

POSTED
DATE: 09/27/07
INITIALS: JK

SO3-000570D

INDUSTRIAL STORMWATER GENERAL PERMIT
DISCHARGE MONITORING REPORT

MONITORING PERIOD for (year/quarter): 2005 Jan/Feb/Mar Apr/May/Jun Jul/Aug/Sep Oct/Nov/Dec
year

Facility/Site Information

~~SOLVAY INTEROX~~ SOLVAY CHEMICALS, INC.
Location: 3500 INDUSTRIAL WAY
County: COWLITZ

Primary SIC Code: 2819

Mailing Information

~~SOLVAY INTEROX~~ SOLVAY CHEMICALS, INC.
3500 INDUSTRIAL WAY
LONGVIEW WA 98632-8213 9482

Department of Ecology
Water Quality Program

FEB 16 2006

You must send a Discharge Monitoring Report (DMR) to Ecology **every quarter**. If there was **no discharge** or you have **suspended sampling** because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

Discharge Point <u>4 - SOUTHEAST OUTFALL (OUTFALL-SE)*</u>						
There was no qualifying storm event this quarter so no values are entered below (see explanation)						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
pH	Consistent Attainment		7.31	Standard Units	Grab	
Zinc (total)	Consistent Attainment		345	µg/L	Grab	
Oil & Grease	Consistent Attainment		ND	mg/L	Grab	
Nitrate/Nitrite as N	Consistent Attainment		0.59	mg/L	Grab	
Phosphorus (TP)	Consistent Attainment		0.08	mg/L	Grab	
BOD5	Consistent Attainment		ND	mg/L	Grab	

Monitoring associated with impaired waterbodies:

Discharge Point <u>4 - SOUTHEAST OUTFALL (OUTFALL-SE)*</u>						
There was no qualifying storm event this quarter so no values are entered below (see explanation)						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Turbidity	Consistent Attainment		9.3	NTU	Grab	
Oxygen, Dissolved (DO)	Consistent Attainment		10.68	mg/L	Grab	

Additional Metal Sampling:

Discharge Point 4 - SOUTHEAST OUTFALL (OUTFALL-SE)*

Quarterly Monitoring	Maximum	Units	Sample Type
Copper (Total)	ND	µg/L	Grab
Lead (Total)	ND	µg/L	Grab
Hardness	50.1	mg/L	Grab

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319 (PENALTIES UNDER THESE STATUTES MAY INCLUDE FINES UP TO \$10,000.00 AND OR MAXIMUM IMPRISONMENT OF BETWEEN SIX MONTHS AND FIVE YEARS.)

ROBERT R MAY, MANUF MGR/SITE COORDINATOR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER (TYPED OR PRINTED)

Robert R May

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

Feb. 13, 2006

DATE: MO DAY YEAR

(360) 425-1114

TELEPHONE NUMBER

COMMENTS / EXPLANATIONS

*The discharge point was noted as discharge point "4" on the "Receiving Water Information and Declaration of Mixing Zone" form.



SOLVAY CHEMICALS

INTEROX, FLUORIDES & MINERALS

Joyce M. Smith
Industrial Stormwater Permit Coordinator
Washington State Department of Ecology
PO Box 47696
Olympia, WA 98504-7696

RE: Level One Source Control Report for Samples Above the Benchmark Value for Zinc
at the Solvay Chemicals, Inc. Facility in Longview, WA

Dear Ms. Smith:

Enclosed is the Level One Source Control Report for samples above the benchmark value for zinc at the Solvay Chemicals, Inc. facility in Longview, WA. The zinc value obtained during the fourth quarter of 2005 was above the benchmark value, which prompted this report.

In addition, we have enclosed analysis results for copper, lead, and hardness for the third quarter 2004 through the third quarter 2005. As described in section S4.D.3 in "The Industrial Stormwater General Permit" (effective 1/14/2005), additional metals sampling is required if the value for total zinc exceeds the benchmark value for two consecutive quarters. This analysis was completed, but the results were not reported on the original "Industrial Stormwater General Permit Discharge Monitoring Reports" filed for the quarters listed above.

If you have any questions or require additional information, please feel free to contact me at 360-577-7567.

Best regards,

Alicia B. Fuentes

Technical Services Manager

Summary of Solvay Chemicals, Inc. Facility Inspection in Response to Sample Results Above Benchmark Values for Zinc

Date Inspection Conducted: 12/21/05

Inspector: Alicia Fuentes

Summary

This inspection did not yield any new potential sources of zinc than the previous inspections conducted in 2005. Possible sources of zinc are galvanized materials that come into contact with stormwater: storm drain piping, the fence surrounding the facility, light posts, structural steel (nearly all stormwater that contacts structural steel at the facility is collected and treated as process wastewater), and barricades. Another possible source for zinc is the asphalt paved areas of the plant. However, galvanized steel or asphalt will typically not leach zinc into water unless the pH is acidic, and the pH of our stormwater samples have been between 6.8-7.7. Solvay America's Environmental Manager researched zinc levels in soil in the area, and found that the zinc concentration in soil is highly dependent on whether land has been previously cultivated. If the land has been cultivated, zinc levels can typically be several orders of magnitude higher than if the land has not been cultivated. Zinc is a common component of fertilizer, and since our site was once part of the Mint Farm in Longview, this may be contributing to the zinc in stormwater that runs off of our site.

