bp

BP Products North America Inc.
2815 Indianapolis Blvd.
P.O. Box 710
Whiting, IN 46394-0710
USA

March 28, 2011

CERTIFIED MAIL#
RETURN RECEIPT REQUESTED

Indiana Department of Environmental Management
OWQ Data Management Section
100 North Senate Avenue
Indianapolis, IN 46206

Re: DMR Report Outfalls 002, 003, 004, & 005
NPDES Permit No. 0000108

Please find enclosed the effluent quality data and Discharge Monitoring Report forms from the BP Products North America Inc. - Whiting Business Unit for the month of February 2011.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need any additional information, please contact Valorie L. Moore at (219) 473-2095.

Sincerely,

N. D.

Nick Spencer
Business Unit Leader
Whiting Business Unit

Cc: N. Ream, Merrillville, IN

Attachments: DMR Report

bcc: R.L. Garibay, ENVIRON Arlington, VA
J.P. Morrison, Mail Code 201
D. Moye, Mail Code 220
D.J. Olen, Mail Code 220
M.F. Osadjan, Warrenville, IL

PERMITTEE NAME/ADDRES

NAME BP PRODUCTS NORTH AMERICA INC.
ADDRESS WHITING REFINERY - MAIL CODE 062
2815 INDIANAPOLIS BLVD
WHITING IN 46394

FACILITY BP PRODUCTS NORTH AMERICA INC
LOCATION WHITING IN
ATTN: DANIEL SAJKOWSKI, PLT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Revised: ☐

IN0000108	002 A
PERMIT NUMBER	PERMITTED FEATURE

MONITORING PERIOD

	MO	DAY	YEAR		MO	DAY	YEAR
FROM	02/01/11			TO	02/28/11		

Form Approved
OMB No. 2040-004
Approval Expires 05-31-98

IN0000108002A22011

For any questions call Gary Starks at 317-232-8694

*** Mark box if NO DISCHARGE ☐ ***

NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING Average	Maximum	Units	QUALITY OR CONCENTRATION Minimum	Average	Maximum	Units	NO. EX	Frequency of Analysis	Sample Type
Temperature, water deg. fahrenheit 00011 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	******	******		******	67.6	71.6	deg F		Daily	CONTIN
	PERMIT REQUIREMENT					Report MO AVG	Report DAILY MX		0	Five Per Week	CONTIN
Temperature, water deg. fahrenheit 00011 7 0 0 Intake from Stream	SAMPLE MEASUREMENT	******	******		******	35.4	41.0	deg F		Daily	CONTIN
	PERMIT REQUIREMENT					Report MO AVG	Report DAILY MX		0	Five Per Week	CONTIN
Waste heat rejection rate 00179 2 0 0 Effluent Net	SAMPLE MEASUREMENT	536	616	MBTU /hr	******	******	******			Five Per Week	CONTIN
	PERMIT REQUIREMENT	1700 MO AVG	2000 MX DA AV						0	Five Per Week	CONTIN
pH 00400 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	******	******		7.7	******	8.3	SU		Three Per Week	GRAB
	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX		0	Three Per Week	GRAB
Oil and grease, hexane extr method 00552 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	******	******		******	0.4*	0.4*	mg/L		Monthly	GRAB
	PERMIT REQUIREMENT					Report MO AVG	5 DAILY MX		0	Monthly	GRAB
Flow, in conduit or thru treatment plant 50050 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	48.1	54.0	Mgal/d	******	******	******			Daily	TOTALZ
	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX						0	Daily	TOTALZ
Chlorine, total residual 50060 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	0	0	lb/d	******	0	0	mg/L		Weekly	GRAB
	PERMIT REQUIREMENT	20 MO AVG	60 DAILY MX			.06 MO AVG	.06 DAILY MX		0	Weekly	GRAB

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NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
Nick Spencer Business Unit Leader	N. D. S	219 473-3179	3	28	11
TYPED OR PRINTED	SIGNATURE	AREA CODE AND NO.	MO	DAY	YEAR

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

* Means "Not Quantifiable".

