

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0098647

Owner: Piramal Glass USA, Inc.
Address: 401 Route 73 North, Building #10 Suite 202, Marlton, NJ 08053

Continuing Authority: Piramal Glass USA, Inc.
Address: P.O. Box G, Park Hills, MO 63601

Facility Name: Piramal Glass USA, Inc., Flat River Glass Operations
Address: 1000 Taylor Avenue, Park Hills, MO 63601

Legal Description: See Page Two
UTM Coordinates: See Page Two

Receiving Stream: See Page Two
First Classified Stream and ID: See Page Two
USGS Basin & Sub-watershed No.: See Page Two

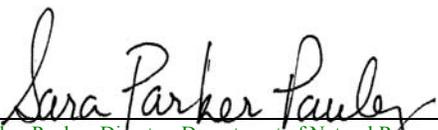
is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

See Page Two

This permit authorizes only discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Sections 640.013, 621.250, and 644.051.6 of the Law.

July 1, 2013
Effective Date


Sara Parker Pauley, Director, Department of Natural Resources

June 31, 2018
Expiration Date


John Madras, Director, Water Protection Program

FACILITY DESCRIPTION (Continued)

Outfall #001- SIC 3221/3229

This outfall discharges contact cooling water; emergency discharge only.

Design flow is 1.2 MGD.

Legal Description: NE ¼, NE ¼, Sec 6, T36N, R5E, St. Francois County

UTM Coordinates: X = 718592, Y = 4193322

Receiving Stream: Unnamed tributary to Flat River Creek (U)

First Classified Stream and ID: Flat River Creek (C) (2168) **303(d)**

USGS Basin & Sub-watershed No.: (07140104 – 0108)

Outfall #002- SIC 3221/3229

This outfall discharges contact cooling water.

Design flow is 1.2 MGD.

Legal Description: NE ¼, NE ¼, Sec 6, T36N, R5E, St. Francois County

UTM Coordinates: X = 718629, Y = 4193400

Receiving Stream: Unnamed tributary to Flat River Creek (U)

First Classified Stream and ID: Flat River Creek (C) (2168) **303(d)**

USGS Basin & Sub-watershed No.: (07140104 – 0108)

Outfall #003 – SIC 3221/3229

This outfall discharges stormwater runoff.

Actual flow is dependent upon precipitation.

Legal Description: SW ¼, NE ¼, Sec 6, T36N, R5E, St. Francois County

UTM Coordinates: X = 718415, Y = 4193181

Receiving Stream: Unnamed tributary to Flat River Creek (U)

First Classified Stream and ID: Flat River Creek (C) (2168) **303(d)**

USGS Basin & Sub-watershed No.: (07140104 – 0108)

Outfall #004 & #005 – SIC 3221/3229

These outfalls were eliminated from the permit during the 2008 permit cycle based on field observations that the drainage area to these outfalls contains no industrial contributions or materials exposed to stormwater.

Outfall #006 – SIC 3221/3229

This outfall discharges non-contact cooling water.

Design flow: 1.2 MGD

Legal Description: NE ¼, NE ¼, Sec 6, T36N, R5E, St. Francois County

UTM Coordinates: X = 718626, Y = 4193403

Receiving Stream: Unnamed tributary to Flat River Creek (U)

First Classified Stream and ID: Flat River Creek (C) (2168) **303(d)**

USGS Basin & Sub-watershed No.: (07140104 – 0108)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 7	
					PERMIT NUMBER MO-0098647	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow	MGD	*		*	once/discharge	24 hr. total
Total Suspended Solids	mg/L	45		30	once/discharge	grab
Total Suspended Solids	lbs/day	57.4		28.7	once/discharge	grab
pH	SU	**		**	once/discharge	grab
Temperature	°F	90		90	once/discharge	grab
Ammonia as N	mg/L	*		*	once/discharge	grab
Nitrate plus Nitrite as N	mg/L	*		*	once/discharge	grab
Oil & Grease	mg/L	15		10	once/discharge	grab
Oil & Grease	lbs/day	24.6		12.3	once/discharge	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>AUGUST 28, 2013</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

