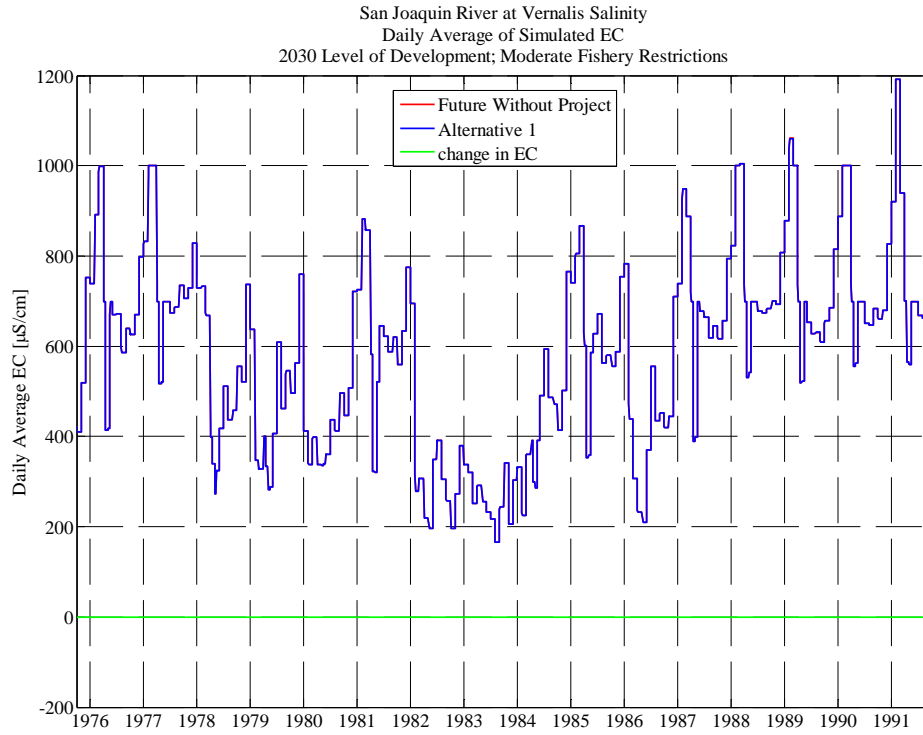
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



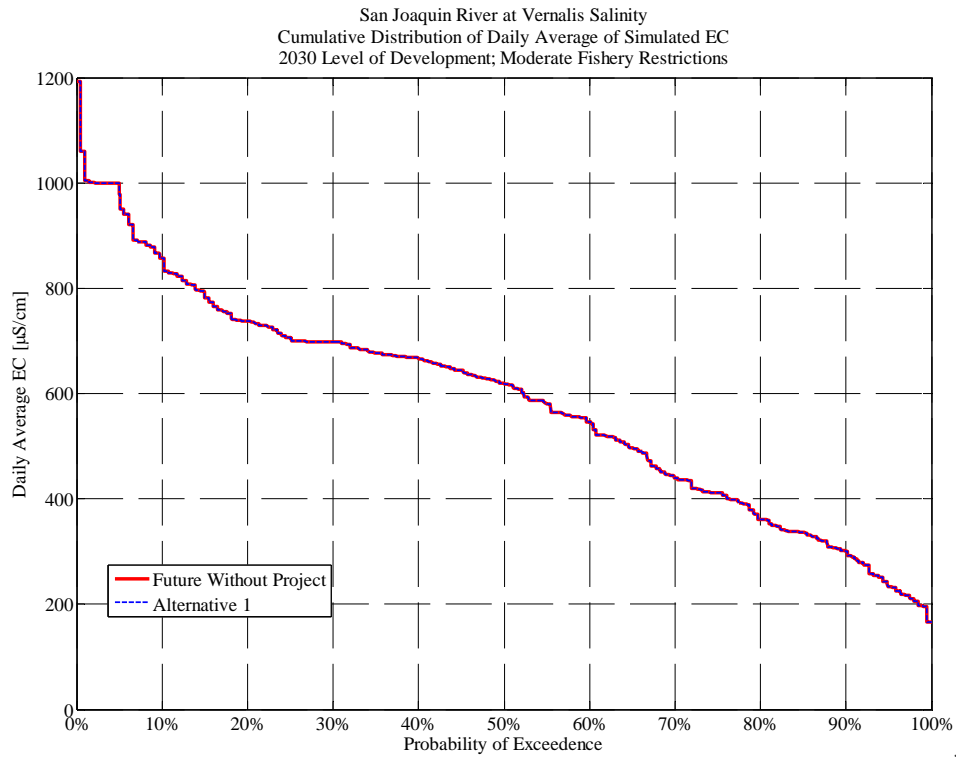
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04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 2**

**San Joaquin River at Vernalis Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 2**

**2030 Level of Development; Moderate Fishery Restrictions**

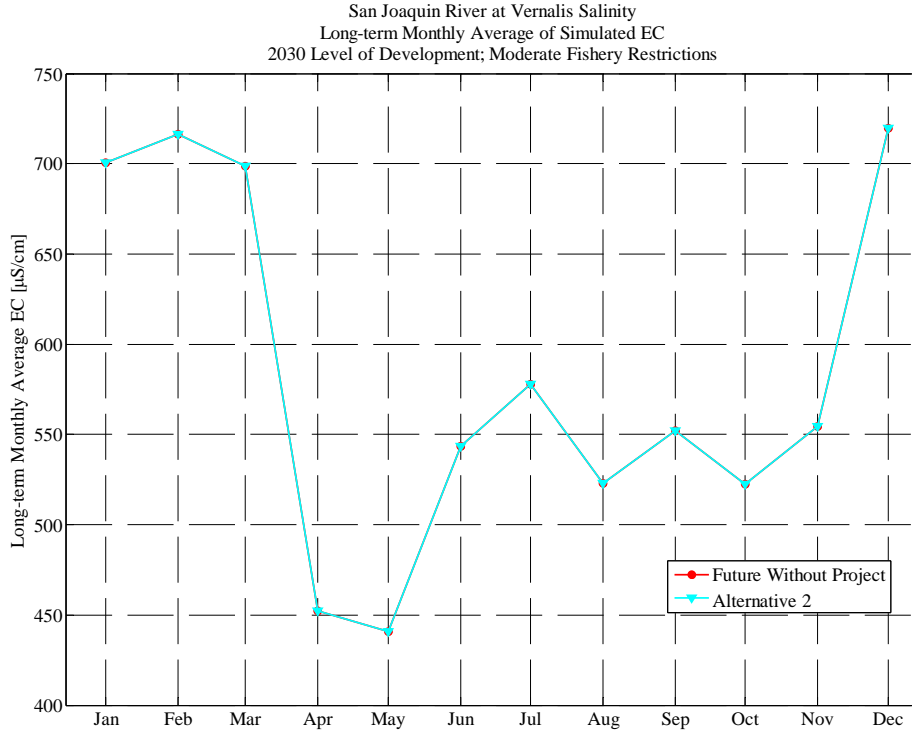
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	411	518	751	738	891	999	549	562	671	673	587	640
1977	626	669	797	832	999	1,000	604	613	698	674	687	735
1978	707	729	828	730	732	668	368	300	418	512	436	457
1979	555	521	737	637	349	329	366	285	406	608	463	546
1980	496	563	758	413	338	398	338	338	360	436	412	496
1981	446	507	721	726	881	857	445	423	644	623	588	619
1982	560	634	774	695	281	307	219	197	349	391	305	258
1983	196	273	379	337	321	252	292	255	232	217	167	244
1984	342	206	302	332	226	361	343	339	491	593	487	472
1985	414	502	765	741	806	866	471	476	629	671	564	581
1986	555	587	754	782	440	308	233	210	370	555	435	452
1987	419	445	709	739	949	888	536	553	677	665	618	644
1988	617	657	794	823	999	1,005	612	623	698	677	674	683
1989	700	693	807	878	1,060	1,001	605	613	653	628	631	610
1990	656	686	814	888	999	1,000	624	632	698	651	647	684
1991	661	679	827	920	1,191	941	629	631	698	668	662	714
<b>Avg</b>	523	554	720	701	716	699	452	441	543	578	523	552
<b>W/AN/BN</b>	487	502	648	561	384	375	308	275	375	473	386	418
<b>D/C</b>	550	595	776	809	975	951	564	569	674	659	629	657

**Percent (%) Change from Future Without Project for San Joaquin River at Vernalis  
(Alternative 2 - Future Without Project) / Future Without Project**

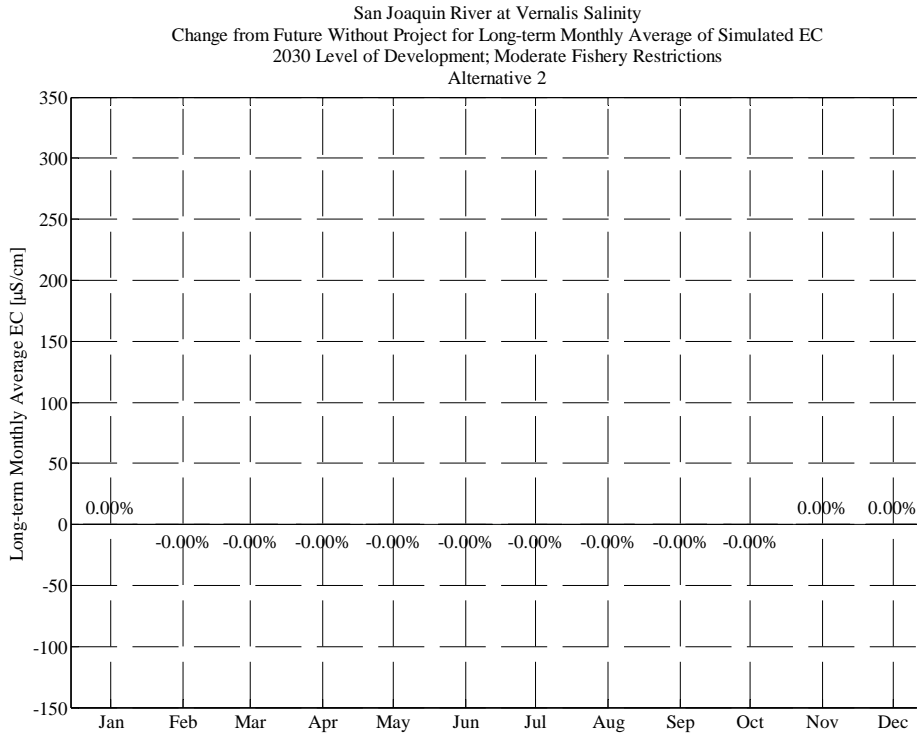
**2030 Level of Development; Moderate Fishery Restrictions**

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

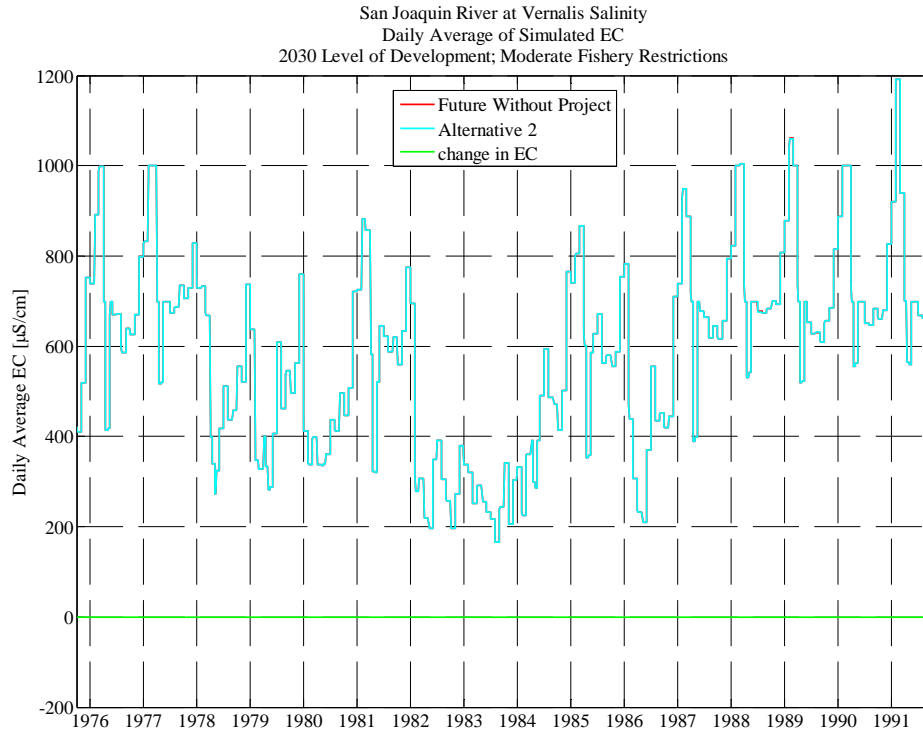




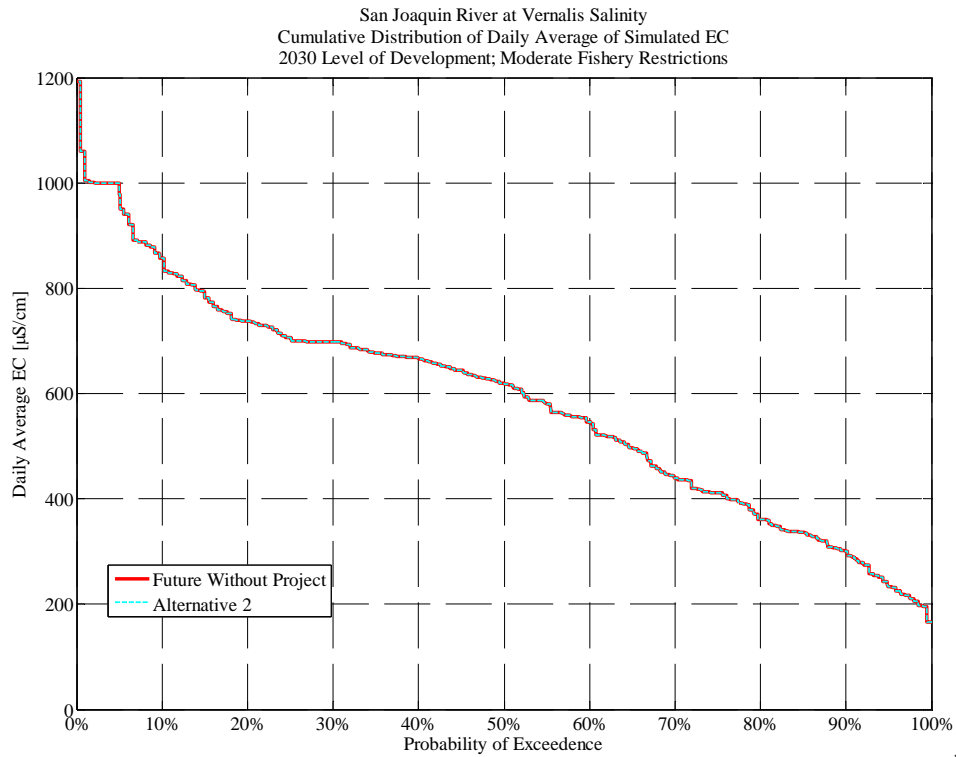
p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



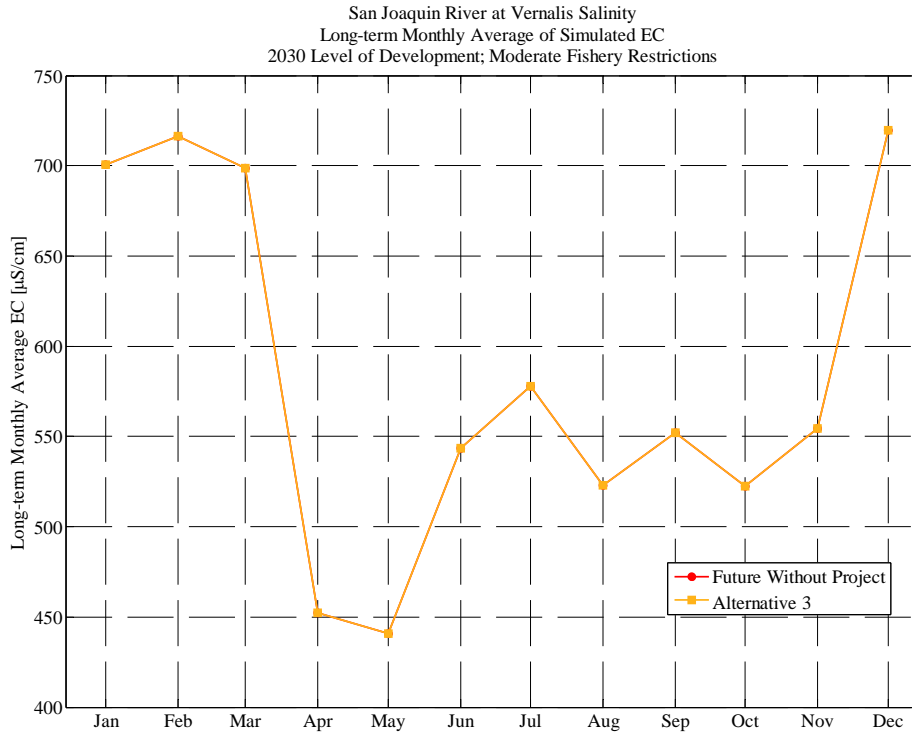
p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 3****San Joaquin River at Vernalis Salinity  
Monthly Average of Simulated Values (EC,  $\mu\text{S/cm}$ )****Alternative 3****2030 Level of Development; Moderate Fishery Restrictions**

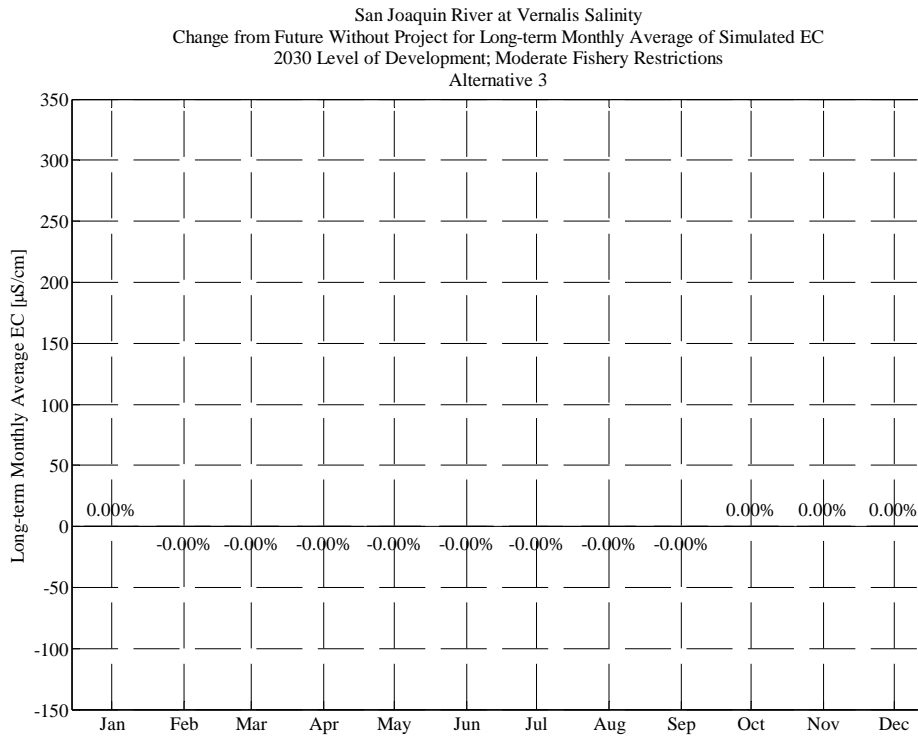
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	411	518	751	738	891	999	549	562	671	673	587	640
1977	626	669	797	832	999	1,000	604	613	698	674	687	735
1978	707	729	828	730	732	668	368	300	418	512	436	457
1979	555	521	737	637	349	329	366	285	406	608	463	546
1980	496	563	758	413	338	398	338	338	360	436	412	496
1981	446	507	721	726	881	857	445	423	644	623	588	619
1982	560	634	774	695	281	307	219	197	349	391	305	258
1983	196	273	379	337	321	252	292	255	232	217	167	244
1984	342	206	302	332	226	361	343	339	491	593	487	472
1985	414	502	765	741	806	866	471	476	629	671	564	581
1986	555	587	754	782	440	308	233	210	370	555	435	452
1987	419	445	709	739	949	888	536	553	677	665	618	644
1988	617	657	794	823	999	1,005	612	623	698	677	674	683
1989	700	693	807	878	1,059	1,001	605	613	653	628	631	610
1990	656	686	814	888	999	1,000	624	632	698	651	647	684
1991	661	679	827	920	1,191	941	629	631	698	668	662	714
<b>Avg</b>	523	554	720	701	716	699	452	441	543	578	523	552
<b>W/AN/BN</b>	487	502	648	561	384	375	308	275	375	473	386	418
<b>D/C</b>	550	595	776	809	975	951	564	569	674	659	629	657

**Percent (%) Change from Future Without Project for San Joaquin River at Vernalis  
(Alternative 3 - Future Without Project) / Future Without Project****2030 Level of Development; Moderate Fishery Restrictions**

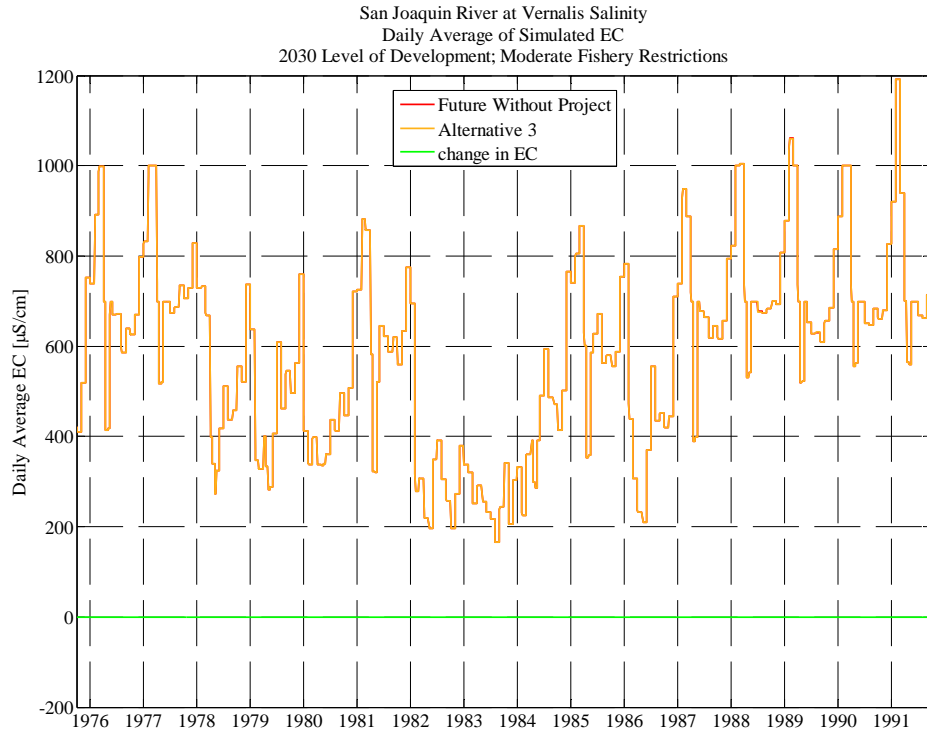
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



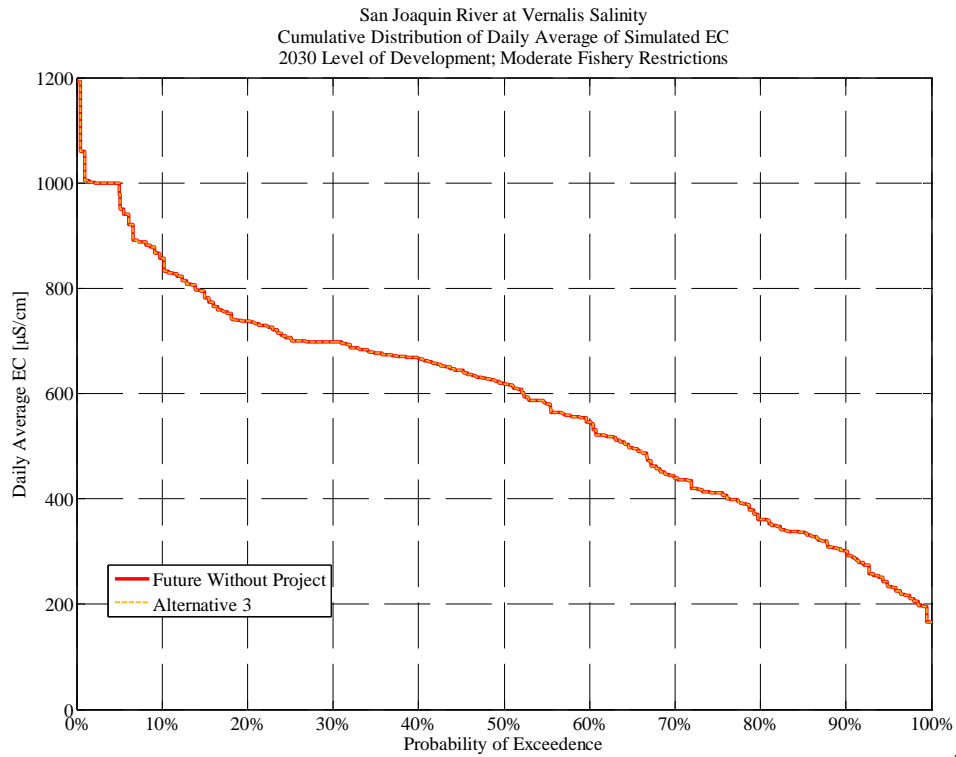
p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
05-Nov-2008 DS

**Alternative 4**

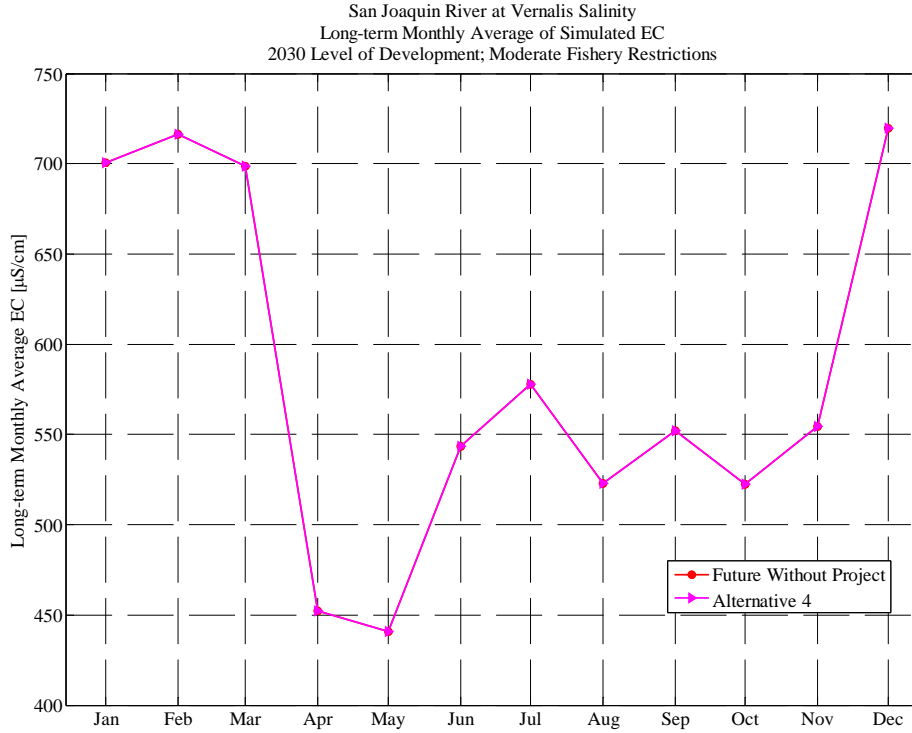
**San Joaquin River at Vernalis Salinity  
Monthly Average of Simulated Values (EC, µS/cm)  
Alternative 4**

**2030 Level of Development; Moderate Fishery Restrictions**

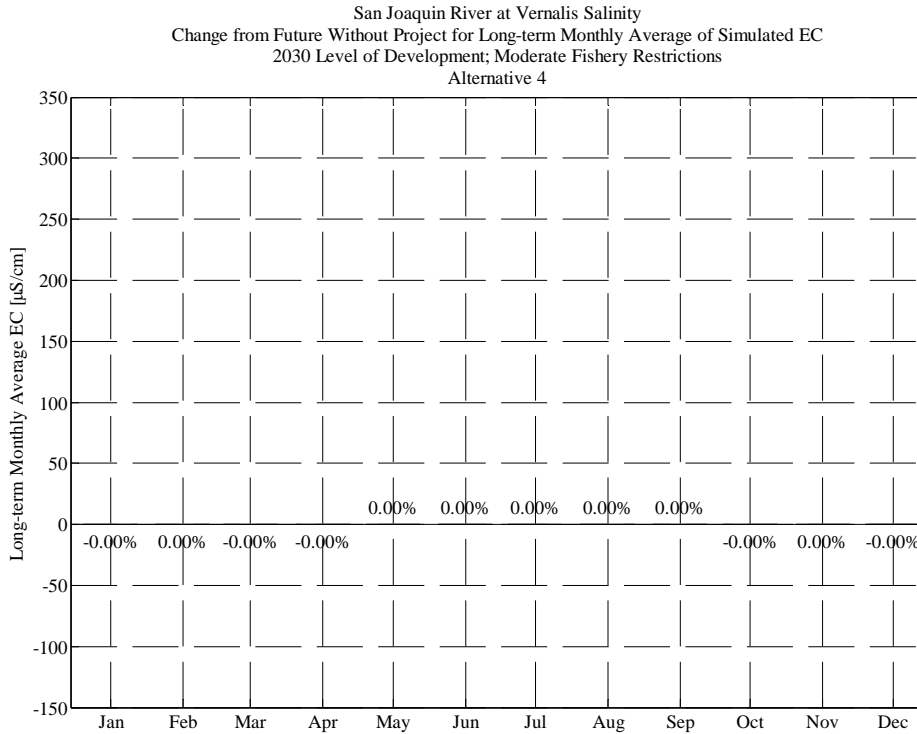
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	411	518	751	738	891	999	549	562	671	673	587	640
1977	626	669	797	832	999	1,000	604	613	698	674	687	735
1978	707	729	828	730	732	668	368	300	418	512	436	457
1979	555	521	737	637	349	329	366	285	406	608	463	546
1980	496	563	758	413	338	398	338	338	360	436	412	496
1981	446	507	721	726	881	857	445	423	644	623	588	619
1982	560	634	774	695	281	307	219	197	349	391	305	258
1983	196	273	379	337	321	252	292	255	232	217	167	244
1984	342	206	302	332	226	361	343	339	491	593	487	472
1985	414	502	765	741	806	866	471	476	629	671	564	581
1986	555	587	754	782	440	308	233	210	370	555	435	452
1987	419	445	709	739	949	888	536	553	677	665	618	644
1988	617	657	794	823	999	1,005	612	623	698	677	674	683
1989	700	693	807	878	1,060	1,001	605	613	653	628	631	610
1990	656	686	814	888	999	1,000	624	632	698	651	647	684
1991	661	679	827	920	1,191	941	629	631	698	668	662	714
<b>Avg</b>	523	554	720	701	716	699	452	441	543	578	523	552
<b>W/AN/BN</b>	487	502	648	561	384	375	308	275	375	473	386	418
<b>D/C</b>	550	595	776	809	975	951	564	569	674	659	629	657