EPA FORM 3320-1(03-99) Revised by Indiana (June 2007) (Replaces EPA FORM T-40 WHICH MAY NOT BE USED - Mail Forms To IDEM (No Photo Co

INDUSTRIAL MAJOR WHITING, LAKE COUNTY

PERMITTEE NAME/ADDRES

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2815 INDIANAPOLIS BLVD
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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Flow, total	SAMPLE MEASUREMENT	******	1345.6	Mgal/mo	******	******	******			Monthly	RCTOT
82220 1 0 0 Effluent Gross	PERMIT REQUIREMENT		Report MO TOTAL						0	Monthly	RCOTOT

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
pH	SAMPLE MEASUREMENT	******	******		7.3	******	7.5	SU		Weekly	GRAB
00400 1 0 0 Effluent Gross	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX		0	Weekly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******		******	0.6*	0.9	mg/L		Weekly	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	15 DAILY MX		0	Weekly	GRAB
Carbon, tot organic (TOC)	SAMPLE MEASUREMENT	******	******		******	12	15	mg/L		Weekly	GRAB
00680 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	110 DAILY MX		0	Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.102	0.764	Mgal/d	******	******	******			Daily	TOTALZ
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX						0	Daily	TOTALZ

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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
pH	SAMPLE MEASUREMENT	******	******		7.7	******	7.8	SU		Weekly	GRAB
00400 1 0 0 Effluent Gross	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX		0	Weekly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******		******	0.8	0.8	mg/L		Weekly	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	15 DAILY MX		0	Weekly	GRAB
Carbon, tot organic (TOC)	SAMPLE MEASUREMENT	******	******		******	13	14	mg/L		Weekly	GRAB
00680 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	110 DAILY MX		0	Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.106	1.252	Mgal/d	******	******	******			Daily	TOTALZ
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX						0	Daily	TOTALZ

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BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	474	652	lb/d	******	3.2	4.4	mg/L		Weekly	COMP 24
00310 1 0 0 Effluent Gross	PERMIT REQUIREMENT	4161 MO AVG	8164 DAILY MX			Report MO AVG	Report DAILY MX		0	Weekly	COMP24
pH	SAMPLE MEASUREMENT	******	******		6.3	******	7.4	SU		Three Per Week	GRAB
00400 1 0 0 Effluent Gross	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX		0	Three Per Week	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1696	3109	lb/d	******	11.5	21.8	mg/L		Twice Every Week	COMP 24
00530 1 0 0 Effluent Gross	PERMIT REQUIREMENT	4925 MO AVG	7723 DAILY MX			Report MO AVG	Report DAILY MX		0	Twice Every Week	COMP24
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	89	119	lb/d	******	0.6*	0.9	mg/L		Weekly	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT	1368 MO AVG	2600 DAILY MX			Report MO AVG	Report DAILY MX		0	Weekly	GRAB
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	<46	347	lb/d	******	<0.31	2.20	mg/L		Five Per Week	COMP 24
00610 1 0 0 Effluent Gross	PERMIT REQUIREMENT	1584 MO AVG	3572 DAILY MX			Report MO AVG	Report DAILY MX		0	Five Per Week	COMP24
Phosphorus, total (as P)	SAMPLE MEASUREMENT	25	32	lb/d	******	0.16	0.23	mg/L		Weekly	COMP 24
00665 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX			Report MO AVG	1 DAILY MX		0	Weekly	COMP24
Sulfide, total (as S)	SAMPLE MEASUREMENT	<1.4	1.6	lb/d	******	<0.01	0.01	mg/L		Weekly	COMP 24
00745 1 0 0 Effluent Gross	PERMIT REQUIREMENT	23.1 MO AVG	51.4 DAILY MX			Report MO AVG	Report DAILY MX		0	Weekly	COMP24