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		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #002</u>						
Flow	MGD	*		*	once/month	24 hr. total
Total Suspended Solids	mg/L	45		30	once/month	grab
Total Suspended Solids	lbs/day	57.4		28.7	once/month	grab
pH	SU	**		**	once/month	grab
Temperature	°F	90		90	once/month	grab
Oil & Grease	mg/L	15		10	once/month	grab
Oil & Grease	lbs/day	24.6		12.3	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>AUGUST 28, 2013</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 4 of 7	
					PERMIT NUMBER MO-0098647	
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		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #003</u>						
Flow	MGD	*		*	once/quarter***	24 hr. total
Settleable Solids	mL/L	1.5		1.0	once/quarter***	grab
pH	SU	**		**	once/quarter***	grab
Oil & Grease	mg/L	15		10	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>OCTOBER 28, 2013</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

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OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #006</u>						
Flow	MGD	*		*	once/month	24 hr. total
Temperature	°F	90		90	once/month	grab
pH	SU	**		**	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>AUGUST 28, 2013</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.5-9.0 units.
- *** See quarterly sampling below.

Sample discharge at least once for the months of:	Report is due:
January, February, March (1 st Quarter)	April 28
April, May, June (2 nd Quarter)	July 28
July, August, September (3 rd Quarter)	October 28
October, November, December (4 th Quarter)	January 28

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All outfalls must be clearly marked in the field.
3. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
4. Report as no-discharge when a discharge does not occur during the report period.
 5. Water Quality Standards

- (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

C. SPECIAL CONDITIONS cont.

6. The permittee shall develop and implement a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP must be prepared and implemented within 90 days of permit issuance. The SWPPP must be kept on-site and should not be sent to DNR unless specifically requested. The SWPPP must be reviewed and updated, if needed, every five (5) years or as site conditions change. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in the following document:

Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009.

The SWPPP must include the following:

- a. A listing of specific Best Management Practices (BMPs) and a narrative explaining how BMPs will be implemented to control and minimize the amount of potential contaminants that may enter storm water. Minimum BMPs are listed in SPECIAL CONDITION #7.
 - b. The SWPPP must include a schedule for monthly site inspections and brief written reports. The inspections must include observation and evaluation of BMP effectiveness. Deficiencies must be corrected within seven (7) days and the actions taken to correct the deficiencies shall be included with the written report, including photographs. Any corrective measure that necessitates major construction may also need a construction permit. Inspection reports must be kept on site with the SWPPP and maintained for a period of five (5) years. These must be made available to DNR personnel upon request.
 - c. A provision for designating an individual to be responsible for environmental matters.
 - d. A provision for providing training to all personnel involved in material handling and storage, and housekeeping of maintenance and cleaning areas. Proof of training shall be submitted on request of DNR.
7. Permittee shall adhere to the following minimum Best Management Practices:
- a. Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehouse activities and thereby prevent the contamination of storm water from these substances.
 - b. Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
 - c. Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so that these materials are not exposed to storm water or provide other prescribed BMP's such as plastic lids and/or portable spill pans to prevent the commingling of storm water with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
 - d. Provide good housekeeping practices on the site to keep trash from entry into waters of the state.
 - e. Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property. This could include the use of straw bales, silt fences, or sediment basins, if needed, to comply with effluent limits.
8. The purpose of the SWPPP and the BMPs listed herein is the prevention of pollution of waters of the state. A deficiency of a BMP means it was not effective in preventing pollution [10 CSR 20-2.010(56)] of waters of the state, and corrective actions means the facility took steps to eliminate the deficiency.
9. All paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) shall be stored so that these materials are not exposed to storm water. Spill prevention, control, and/or management shall be provided sufficient to prevent any spills of these pollutants from entering a water of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
10. Collection facilities shall be provided on-site, and arrangement made for proper disposal of waste products, including but not limited to petroleum waste products and solvents.
11. Good housekeeping practices shall be maintained on the site to keep solid waste from entry into waters of the state.
12. All fueling facilities present on the site shall adhere to applicable federal and state regulations concerning underground storage, above ground storage, and dispensers, including spill prevention, control and counter measures.