No remedial actions were taken to control these potential sources of zinc.

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319 (PENALTIES UNDER THESE STATUTES MAY INCLUDE FINES UP TO \$10,000.00 AND OR MAXIMUM IMPRISONMENT OF BETWEEN SIX MONTHS AND FIVE YEARS.)

ROBERT R. MAY, MANUF. MGR / SITE

Name/Title Principle Executive Officer

COORDINATOR

Date: Mo

Day

Year

Feb. 13 2006

Signature of Principal Executive Officer or Authorized Agent



(360) 425-1114

Telephone Number

Facility/Site Information
 SOLVAY CHEMICALS, INC.
 Location: 3500 INDUSTRIAL WAY
 County: COWLITZ
 Primary SIC Code: 2819

Mailing Information
 SOLVAY CHEMICALS, INC.
 3500 INDUSTRIAL WAY
 LONGVIEW WA 98632-9482

Third Quarter 2005

Additional Metal Sampling:

Discharge Point: 4 - SOUTHEAST OUTFALL (OUTFALL - SE)*						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Copper (Total)	Consistent Attainment		10.4		Grab	
Lead (Total)	Consistent Attainment		ND		Grab	
Hardness	Consistent Attainment		45.8		Grab	

Second Quarter 2005

Additional Metal Sampling:

Discharge Point: 4 - SOUTHEAST OUTFALL (OUTFALL - SE)*						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Copper (Total)	Consistent Attainment		ND		Grab	
Lead (Total)	Consistent Attainment		ND		Grab	
Hardness	Consistent Attainment		49.6		Grab	

First Quarter 2005

Additional Metal Sampling:

Discharge Point: 4 - SOUTHEAST OUTFALL (OUTFALL - SE)*						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Copper (Total)	Consistent Attainment	ND			Grab	
Lead (Total)	Consistent Attainment	ND			Grab	
Hardness	Consistent Attainment	24.7			Grab	

Fourth Quarter 2004

Additional Metal Sampling:

Discharge Point: 4 - SOUTHEAST OUTFALL (OUTFALL - SE)*						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Copper (Total)	Consistent Attainment		ND		Grab	
Lead (Total)	Consistent Attainment		ND		Grab	
Hardness	Consistent Attainment		14.8		Grab	

Third Quarter 2004

Additional Metal Sampling:

Discharge Point: 4 - SOUTHEAST OUTFALL (OUTFALL - SE)*						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Copper (Total)	Consistent Attainment		ND		Grab	
Lead (Total)	Consistent Attainment		ND		Grab	
Hardness	Consistent Attainment		59.3		Grab	

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ROBERT R. MAY / MANUF. MGR.

Feb 13, 2006

Name/Title Principle Executive Officer SITE COORDINATOR Date: Mo Day Year

Robert R. May

(360) 425-1114

Signature of Principal Executive Officer or Authorized Agent

Telephone Number



SOLVAY CHEMICALS

INTEROX, FLUORIDES & MINERALS

570

Department of Ecology
Water Quality Program
JAN 03 2006

Joyce M. Smith
Industrial Stormwater Permit Coordinator
Washington State Department of Ecology
PO Box 47696
Olympia, WA 98504-7696

RE: Level Two Source Control Report for Samples Above the Benchmark Value for Zinc
at the Solvay Chemicals, Inc. Facility in Longview, WA

Dear Ms. Smith:

Enclosed is the Level Two Source Control Report for samples above the benchmark value for zinc at the Solvay Chemicals, Inc. facility in Longview, WA. The zinc values obtained during the first and second quarters of 2005 were above the benchmark value, which prompted this report.

If you have any questions or require additional information, please feel free to contact me at 360-577-7567.

Best regards,

Alicia B. Fuentes

Technical Services Manager


Level Two Source Control Report for Samples Above Benchmark Value for Zinc in Q1 and Q2 2005 at the Solvay Chemicals, Inc. Facility in Longview, WA

Identification of Potential Sources of Zinc in the Stormwater Discharge

A number of facility walkthroughs have been conducted over the past year, and materials of construction for specific items of question were evaluated. From these studies, it has been determined that the only credible sources of zinc are the storm drain piping, the fence surrounding the facility, light posts, structural steel, and barricades. It is also possible that the asphalt used for paving could be contributing to the zinc in the stormwater runoff. However, zinc does not typically leach off of galvanized metal or from other solids unless it is exposed to acidic conditions. So far, the pH of stormwater samples has been between 6.8 – 7.7, which is well above neutral. Therefore, galvanized materials or the asphalt contributing to zinc levels in our stormwater runoff seems unlikely.

Actions Taken and Planned to Reduce Stormwater Zinc Levels

Since it is not possible to operationally control stormwater contamination from the above listed sources and these sources cannot be easily eliminated, no source/operational control methods exist to further reduce stormwater contamination. Therefore, no additional source or operational best management practices (BMPs) have been implemented.

<u>ROBERT MAY, MANUF. MGR/SITE</u>	<u>12 / 23 / 2005</u>
Name/Title Principle Executive Officer	Date: Mo Day Year
<u>COORDINATOR</u>	
<u></u>	<u>(360) 425-1114</u>
Signature of Principal Executive Officer or Authorized Agent	Telephone Number

