

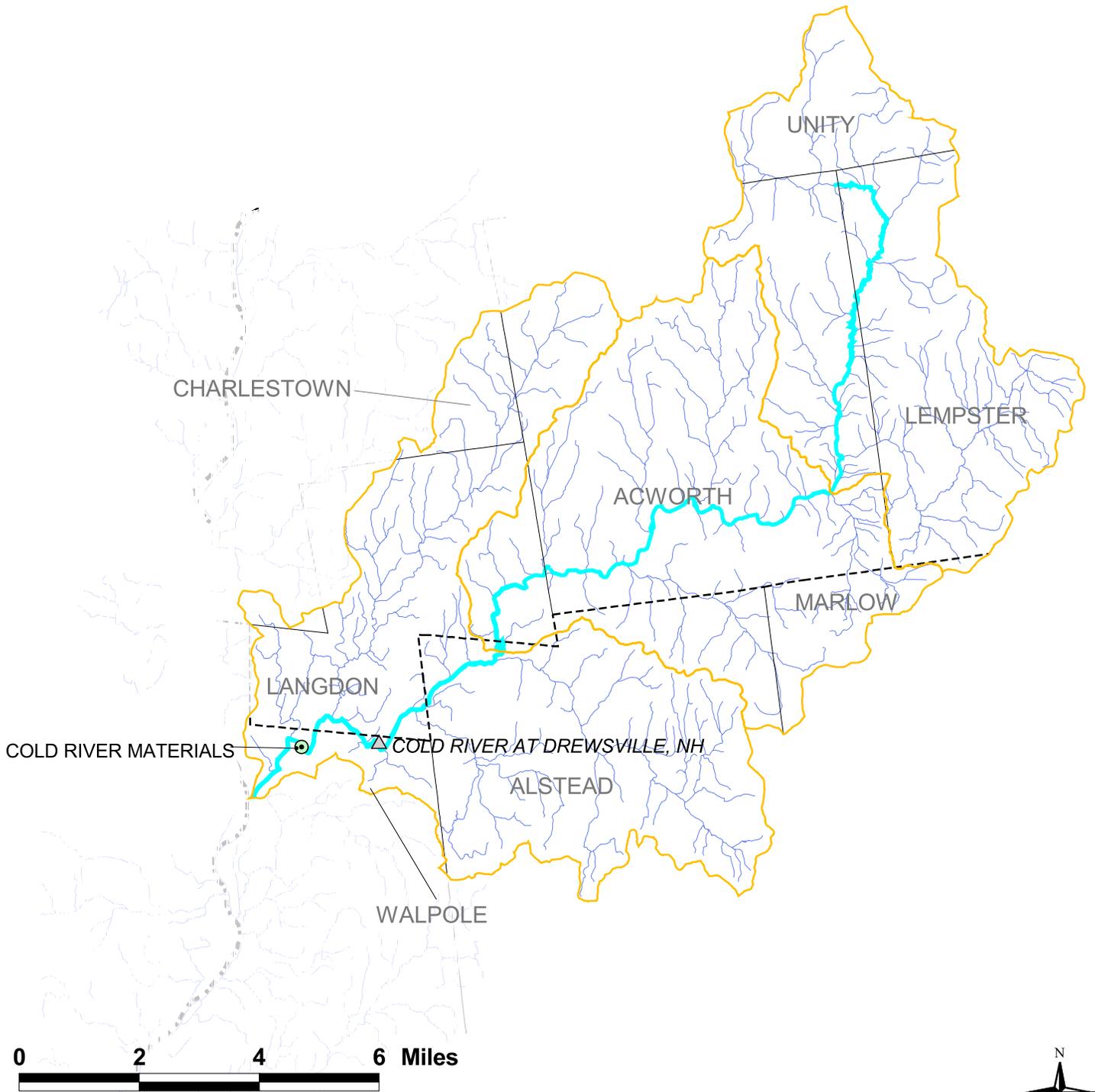
## Cold River Annual Water Use versus Stream Flow – Calendar Year 2005

Water use was reported by one source and no returns in the Cold Water Management Planning Area. Water use by Lane Construction Corp. is for dust suppression on roads. The source within the Water Management Planning Area is a cistern at the edge of the Cold River. Reported water use in 2005 occurred from July through October. Lane Construction Corp. also has another source associated with this facility that was not included in this assessment because it is outside the Water Management Planning Area. The second source is a pond that was used April through October. Monthly use ranged from 780,000 to 3,810,000 gallons during those months and totaled 17,700,000 gallons in 2005.

The beginning of the Designated River is its headwaters at the route 102 bridge in Chester. The Cold Designated River drains directly into the Connecticut Designated River after traversing 22.7 miles. The results of this assessment are a component of that river's assessment. The Cold River Water Management Planning Area covers 102 square miles. The Cold River gage (USGS 01155000 COLD RIVER AT DREWSVILLE, NH) was shut down in 1978 after recording for over 38 years. A surrogate gage (USGS 01154000 SAXTONS RIVER AT SAXTONS RIVER, VT) was used in conjunction with the historical data from the Cold River gage to estimate stream flow on the Cold River for 2004. The Saxton River gage measures 72.2 square miles and has collected daily stream flow data since 1940. The Cold River gage at Drewsville measured 82.7 square miles of the Cold River Water Management Planning Area from 1940 to 1978 overlapping the period of the Saxton River gage. Linear regression of historical data from both gages was used to determine a relationship between the Saxton's River and the Cold River stream flows. Stream flow data from the gage at Saxton's River was adjusted using this relationship to simulate monthly data for the Cold River gage for 2004. This process is described in the main report. The 7Q10 value for the Cold River was the published USGS value from Water Resources Investigation 02-4298. For this report the stream flow was transposed areally from the gage to the impact point on the Designated River. There were no months when the General Standard was exceeded.

Cold Designated River	River Miles not in Compliance with General Standard (0 at the D/S end of the DR)	Length of River Miles not in Compliance with General Standard	Maximum value of Aggregate WU /Stream flow	Previously not in Compliance with the General Standard (2003 to present)
January	--	--	0.00%	--
February	--	--	0.00%	--
March	--	--	0.00%	--
April	--	--	0.00%	--
May	--	--	0.00%	--
June	--	--	0.00%	--
July	--	--	0.11%	--
August	--	--	0.27%	--
September	--	--	0.04%	--
October	--	--	0.02%	--
November	--	--	0.00%	--
December	--	--	0.00%	--

# Cold River Affected Water User Facilities: Source and Discharge Locations



## Legend

- |   |           |   |                  |
|---|-----------|---|------------------|
| Affected Water Users  |           |  | Designated Reach |
|  | Source    |  | Hydrology        |
|  | Discharge |  | State boundary   |
| Stream Gages  |           |  | Town boundary    |
|  | Active    |  | WMPA             |
|  | Inactive  |   |                  |

The coverages presented are under constant revision as new sites or facilities are added. They may not contain all of the potential or existing sites or facilities. NHDES is not responsible for the use or interpretation of this information. Not intended for legal purposes. Water users database last updated January 2007.