**Percent (%) Change from Future Without Project for San Joaquin River at Vernalis  
(Alternative 4 - Future Without Project) / Future Without Project  
2030 Level of Development; Moderate Fishery Restrictions**

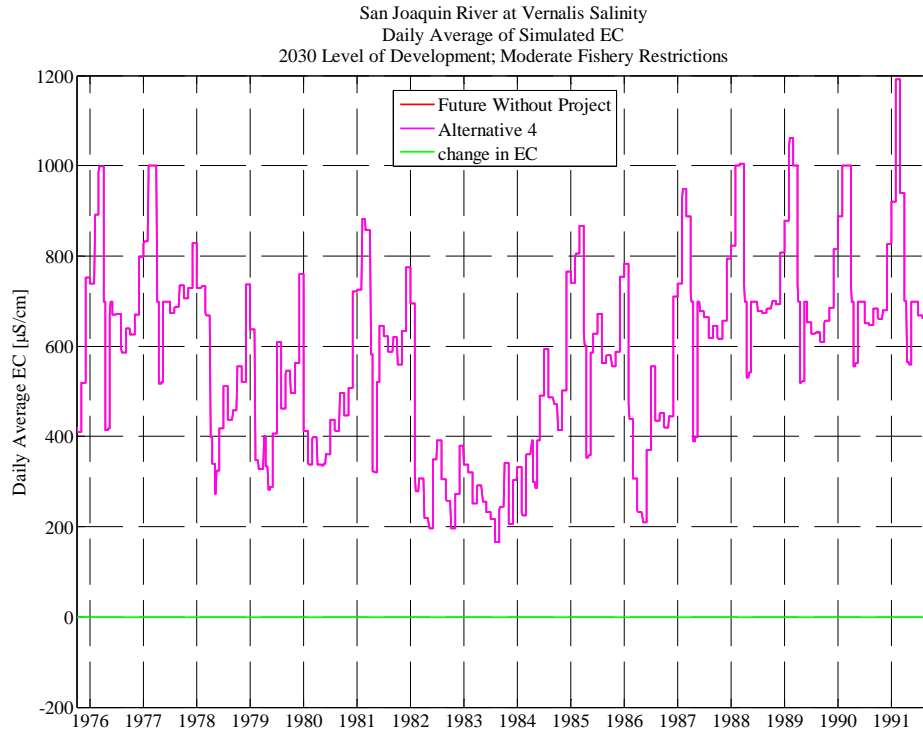
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1976	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1977	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1978	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1985	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Avg</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>W/AN/BN</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>D/C</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



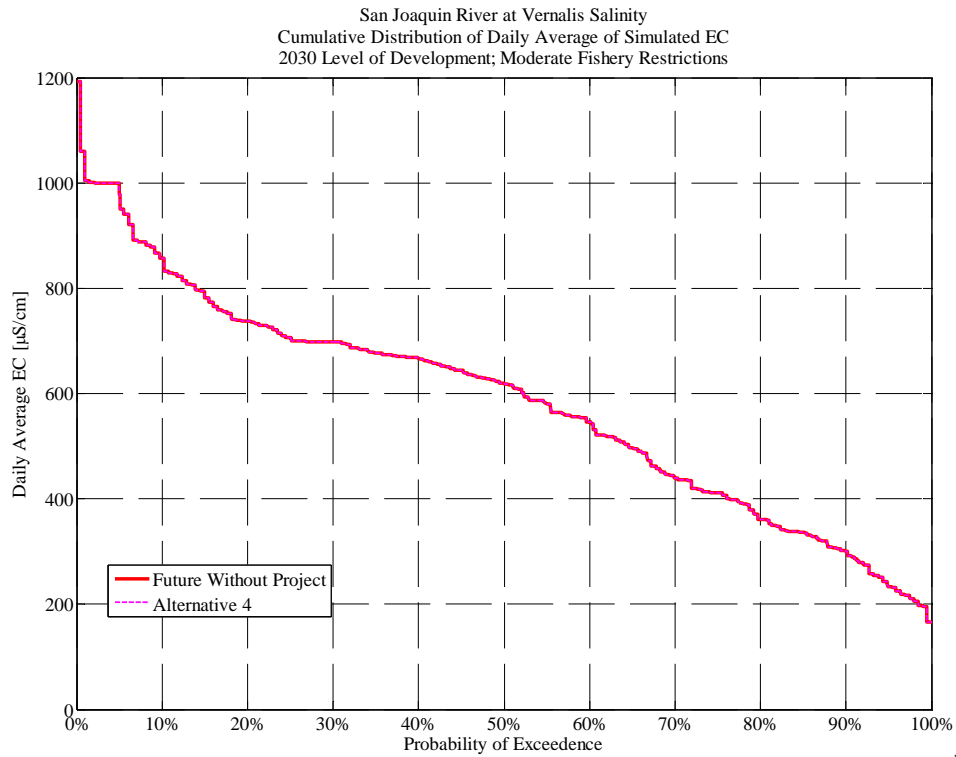
p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



p\_lve\_wq\_eir.m  
04-Nov-2008 DS



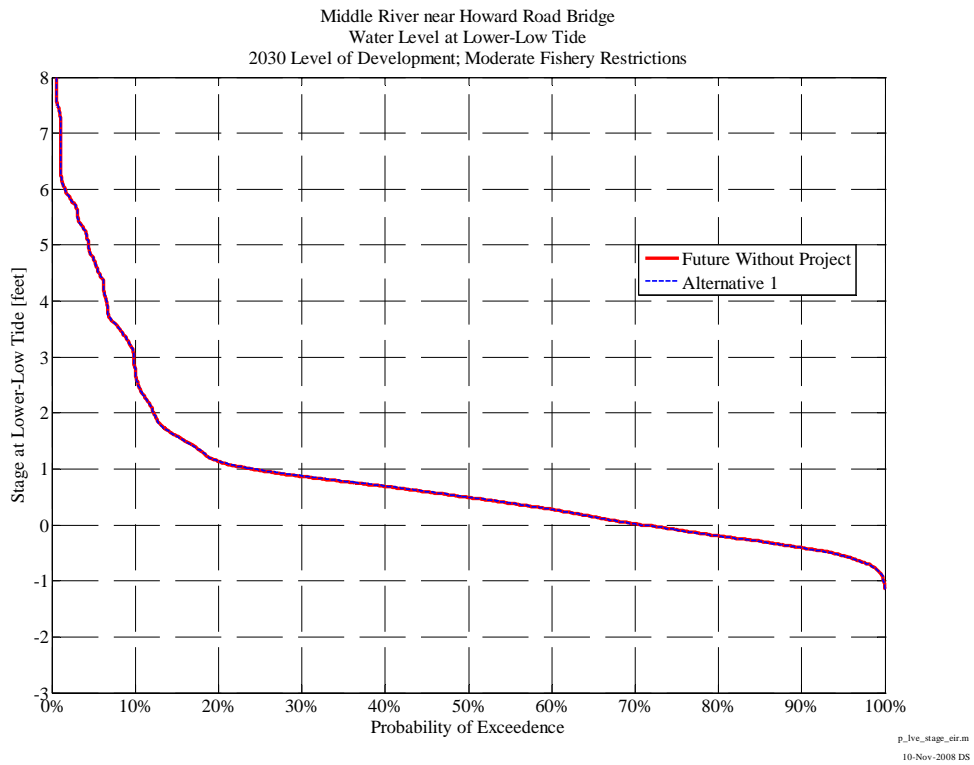
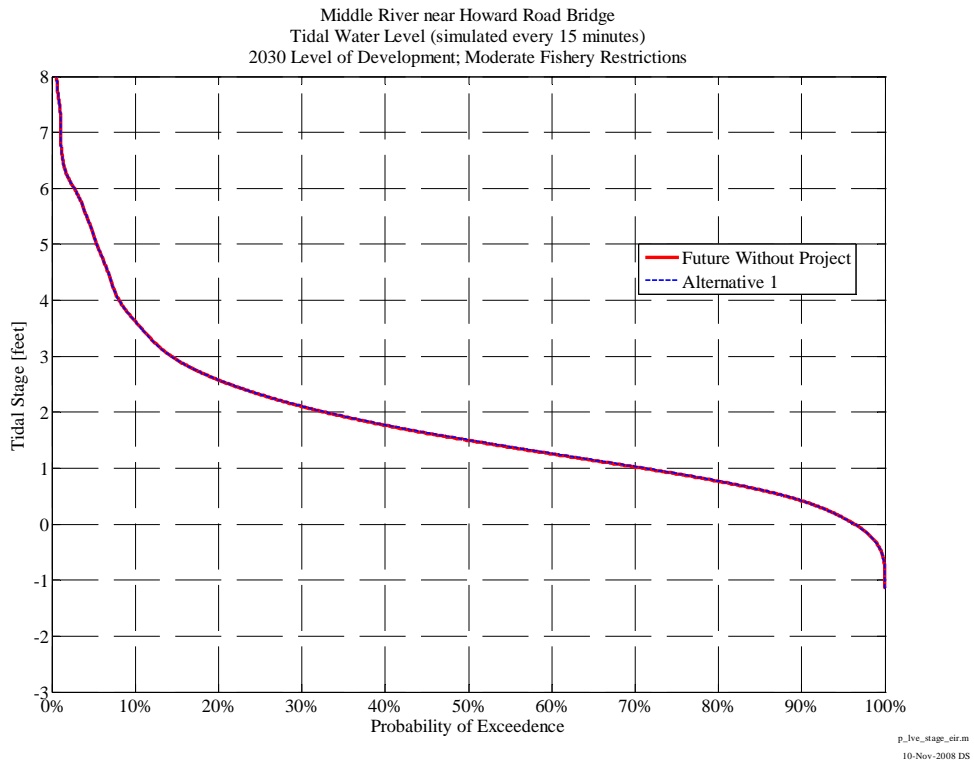
p\_lve\_wq\_eir.m  
05-Nov-2008 DS

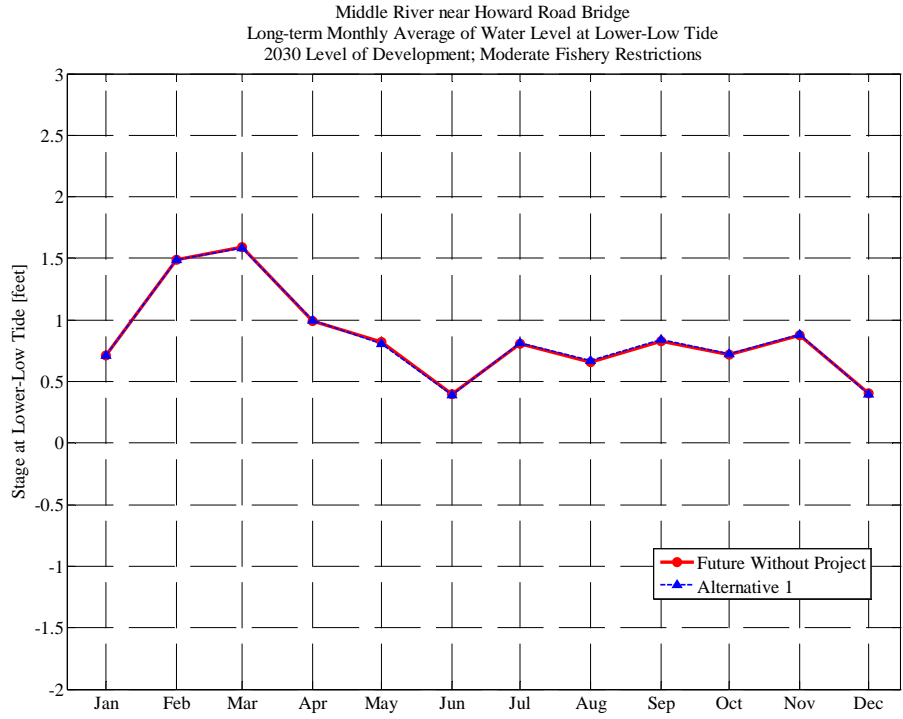


## Water Level

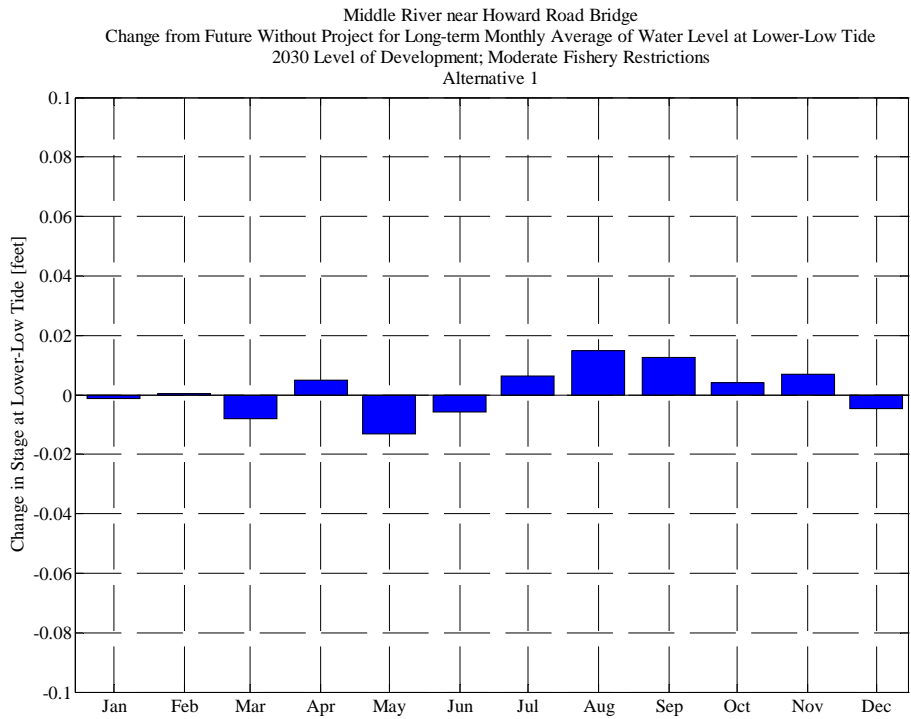
# Middle River near Howard Road Bridge

## Alternative 1





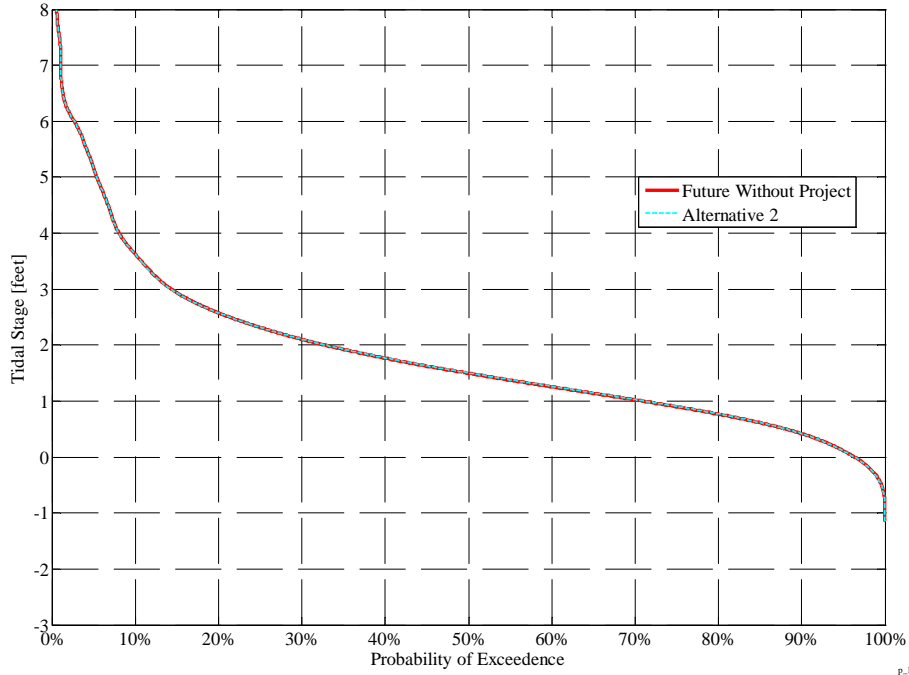
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



p\_lve\_stage\_eir.m  
10-Nov-2008 DS

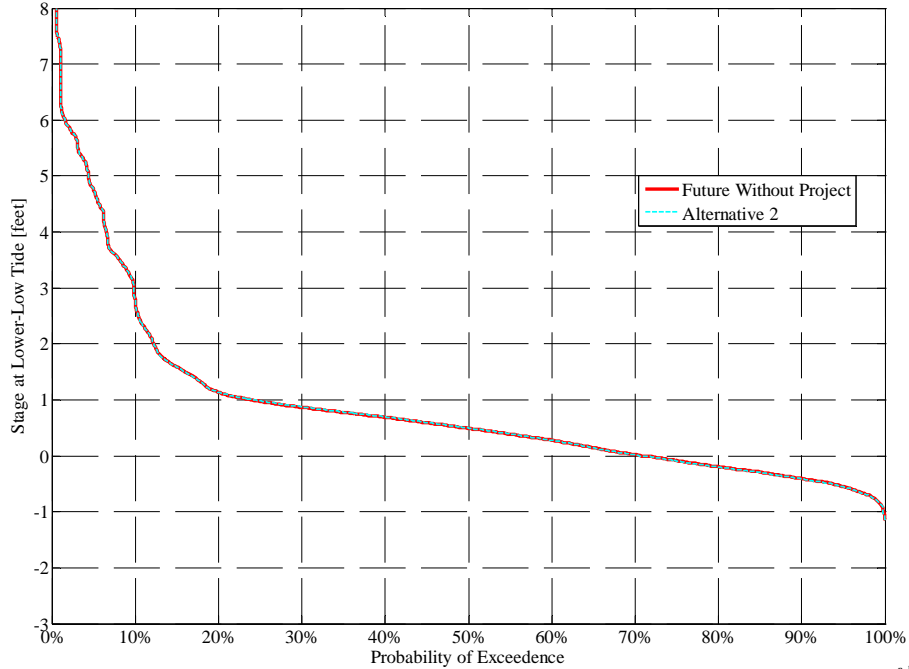
## Alternative 2

Middle River near Howard Road Bridge  
Tidal Water Level (simulated every 15 minutes)  
2030 Level of Development; Moderate Fishery Restrictions

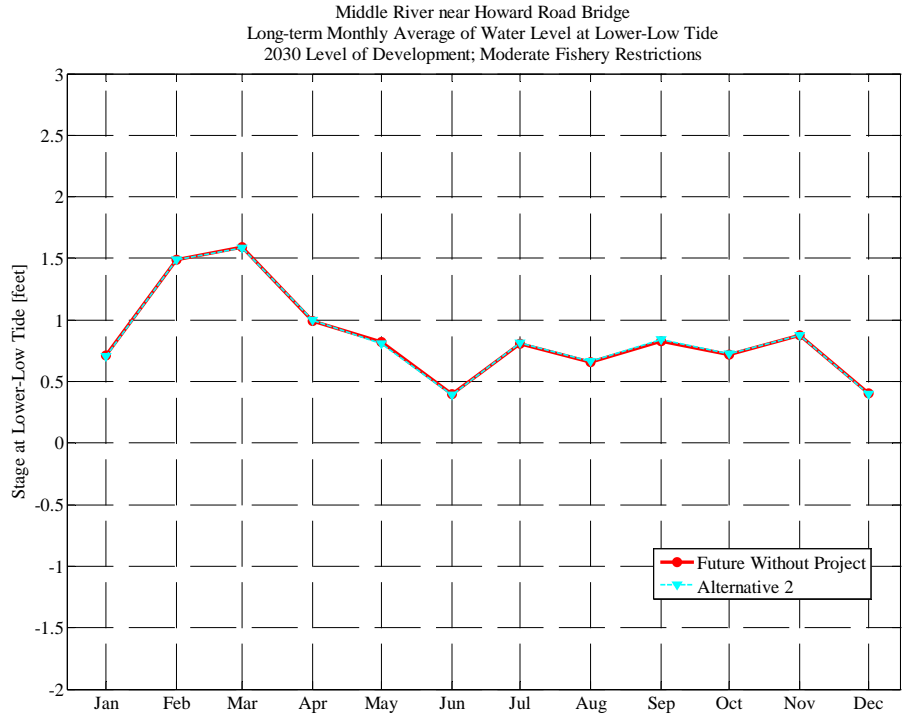


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

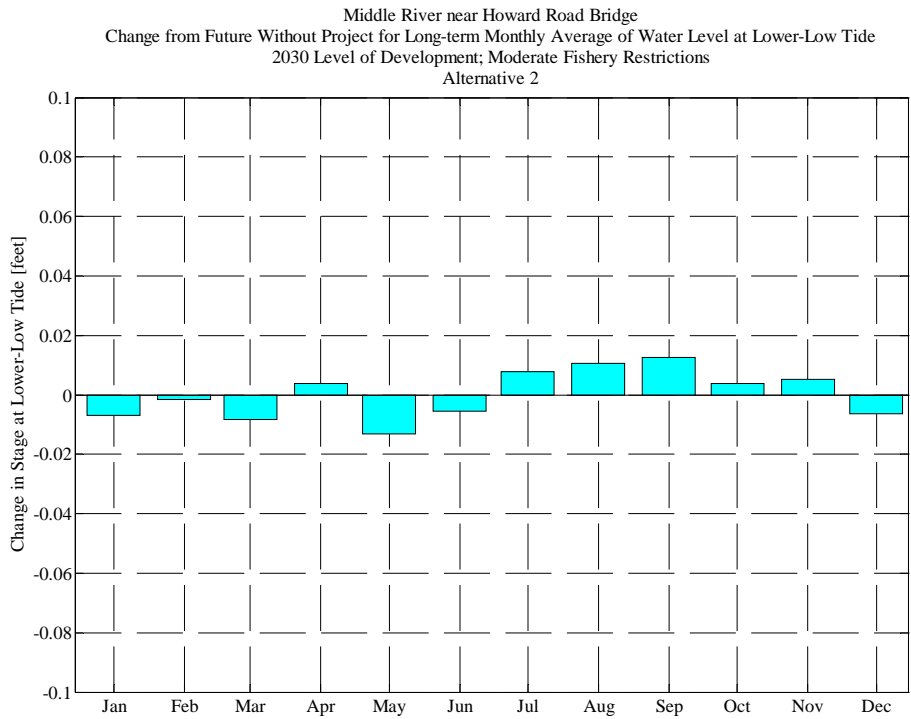
Middle River near Howard Road Bridge  
Water Level at Lower-Low Tide  
2030 Level of Development; Moderate Fishery Restrictions



p\_lve\_stage\_eir.m  
10-Nov-2008 DS



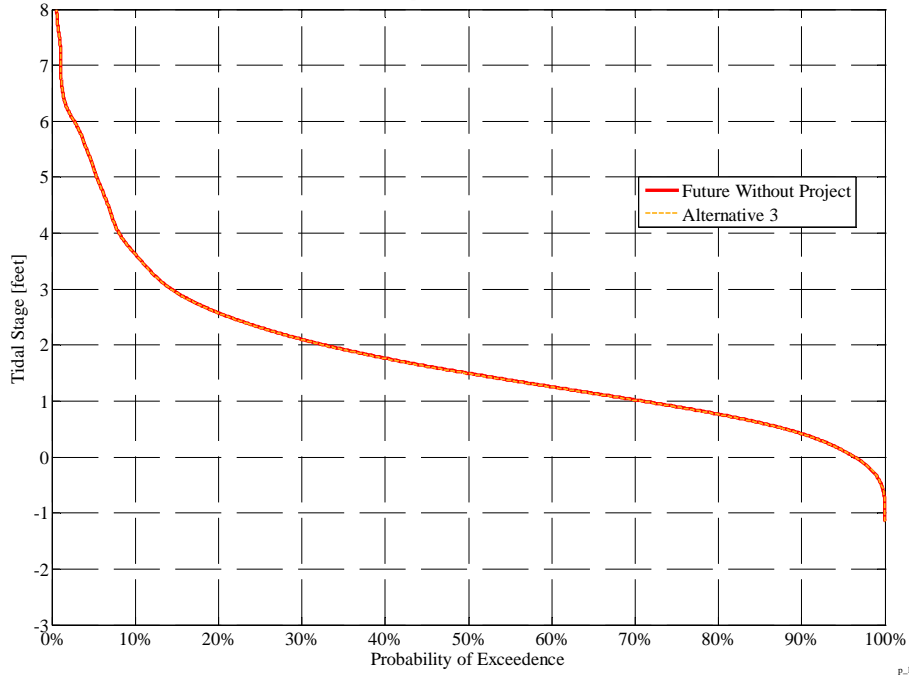
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



p\_lve\_stage\_eir.m  
10-Nov-2008 DS

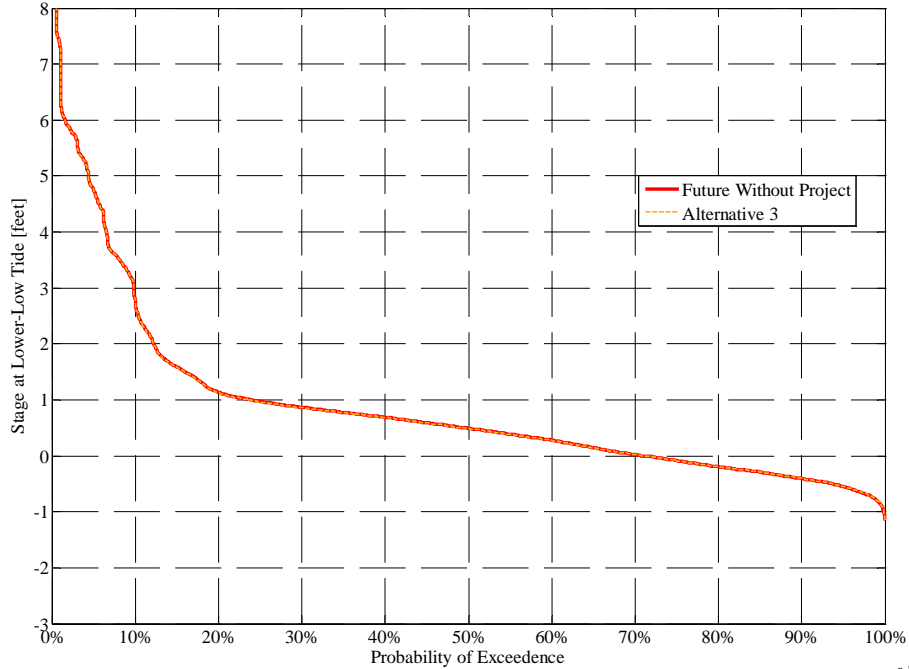
### Alternative 3

Middle River near Howard Road Bridge  
 Tidal Water Level (simulated every 15 minutes)  
 2030 Level of Development; Moderate Fishery Restrictions

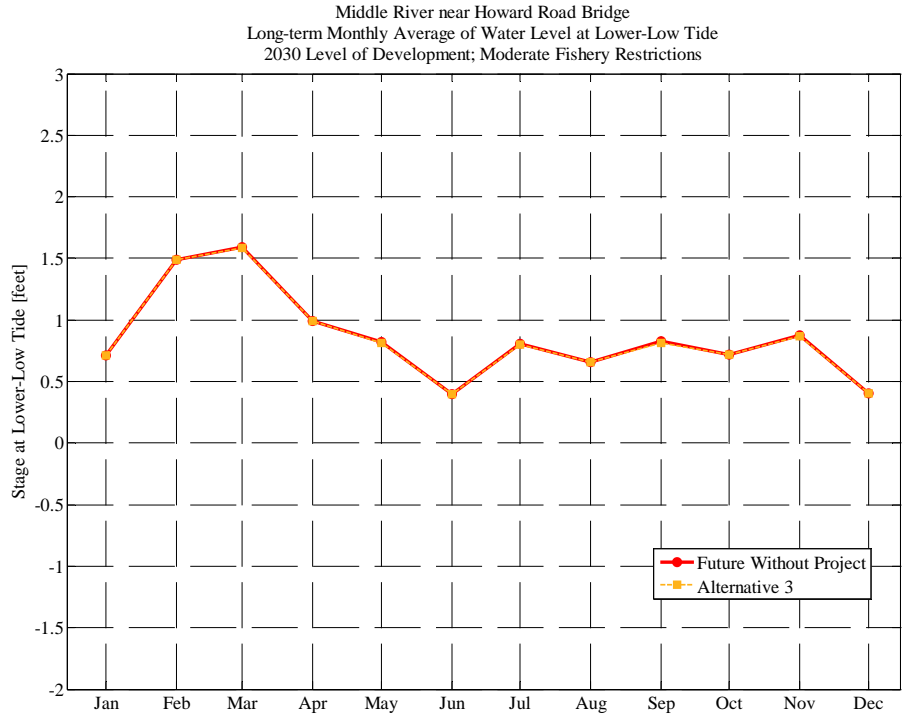


p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

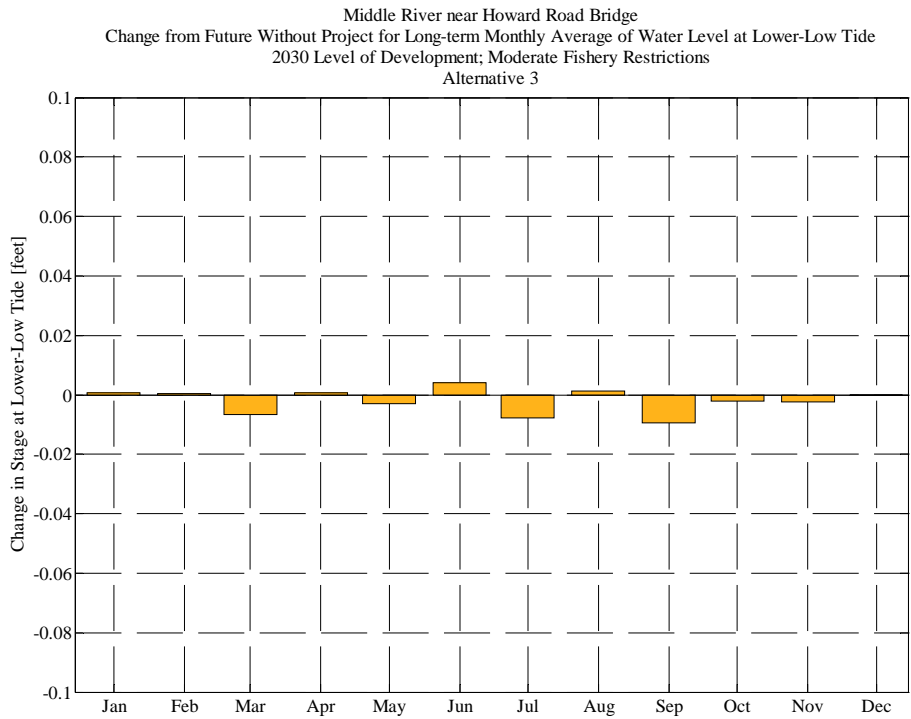
Middle River near Howard Road Bridge  
 Water Level at Lower-Low Tide  
 2030 Level of Development; Moderate Fishery Restrictions



p\_lve\_stage\_eir.m  
 10-Nov-2008 DS



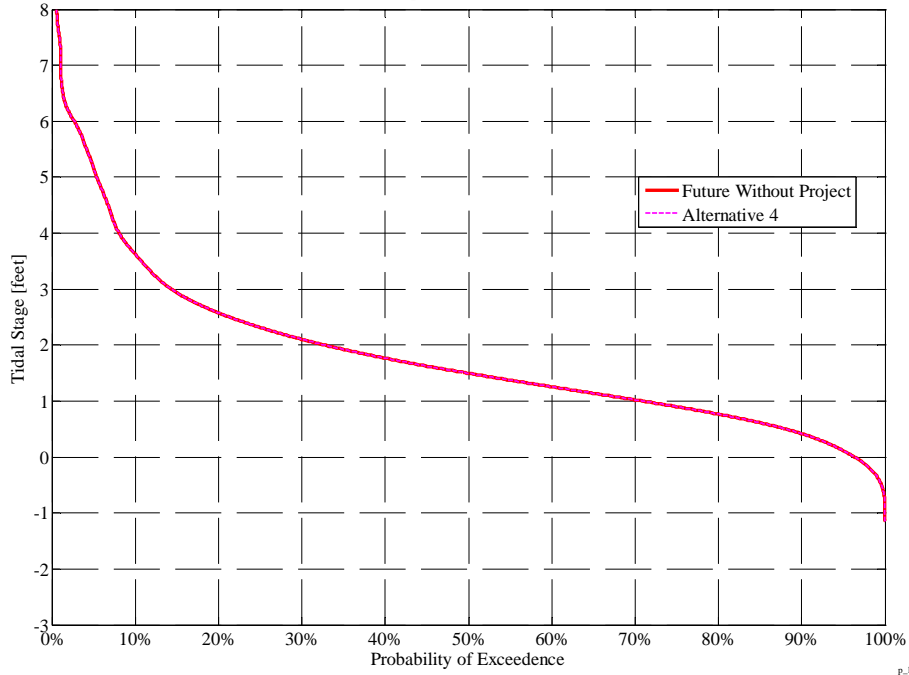
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



p\_lve\_stage\_eir.m  
10-Nov-2008 DS

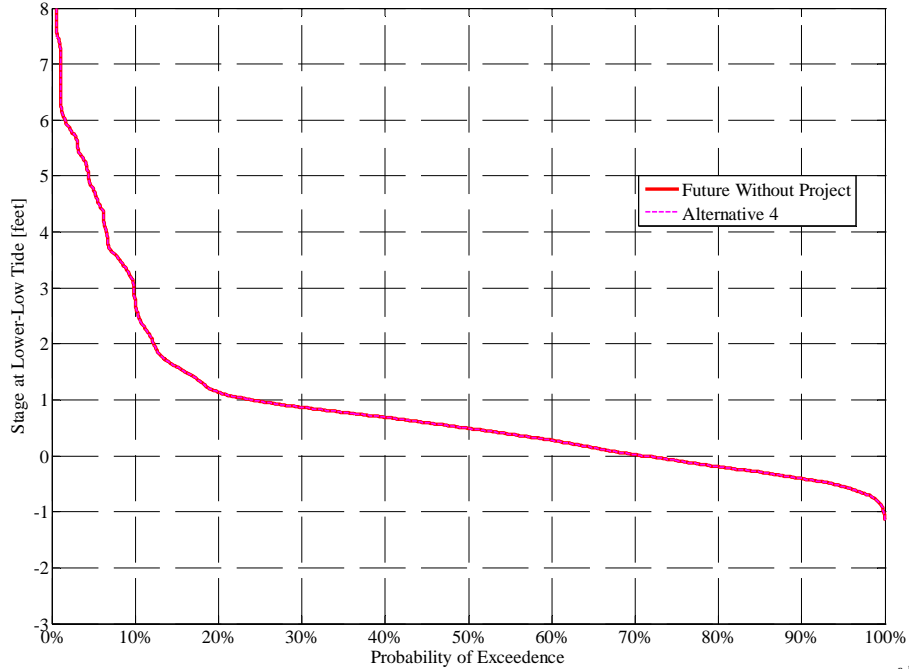
### Alternative 4

Middle River near Howard Road Bridge  
 Tidal Water Level (simulated every 15 minutes)  
 2030 Level of Development; Moderate Fishery Restrictions