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INDUSTRIAL MAJOR LAKE COUNTY

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IN0000108005A220 11

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PARAMETER		QUANTITY OR LOADING Average	Maximum	Units	QUALITY OR CONCENTRATION Minimum	Average	Maximum	Units	NO. EX	Frequency of Analysis	Sample Type
Chromium, total (as Cr) 01034 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	∠1.5	∠1.7	lb/d	******	∠0.01	∠0.01	mg/L	0	Weekly	COMP 24
	PERMIT REQUIREMENT	23.9 MO AVG	68.53 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	COMP24
Vanadium, total recoverable 01128 1 0 1 Effluent Gross	SAMPLE MEASUREMENT	50	50	lb/d	******	0.34	0.34	mg/L	0	Monthly	COMP 24
	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX			Report MO AVG	Report DAILY MX			Monthly	COMP24
Chromium, hexavalent dissolved (as Cr) 01220 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	∠0.8	∠0.9	lb/d	******	∠0.005	∠0.005	mg/L	0	Weekly	GRAB
	PERMIT REQUIREMENT	2.01 MO AVG	4.48 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	GRAB
Phenolics, total recoverable 32730 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	∠1.46	∠1.60	lb/d	******	∠0.01	∠0.01	mg/L	0	Weekly	COMP 24
	PERMIT REQUIREMENT	20.33 MO AVG	73.01 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	COMP24
Flow, in conduit or thru treatment plant 50050 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	18.1	20.8	Mgal/d	******	******	******		0	Daily	TOTALZ
	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX							Daily	TOTALZ
Chemical Oxygen Demand (COD) 81017 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	5057	5984	lb/d	******	35	38	mg/L	0	Weekly	COMP 24
	PERMIT REQUIREMENT	30323 MO AVG	58427 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	COMP24
Flow, total 82220 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	******	507.50	Mgal/mo	******	******	******		0	Monthly	RCOTOT
	PERMIT REQUIREMENT		Report MO TOTAL							Monthly	RCOTOT

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BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO IN0000108 OUTFALL 002 Feb-11 FEB. COOLING WATER EFFLUENT