Map produced January 12, 2007

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2005 Cold Water Use in CFS															
USERNAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
End of Designated Reach			5.69												
LANE CONSTRUCTION CORP	COLD RIVER MATERIALS	20216 20216-S01	99.04	0.000	0.000	0.000	0.000	0.000	0.000	0.053	0.165	0.065	0.018	0.000	0.000
Start of Designated Reach			101.60												

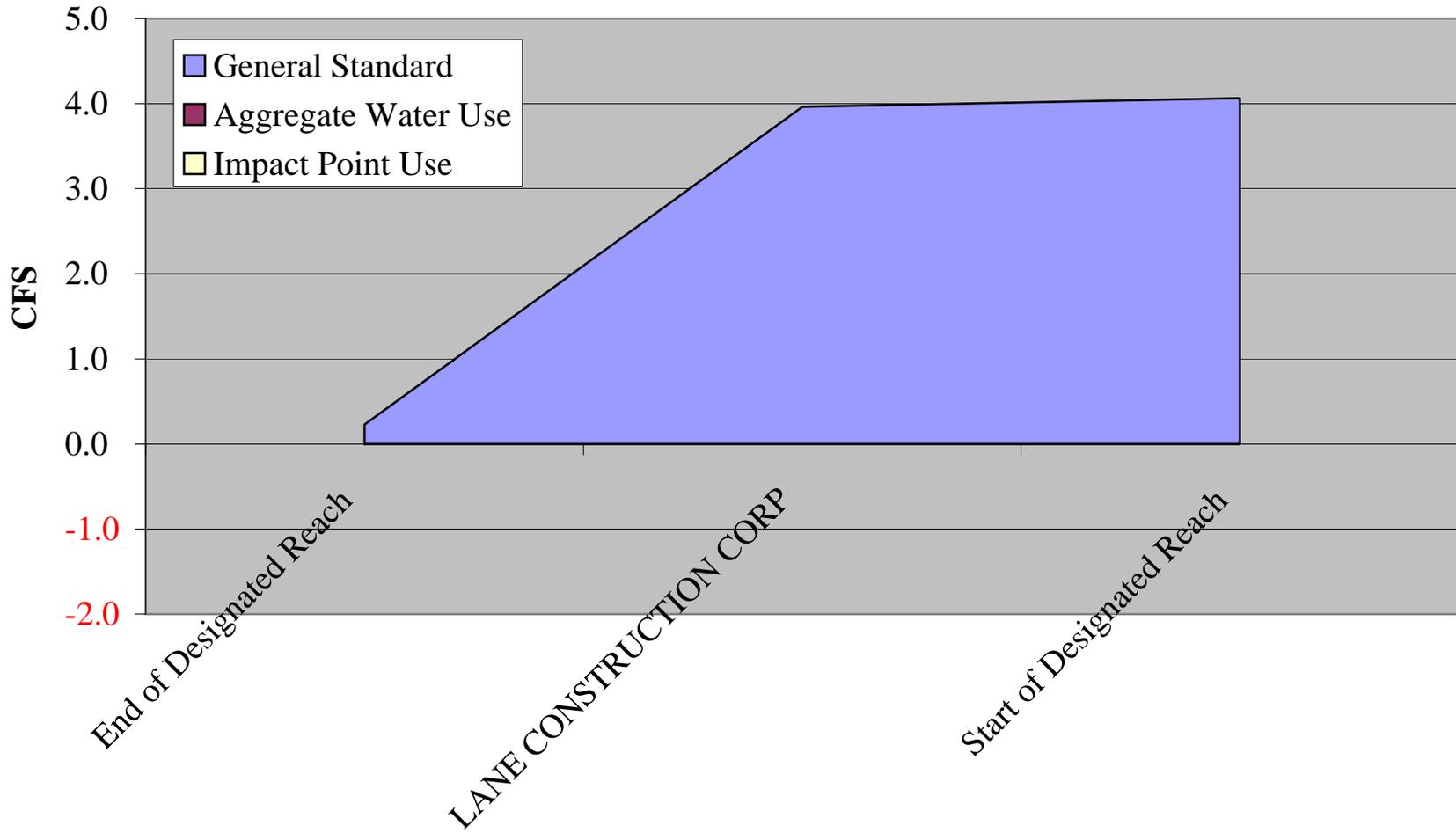
2005 Cold Aggregate Water Use in CFS															
USERNAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
End of Designated Reach			5.69	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LANE CONSTRUCTION CORP	COLD RIVER MATERIALS	20216 20216-S01	99.04	0.000	0.000	0.000	0.000	0.000	0.000	0.053	0.165	0.065	0.018	0.000	0.000
Start of Designated Reach			101.60	0.000	0.000	0.000	0.000	0.000	0.000	0.053	0.165	0.065	0.018	0.000	0.000

2005 Cold Estimated Monthly Stream Flow at Each Impact Point in CFS															
USERNAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
End of Designated Reach			5.69	10	7	11	34	10	7	3	2	1	28	21	14
LANE CONSTRUCTION CORP	COLD RIVER MATERIALS	20216 20216-S01	99.04	179	121	191	599	179	123	60	27	25	494	373	244
Start of Designated Reach			101.60	184	125	196	615	183	127	62	28	26	507	382	250