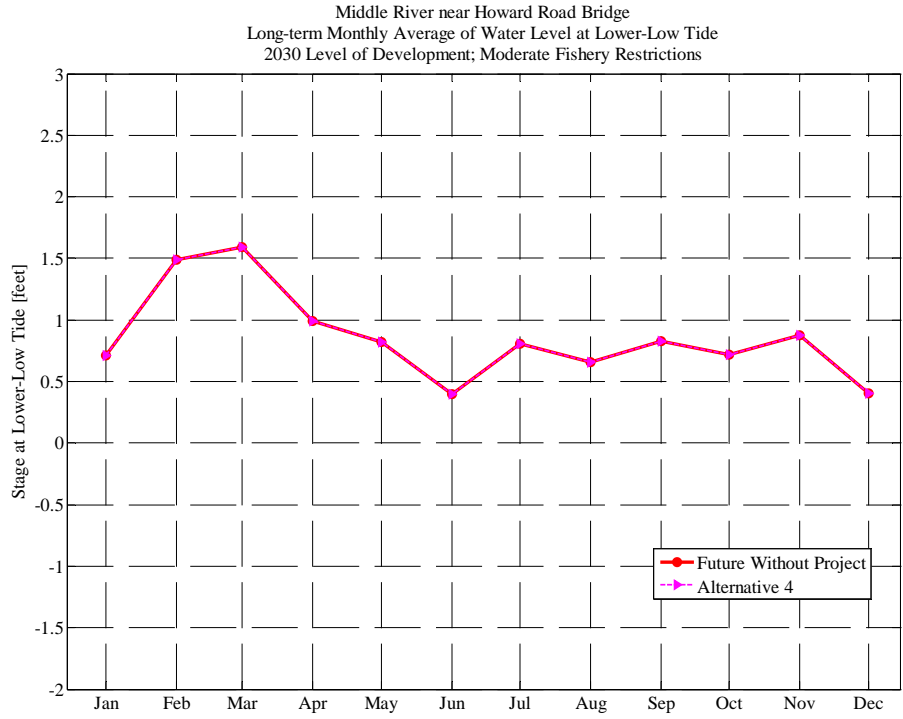
p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

Middle River near Howard Road Bridge  
 Water Level at Lower-Low Tide  
 2030 Level of Development; Moderate Fishery Restrictions

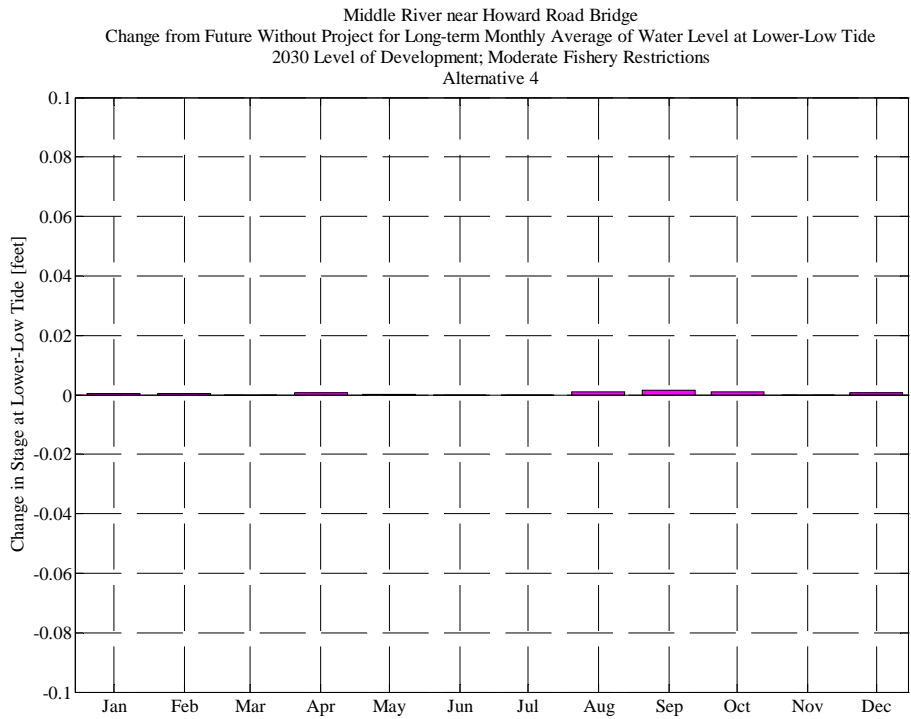


p\_lve\_stage\_eir.m  
 10-Nov-2008 DS





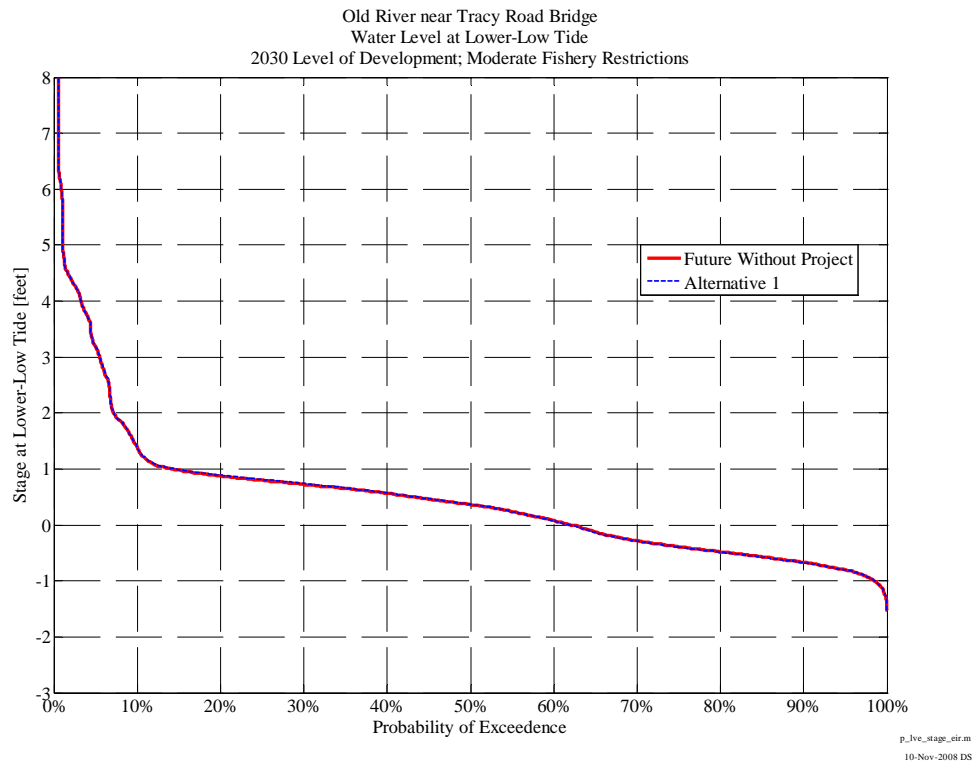
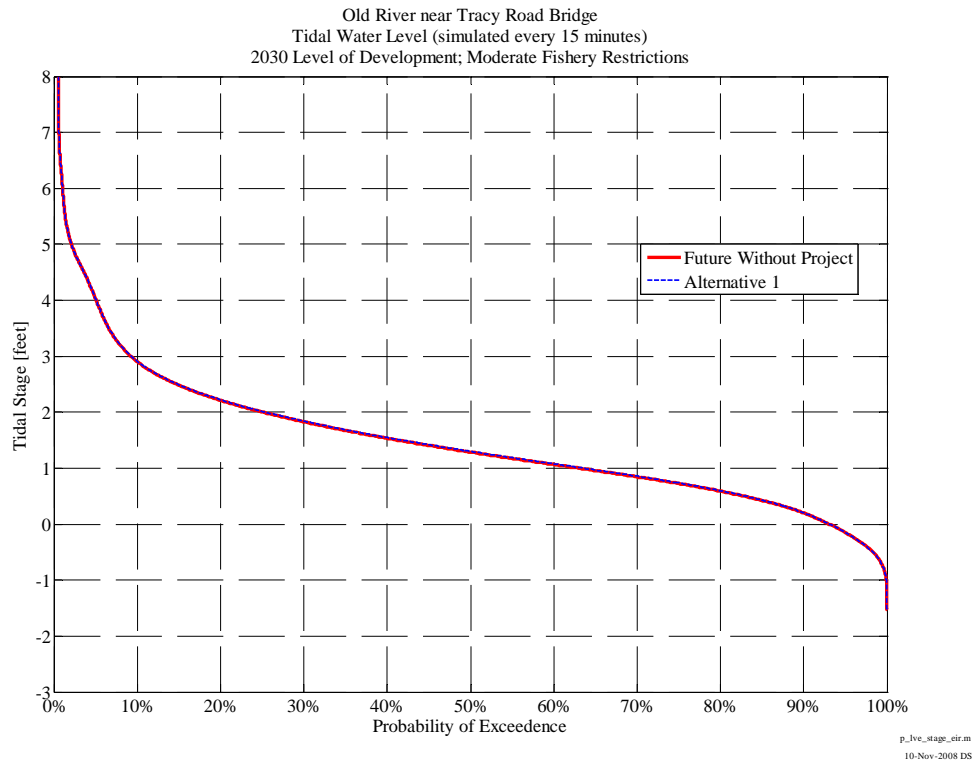
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

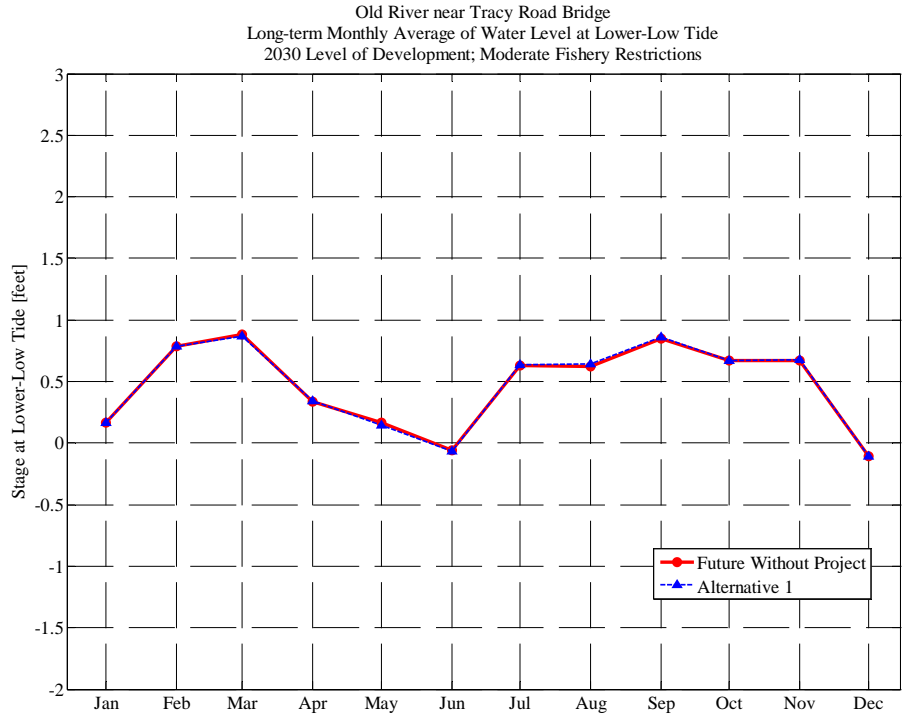


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

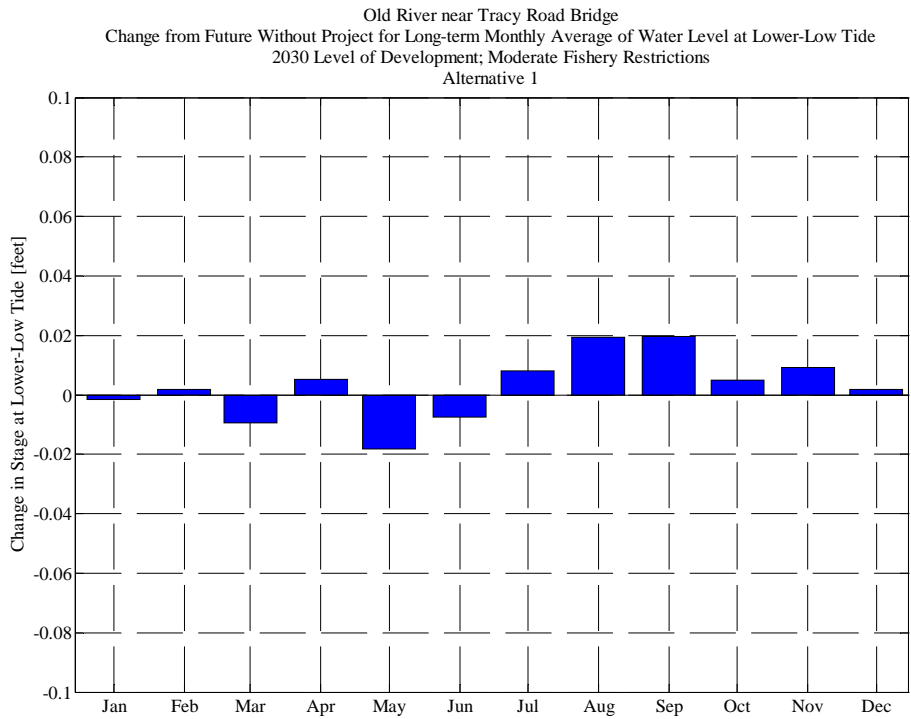
# Old River near Tracy Road Bridge

## Alternative 1



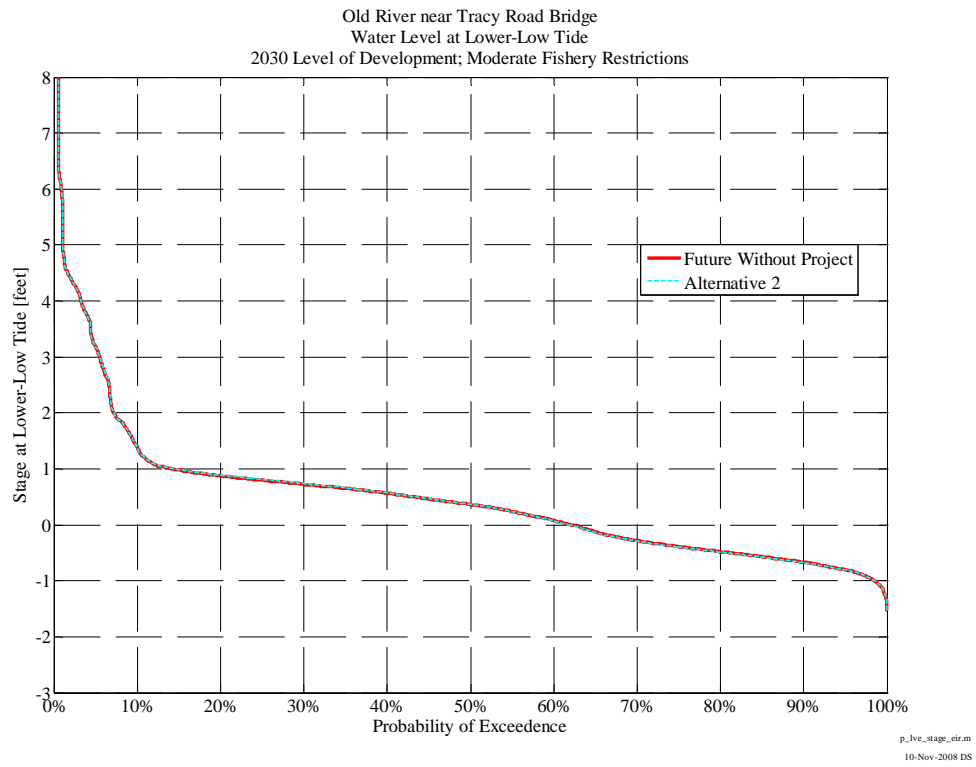
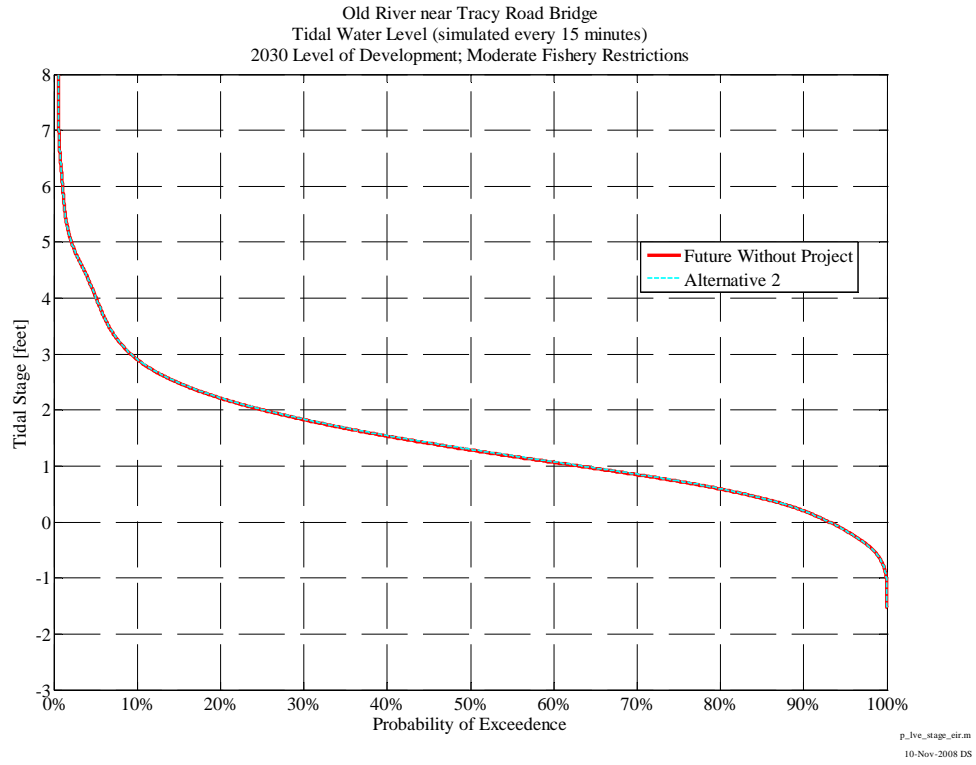


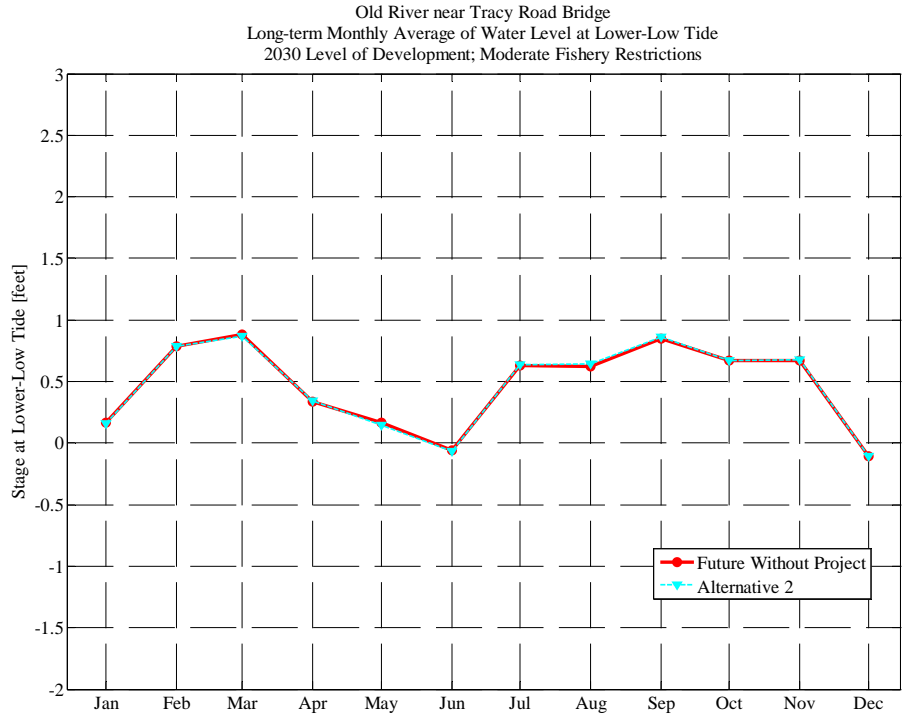
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



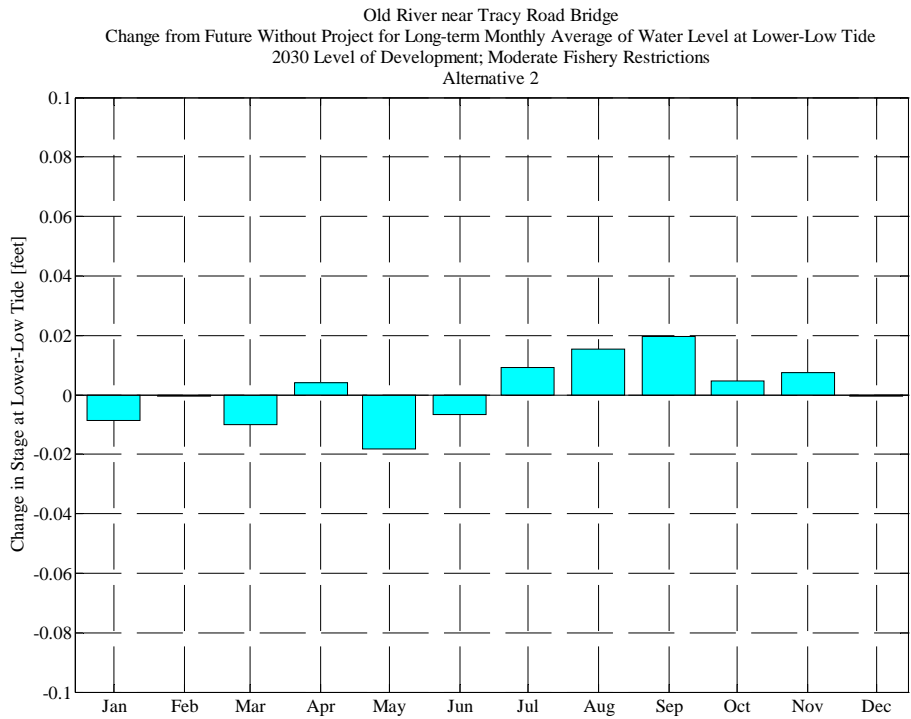
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

## Alternative 2



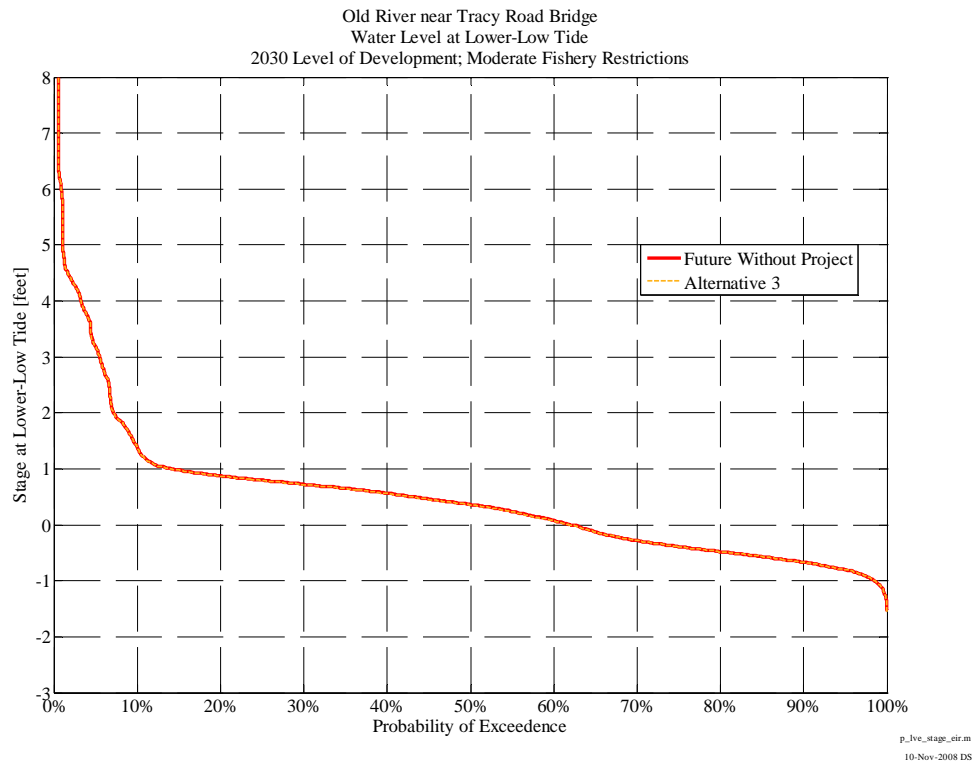
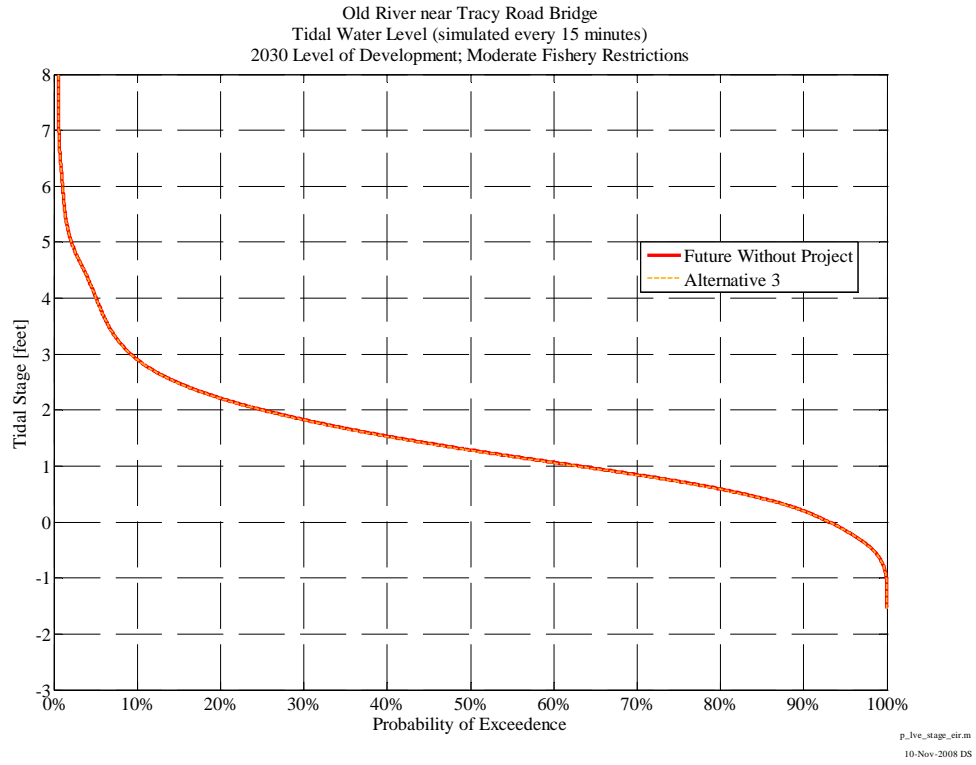