C. SPECIAL CONDITIONS cont.

13. An individual shall be designated by the permittee as responsible for environmental matters. Staff of the permitted facility shall inspect, on each workday, any structures that function to prevent pollution of storm water or to remove pollutants from storm water and of the facility in general to ensure that any Best Management Practices are continually implemented and effective.
14. All involved personnel shall be trained in material handling and storage, and housekeeping of areas having materials exposed to stormwater. Upon request, proof of training shall be submitted to the Department.
15. All spills must be cleaned up within 24 hours or as soon as possible. Hazardous substance releases, not characterized in this permit, that leave the property of the facility must be reported to the department at the earliest practicable moment, but no greater than 24 hours after the spill occurs. A record of each reportable spill shall be retained with the SWPPP and made available to the department upon request.
16. Substances, regulated by federal law under the Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), that are transported, stored, or used for maintenance, cleaning or repair, shall be managed according to RCRA and CERCLA. Release of a hazardous substance equal to or in excess of the reportable quantity found at 40 CFR 302.4 must be reported to the department at the earliest practicable moment, but no greater than 24 hours after the spill occurs.

Missouri Department of Natural Resources
FACT SHEET
FOR THE PURPOSE OF RENEWAL/MODIFICATION
OF
MO-0098647
PIRAMAL GLASS USA, INC., FLAT RIVER GLASS OPERATIONS

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for an Industrial Facility.

Part I – Facility Information

Facility Type: IND
Facility SIC Code(s): 3221/3229

Facility Description:

The Flat River Glass Operations is an industrial operation manufacturing glass bottles.

	PREVIOUS	CURRENT
FACILITY	Flat River Glass Operations 1000 Taylor Avenue, Park Hills, MO 63601	Piramal Glass USA, Inc., Flat River Glass Operations 1000 Taylor Avenue, Park Hills, MO 63601
OWNER	Gujarat Glass International 401 Route 73 North, Building #10 Suite 202, Marlton, NJ 08053	Piramal Glass USA, Inc. 401 Route 73 North, Building #10 Suite 202, Marlton, NJ 08053
CONTINUING AUTHORITY	Flat River Glass Company 1000 Taylor Avenue, Park Hills, MO 63601	Piramal Glass USA, Inc. P.O. Box G, Park Hills, MO 63601

Have any changes occurred at this facility or in the receiving water body that effects effluent limit derivation?

- No.

Application Date: 12/24/2012
Expiration Date: 05/22/2013
Last Inspection: 02/17/2011 Facility Not in Compliance
Facility not meeting effluent limits;
Failure to meet monitoring requirements;
Report, DMR, or other standard condition not met.

OUTFALL(S) TABLE:

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE	DISTANCE TO CLASSIFIED SEGMENT (MI)
001	1.86	IND	Contact water – emergency	~0.46
002	1.86	IND	Contact water	~0.47
003	0	BMP	Stormwater	~0.48
006	1.86	IND	Non-contact cooling water	~0.47

Water Quality History:

Big River, Flat River Creek and Shaw Branch
Approved March 24, 2010

The U.S. Environmental Protection Agency, or EPA, approved the TMDL document for Big River (WBIDs 2074, 2080), Flat River Creek (WBID 2168) and Shaw Branch (WBID 2170), St. Francois and Jefferson counties. <http://dnr.mo.gov/env/wpp/tmdl/2074-2080-2168-2170-big-r-record.htm>

303(d)-listed pollutants:

- Lead.
- Nonvolatile Suspended Solids (Inorganic Sediment).
- Zinc (Flat River Creek only).

To address the listed pollutants, TMDLs were calculated for:

- Dissolved lead.
- Total suspended solids.
- Dissolved zinc.

Comments:

This facility is not considered to be a source of the above listed pollutant(s) or considered to contribute to the impairment of Big River or Flat River Creek.

SIC #3221 – Glass Containers

Establishments primarily engaged in manufacturing glass containers for commercial packing and bottling, and for home canning.

SIC #3229 - Pressed and Blown Glass and Glassware, Not Elsewhere Classified

Establishments primarily engaged in manufacturing glass and glassware, not elsewhere classified, pressed, blown, or shaped from glass produced in the same establishment.