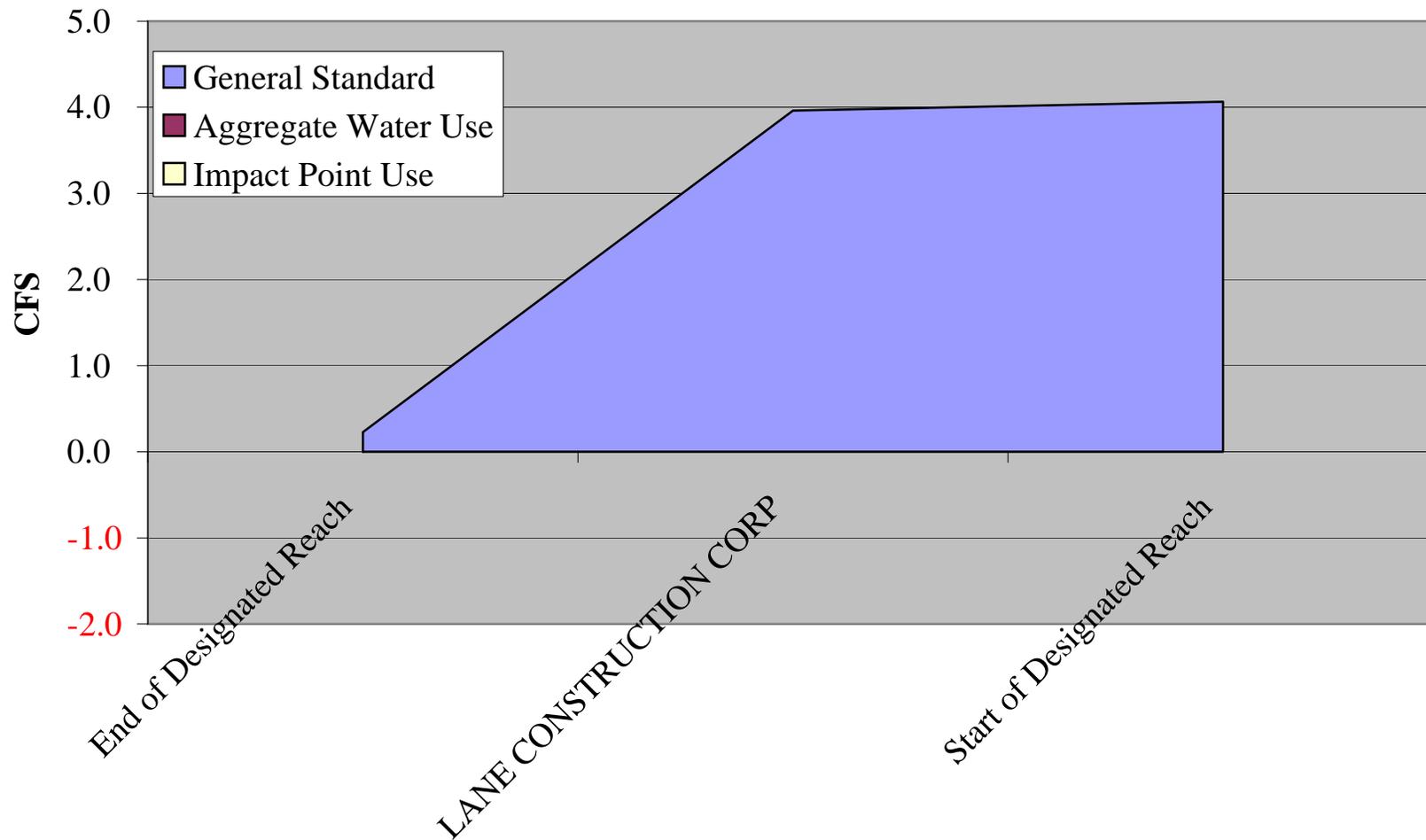
2005 Cold Estimated Monthly General Standard at Each Impact Point in CFS															
USERNAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
End of Designated Reach			5.69	0.23	0.23	0.23	0.91	0.23	0.23	0.11	0.01	0.01	0.91	0.23	0.23
LANE CONSTRUCTION CORP	COLD RIVER MATERIALS	20216 20216-S01	99.04	3.96	3.96	3.96	15.85	3.96	3.96	1.98	0.25	0.25	15.85	3.96	3.96
Start of Designated Reach			101.60	4.06	4.06	4.06	16.26	4.06	4.06	2.03	0.26	0.26	16.26	4.06	4.06

2005 Cold Estimated Monthly Margin of the Aggregate Water Use Below the General Standard in CFS															
USERNAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
End of Designated Reach			5.69	0.23	0.23	0.23	0.91	0.23	0.23	0.11	0.01	0.01	0.91	0.23	0.23
LANE CONSTRUCTION CORP	COLD RIVER MATERIALS	20216 20216-S01	99.04	3.96	3.96	3.96	15.85	3.96	3.96	1.93	0.08	0.19	15.83	3.96	3.96
Start of Designated Reach			101.60	4.06	4.06	4.06	16.26	4.06	4.06	1.98	0.09	0.19	16.24	4.06	4.06