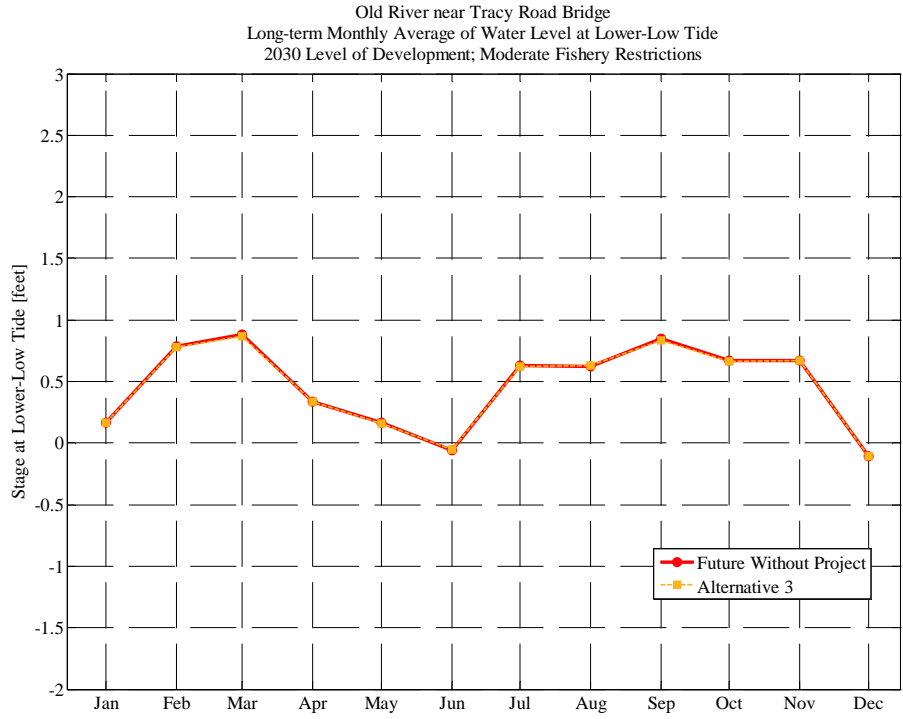
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



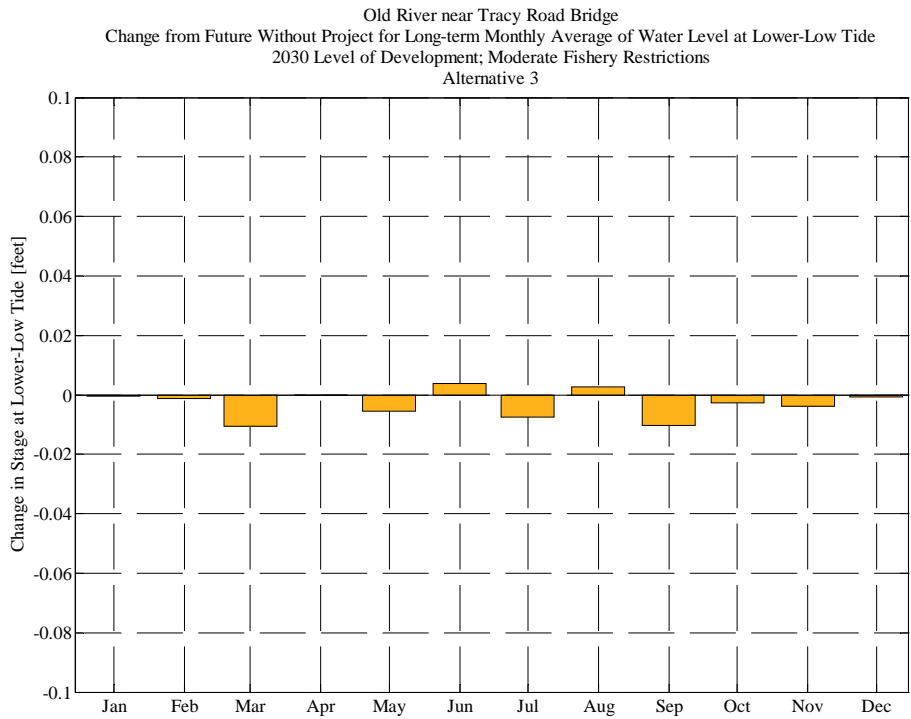
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



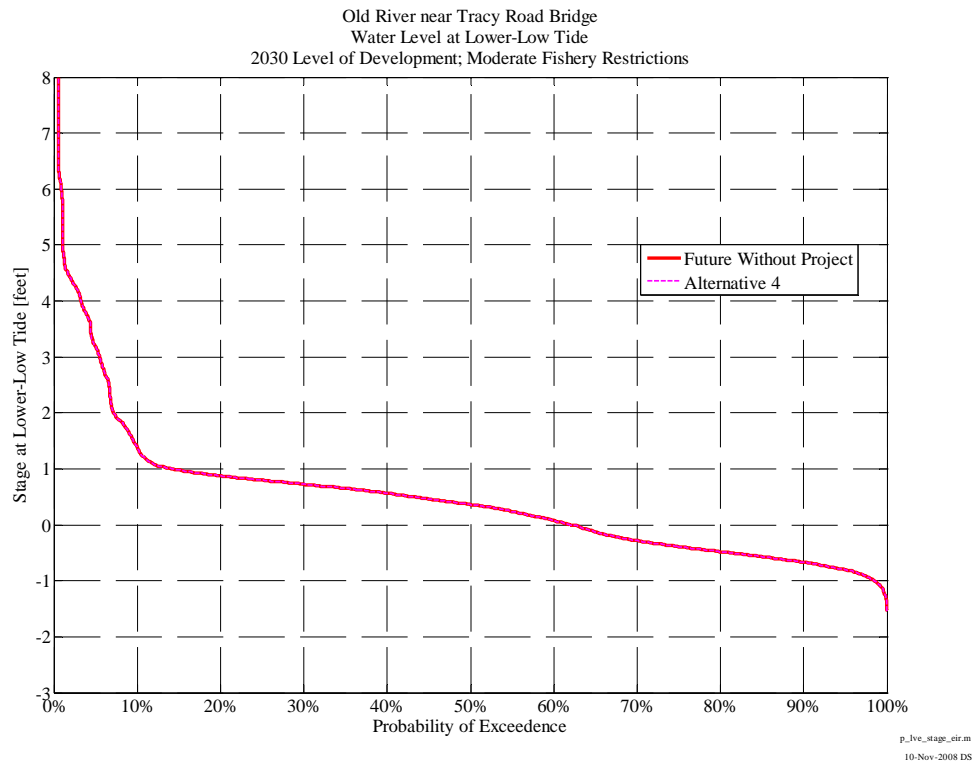
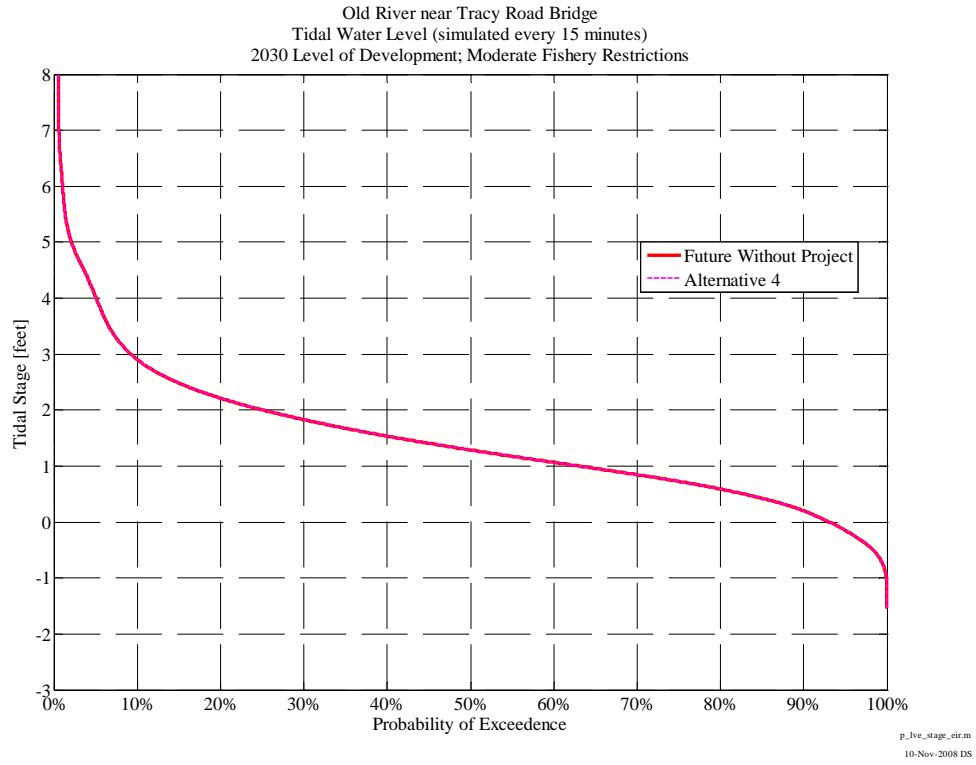


p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

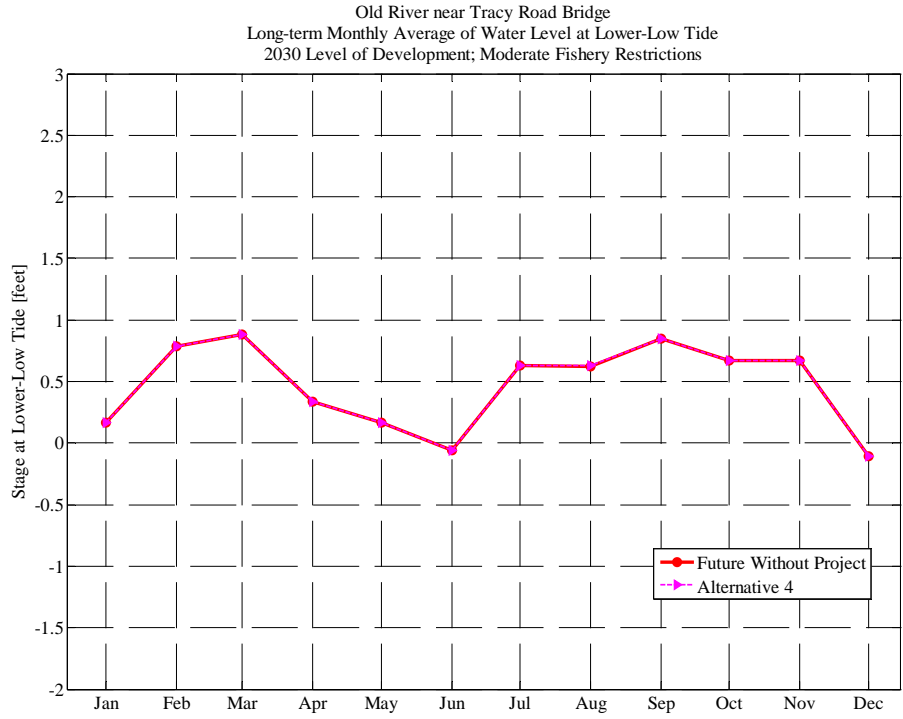


p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

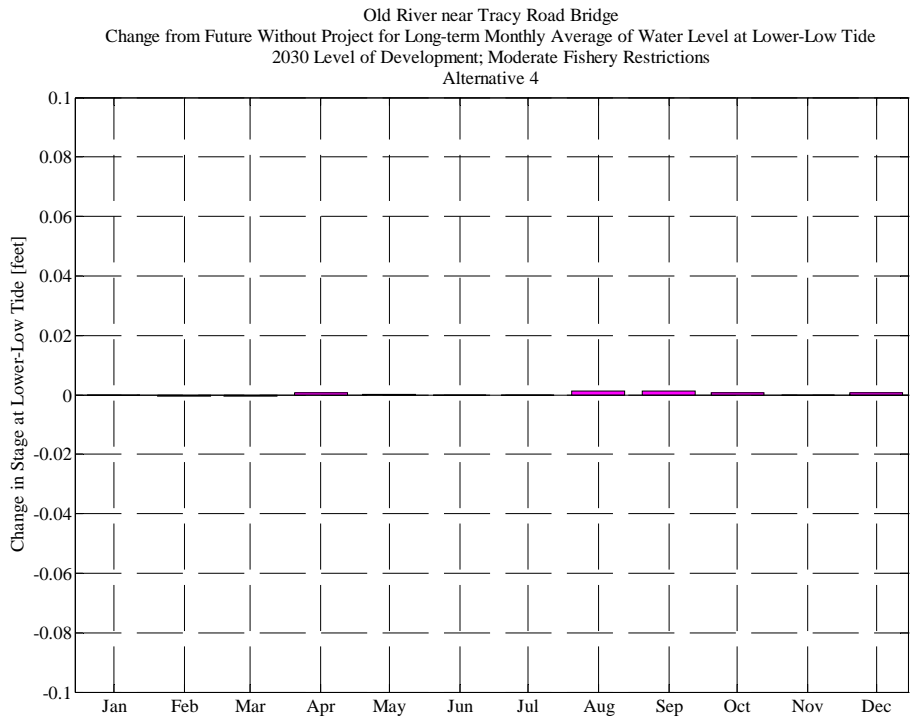
### Alternative 4







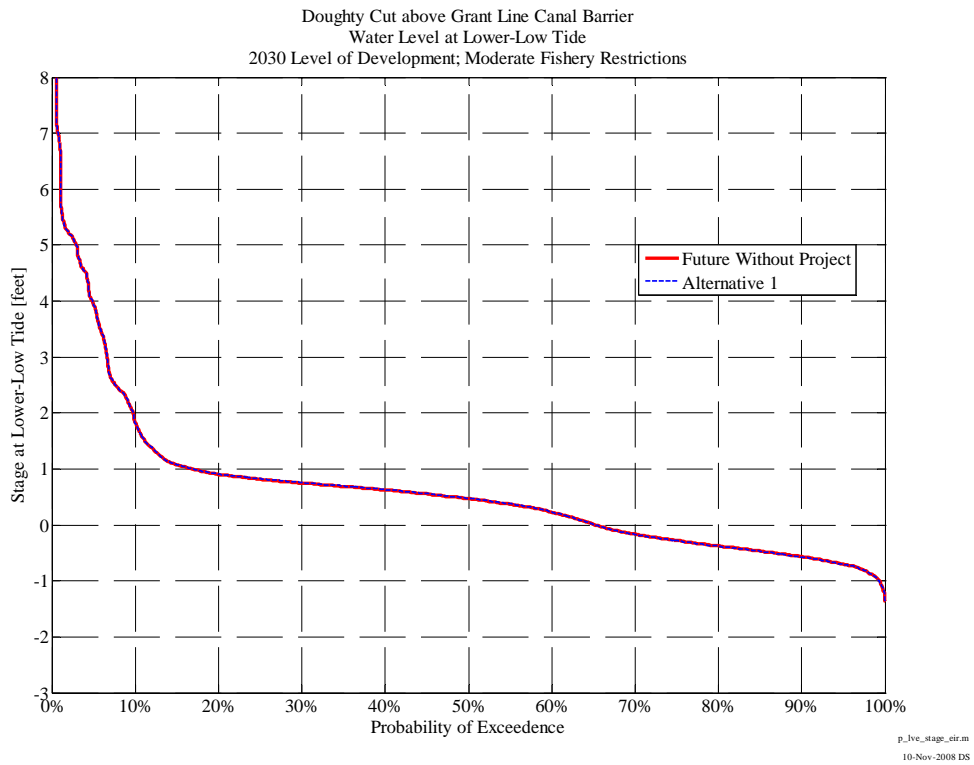
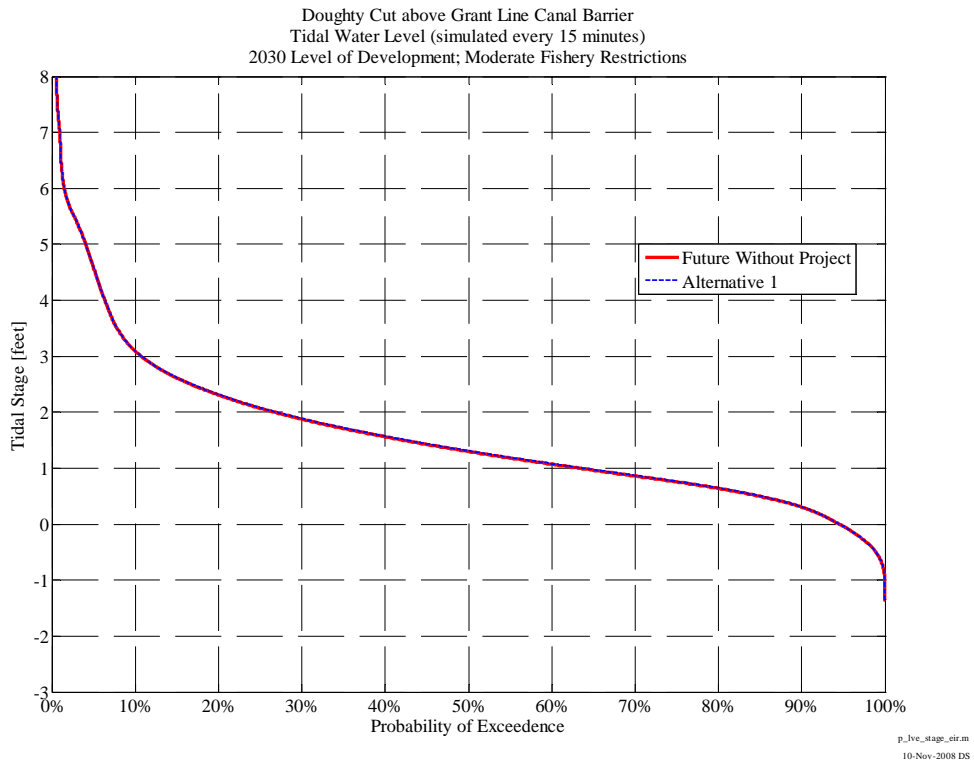
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 10-Nov-2008 DS

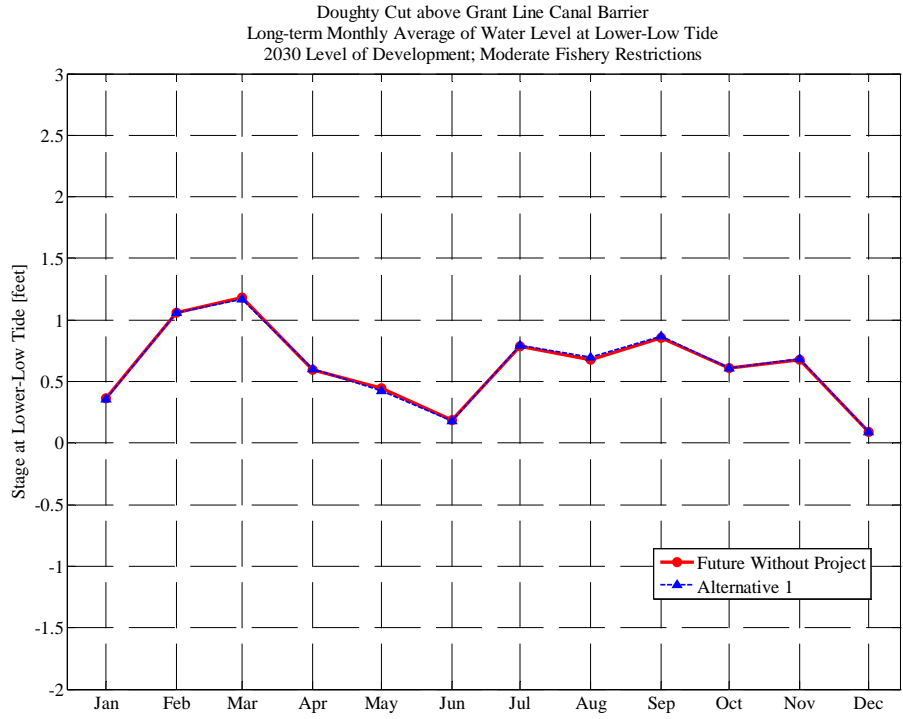


p\_lve\_stage\_eir.m  
 10-Nov-2008 DS

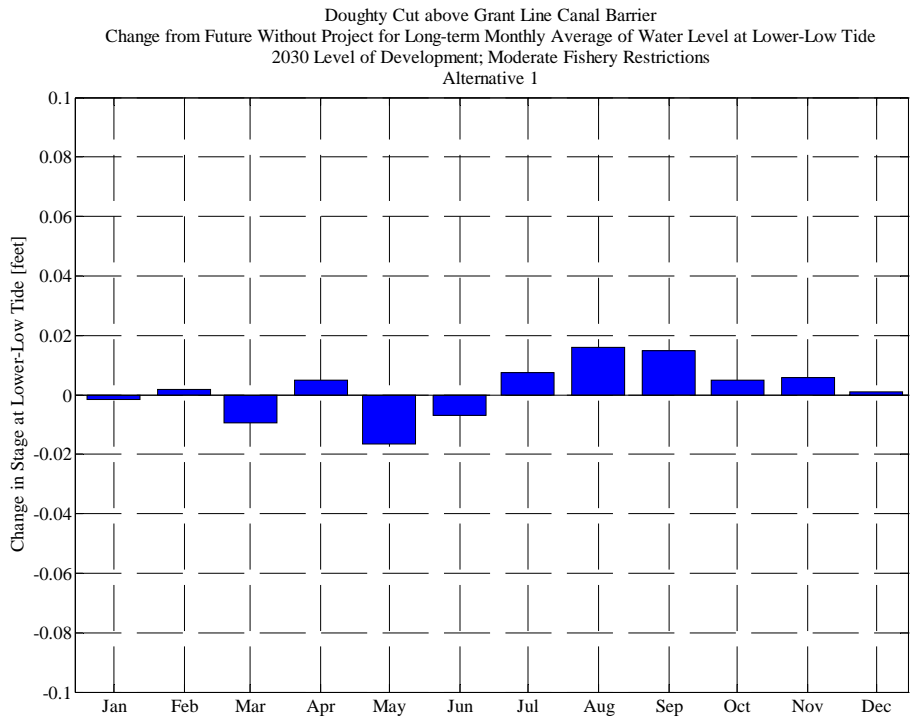
# Doughty Cut above Grant Line Canal

## Alternative 1



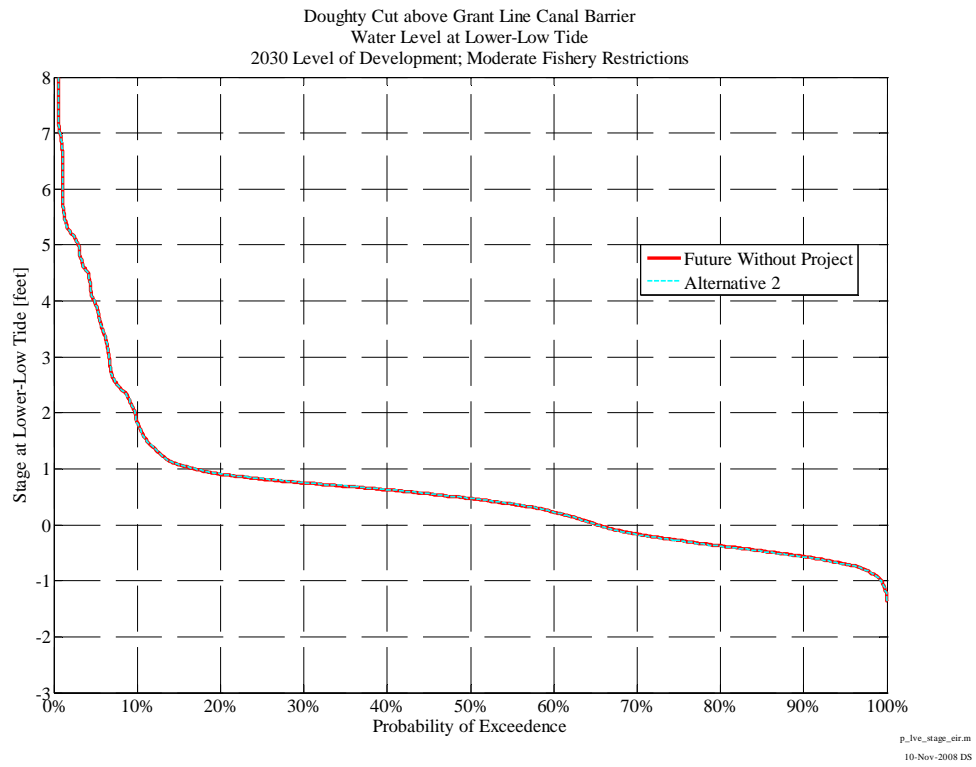
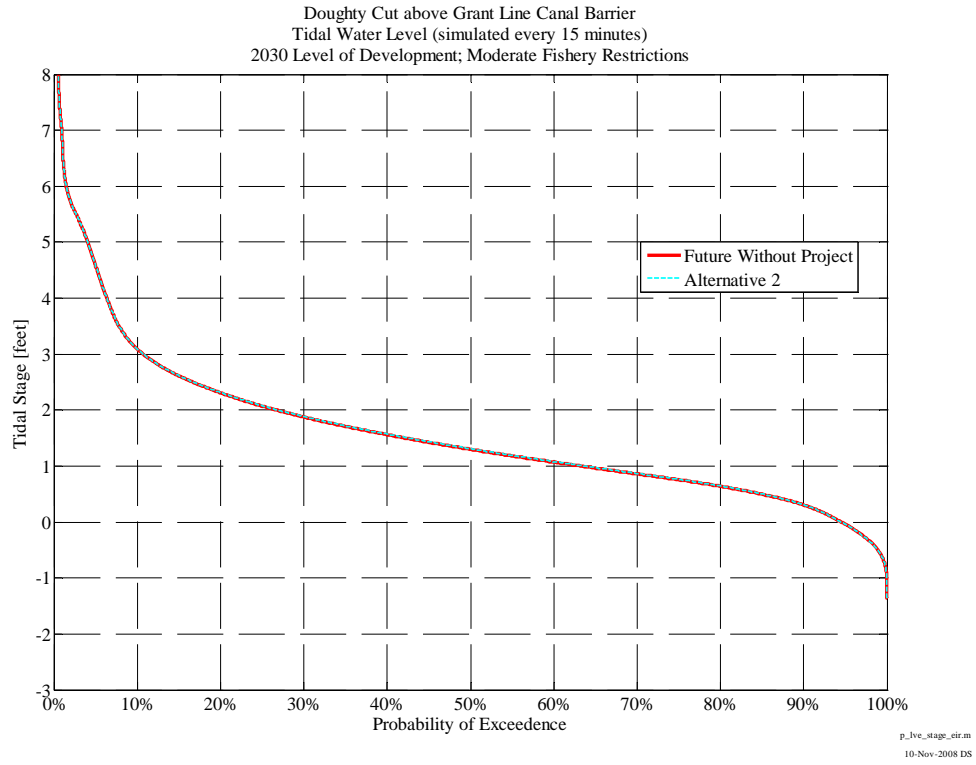


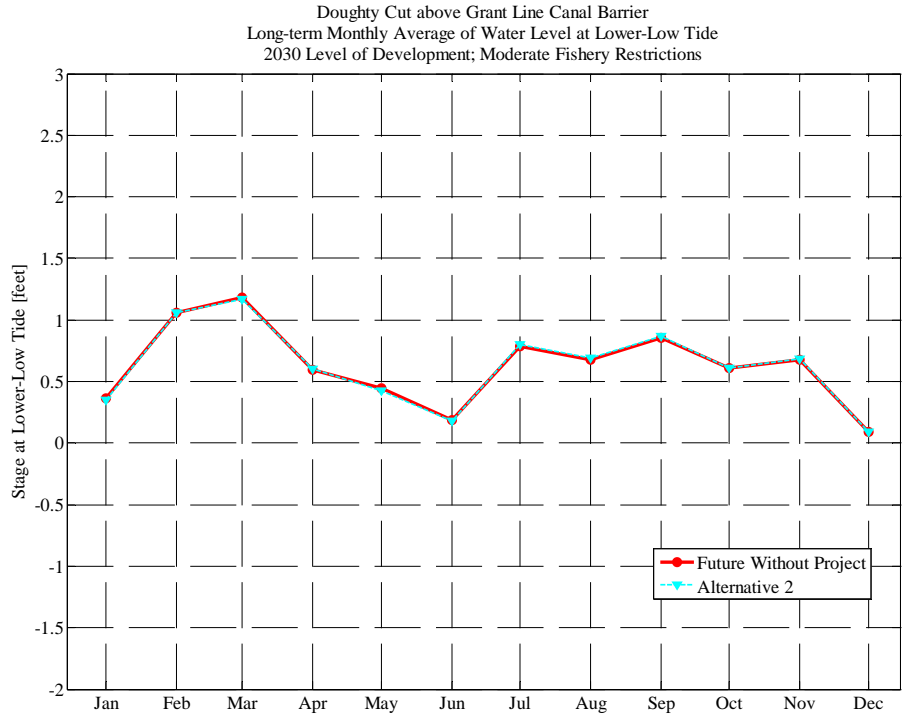
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10-Nov-2008 DS



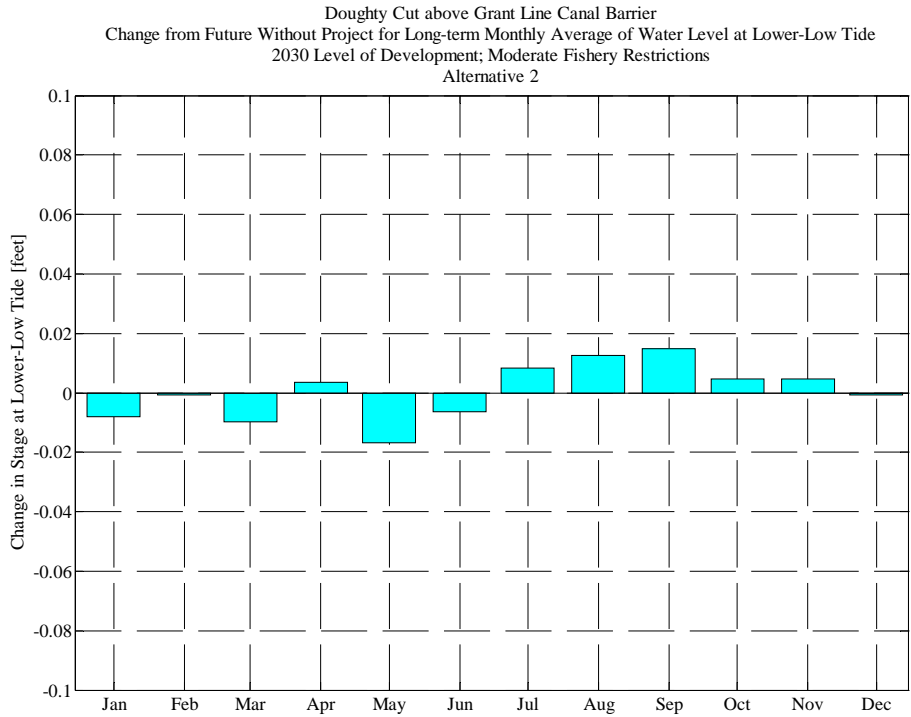
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