PARAMETER	FLOW	IN-TEMP	OUT-TEMP	HEAT	pH	OUT-OIL	IN-TOC	OUT-TOC	DELTA-TOC	RESID-CL		IN-TEMP	OUT-TEMP
CODE	50050	00011	00011	00179	00400	00552	00680	00680	00680	50060		00011	00011
SAMPLE TYPE													
PERMIT	CONT	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB		CONT	CONT
ACTUAL	CONT	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB		CONT	CONT
FREQUENCY													
PERMIT	CONT	5/7	5/7	5/7	3/7	1/MO	1/YR	1/YR	1/YR	1/7		5/7	5/7
ACTUAL	CONT	CONT	CONT	CONT	3/7	1/MO	1/YR	1/YR	1/YR	1/7		CONT	CONT
LIMITS: AVG.				1.70							20		
MAX.				2.00	6.0-9.0				5	.06	60		
DATE	MG/D	DEG C	DEG C	GBTU/HR	SU	mg/l	mg/l	mg/l	mg/l	mg/l	LB/D	DEG F	DEG F
1	52.8	1	16	0.495	--------	--------	--------	--------	--------	--------	--------	33.8	60.8
2	53.5	1	17	0.535	8.3	--------	--------	--------	--------	--------	--------	33.8	62.6
3	51.9	1	18	0.551	--------	--------	--------	--------	--------	0	0	33.8	64.4
4	50.3	0	18	0.566	7.9	--------	--------	--------	--------	--------	--------	32.0	64.4
5	49.9	0	19	0.592	--------	--------	--------	--------	--------	--------	--------	32.0	66.2
6	48.7	0	18	0.548	--------	--------	--------	--------	--------	--------	--------	32.0	64.4
7	48.7	1	18	0.517	8.0	--------	--------	--------	--------	--------	--------	33.8	64.4
8	49.4	1	19	0.556	--------	--------	--------	--------	--------	--------	--------	33.8	66.2
9	49.4	1	18	0.525	7.9	0.4*	--------	--------	--------	--------	--------	33.8	64.4
10	47.6	1	19	0.535	--------	--------	--------	--------	--------	0	0	33.8	66.2
11	45.7	1	18	0.485	7.7	--------	--------	--------	--------	--------	--------	33.8	64.4
12	49.7	2	21	0.590	--------	--------	--------	--------	--------	--------	--------	35.6	69.8
13	49.0	2	21	0.582	--------	--------	--------	--------	--------	--------	--------	35.6	69.8
14	43.0	2	21	0.510	7.9	--------	--------	--------	--------	--------	--------	35.6	69.8
15	54.0	2	19	0.574	--------	--------	--------	--------	--------	--------	--------	35.6	66.2
16	46.4	2	21	0.551	7.9	--------	--------	--------	--------	--------	--------	35.6	69.8
17	47.1	4	21	0.500	--------	--------	--------	--------	--------	0	0	39.2	69.8
18	45.3	2	21	0.538	7.8	--------	--------	--------	--------	--------	--------	35.6	69.8
19	51.3	3	21	0.577	--------	--------	--------	--------	--------	--------	--------	37.4	69.8
20	44.2	3	20	0.469	--------	--------	--------	--------	--------	--------	--------	37.4	68.0
21	42.2	3	22	0.501	7.7	--------	--------	--------	--------	--------	--------	37.4	71.6
22	44.8	3	22	0.532	--------	--------	--------	--------	--------	--------	--------	37.4	71.6
23	47.1	3	21	0.530	7.8	--------	--------	--------	--------	--------	--------	37.4	69.8
24	48.2	5	21	0.482	--------	--------	--------	--------	--------	0	0	41.0	69.8
25	45.9	3	21	0.516	7.9	--------	--------	--------	--------	--------	--------	37.4	69.8
26	47.6	2	21	0.565	--------	--------	--------	--------	--------	--------	--------	35.6	69.8
27	51.9	2	21	0.616	--------	--------	--------	--------	--------	--------	--------	35.6	69.8
28	40.0	2	21	0.475	7.9	--------	--------	--------	--------	--------	--------	35.6	69.8
29	--------	--------	--------		--------	--------	--------	--------	--------	--------	--------	--------	--------
30	--------	--------	--------		--------	--------	--------	--------	--------	--------	--------	--------	--------
31	--------	--------	--------		--------	--------	--------	--------	--------	--------	--------	--------	--------
AVERAGE	48.1	2	20	0.536	7.9	0.4*	--------	--------	--------	0	0	35.4	67.6
HIGHEST VAL.	54.0	5	22	0.616	8.3	0.4*	--------	--------	--------	0	0	41.0	71.6
LOWEST VAL.	40.0	0	16	0.469	7.7	0.4*	--------	--------	--------	0	0	32.0	60.8
OVER LIMIT	0	0	0	0	0	0				0	0	0	0
TOTAL	1345.6												

CERTIFIED OPERATOR : David J. Olen 3-21-11 NO. 14118 Exp. 6/30/2012 Tel. 219-473-5298 AUTHORIZED AGENT : 3/24/11

--MEANS NOT TESTED THIS DATE

* MEANS NOT QUANTIFIABLE

BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO. IN0000108 Feb-11 FEB. STORM WATER RUNOFF