LIMIT EXCEEDANCES

MA: monthly average DM: daily maximum

PF No	MPED	Param	Unit	Conc 2	Stat Base	DMR Conc	Conc 3	Stat Base	DMR Conc	Mass Unit	Mass 1	Stat Base	DMR Mass 1	Mass 2	Stat Base	DMR Mass 2
002	08/31/2011	O & G	mg/L	10	MA	12	15	DM	12	lb/day	12.3	MA	0	24.6	DM	0
002	07/31/2011	O & G	mg/L	10	MA	11	15	DM	11	lb/day	12.3	MA	12.128	24.6	DM	12.128
002	06/30/2011	O & G	mg/L	10	MA	13	15	DM	13	lb/day	12.3	MA	14.333	24.6	DM	14.333
002	05/31/2011	O & G	mg/L	10	MA	16	15	DM	16	lb/day	12.3	MA	17.640	24.6	DM	17.640
002	11/30/2010	O & G	mg/L	10	MA	3.2	15	DM	3.2	lb/day	12.3	MA	14.655	24.6	DM	14.655
002	05/31/2010	O & G	mg/L	10	MA	3.42	15	DM	3.42	lb/day	12.3	MA	15.662	24.6	DM	15.662
002	04/30/2010	O & G	mg/L	10	MA	3.85	15	DM	3.85	lb/day	12.3	MA	17.632	24.6	DM	17.632
002	03/31/2010	O & G	mg/L	10	MA	5.2	15	DM	5.2	lb/day	12.3	MA	23.814	24.6	DM	23.814
002	02/28/2010	O & G	mg/L	10	MA	3.65	15	DM	3.65	lb/day	12.3	MA	16.716	24.6	DM	16.716
002	12/31/2009	O & G	mg/L	10	MA	2.9	15	DM	2.9	lb/day	12.3	MA	13.281	24.6	DM	13.281
002	11/30/2009	O & G	mg/L	10	MA	5	15	DM	5	lb/day	12.3	MA	22.898	24.6	DM	22.898
002	10/31/2009	O & G	mg/L	10	MA	2.75	15	DM	2.75	lb/day	12.3	MA	12.594	24.6	DM	12.594
002	09/30/2009	O & G	mg/L	10	MA	2.7	15	DM	2.7	lb/day	12.3	MA	12.365	24.6	DM	12.365

002	04/30/2009	O & G	mg/L	10	MA	3.1	15	DM	3.1	lb/day	12.3	MA	14.197	24.6	DM	14.197
002	02/28/2009	O & G	mg/L	10	MA	3.8	15	DM	3.8	lb/day	12.3	MA	17.403	24.6	DM	17.403
002	01/31/2009	O & G	mg/L	10	MA	5	15	DM	5	lb/day	12.3	MA	22.898	24.6	DM	22.898
002	12/31/2008	O & G	mg/L	10	MA	3.8	15	DM	3.8	lb/day	12.3	MA	17.403	24.6	DM	17.403
002	11/30/2008	O & G	mg/L	10	MA	2.9	15	DM	2.9	lb/day	12.3	MA	13.281	24.6	DM	13.281
002	10/31/2008	O & G	mg/L	10	MA	3.6	15	DM	3.6	lb/day	12.3	MA	16.487	24.6	DM	16.487
002	09/30/2008	O & G	mg/L	10	MA	4.35	15	DM	4.35	lb/day	12.3	MA	19.921	24.6	DM	19.921
002	07/31/2008	O & G	mg/L	10	MA	2.8	15	DM	2.8	lb/day	12.3	MA	12.823	24.6	DM	12.823
002	04/30/2012	TSS	mg/L	30	MA	33	45	DM	33	lb/day	28.70	MA	36.383	57.40	DM	36.383
002	12/31/2011	TSS	mg/L	30	MA	28	45	DM	28	lb/day	28.70	MA	30.870	57.40	DM	30.870
002	12/31/2008	TSS	mg/L	30	MA	7	45	DM	7	lb/day	28.70	MA	32.057	57.40	DM	32.057
002	09/30/2008	TSS	mg/L	30	MA	9	45	DM	9	lb/day	28.70	MA	41.217	57.40	DM	41.217
003	06/30/2011	SS	mL/L	1	MA	24	1.5	DM	24							
003	03/31/2011	SS	mL/L	1	MA	18	1.5	DM	18							

Part II – Operator Certification Requirements

As per [10 CSR 20-9.010(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Not Applicable;
This facility is not required to have a certified operator.