## Alternative 2



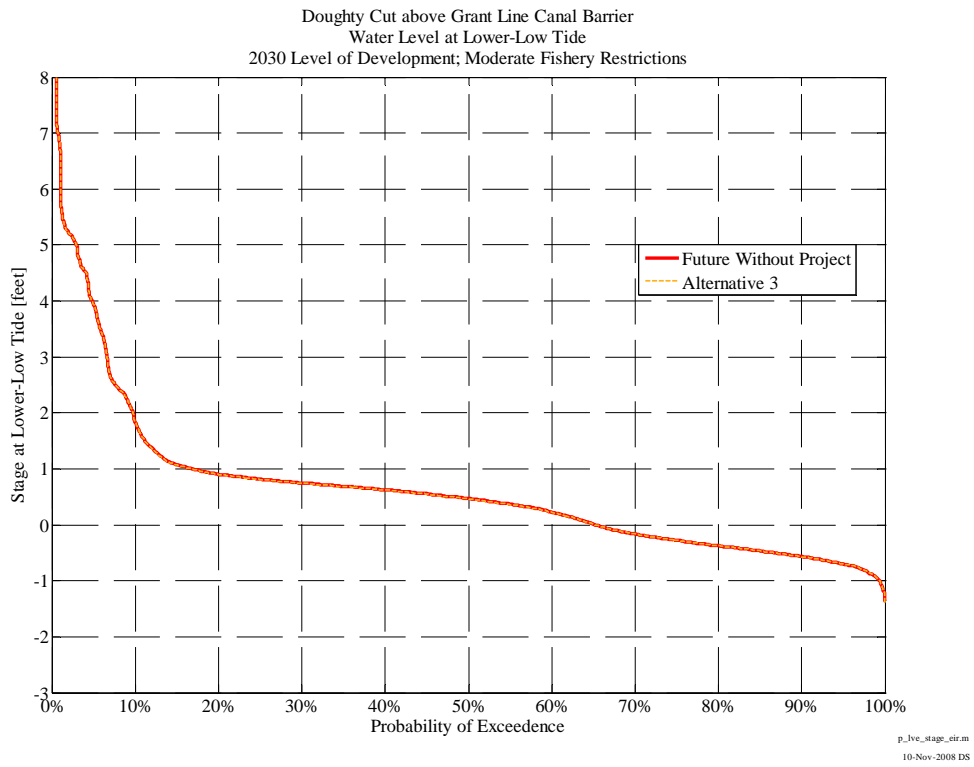
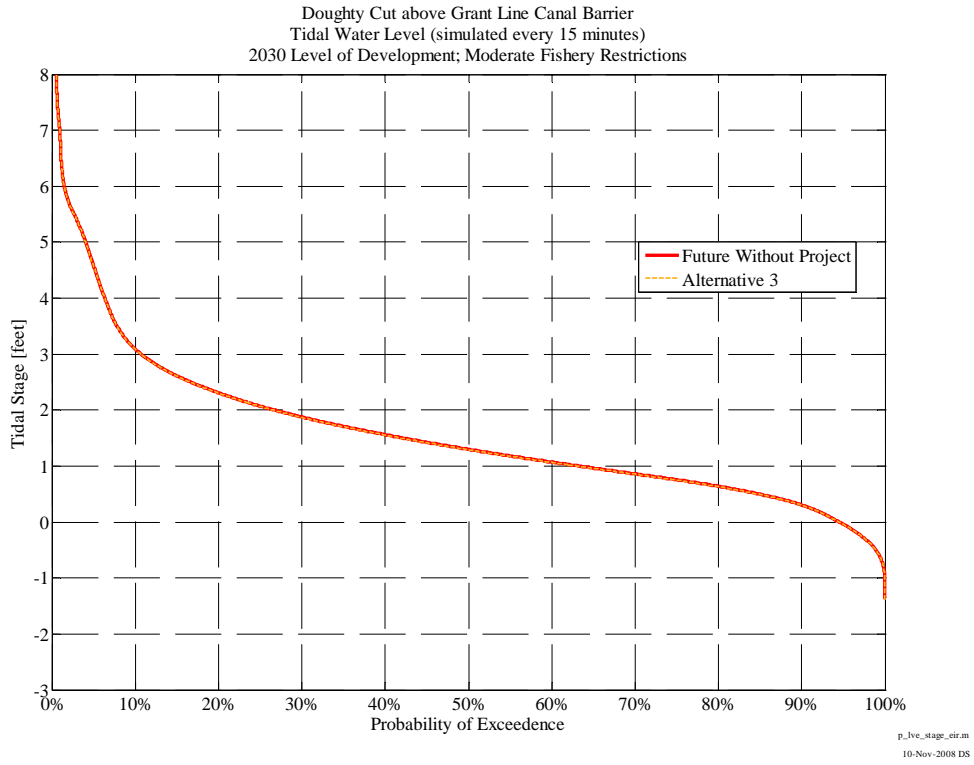


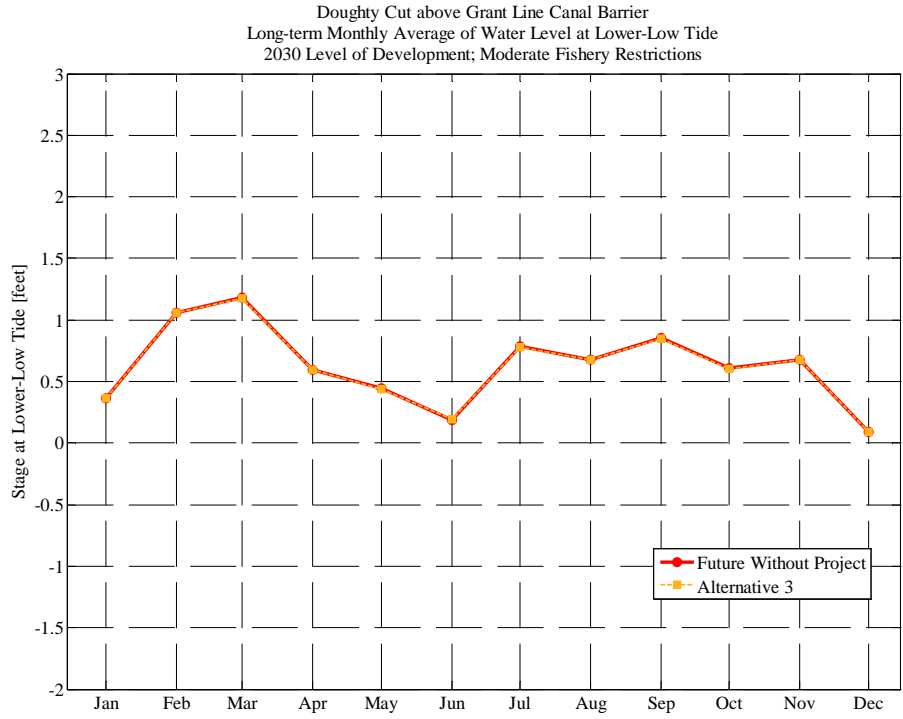
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



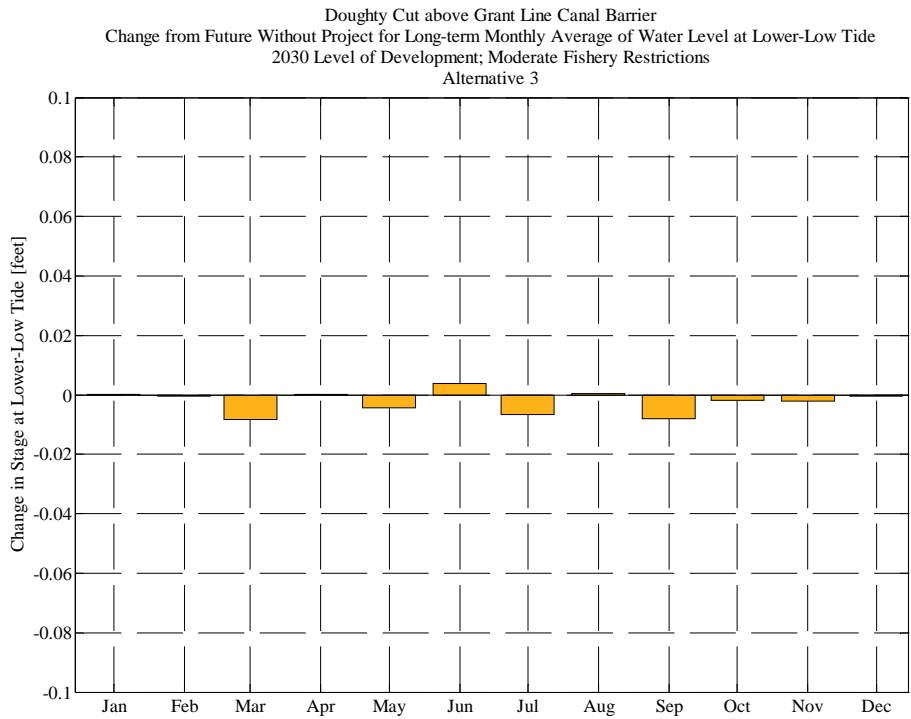
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



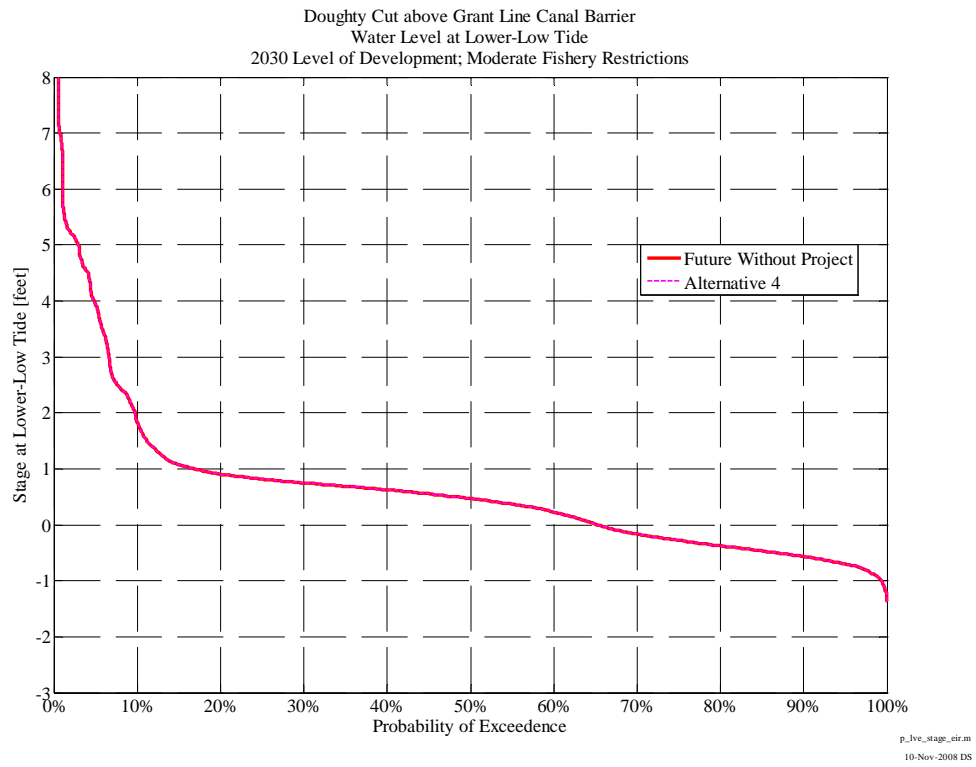
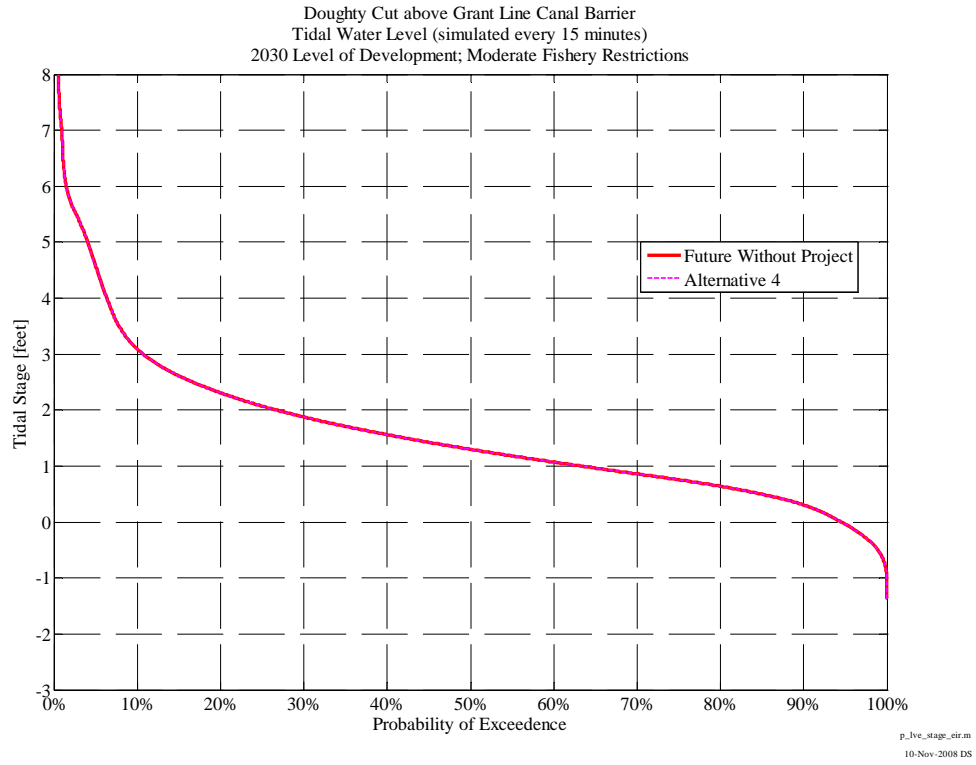


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

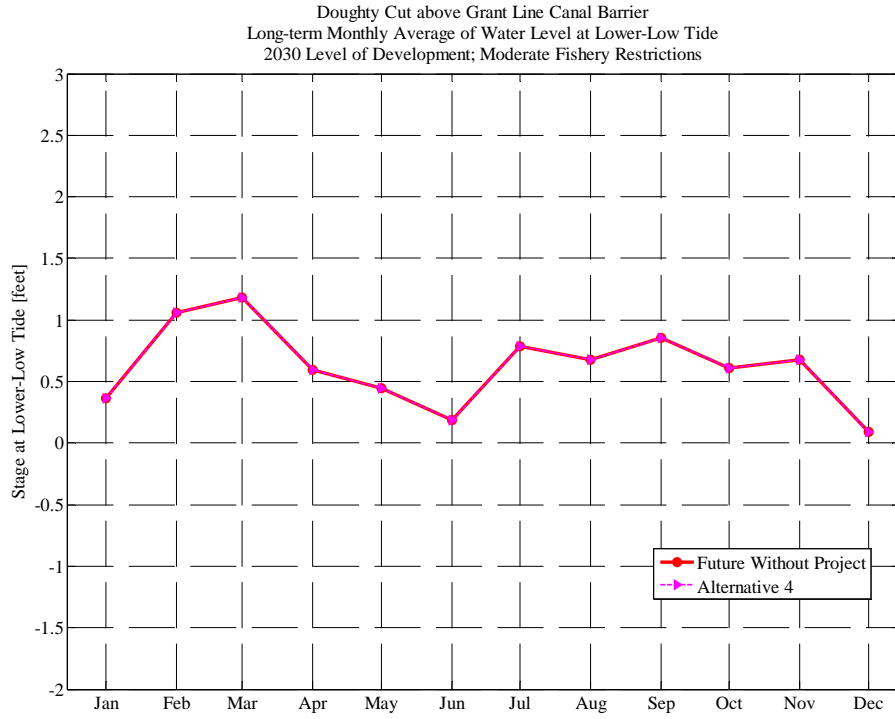


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

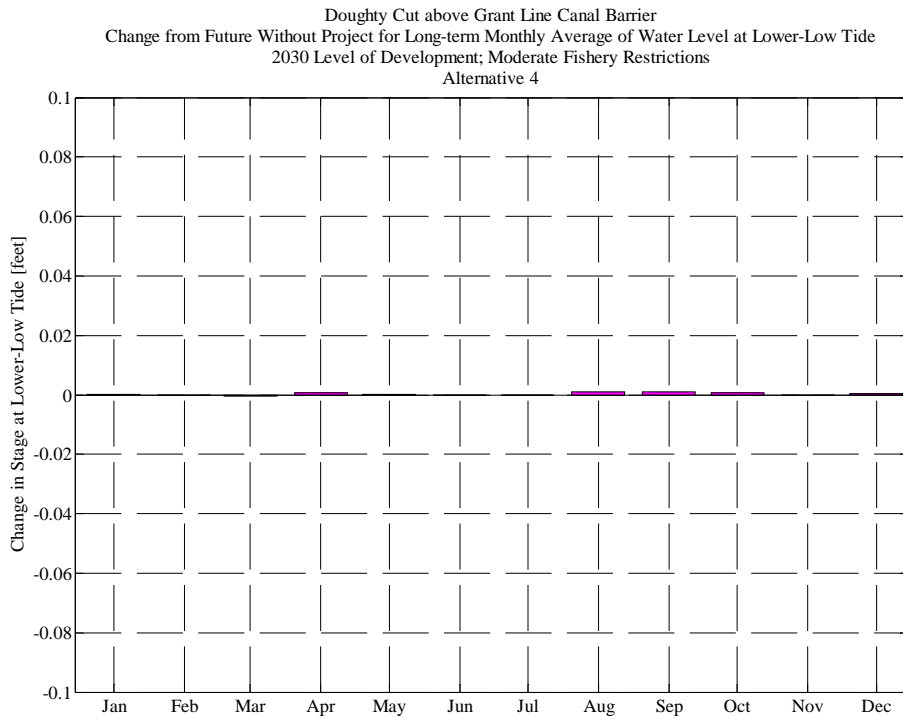
### Alternative 4







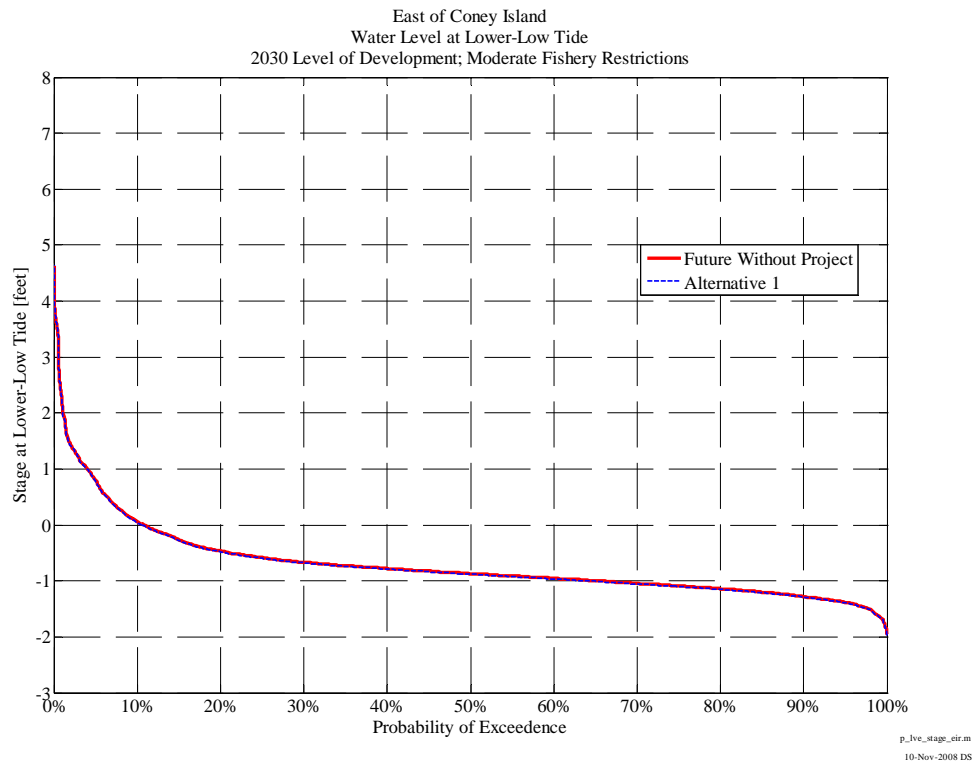
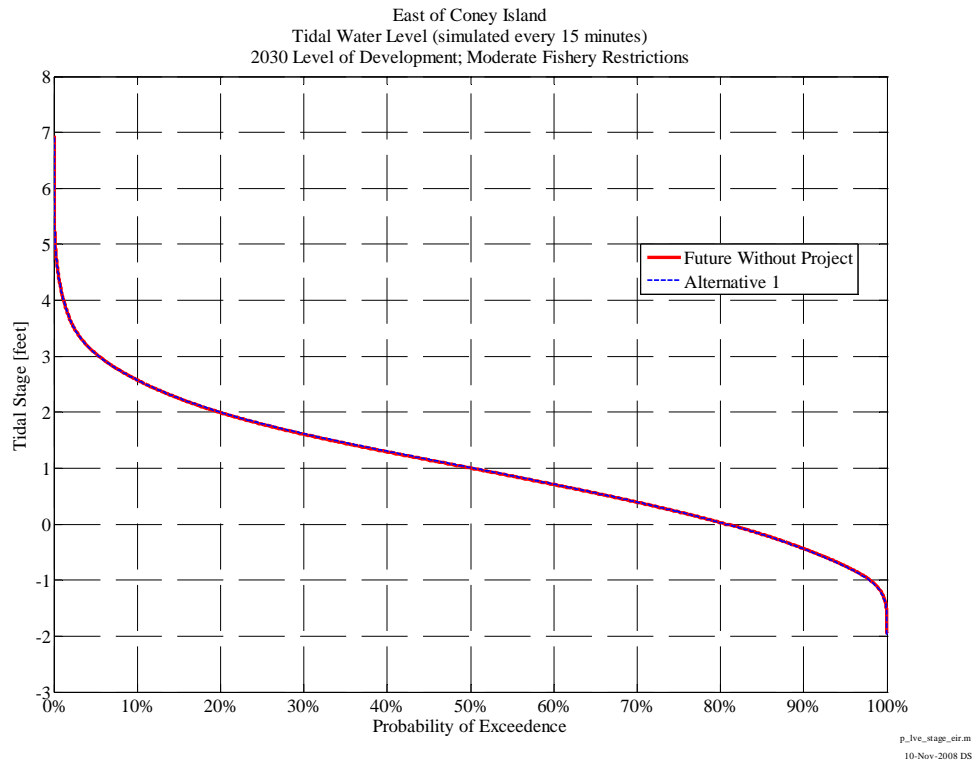
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

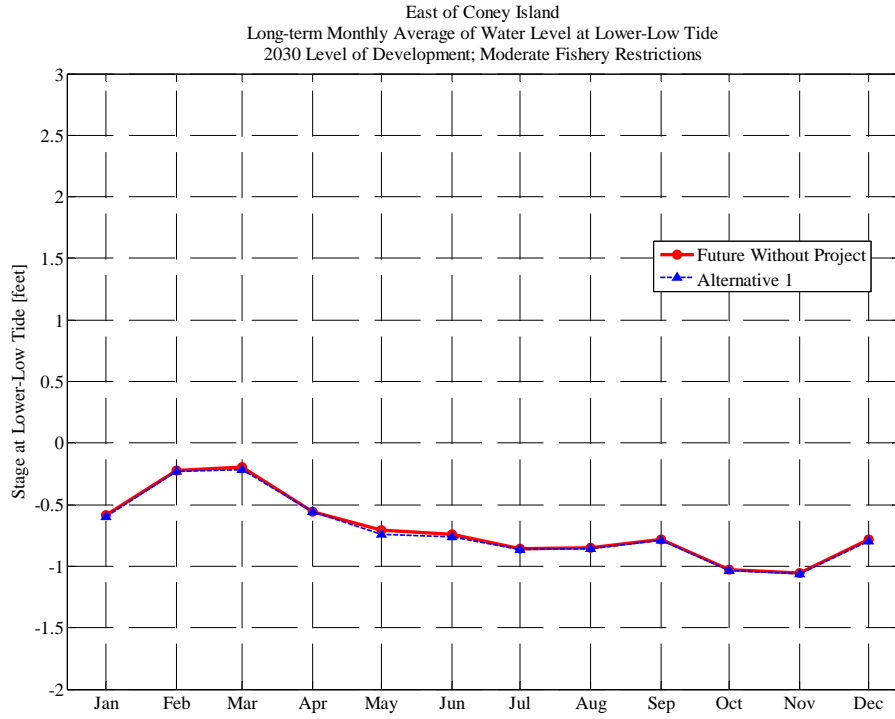


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

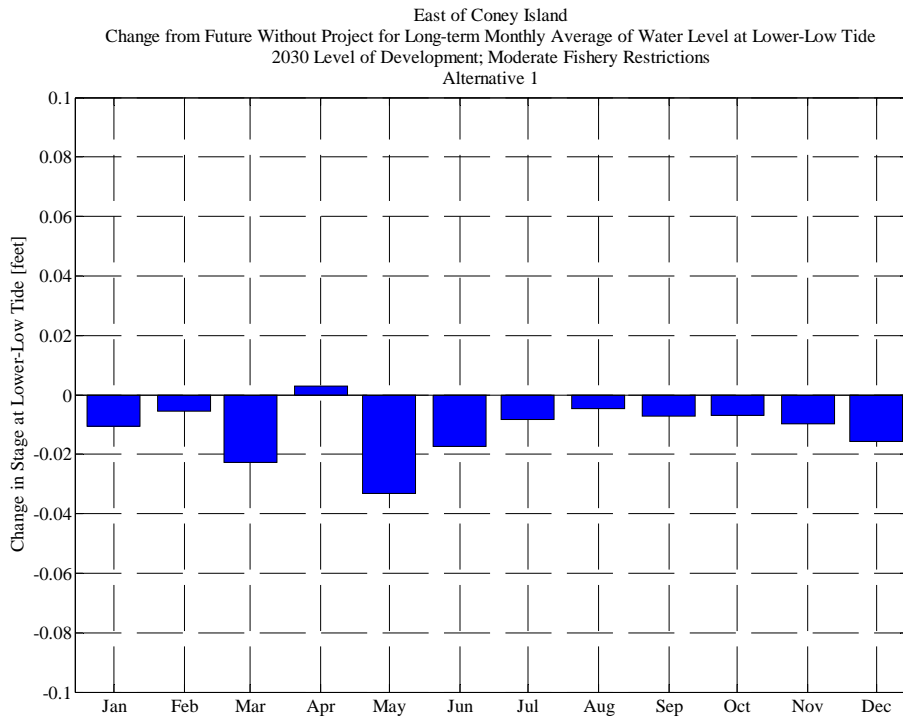
# East of Coney Island

## Alternative 1



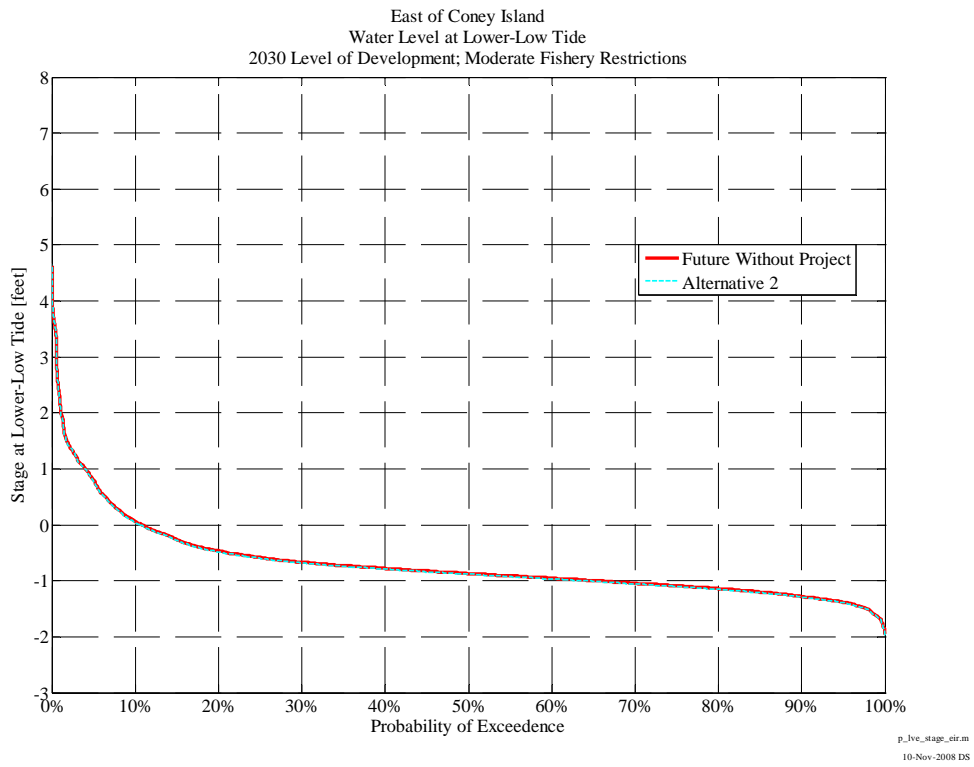
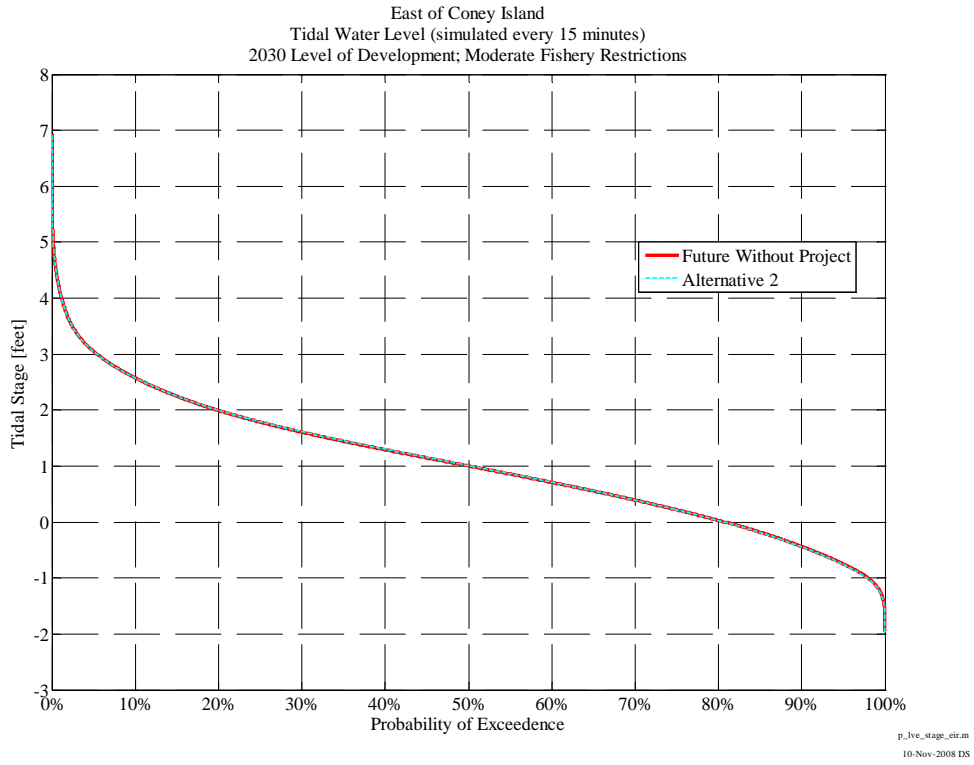