----OUTFALL 003----

*** NOTE: TO BE SAMPLED AFTER EACH RAIN EVENT IF DISCHARGE OCCURS - ONCE PER WEEK

PARAMETER		pH	OIL	TOC	FLOW
CODE:		00400	00552	00680	50050
LIMITS:	MAX.	6-9	15	110	
DATE		SU	mg/l	mg/l	MG/D
	1	—	—	—	0.000
	2	—	—	—	0.000
	3	—	—	—	0.000
	4	—	—	—	0.000
	5	—	—	—	0.000
	6	—	—	—	0.000
	7	—	—	—	0.000
	8	—	—	—	0.000
	9	—	—	—	0.000
	10	—	—	—	0.000
	11	—	—	—	0.000
	12	—	—	—	0.000
	13	—	—	—	0.000
	14	—	—	—	0.000
	15	—	—	—	0.000
	16	—	—	—	0.000
	17	—	—	—	0.239
	18	—	—	—	0.211
	19	—	—	—	0.007
	20	—	—	—	0.198
	21	7.3	0.9	9	0.764
	22	—	—	—	0.181
	23	—	—	—	0.132
	24	—	—	—	0.215
	25	—	—	—	0.225
	26	—	—	—	0.241
	27	—	—	—	0.137
	28	7.5	0.3*	15	0.315
	29	—	—	—	—
	30	—	—	—	—
	31	—	—	—	—
AVERAGE		7.4	0.6*	12	0.102
HIGHEST VAL.		7.5	0.9	15	0.764
LOWEST VAL.		7.3	0.3*	9	0.000
OVER LIMIT		0	0	0	0

CERTIFIED OPERATOR : David J. Allen NO. 14118 Exp. 6/30/2012 Tel. 219-473-5298

DATE : 3-21-11 AUTHORIZED AGENT : N. D. [illegible] 3/24/11

--MEANS NOT TESTED THIS DATE

* MEANS NOT QUANTIFIABLE

During the week of February 13th, the discharge valve was shut until February 21st. Due to thawing conditions, the water level was equal to the discharge pipe which causes issues with the flow meter.

BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO. IN0000108 Feb-11 FEB. STORM WATER RUNOFF

----OUTFALL 004----

*** NOTE: TO BE SAMPLED AFTER EACH RAIN EVENT IF DISCHARGE OCCURS - ONCE PER WEEK

PARAMETER CODE:		pH 00400	OIL 00552	TOC 00680	FLOW 50050
LIMITS:	MAX.	6-9	15	110	
DATE		SU	mg/l	mg/l	MG/D
	1	—	—	—	0.000
	2	—	—	—	0.000
	3	—	—	—	0.000
	4	—	—	—	0.000
	5	—	—	—	0.000
	6	—	—	—	0.000
	7	—	—	—	0.000
	8	—	—	—	0.000
	9	—	—	—	0.000
	10	—	—	—	0.000
	11	—	—	—	0.000
	12	—	—	—	0.000
	13	—	—	—	0.000
	14	—	—	—	0.000
	15	—	—	—	0.000
	16	—	—	—	0.000
	17	—	—	—	0.000
	18	—	—	—	0.000
	19	—	—	—	0.000
	20	—	—	—	0.000
	21	—	—	—	0.000
	22	7.8	0.8	11	0.626
	23	—	—	—	1.252
	24	—	—	—	0.596
	25	—	—	—	0.220
	26	—	—	—	0.000
	27	—	—	—	0.000
	28	7.7	0.7	14	0.277
	29	—	—	—	—
	30	—	—	—	—
	31	—	—	—	—
AVERAGE		7.8	0.8	13	0.106
HIGHEST VAL.		7.8	0.8	14	1.252
LOWEST VAL.		7.7	0.7	11	0.000
OVER LIMIT		0	0	0	0

CERTIFIED OPERATOR : David J. Olen
--MEANS NOT TESTED THIS DATE

NO. 14118
Exp. 6/30/2012
Tel. 219-473-5298

DATE : 3-21-11 AUTHORIZED AGENT : 3/24/11

BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO IN0000108 OUTFALL 005 Feb-11 FEB. PROCESS WATER EFFLUENT