Part III – Receiving Stream Information

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

As per Missouri’s Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the seven (7) categories. Each category list effluent limitations for specific parameters, which are presented in each outfall’s Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

All Other Waters [10 CSR 20-7.015(8)]: Yes

10 CSR 20-7.031 Missouri Water Quality Standards, the department defines the Clean Water Commission water quality objectives in terms of “water uses to be maintained and the criteria to protect those uses.” The receiving stream and/or 1st classified receiving stream’s beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

RECEIVING STREAM(S) TABLE:

WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	12-DIGIT HUC	EDU**
Unnamed tributary to Flat River Creek	U	2168	General Criteria	07140104 – 0108	Ozark/ Meramec Drainage
Flat River Creek	C	2168	AQL, LWW, WBC (B)***		

* - Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery (CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).

** - Ecological Drainage Unit

*** - UAA conducted on 6/24/05 and approved on 9/7/05 retained WBC stream designation.

RECEIVING STREAM(S) LOW-FLOW VALUES TABLE:

RECEIVING STREAM (U, C, P)	LOW-FLOW VALUES (CFS)		
	1Q10	7Q10	30Q10
Unnamed tributary to Flat River Creek	0	0	0
Flat River Creek (C)	0	0	0.1

MIXING CONSIDERATIONS TABLE:

Mixing Zone: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(a)].

Zone of Initial Dilution: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(b)].

RECEIVING STREAM MONITORING REQUIREMENTS:

No receiving water monitoring requirements recommended at this time.

Part IV – Rationale and Derivation of Effluent Limitations & Permit Conditions

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

Not Applicable;

The facility does not discharge to a Losing Stream as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N)], or is an existing facility.

ANTI-BACKSLIDING:

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

- All limits in this Factsheet are at least as protective as those previously established; therefore, backsliding does not apply.

ANTIDegradation:

In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(2)], the department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

- Renewal no degradation proposed and no further review necessary.

BIO-SOLIDS, SLUDGE, & SEWAGE SLUDGE:

Bio-solids are solid materials resulting from wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sludge is any solid, semi-solid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility or any other such waste having similar characteristics and effect. Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works.

Not Applicable;

This condition is not applicable to the permittee for this specific facility.

COMPLIANCE AND ENFORCEMENT:

Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

Not Applicable;

The permittee/facility is not currently under Water Protection Program enforcement action.

REASONABLE POTENTIAL ANALYSIS (RPA):

Limitations must control all pollutants or pollutant parameters that are or may be discharged at a level which will cause, have reasonable potential to cause, or contribute to an excursion above the Missouri Water Quality Standards.

Not Applicable;

An RPA was not conducted.

SCHEDULE OF COMPLIANCE (SOC):

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit.

Not Applicable;

This permit does not contain a SOC.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; (2) Authorized under section 402(p) of the CWA for the control of storm water discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure. Additionally in accordance with the Storm Water Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of storm water discharges.

Applicable;

A SWPPP shall be developed and implemented for each site and shall incorporate required practices identified by the Department with jurisdiction, incorporate erosion control practices specific to site conditions, and provide for maintenance and adherence to the plan.

VARIANCE:

As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

Not Applicable;

This operating permit is not drafted under premises of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the department to release into a given stream after the department has determined to total amount of pollutant that may be discharged into that stream without endangering its water quality.

Not Applicable;

Wasteload allocations were not calculated.

WLA MODELING:

There are two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs). If TBELs do not provide adequate protection for the receiving waters, then WQBEL must be used.

Not Applicable;

A WLA study was either not submitted or determined not applicable by department staff.

WHOLE EFFLUENT TOXICITY (WET) TEST:

A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Not Applicable;

At this time, the permittee is not required to conduct WET test for this facility.