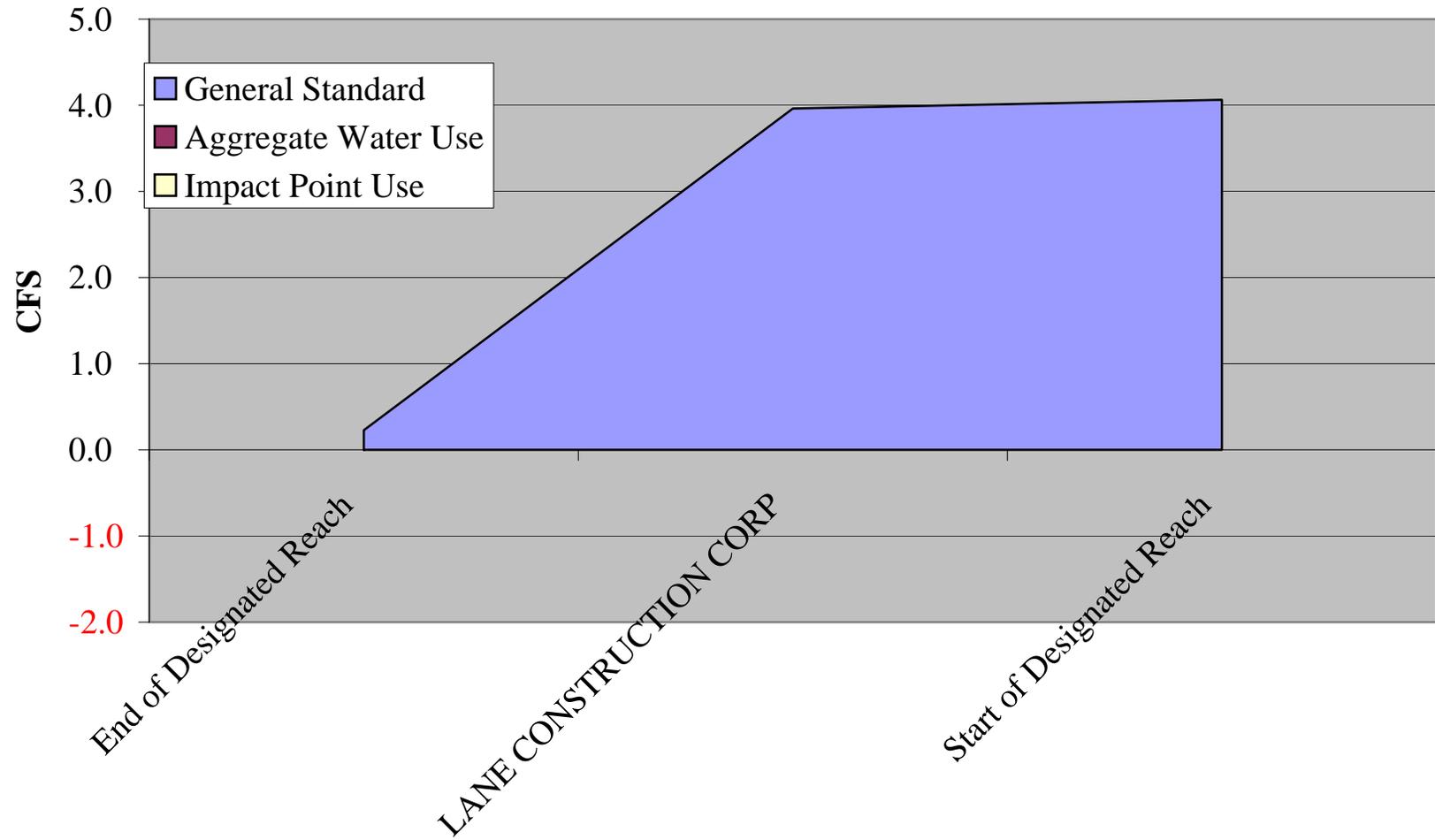
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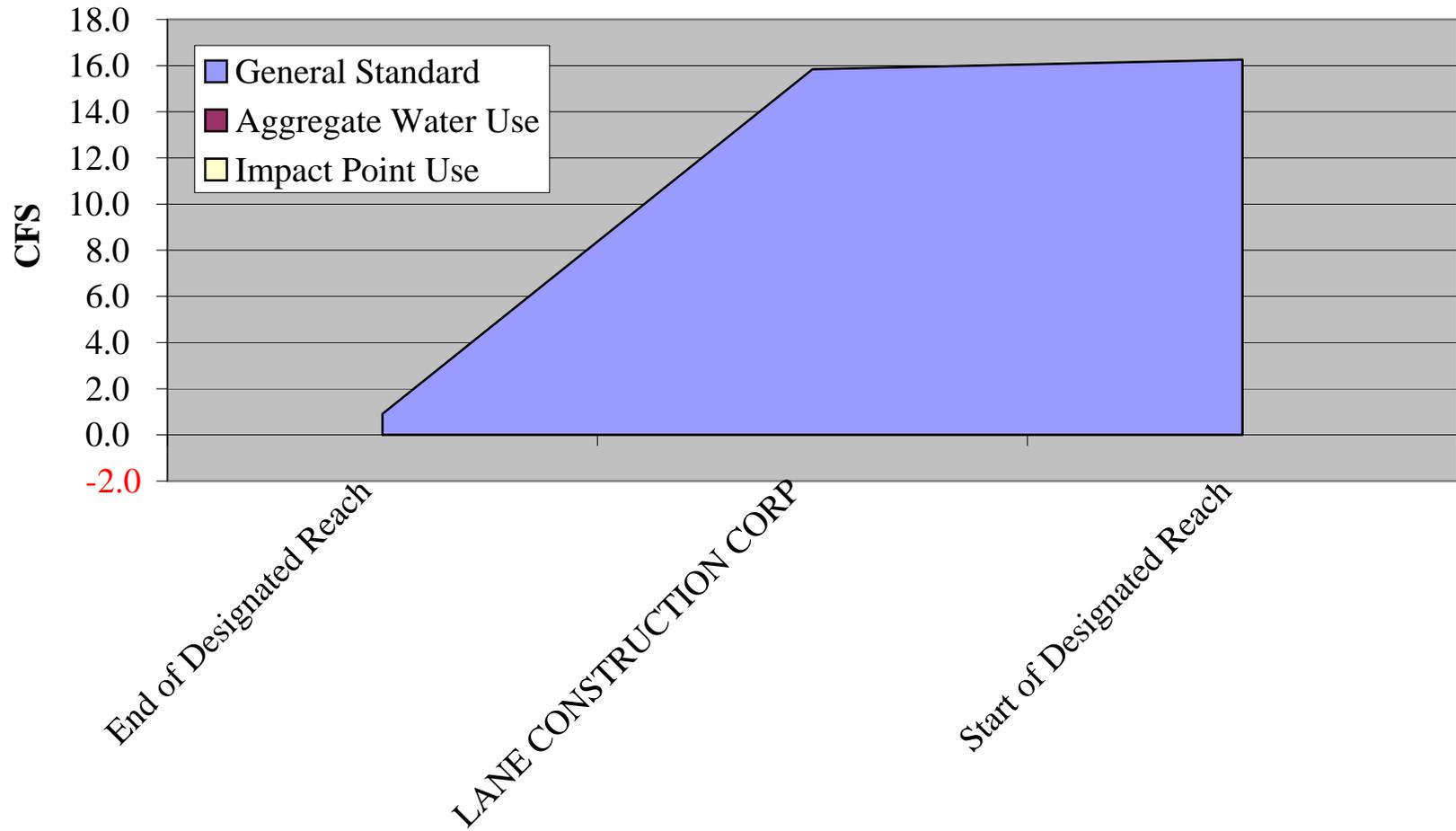