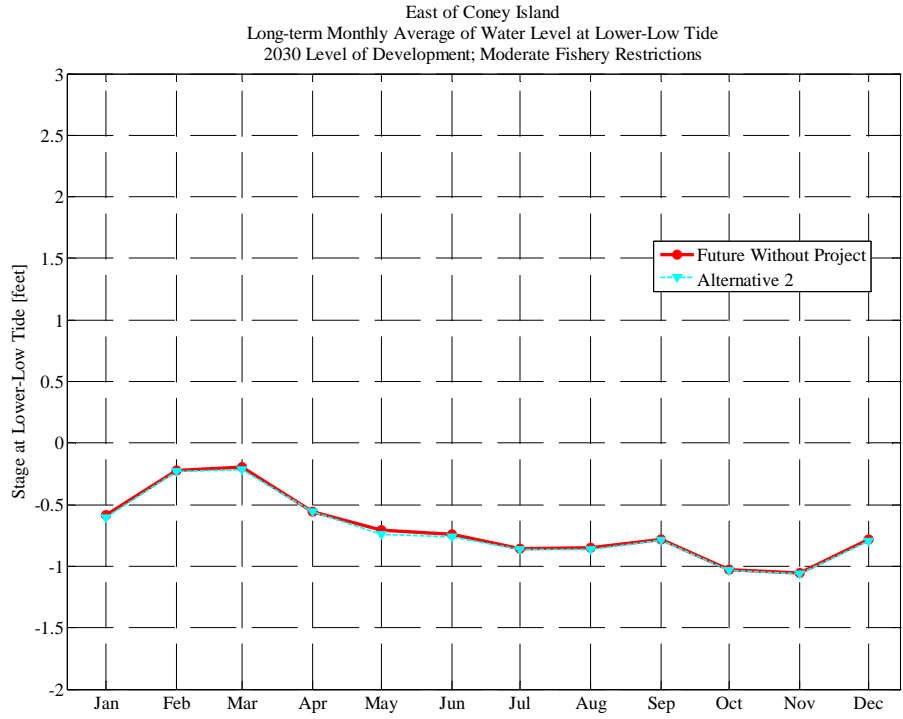
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



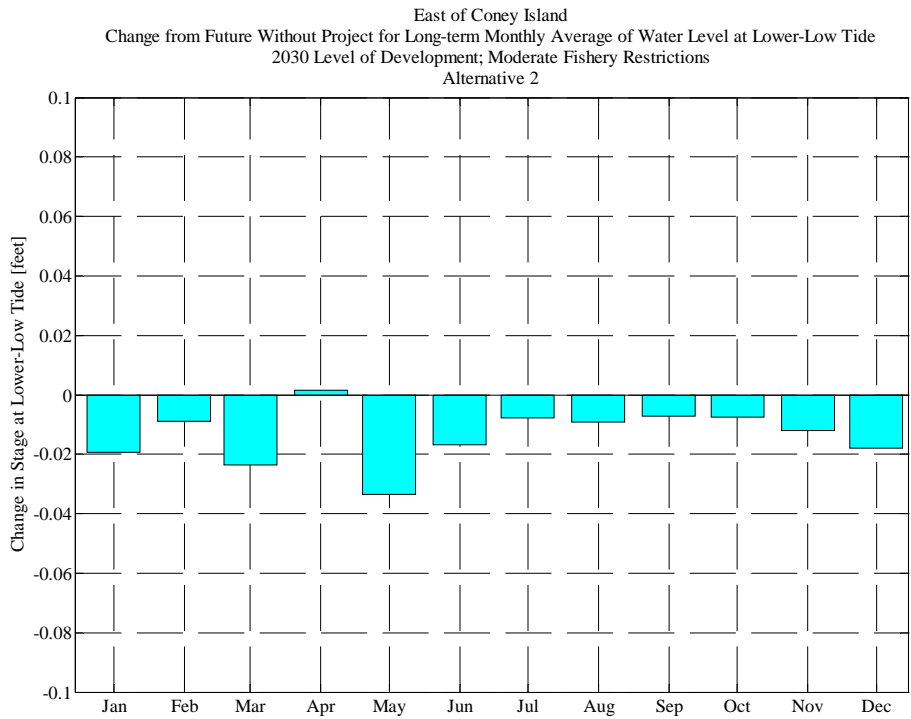
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

## Alternative 2



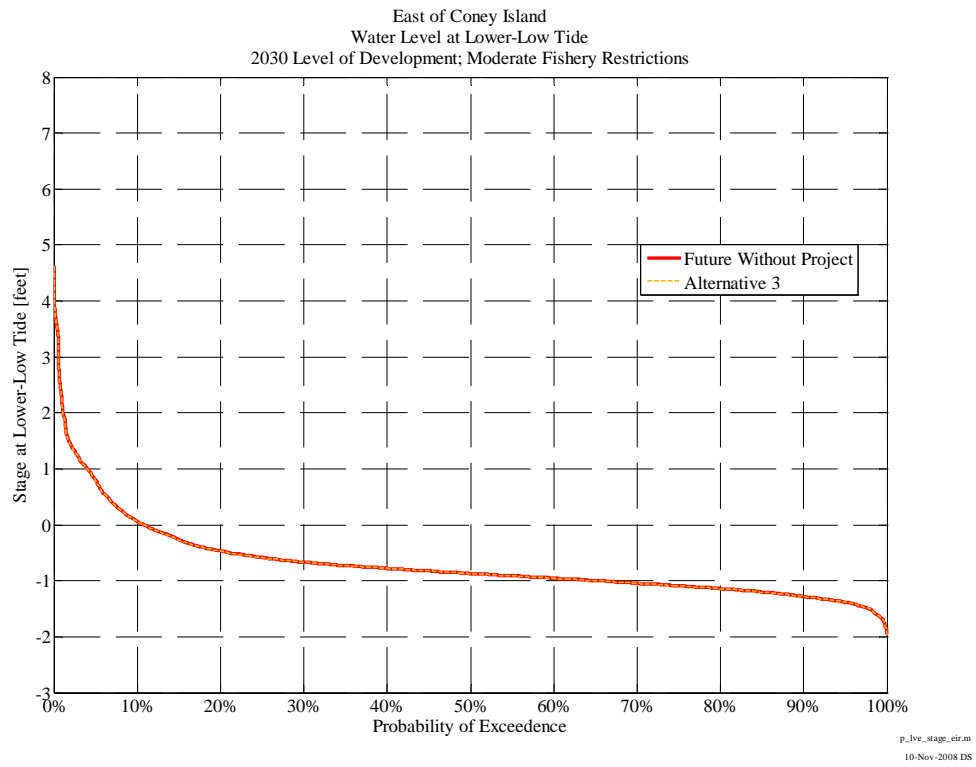
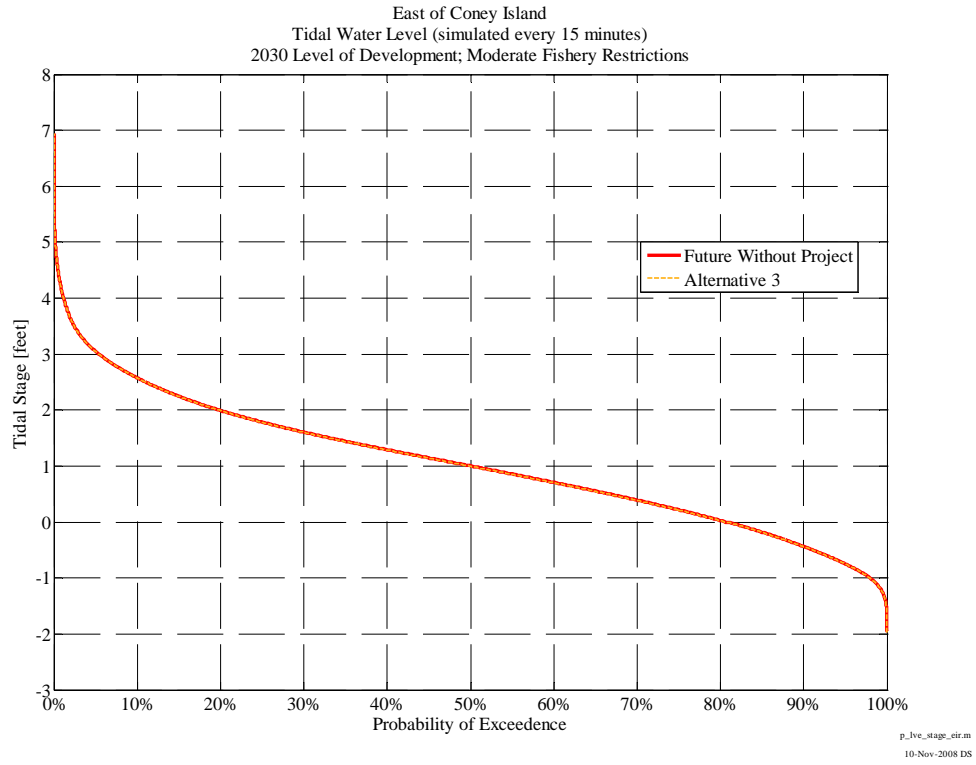


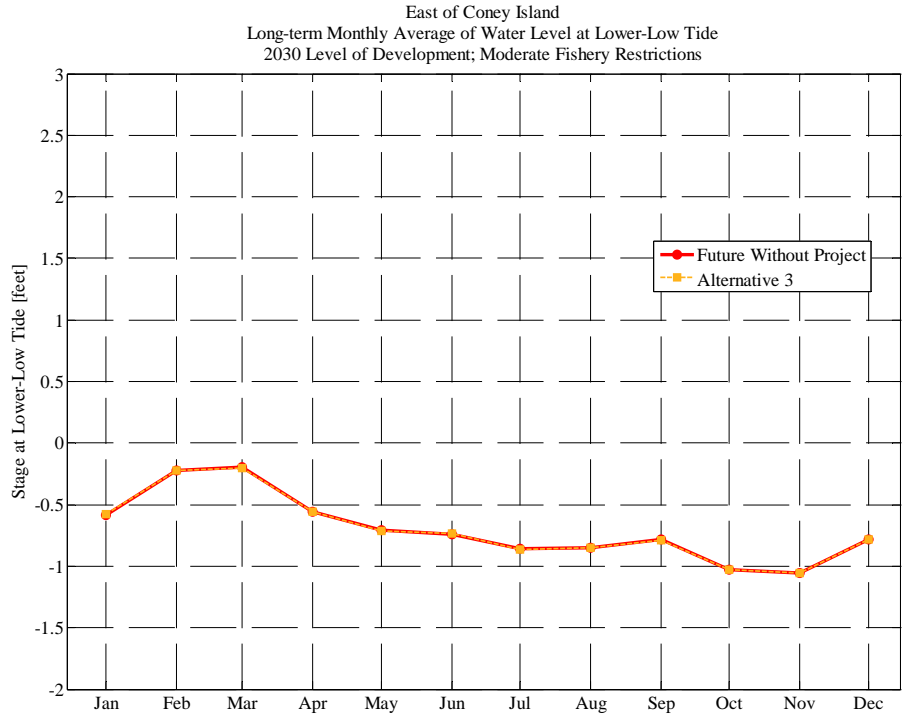
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



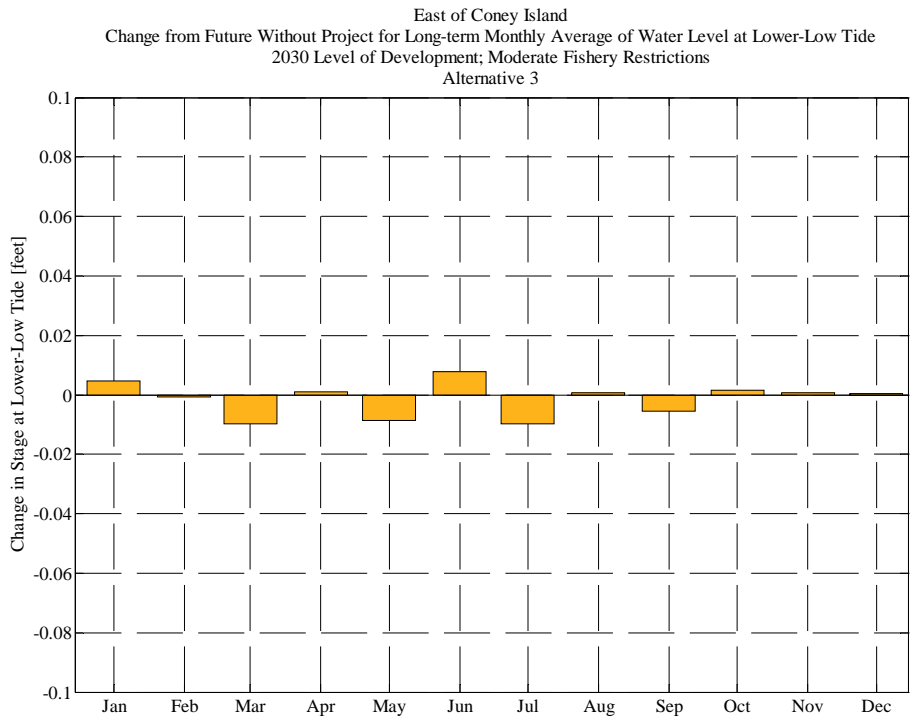
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



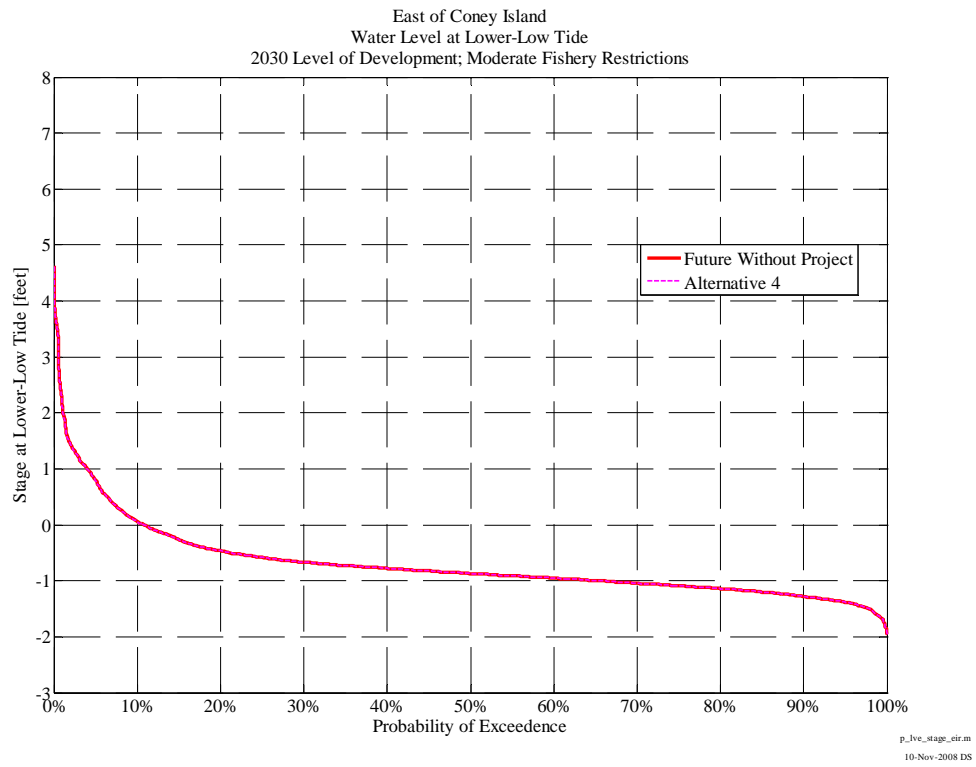
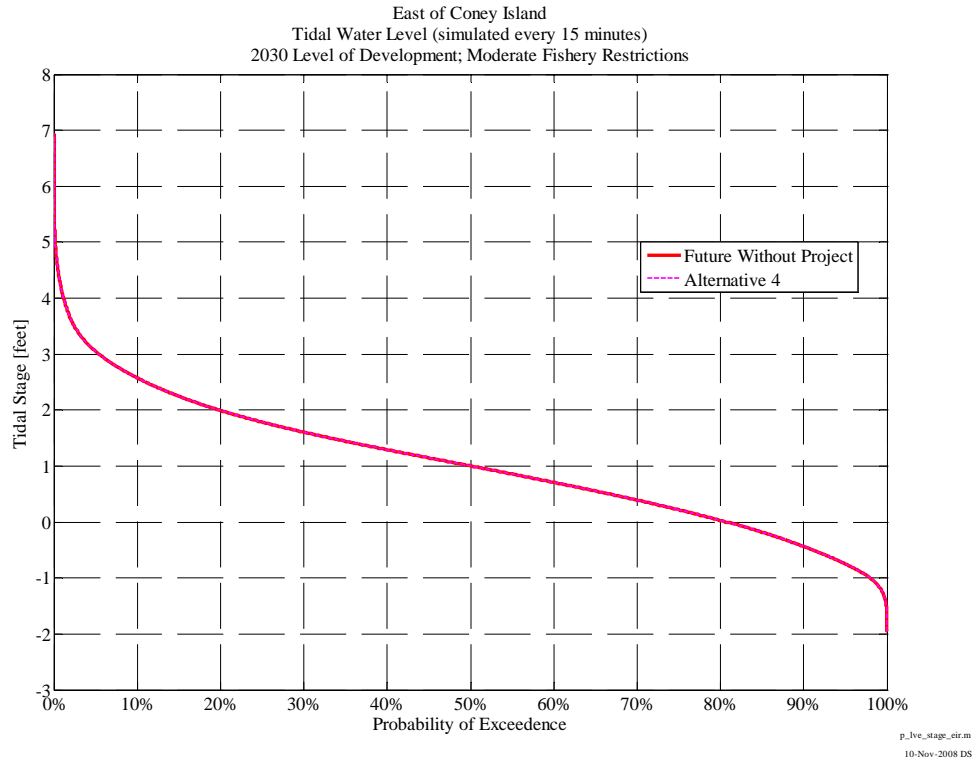


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

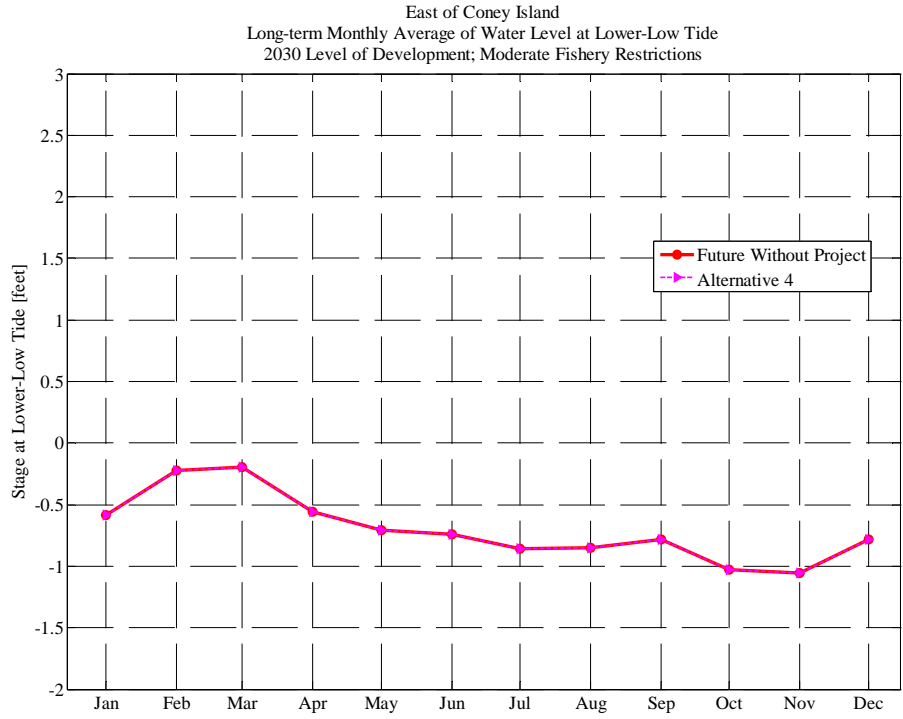


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

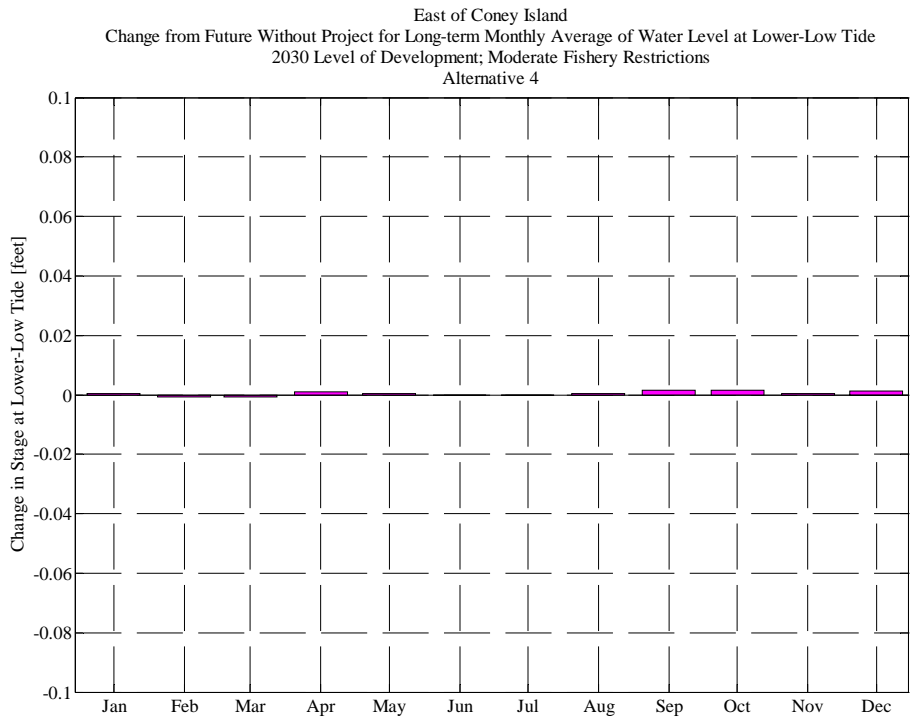
### Alternative 4







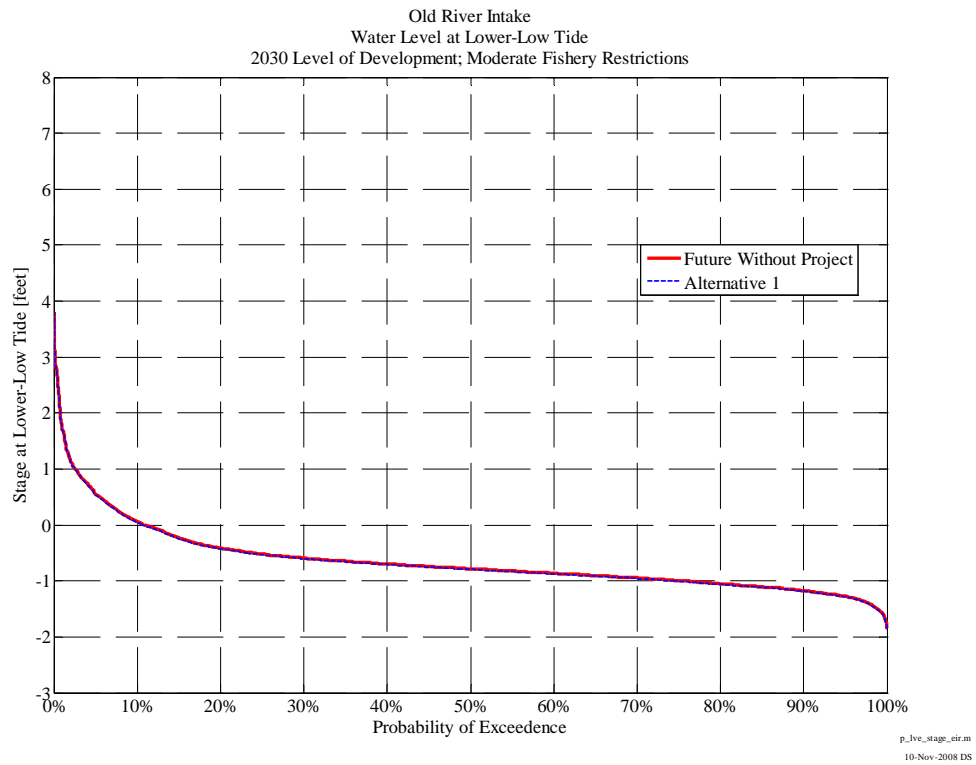
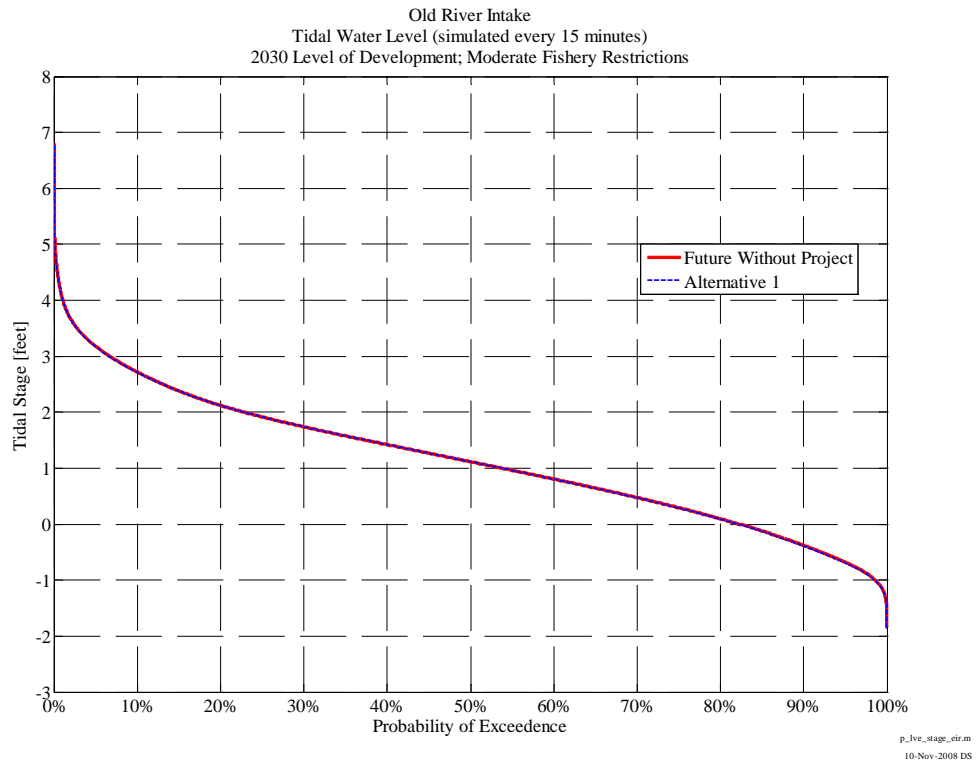
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10-Nov-2008 DS

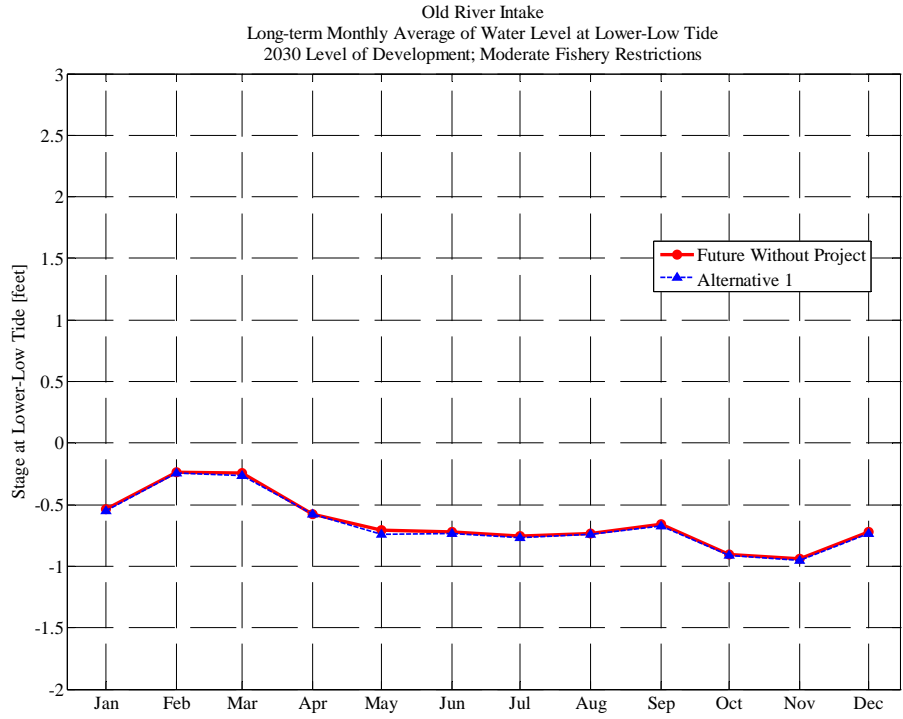


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

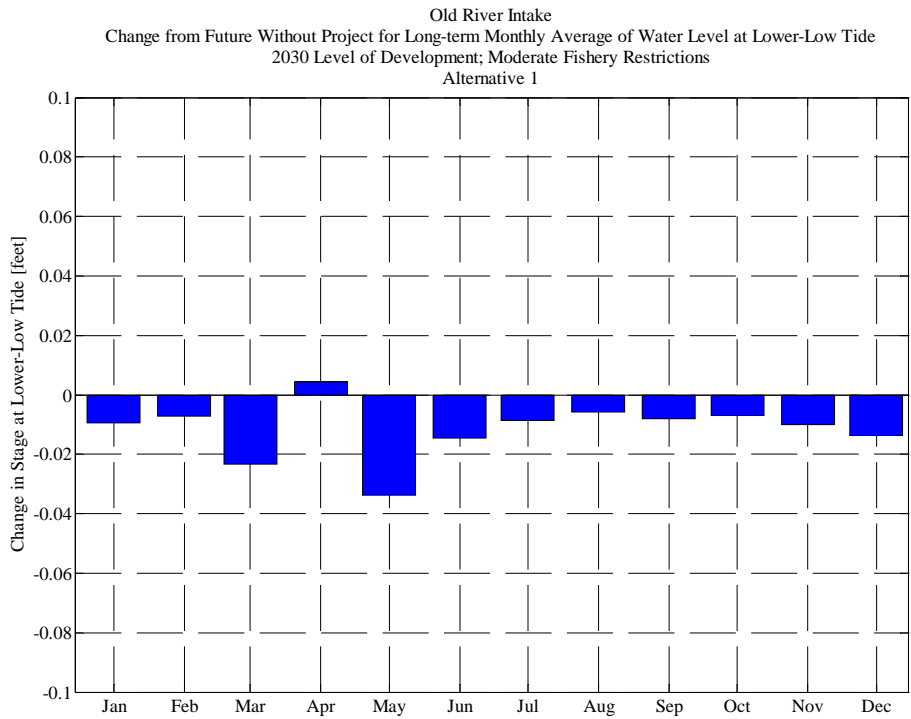
# Old River Intake

## Alternative 1



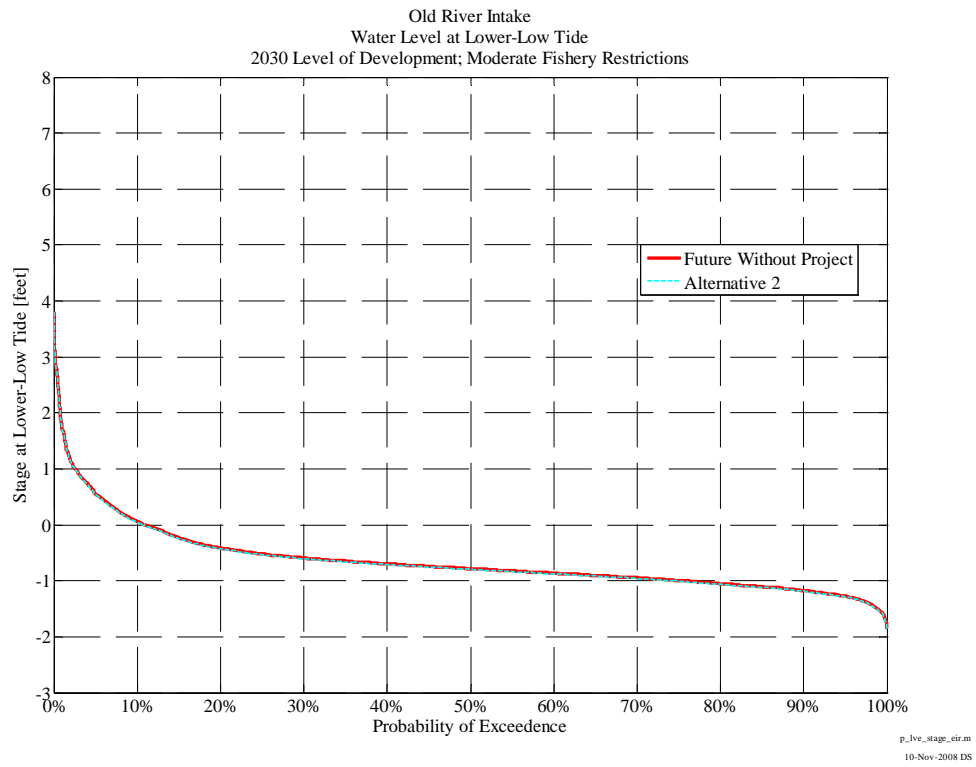
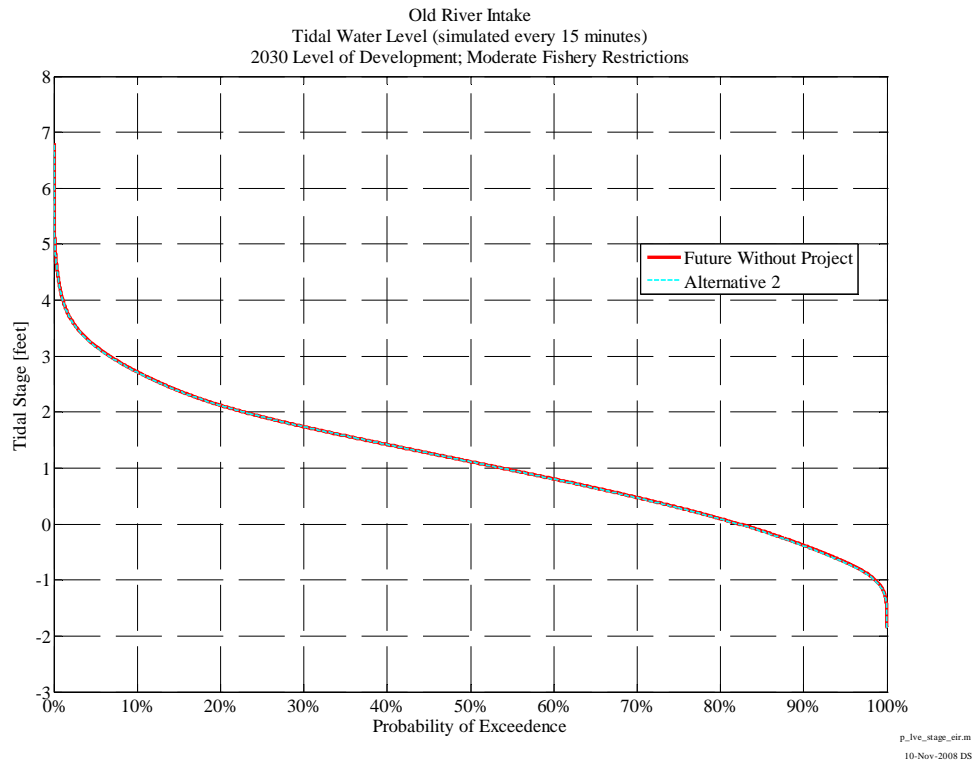