PARAMETER	FLOW	BOD	COD	pH	TSS	OIL	NH3-N	SULFIDE
CODE	50050	00310	81017	00400	00530	00552	00610	00745
SAMPLE TYPE								
PERMIT	CONT	24	24	GRAB	24	GRAB	24	24
ACTUAL	CONT	24	24	GRAB	24	GRAB	24	24
FREQUENCY								
PERMIT	CONT	1/7	1/7	3/7	2/7	1/7	5/7	1/7
ACTUAL	CONT	1/7	1/7	3/7	2/7	1/7	5/7	1/7

LIMITS:															
	AVG			4161		30323			4925		1368		1584		23.1
	MAX			8164		58427	6.0-9.0		7723		2600		3572		51.4
DATE		MG/D	mg/l	LB/D	mg/l	LB/D	SU	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D
1		15.3	-------	-------	38	4849	-------	-------	-------	-------	-------	<0.10	<13	-------	-------
2		15.8	4.4	580	-------	-------	7.4	-------	-------	0.9	119	<0.10	<13	-------	-------
3		15.6	-------	-------	-------	-------	-------	9.4	1223	-------	-------	<0.10	<13	-------	-------
4		17.0	-------	-------	-------	-------	6.5	-------	-------	-------	-------	-------	-------	-------	-------
5		15.9	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
6		16.3	-------	-------	-------	-------	-------	-------	-------	-------	-------	<0.10	<14	-------	-------
7		16.9	-------	-------	-------	-------	7.2	6.2	874	-------	-------	<0.10	<14	<0.01	<1.4
8		17.0	-------	-------	29	4112	-------	-------	-------	-------	-------	<0.10	<14	-------	-------
9		17.9	1.3	194	-------	-------	7.1	-------	-------	0.5*	75	<0.10	<15	-------	-------
10		18.1	-------	-------	-------	-------	-------	6.0	906	-------	-------	<0.10	<15	-------	-------
11		18.4	-------	-------	-------	-------	7.3	-------	-------	-------	-------	-------	-------	-------	-------
12		18.8	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
13		17.8	-------	-------	-------	-------	-------	-------	-------	-------	-------	<0.10	<15	-------	-------
14		19.2	-------	-------	-------	-------	7.0	11.0	1761	-------	-------	0.15	24	0.01	1.6
15		20.5	-------	-------	35	5984	-------	-------	-------	-------	-------	<0.10	<17	-------	-------
16		20.8	2.7	468	-------	-------	7.4	-------	-------	0.3*	52	<0.10	<17	-------	-------
17		19.4	-------	-------	-------	-------	-------	10.0	1618	-------	-------	<0.10	<16	-------	-------
18		20.4	-------	-------	-------	-------	7.3	-------	-------	-------	-------	-------	-------	-------	-------
19		20.0	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
20		18.9	-------	-------	-------	-------	-------	-------	-------	-------	-------	2.20	347	-------	-------
21		16.5	-------	-------	-------	-------	7.2	11.8	1624	-------	-------	0.90	124	<0.01	<1.4
22		17.6	-------	-------	36	5284	-------	-------	-------	-------	-------	<0.10	<15	-------	-------
23		18.6	4.2	652	-------	-------	6.3	-------	-------	0.7	109	<0.10	<16	-------	-------
24		18.6	-------	-------	-------	-------	-------	15.8	2451	-------	-------	0.31	48	-------	-------
25		19.6	-------	-------	-------	-------	6.6	-------	-------	-------	-------	-------	-------	-------	-------
26		19.6	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
27		19.9	-------	-------	-------	-------	-------	-------	-------	-------	-------	0.38	63	-------	-------
28		17.1	-------	-------	-------	-------	7.0	21.8	3109	-------	-------	0.77	110	0.01	1.4
29		-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
30		-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
31		-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
AVERAGE		18.1	3.2	474	35	5057	7.0	11.5	1696	0.6*	89	<0.31	<46	<0.01	<1.4
HIGHEST VAL.		20.8	4.4	652	38	5984	7.4	21.8	3109	0.9	119	2.20	347	0.01	1.6
LOWEST VAL.		15.3	1.3	194	29	4112	6.3	6.0	874	0.3*	52	<0.10	<13	<0.01	<1.4
OVER LIMIT			0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		507.50													