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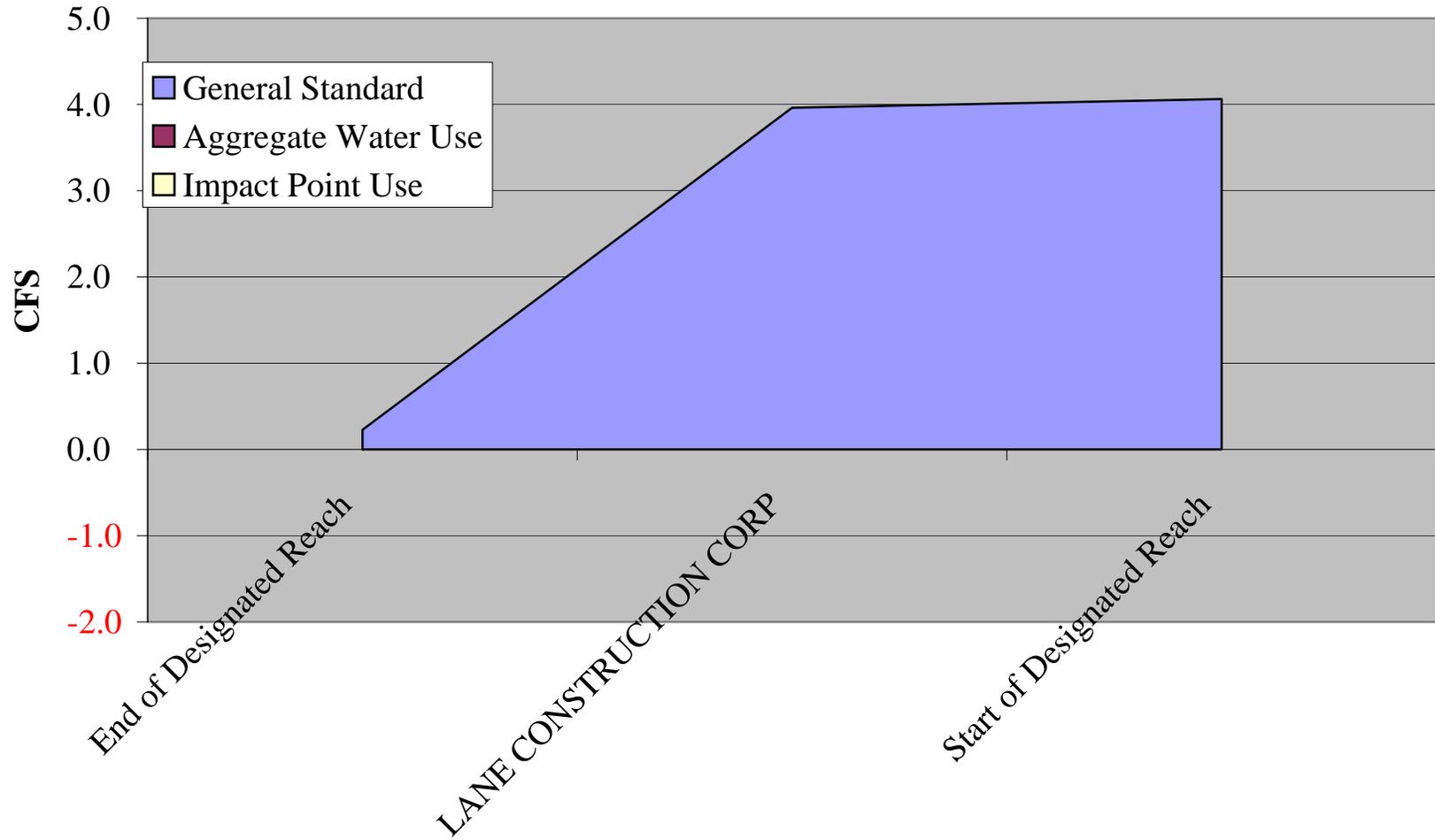
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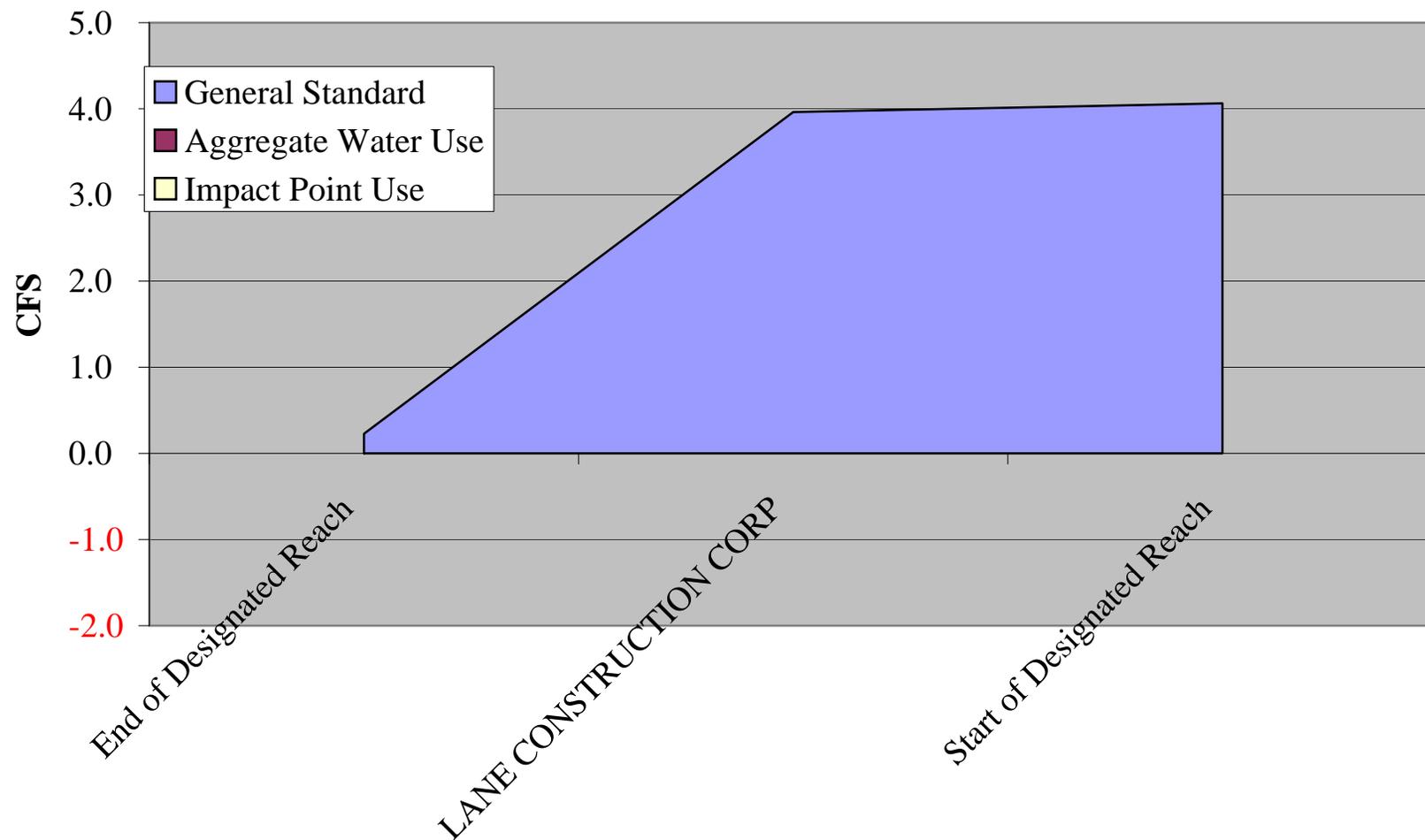