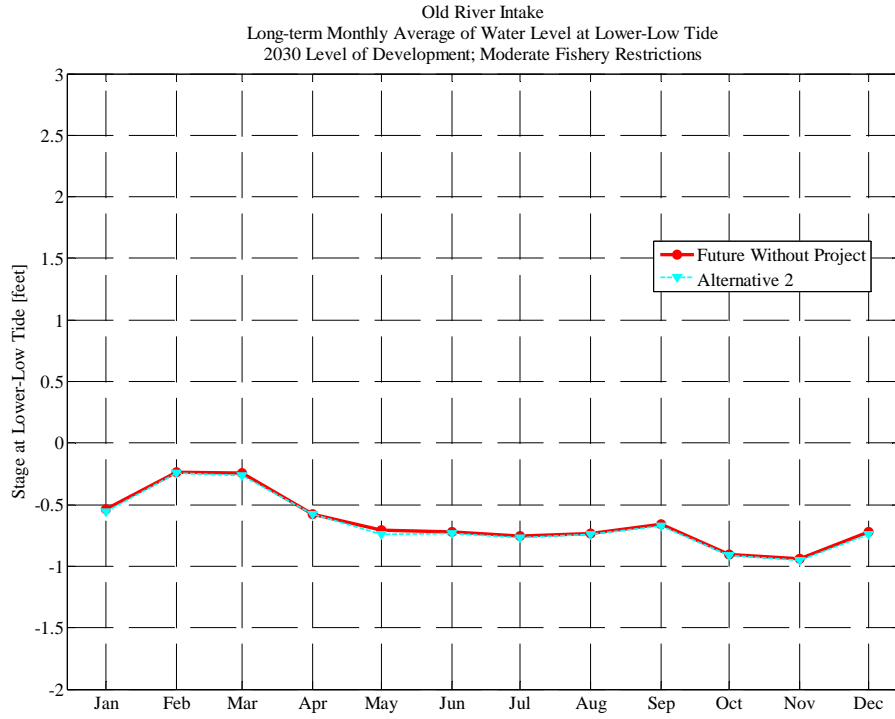
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



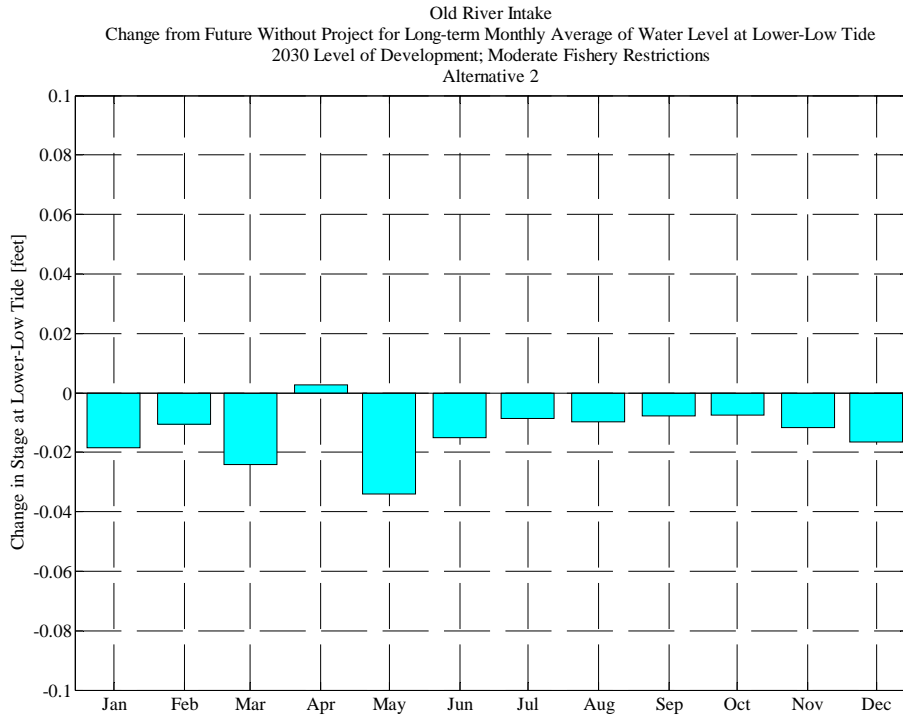
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

## Alternative 2



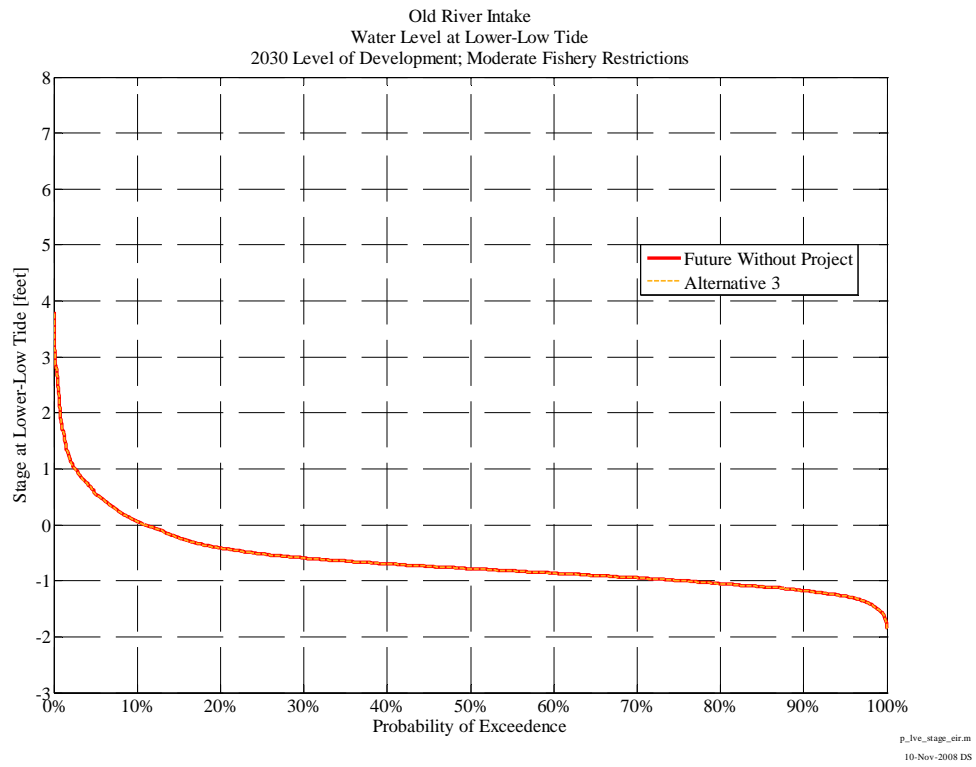
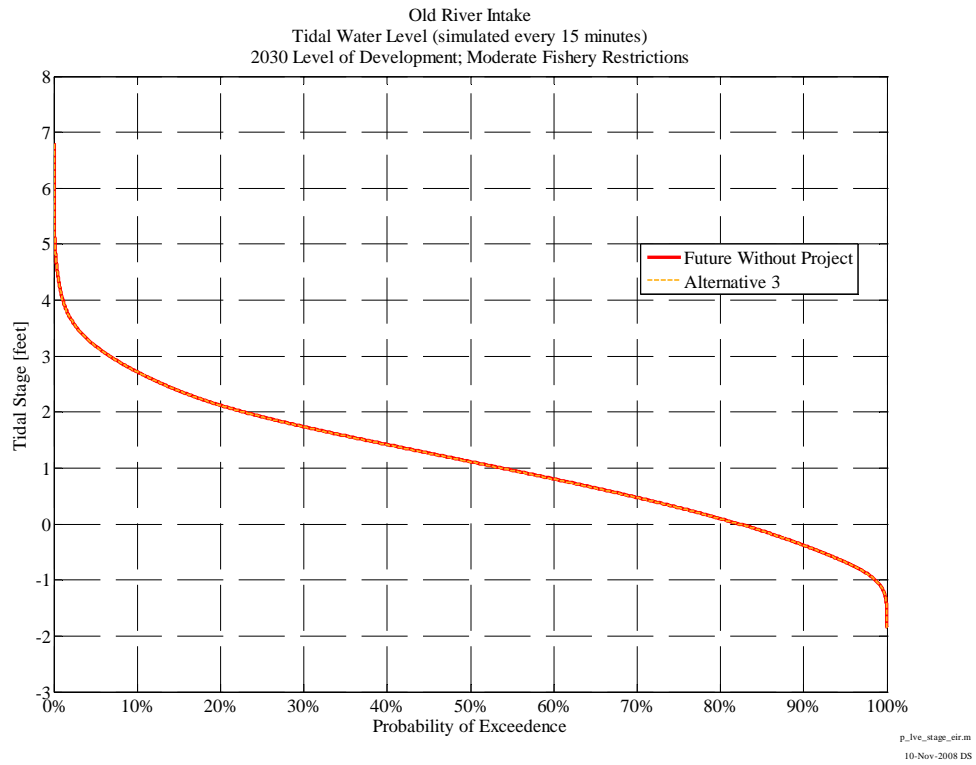


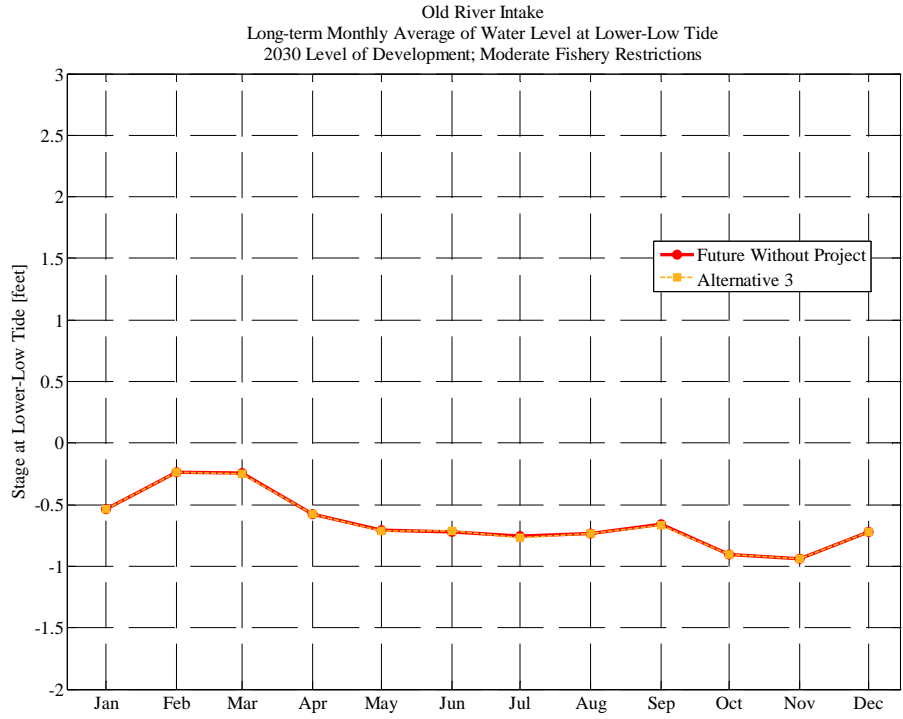
p\_lve\_stage\_eir.m  
10-Nov-2008 DS



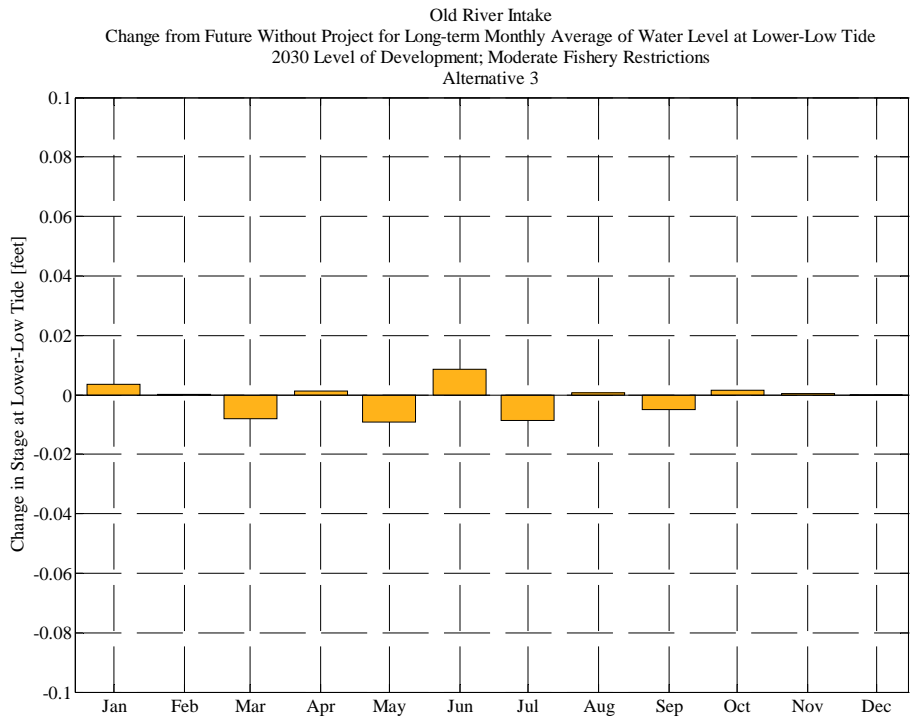
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



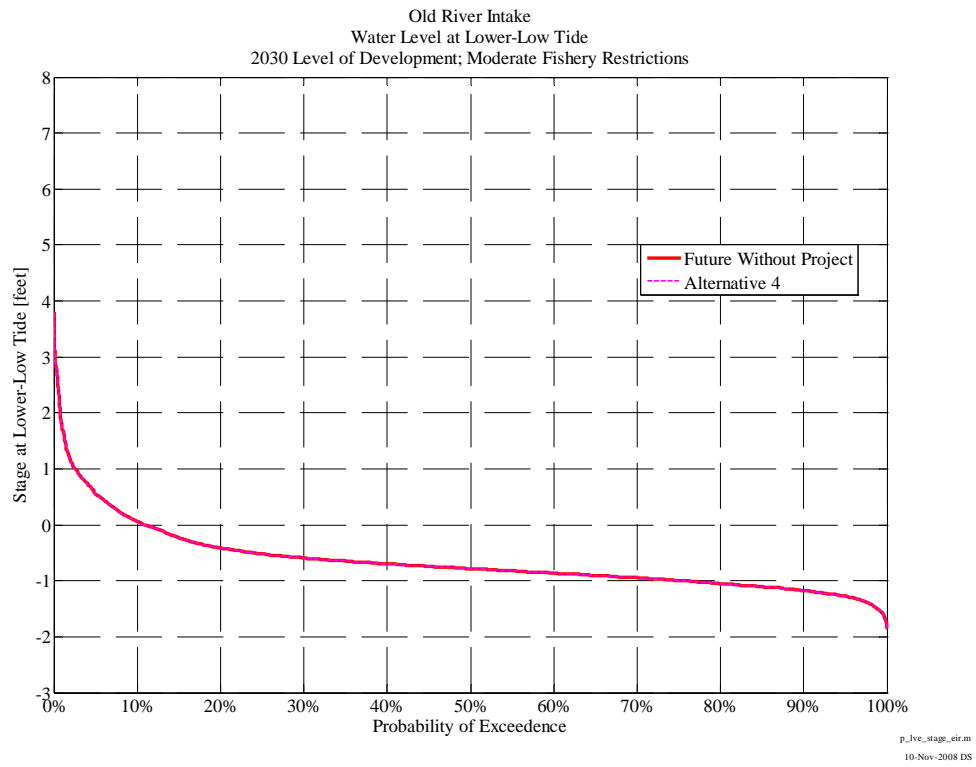
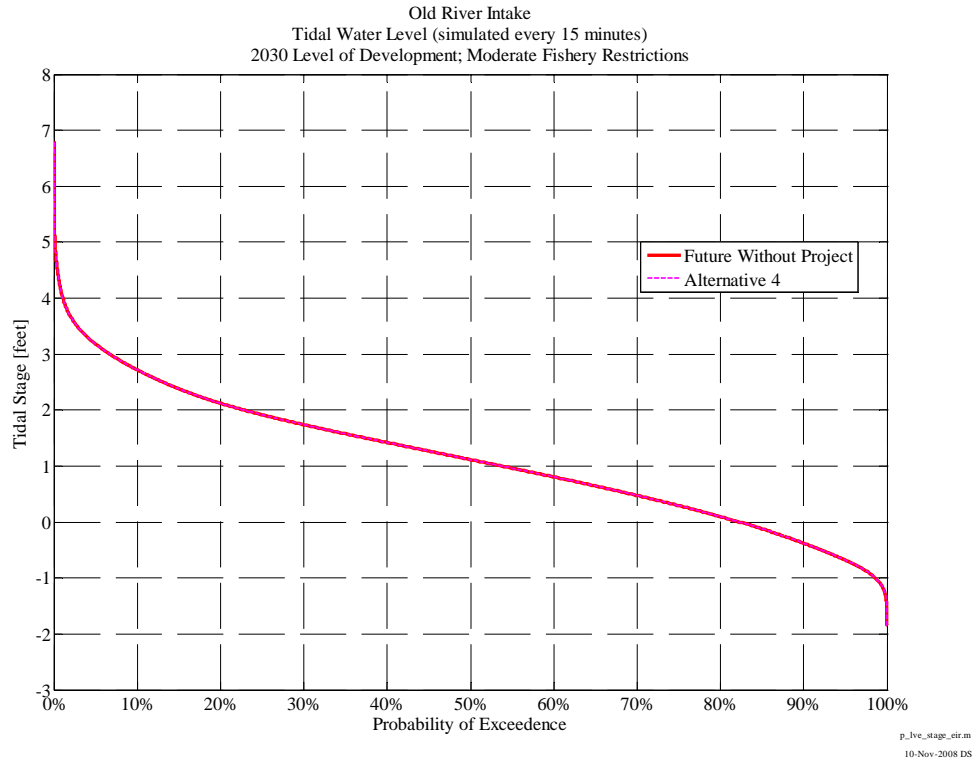


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

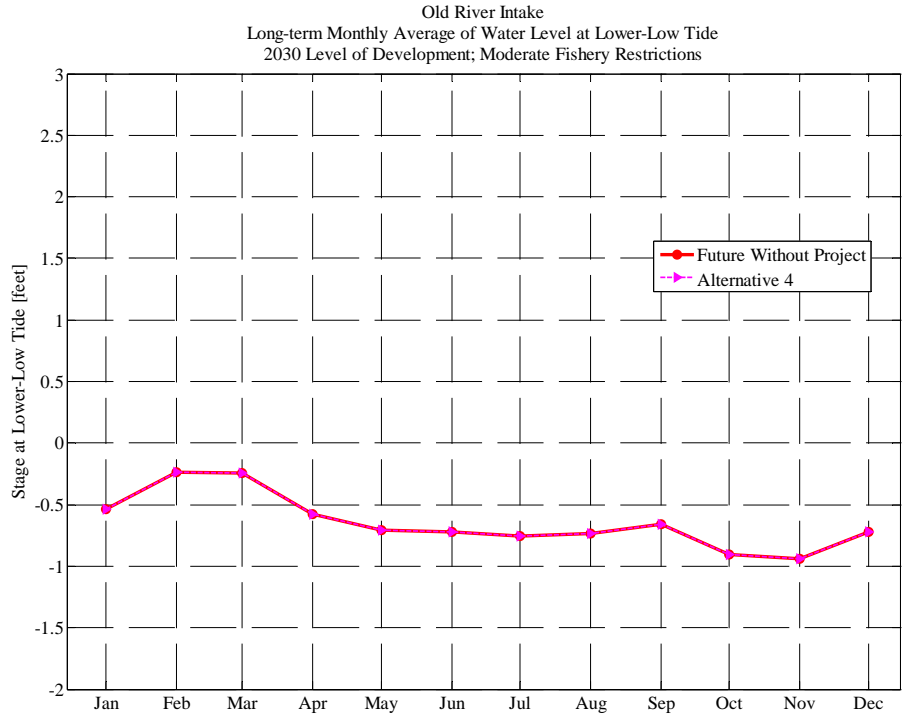


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

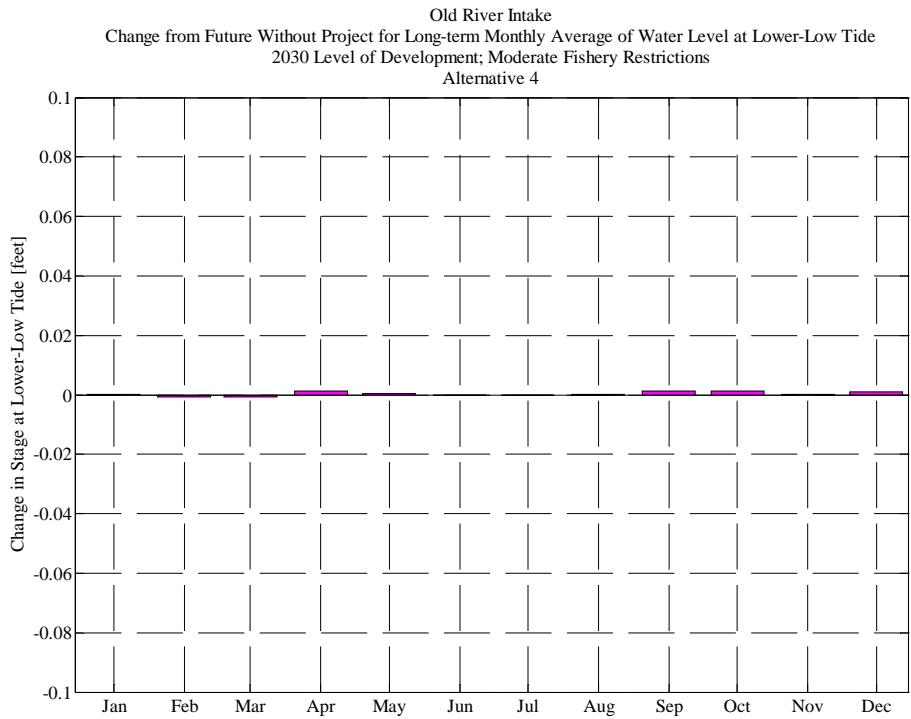
**Alternative 4**







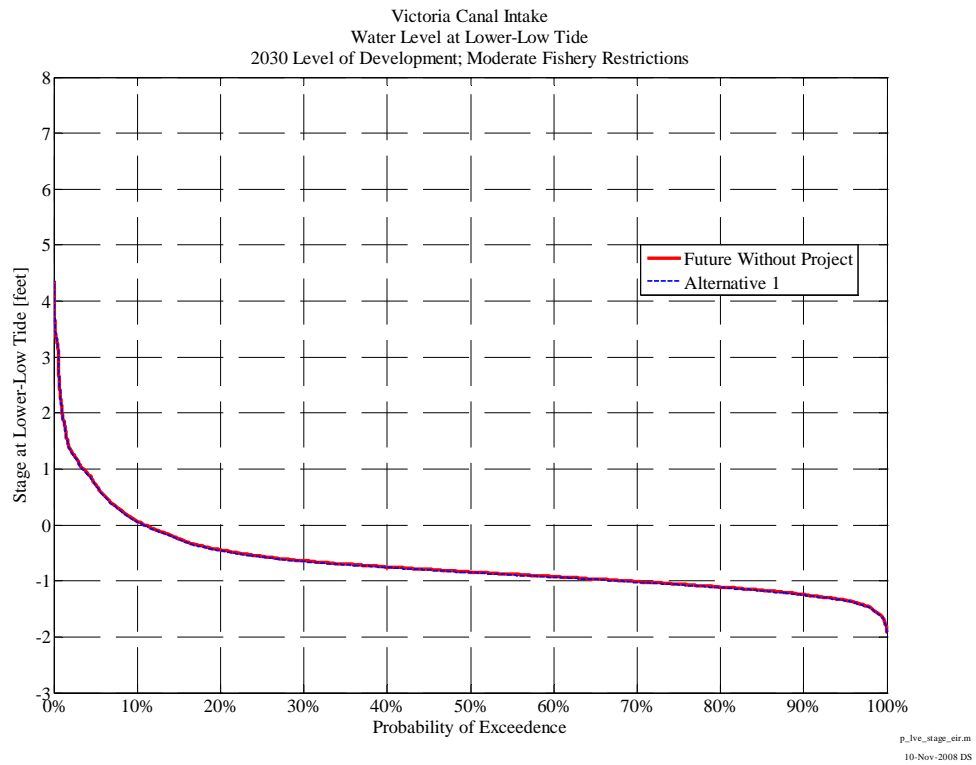
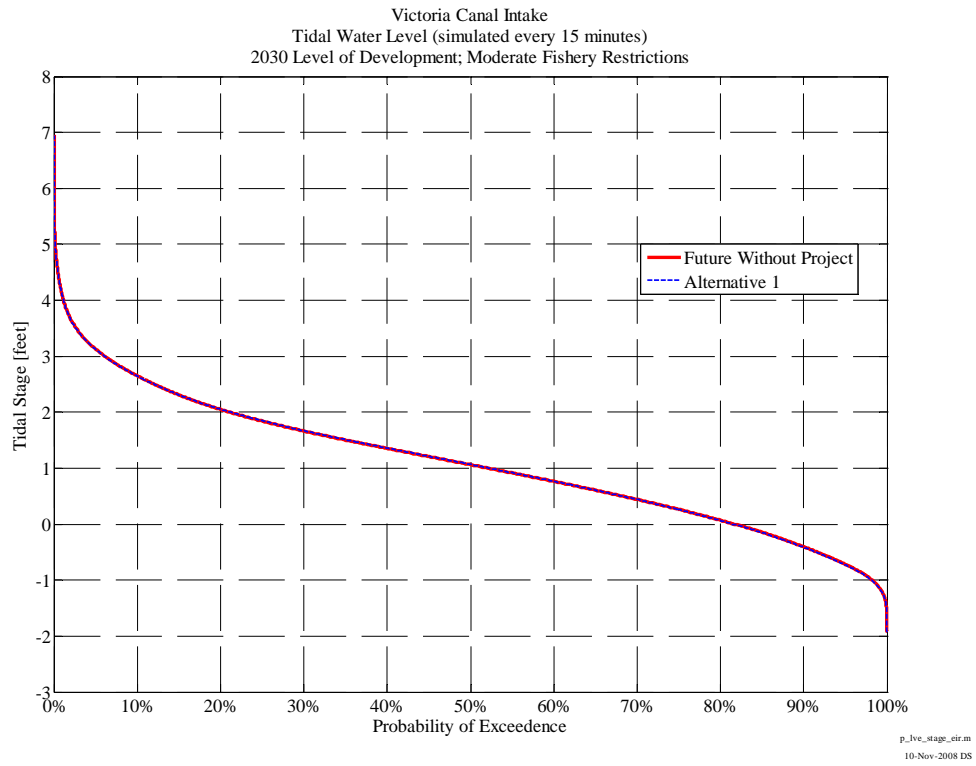
p\_lve\_stage\_eir.m  
10-Nov-2008 DS

