



December 17, 2014
Project No. 461M076114.01.2

Toxics Cleanup Program
Southwest Regional Office
PO Box 47775
Olympia, WA 98504-7775

Attention: Mohsen Kourehdar, P.E.

Subject: Outfall Evaluation for NPDES Permit No. WA0040967
Vancouver, Washington

Dear Mohsen:

On behalf of TOC Holdings Co., AMEC Environment & Infrastructure, Inc. (AMEC) submits this annual Outfall Evaluation in fulfillment of Section S9 of National Pollutant Discharge Elimination System (NPDES) Permit No. WA0040967. The outfall discharges water treated during remediation activities occurring at the Handy Andy #8 petroleum release site. The permitted outfall is located along Burnt Bridge Creek below a property at 2818 NE Cherry Road in Vancouver, Washington. Refer to the Operations and Maintenance Manual (AMEC 2013) for a complete description of the remediation activities covered under the above-referenced NPDES permit.

At least once per quarter, AMEC staff inspected the outfall pipe to confirm its integrity and continued function in accordance with the NPDES waste discharge permit. An inspection form and photograph from the November 5th inspection of the outfall structure are attached. The physical condition of the outfall structure components, including the P-trap (U-turn) at the top of the discharge pipe, the surrounding protective cage, concrete foundation, and diffusing rock arranged below the outfall pipe all appear to be in good condition and functioning as designed. There is no evidence of sediment accumulation inside the discharge pipe, in the P-trap and on the surrounding splash block/rock. The discharge pipe, P-trap and diffusing rock appear to be free of obstructions and are allowing uniform flow.

No recommendations or actions appear to be warranted at this time.

AMEC Environment & Infrastructure, Inc.
7376 SW Durham Road
Portland, Oregon
USA 97224
Tel+1 (503) 639-3400
Fax+1 (503) 620-7892
www.amec.com

Please contact the undersigned with any questions concerning this outfall evaluation.

Sincerely,

AMEC Environment & Infrastructure, Inc.

REVIEWED BY:



Jack Spadaro, PhD, CHMM
Project Manager



Paul Stull III, PE
Associate Engineer

Attachments: Annual Outfall Inspection Form

JS/jm

c: Mark Chandler, TOC Holdings Co.

Annual Outfall Inspection - 2014**TOC Holdings Co. - HANDY ANDY #8**HANDY ANDY #8 - TOC Holdings No. 01-115
Vancouver, Washington

Project #:	461M076114.01.1
AMEC Project Mgr:	Jack Spadaro
Date:	11/5/2014
Time:	12:00

AMEC Field Personnel: Bill McFarland

NPDES Permit No. WA0040967

Treated Water Outfall #001: Located at Burnt Bridge Creek below 2818 NE Cherry Road, Vancouver, WA

Inspection Items	Arrival Yes/No	Departure Yes/No	Actions or Recommendations
Outfall Pipe is Open	Yes	Yes	None at this time
Outfall Pipe is Clear of Heavy Iron Fouling (iron gel)	Yes	Yes	None at this time
Outfall Cage is Tight to Base	Yes	Yes	None at this time
Outfall Cage is Clear of Debris	Yes	Yes	None at this time
Outfall Cage is Clear of Plant Growth	Yes	Yes	None at this time
Outfall Base is Stable	Yes	Yes	None at this time
Outfall Diffusing Rock in Place	Yes	Yes	None at this time
Outfall Base is Clear of Heavy Iron Fouling (iron gel)	Yes	Yes	None at this time

Site Inspection Photograph

Photograph Note: Photo of the outfall during the inspection. The outfall structure is clean and draining normally (drainage is toward the left into Burnt Bridge Creek).

General Notes: None at this time