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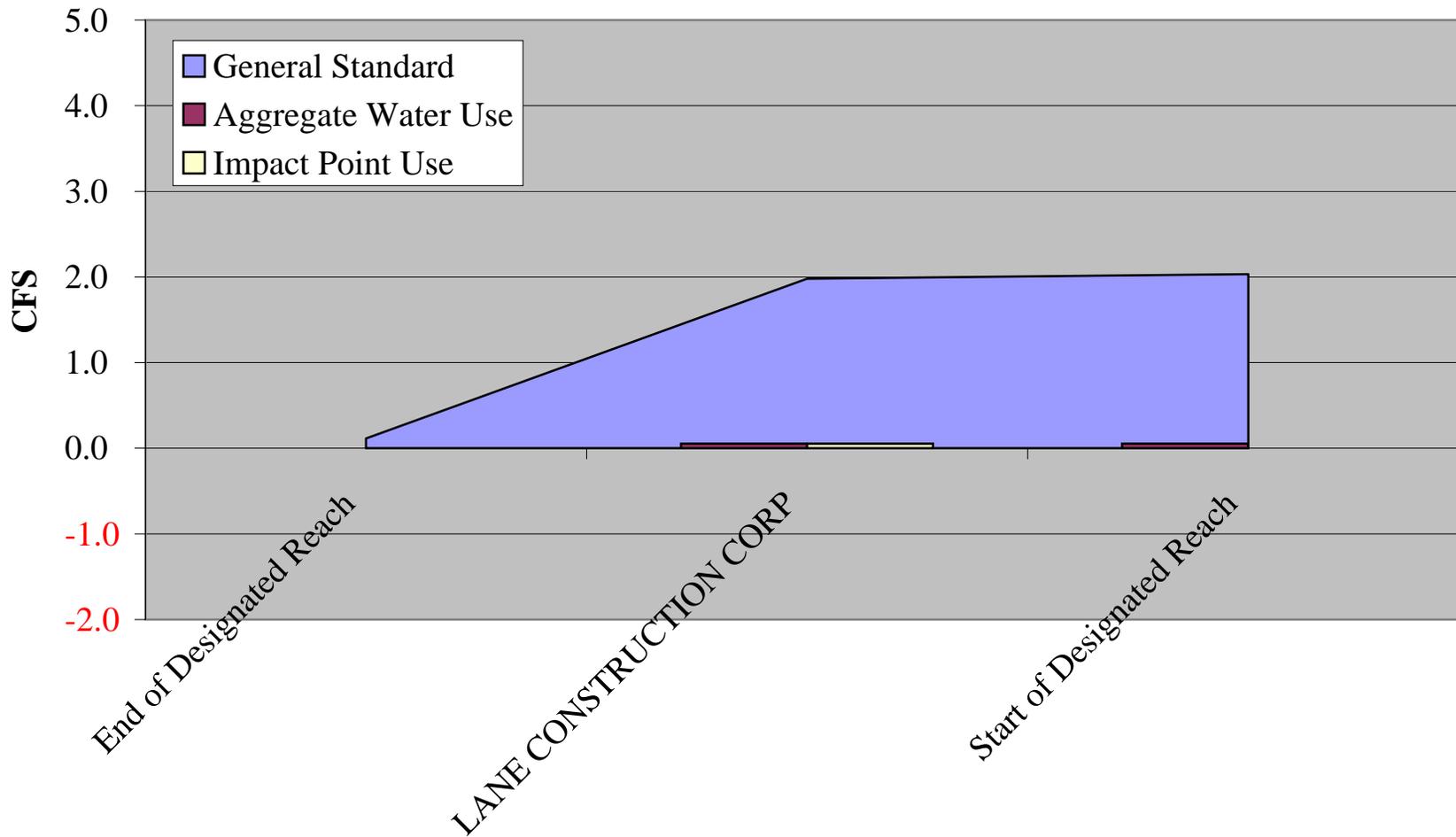
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