303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Applicable;

The U.S. Environmental Protection Agency, or EPA, approved the TMDL document for Big River (WBIDs 2074, 2080), Flat River Creek (WBID 2168) and Shaw Branch (WBID 2170), St. Francois and Jefferson counties. <http://dnr.mo.gov/env/wpp/tmdl/2074-2080-2168-2170-big-r-record.htm> Big River and Flat River Creek is listed on the 2010 Missouri 303(d) List for lead, non-volatile suspended solids, and zinc.

– This facility is not considered to be a source of the above listed pollutant(s) or considered to contribute to the impairment of Big River or Flat River Creek.

Part V – Effluent Limits Determination

Outfall #001

This outfall had NO DISCHARGE during the entire permit cycle.

EFFLUENT LIMITATIONS TABLE:

PARAMETER	UNIT	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
FLOW	MGD	*		*	NO	
TEMPERATURE	°F	90		90	NO	
TOTAL SUSPENDED SOLIDS	MG/L	45		30	NO	
TOTAL SUSPENDED SOLIDS	LBS/DAY	57.4		28.7	NO	
pH	SU	6.5-9.0		6.5-9.0	YES	6.0-9.0
AMMONIA AS N	MG/L	*		*	NO	
NITRATE + NITRITE AS N	MG/L	*		*	NO	
OIL & GREASE	MG/L	15		10	NO	
OIL & GREASE	LBS/DAY	24.6		12.3	NO	

OUTFALL #001 – DERIVATION AND DISCUSSION OF LIMITS:

- Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification. The facility’s 5-year DMR showed flow ranging from
- Total Suspended Solids (TSS).** Effluent limitations have been retained from previous state operating permit and are given in concentration limits for protection of the general criteria of the water quality standards assigned to typical industrial discharges as well as in pounds per day limits based on production as required in 40 CFR 426 Subpart H for the glass container manufacturing industry. Production as previously reported as 410,000 pounds of furnace pull.

		<u>Daily Max</u>	<u>Monthly Average</u>
40 CFR §426 Allowance	(lbs/1000 lbs of furnace pull)	0.14	0.07
Daily Max =	410,000 lbs/1000 lbs * 0.14 = 57.4 lbs/day		
Monthly Average =	410,000 lbs/1000 lbs * 0.07 = 28.7 lbs/day		

- pH.** Effluent limitations have been retained from previous state operating permit and are limits found in 40 CFR 426 Subpart H for the glass container manufacturing industry.

- **Ammonia as N.** Ammonia as N monitoring limitations have been retained from previous state operating permit. Since the discharge is very infrequent, sufficient results to perform a reasonable potential analysis are not available and the parameter will be retained in the permit.
- **Nitrate + Nitrite as N.** Nitrate + Nitrite as N monitoring limitations have been retained from previous state operating permit. Since the discharge is very infrequent, sufficient results to perform a reasonable potential analysis are not available and the parameter will be retained in the permit.
- **Temperature.** 10 CSR 7.031 (4) (D) states that discharge shall not exceed 90 degrees Fahrenheit for general or limited warm water fisheries.
- **Oil & Grease.** Concentration limits were lowered to meet the water quality standards for the protection of aquatic life found in the general criteria of the water quality standards and table A of the water quality standards. Effluent limitations have been retained from previous state operating permit concerning production based limits in pounds per day as required in 40 CFR 426 Subpart H for the glass container manufacturing industry. Production as previously reported as 410,000 pounds of furnace pull.

		<u>Daily Max</u>	<u>Monthly Average</u>
40 CFR §426 Allowance	(lbs/1000 lbs of furnace pull)	0.06	0.03
Daily Max =	410,000 lbs/1000 lbs * 0.06 = 24.6 lbs/day		
Monthly Average =	410,000 lbs/1000 lbs * 0.03 = 12.3 lbs/day		

Outfall #02

EFFLUENT LIMITATIONS TABLE:

PARAMETER	UNIT	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
FLOW	MGD	*		*	NO	
TEMPERATURE	°F	90		90	NO	
TOTAL SUSPENDED SOLIDS	MG/L	45		30	NO	
TOTAL SUSPENDED SOLIDS	LBS/DAY	57.4		28.7	NO	
pH	SU	6.5-9.0		6.5-9.0	YES	6.0-9.0
OIL & GREASE	MG/L	15		10	NO	
OIL & GREASE	LBS/DAY	24.6		12.3	NO	