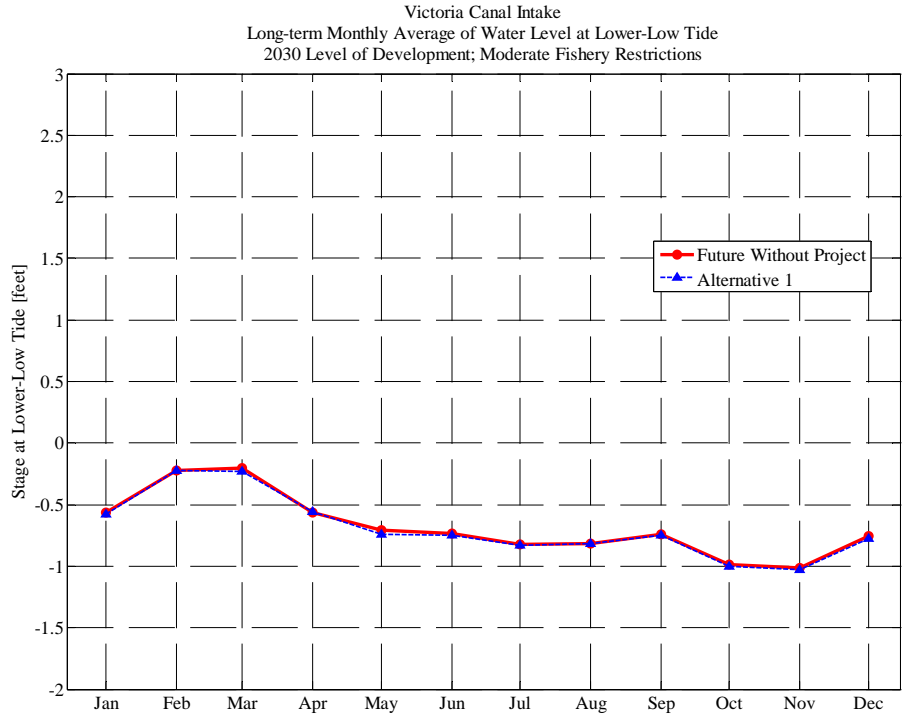


p\_lve\_stage\_eir.m  
10-Nov-2008 DS

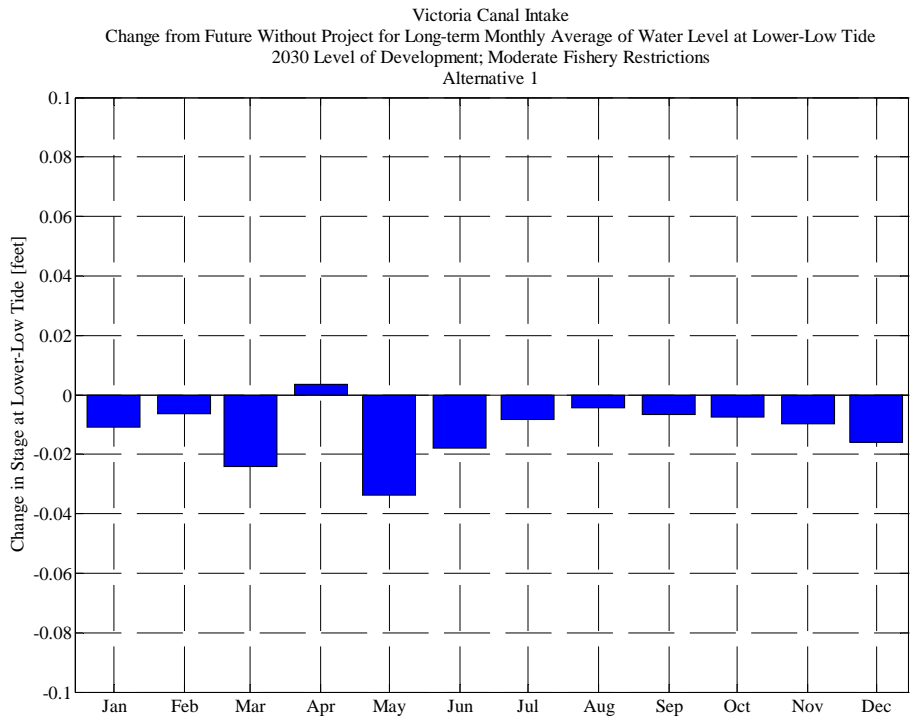
# Victoria Canal Intake

## Alternative 1



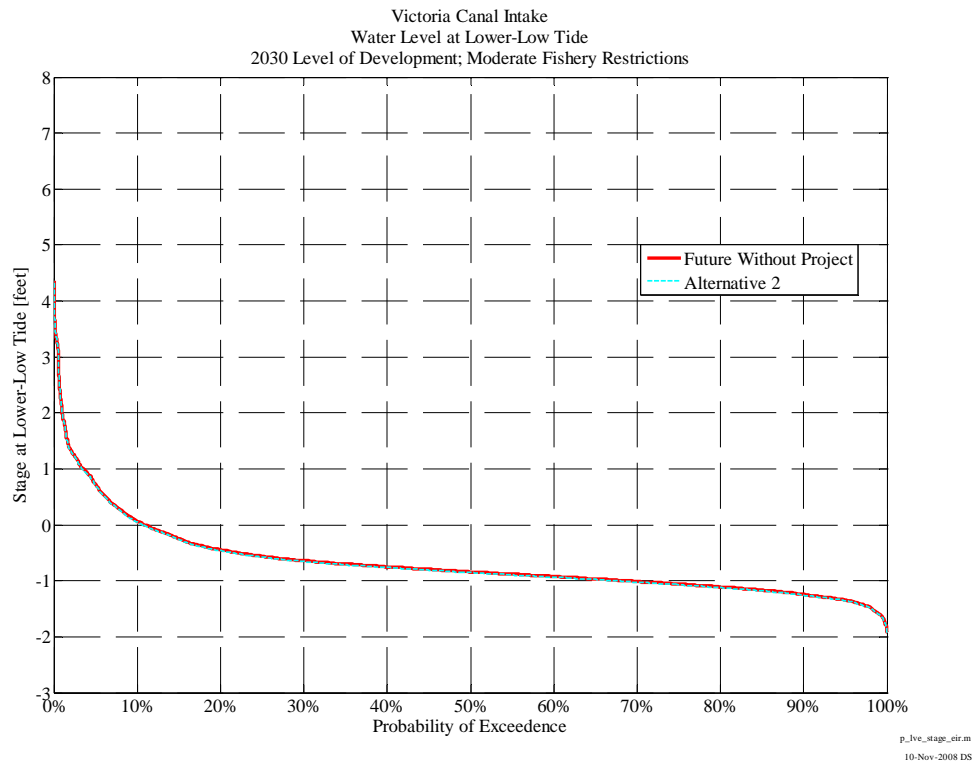
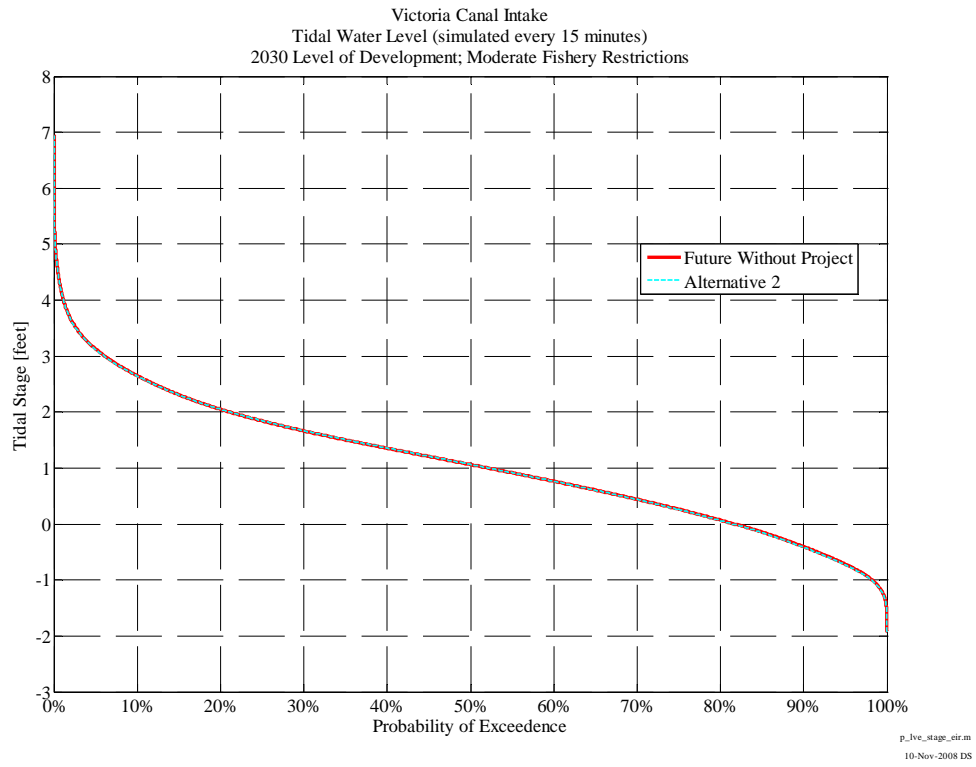


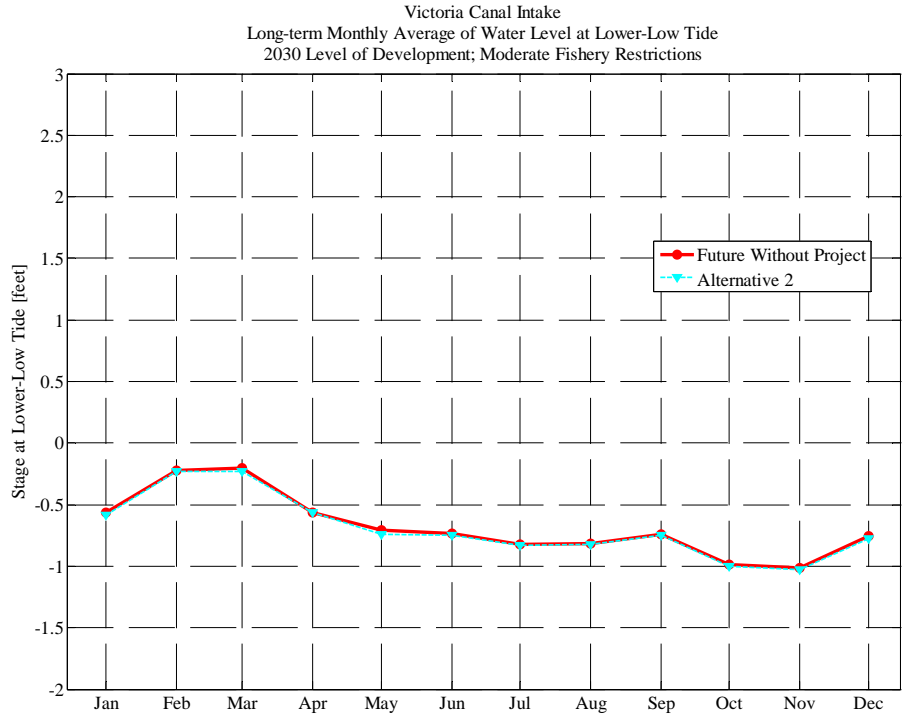
p\_lvc\_stage\_eir.m  
10-Nov-2008 DS



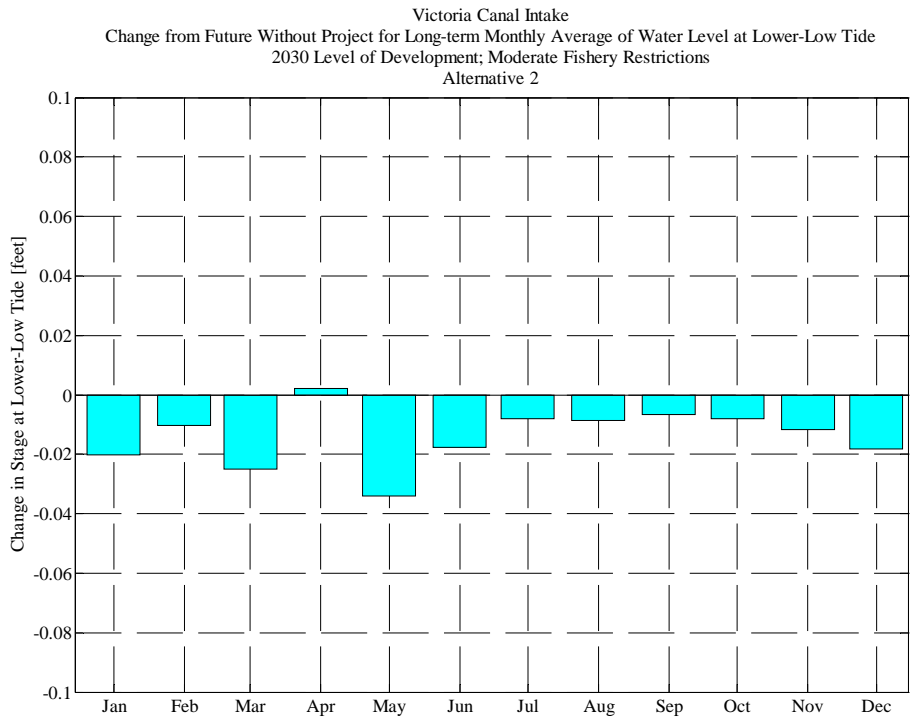
p\_lvc\_stage\_eir.m  
10-Nov-2008 DS

## Alternative 2



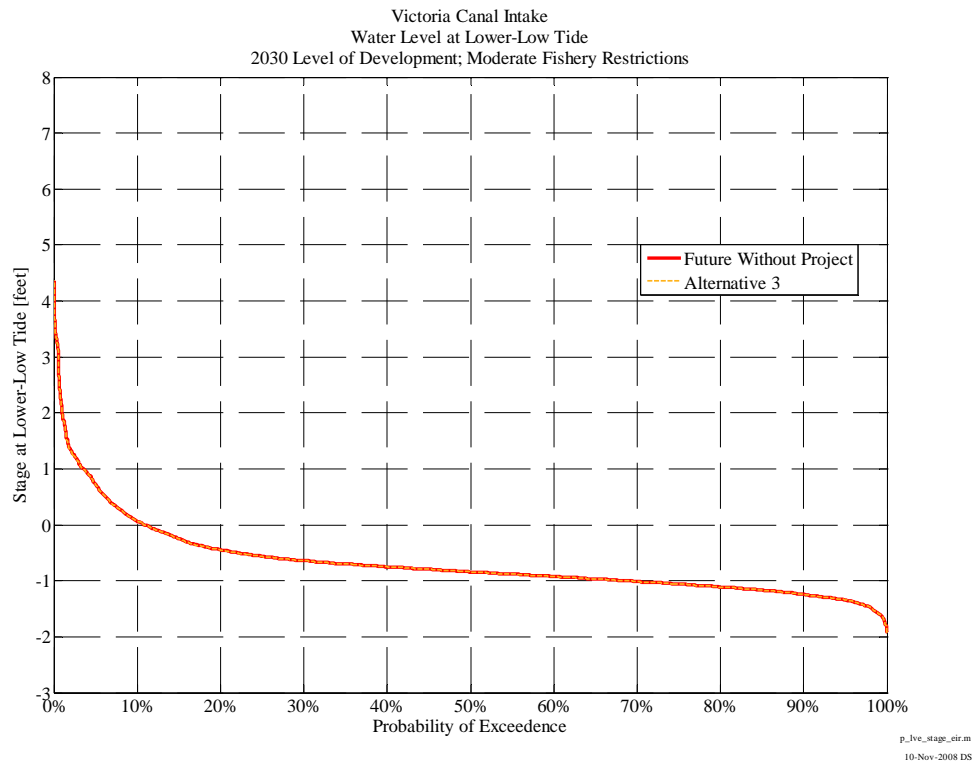
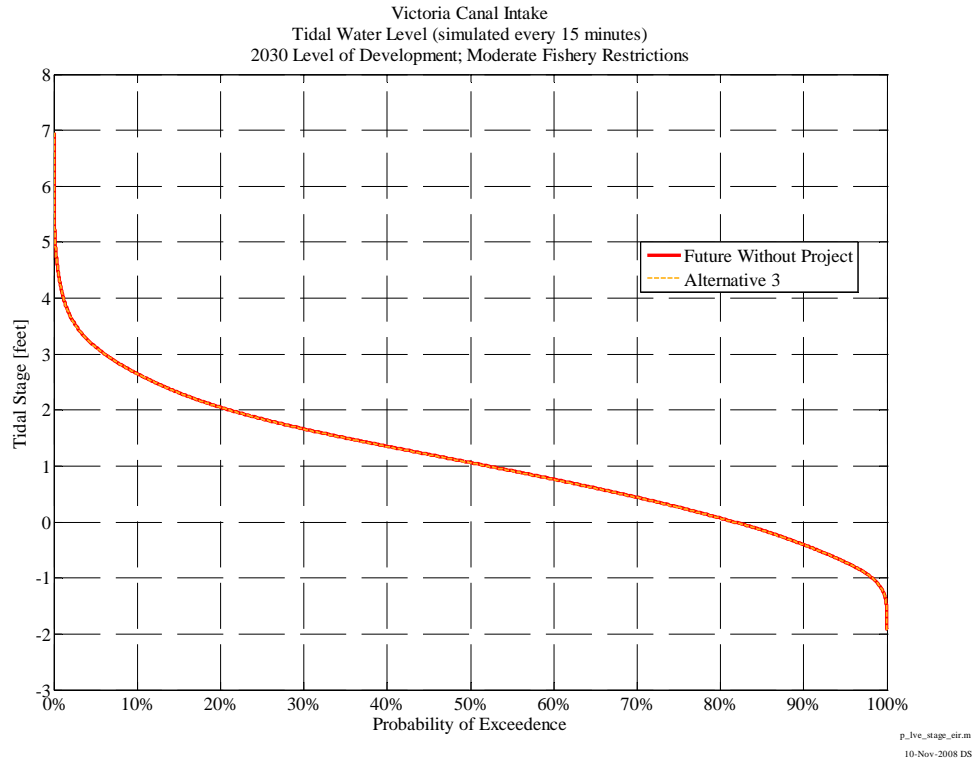


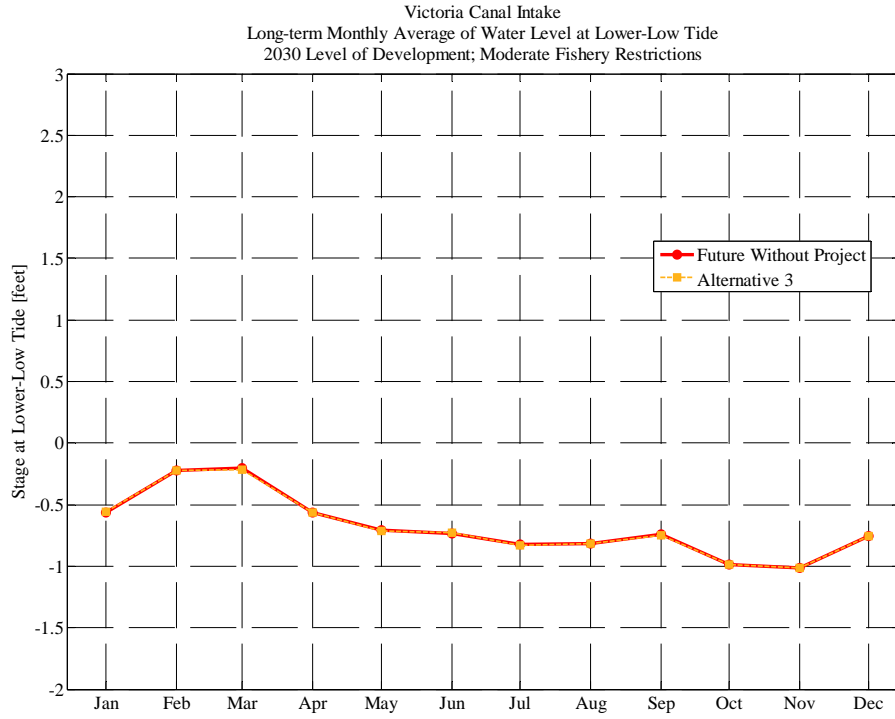
p\_lvc\_stage\_eir.m  
10-Nov-2008 DS



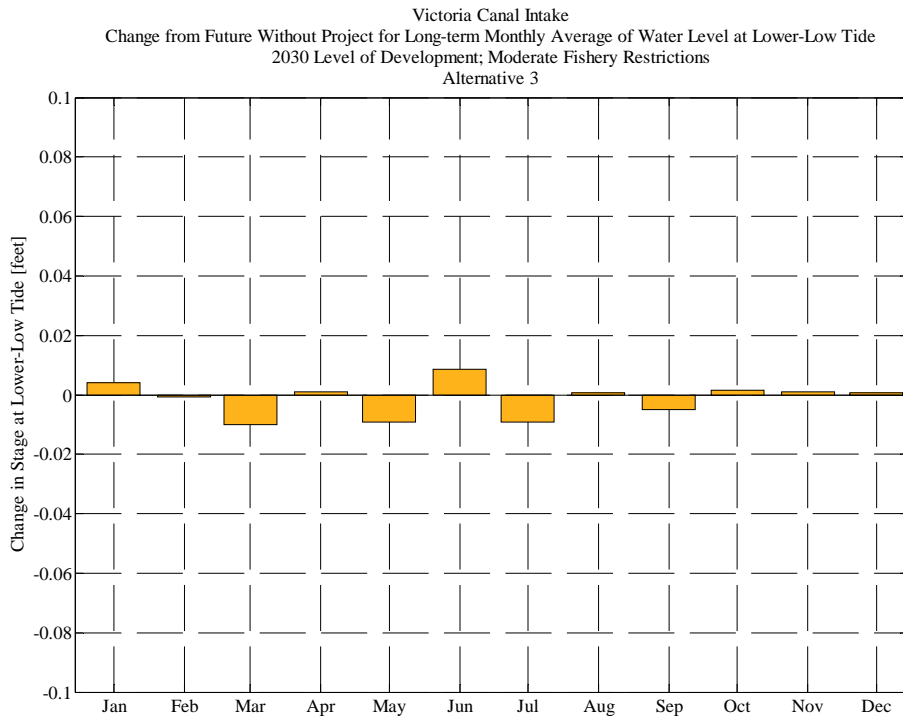
p\_lvc\_stage\_eir.m  
10-Nov-2008 DS

### Alternative 3



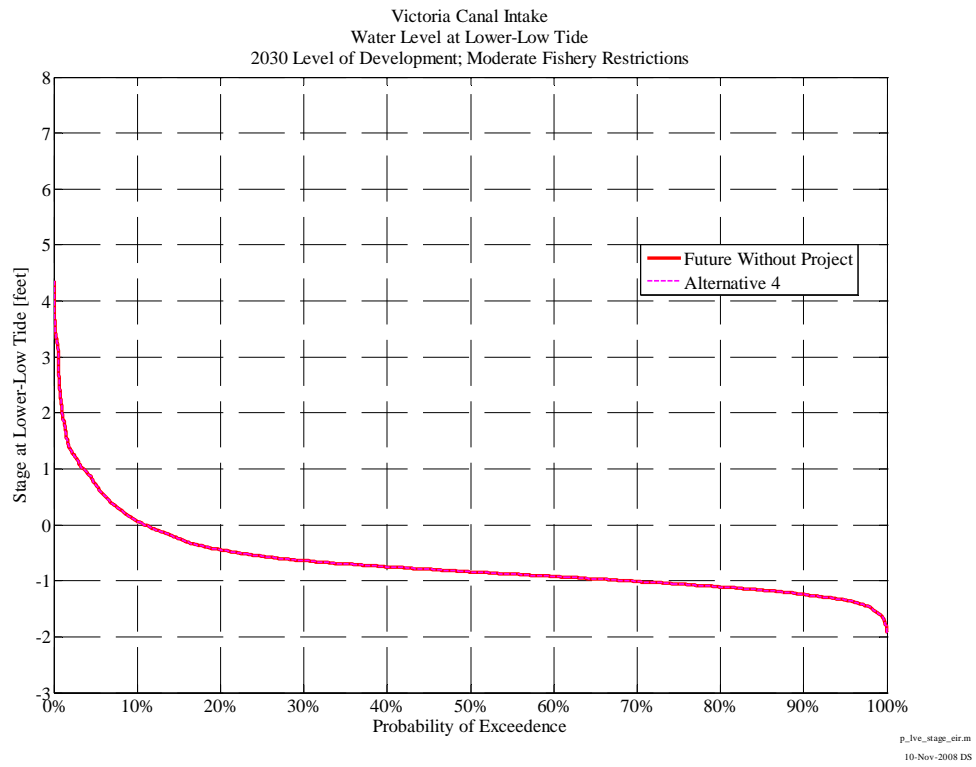
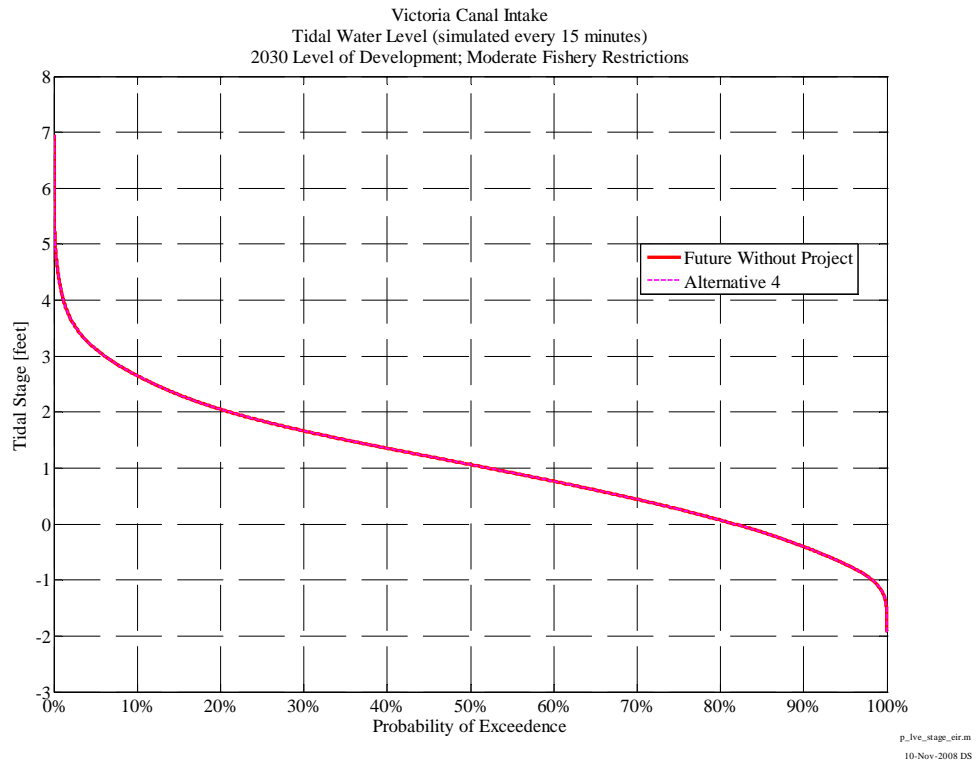


p\_lvc\_stage\_eir.m  
10-Nov-2008 DS

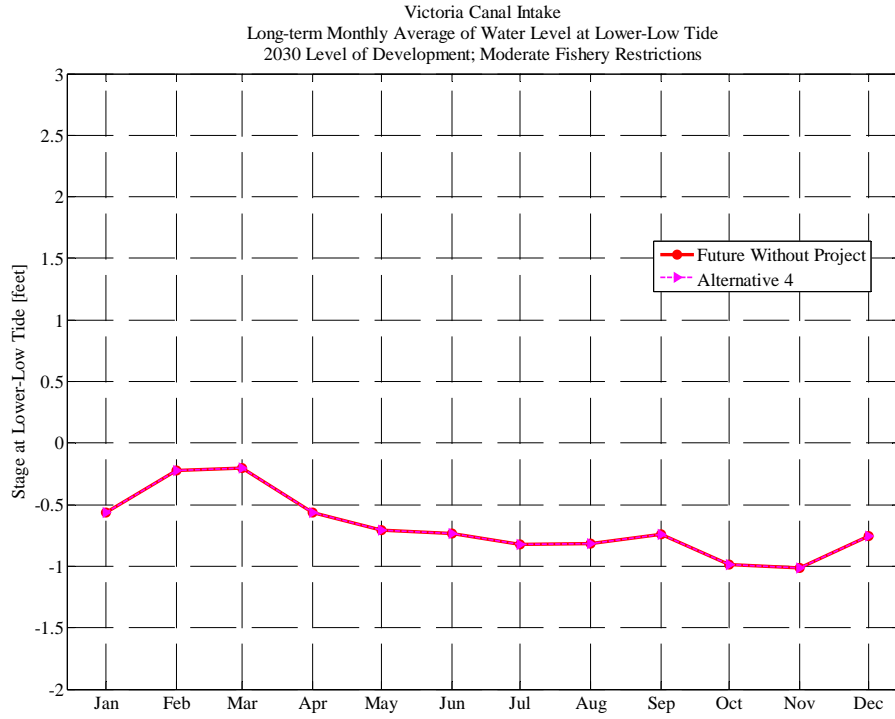


p\_lvc\_stage\_eir.m  
10-Nov-2008 DS

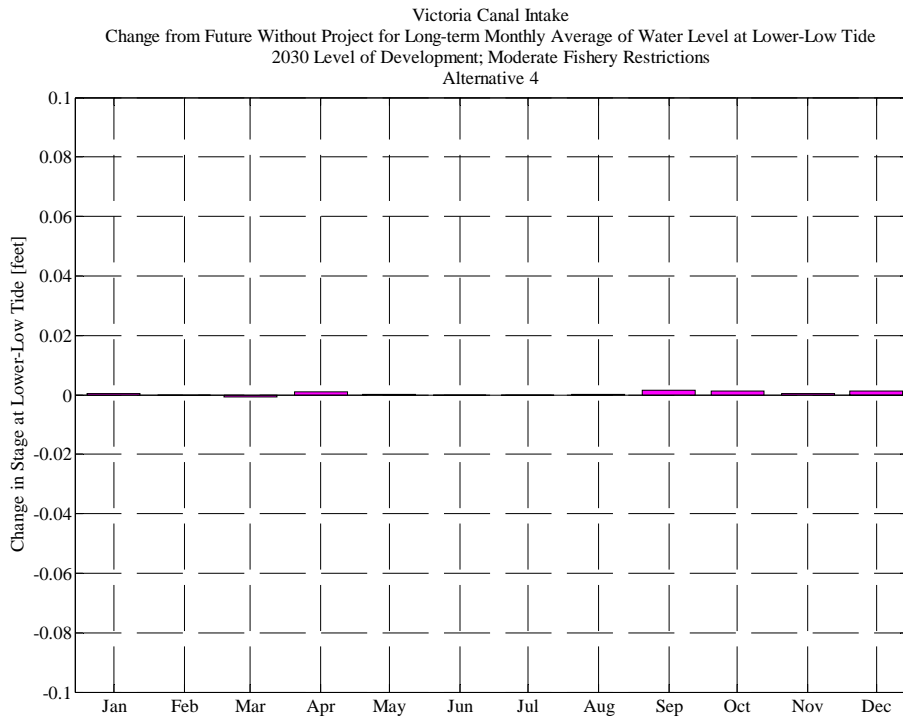
### Alternative 4







p\_lvc\_stage\_eir.m  
10-Nov-2008 DS



p\_lvc\_stage\_eir.m  
10-Nov-2008 DS