CERTIFIED CERTIFIED OPERATOR : David J. Olen NO. 14118
--MEANS N --MEANS NOT TESTED THIS DATE Exp. 6/30/2012
* MEANS NOT QUANTIFIABLE Tel. 219-473-5298

DATE : 3-21-11 AUTHORIZED AGENT : 3/24/11

BP PRODUCTS NORTH AMERICA, Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO IN0000108 OUTFALL 005 Feb-11 FEB. PROCESS WATER EFFLUENT

PARAMETER	HX. CHRM	TL.CHRM	PHENOL	VANADIUM	ORTHO-P	MERCURY
CODE	01220	01034/01118	32730	01128	00665	71901
SAMPLE TYPE						
PERMIT	GRAB	24	24	24	24	GRAB
ACTUAL	GRAB	24	24	24	24	GRAB
FREQUENCY						
PERMIT	1/7	1/7	1/7	1/MO	1/7	2/YR
ACTUAL	1/7	1/7	1/7	1/MO	1/7	2/YR

LIMITS:	HX. CHRM		TL.CHRM		PHENOL		VANADIUM		ORTHO-P		MERCURY	
AVG.		2.01		23.90		20.33						
MAX.		4.48		68.53		73.01			1			
DATE	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	ng/L	LB/D
1	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
2	<0.005	<0.7	<0.01	<1.3	--------	--------	--------	--------	--------	--------	--------	--------
3	--------	--------	--------	--------	--------	--------	--------	--------	0.01	1	5.59	0.000727
4	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
5	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
6	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
7	--------	--------	--------	--------	<0.01	<1.41	--------	--------	--------	--------	--------	--------
8	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
9	<0.005	<0.7	<0.01	<1.5	--------	--------	--------	--------	--------	--------	--------	--------
10	--------	--------	--------	--------	--------	--------	--------	--------	0.21	32	2.96	0.000447
11	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
12	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
13	--------	--------	--------	--------	--------	--------	0.34	50	--------	--------	--------	--------
14	--------	--------	--------	--------	<0.01	<1.60	--------	--------	--------	--------	--------	--------
15	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
16	<0.005	<0.9	<0.01	<1.7	--------	--------	--------	--------	--------	--------	--------	--------
17	--------	--------	--------	--------	--------	--------	--------	--------	0.23	37	--------	--------
18	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
19	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
20	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
21	--------	--------	--------	--------	<0.01	<1.38	--------	--------	--------	--------	--------	--------
22	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
23	<0.005	<0.8	<0.01	<1.6	--------	--------	--------	--------	--------	--------	--------	--------
24	--------	--------	--------	--------	--------	--------	--------	--------	0.18	28	--------	--------
25	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
26	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
27	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
28	--------	--------	--------	--------	<0.01	<1.43	--------	--------	--------	--------	--------	--------
29	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
30	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
31	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
AVERAGE	<0.005	<0.8	<0.01	<1.5	<0.01	<1.46	0.34	50	0.16	25	4.28	0.000587
HIGHEST VAL.	<0.005	<0.9	<0.01	<1.7	<0.01	<1.60	0.34	50	0.23	32	5.59	0.000727
LOWEST VAL.	<0.005	<0.7	<0.01	<1.3	<0.01	<1.38	0.34	50	0.01	1	2.96	0.000447
OVER LIMIT	0	0	0	0	0	0	0	0	0	0	0	0

CERTIFIED OPERATOR : David J. Olen NO. 14118
--MEANS NOT TESTED THIS DATE
Exp. 6/30/2012
Tel. 219-473-5298

DATE : 3-21-11

AUTHORIZED AGENT :
3/24/11