



United States Environmental Protection Agency
Region 10, OWW-130
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

**Authorization to Discharge Under the
National Pollutant Discharge Elimination System**

In compliance with the provisions of the Clean Water Act, 33 U.S.C. §1251 *et seq.*, as amended by the Water Quality Act of 1987, P.L. 100-4, the "Act",

U.S. Department of Defense
Department of the Army
Joint Base Lewis McChord, WA 98433-5000

is authorized to discharge from the **Solo Point Wastewater Treatment Plant** located at **Fort Lewis, WA** at the following location(s):

Outfall	Receiving Water	Latitude	Longitude
001	Puget Sound (Solo Point)	47° 8' 10"	122° 38' 17"

in accordance with discharge point(s), effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective **April 1, 2012**.

This permit and the authorization to discharge shall expire at midnight, **April 1, 2017**.

The permittee shall reapply for a permit reissuance on or before **October 3, 2016** - 180 days before the expiration of this permit if the permittee intends to continue operations and discharges at the facility beyond the term of this permit.

Signed this 15th, February, 2012

Michael A. Bussell, Director
Office of Water and Watersheds
U.S. Environmental Protection Agency

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D. Whole Effluent Toxicity Testing Requirements

ACUTE TOXICITY			CHRONIC TOXICITY		
<p>The permittee must conduct acute toxicity testing on final effluent during January 2013 and July 2013.</p> <p>Conduct acute toxicity tests on a series of at least five concentrations of effluent, including 100% effluent, and a control. Use each of the following species and protocols for each acute toxicity test:</p>			<p>The permittee must conduct chronic toxicity testing on final effluent during April 2013 and October 2013.</p> <p>Perform chronic toxicity tests on a series of at least five concentrations of effluent and a control. This series of dilutions must include the acute critical effluent concentration (ACEC), the maximum concentration of effluent during critical conditions at the boundary of the acute mixing zone. The ACEC equals 1.89% effluent. Use each of the following species and the most recent version of the following protocols for each chronic toxicity test:</p>		
Acute Toxicity Tests	Species	Method			
Fathead minnow 96-hour static-renewal test	<i>Pimephales promelas</i>	EPA-821-R-02-012			
Daphnid 48-hour static test	<i>Ceriodaphnia dubia</i> , <i>Daphnia pulex</i> , or <i>Daphnia magna</i>	EPA-821-R-02-012			
			Chronic Toxicity Test	Species	Method
			Topsmelt survival and growth	<i>Atherinops affinis</i>	EPA/600/R-95/136
			Mysid shrimp survival and growth	<i>Mysidopsis bahia</i> / <i>Americamysis bahia</i>	EPA-821-R-02-014
Toxicity Test Statistical Procedure					
<p>The test for acute toxicity is:</p> <p>Achievement of a median of at least 80% survival in 100% effluent with no single test showing less than 65% survival in 100% effluent.</p>			<p>The test for chronic toxicity is:</p> <p>No statistically significant difference in response between the control and the test concentration representing the acute critical effluent concentration (ACEC).</p> <p>The permittee must determine the statistical significance by conducting a hypothesis test at the 0.05 level of significance (EPA-821-R-02-013).</p>		