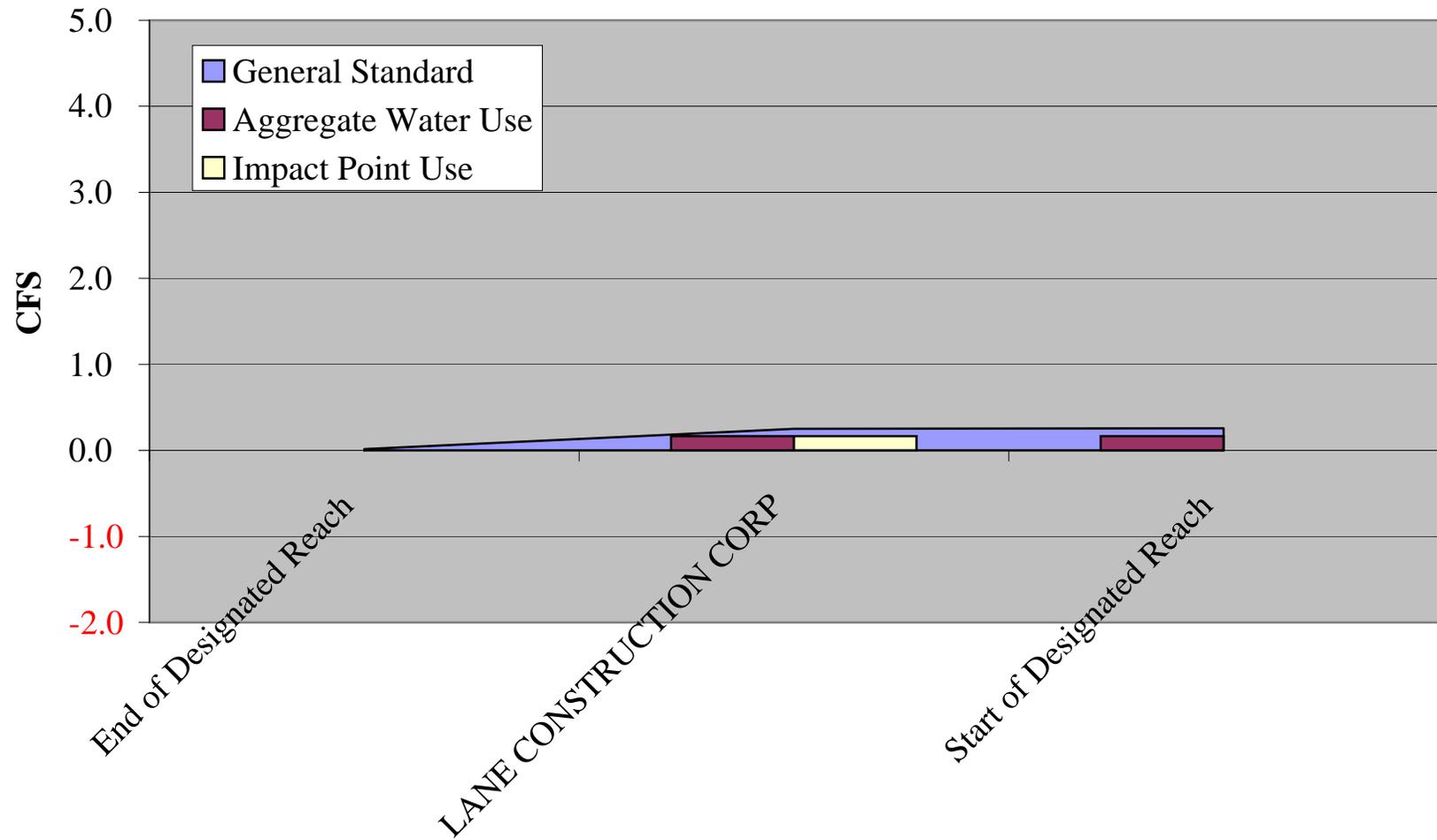
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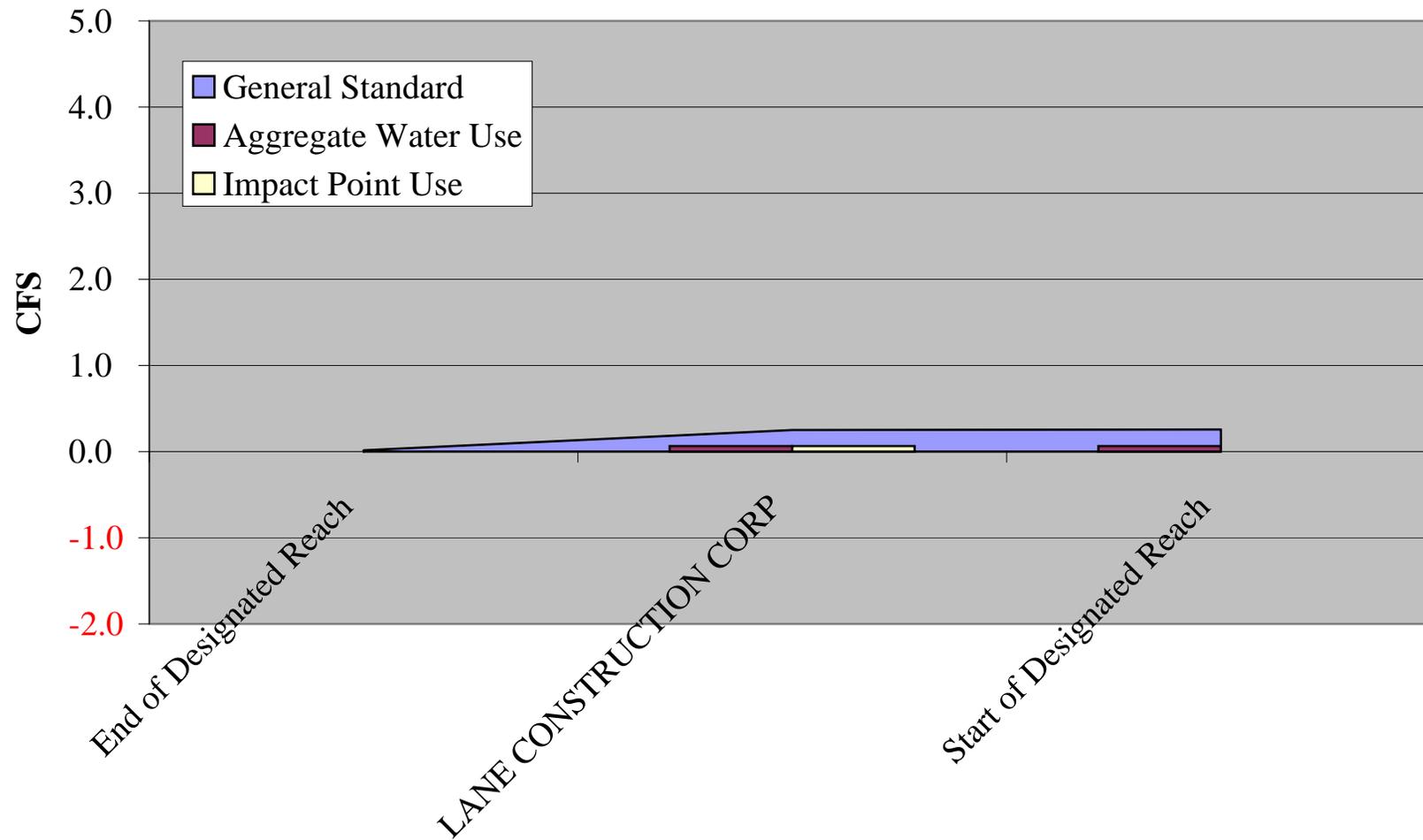
# Cold July 2005



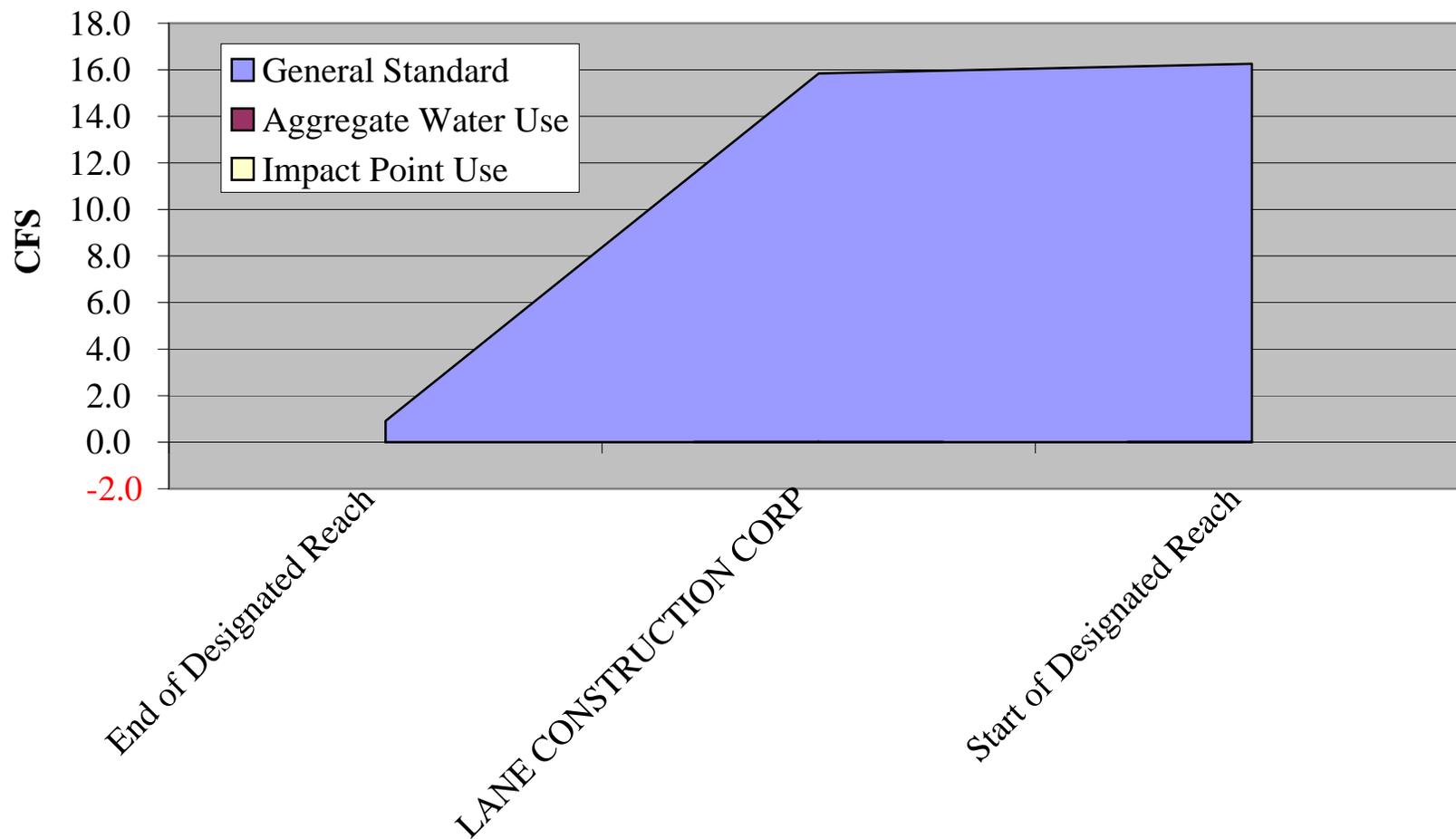
# Cold August 2005



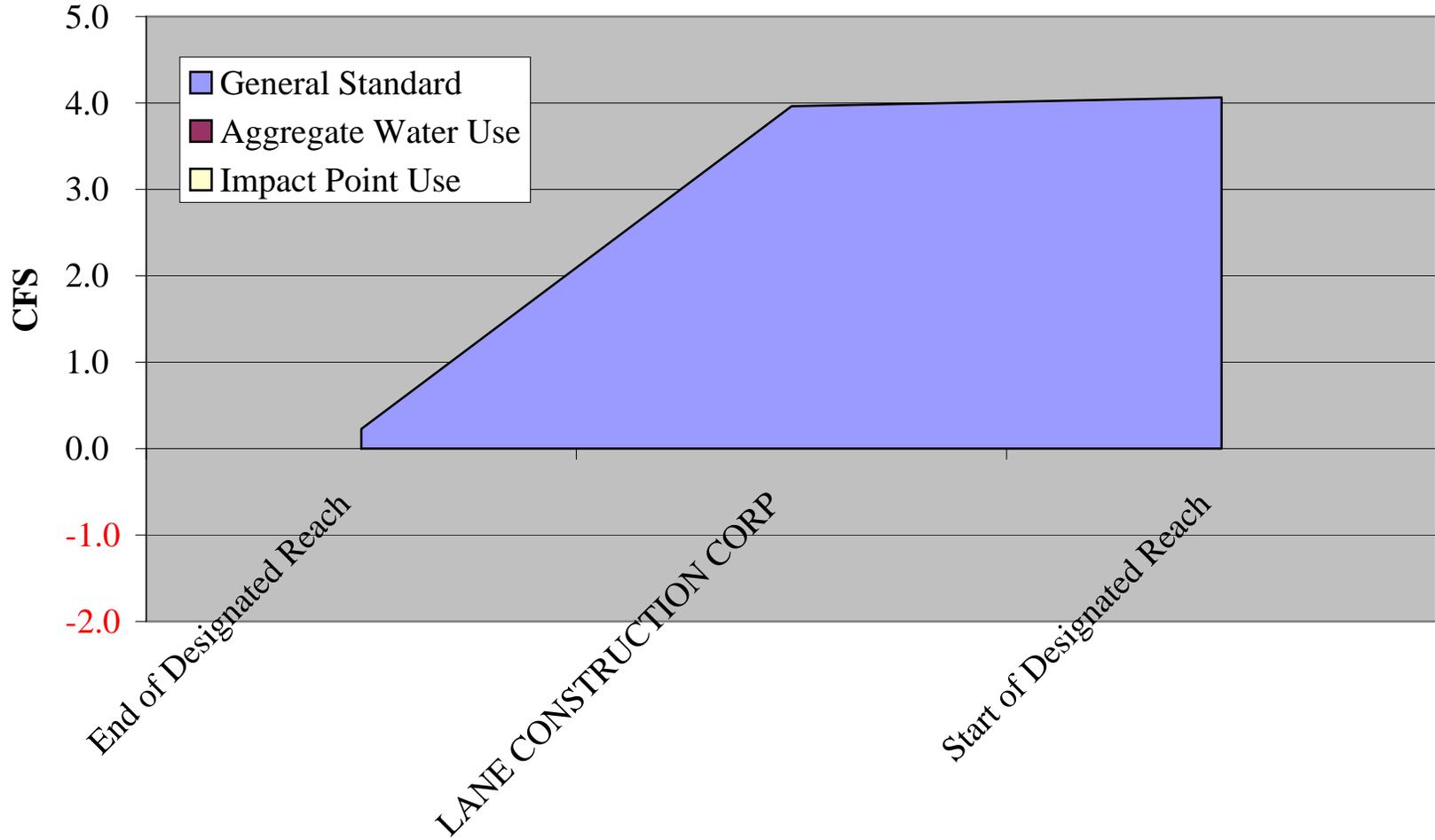
# Cold September 2005



# Cold October 2005



# Cold November 2005



# Cold December 2005