OUTFALL #002 – DERIVATION AND DISCUSSION OF LIMITS:

- **Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification. The facility’s 5-year DMR showed flow ranging from 0.13 to 0.54 MGD.
- **Temperature.** 10 CSR 7.031 (4) (D) states that discharge shall not exceed 90 degrees Fahrenheit for general or limited warm water fisheries. The facility’s 5-year DMR showed temperature ranging from 54 to 85 degrees F.
- **Total Suspended Solids (TSS).** The facility’s 5-year DMR showed TSS concentrations ranging from 2 to 33 mg/L. The 45 mg/L daily maximum and 30 mg/L monthly average effluent limits remain.

Additionally, effluent limitations in pounds per day limits based on production as required in 40 CFR §426 - Subpart H for the glass container manufacturing industry remain. Production reported previously as 410,000 pounds of furnace pull.

		<u>Daily Max</u>	<u>Monthly Average</u>
40 CFR 426 Allowance	(lbs/1000 lbs of furnace pull)	0.14	0.07
Daily Max	= 410,000 lbs/1000 lbs * 0.14 = 57.4 lbs/day		
Monthly Average	= 410,000 lbs * 0.07 = 28.7 lbs/day		

- **pH.** In accordance with [10 CSR 20-7.031(4)(E)], pH shall be maintained in the range from six and one-half to nine (6.5-9.0) standard units. The facility’s 5-year DMR showed pH concentrations ranging from 7.12 to 8.57 SU.

- **Oil & Grease.** Conventional pollutant, effluent limitation for protection of aquatic life; 10 mg/L monthly average, 15 mg/L daily maximum. The facility's 5-year DMR showed O&G concentrations ranging from 2.5 mg/L - 16 mg/L.

Effluent limitations have been retained from previous state operating permit concerning production based limits in pounds per day as required in 40 CFR §426 Subpart H for the glass container manufacturing industry. Production reported previously as 410,000 pounds of furnace pull.

		<u>Daily Max</u>	<u>Monthly Average</u>
40 CFR §426 Allowance (lbs/1000 lbs of furnace pull)		0.06	0.03
Daily Max	= 410,000 lbs/1000 lbs * 0.06 = 24.6 lbs/day		
Monthly Average	= 410,000 lbs/1000 lbs * 0.03 = 12.3 lbs/day		

The facility's 5-year DMR showed O&G concentrations ranging from 2.756 to 17.64 lbs/day.

Outfall #003- Stormwater

EFFLUENT LIMITATIONS TABLE:

PARAMETER	UNIT	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
FLOW	MGD	*		*	NO	
SETTLABLE SOLIDS	ML/L	1.5		1.0	NO	
pH	SU	6.5-9.0		6.5-9.0	YES	6.0-9.0
OIL & GREASE	MG/L	15		10	NO	

OUTFALL #003 – DERIVATION AND DISCUSSION OF LIMITS:

- **Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification. The facility's 5-year DMR showed flow ranging from 0.13 to 0.26 MGD.
- **Settleable Solids (SS).** Effluent limitations of 1.5 mL/L daily maximum and 1.0 mL/L monthly average have been retained from previous state operating permit and are given in limits for protection of the general criteria of the water quality standards assigned to typical industrial stormwater discharges. The facility's 5-year DMR showed SS concentrations ranging from 0.1 to 24 mL/L.
- **pH.** In accordance with [10 CSR 20-7.031(4)(E)], pH shall be maintained in the range from six and one-half to nine (6.5-9.0) standard units. The facility's 5-year DMR showed pH concentrations ranging from 7.02 to 8.32 SU.
- **Oil & Grease.** Effluent limitations have been retained from previous state operating permit and are limits for the protection of aquatic life in the water quality standards; 10 mg/L monthly average, 15 mg/L daily maximum. The facility's 5-year DMR showed O&G concentrations ranging from 2.5 to 5 mg/L.

OUTFALLS #004 AND #005

These outfalls were eliminated from the permit during the 2008 permit cycle based on field observations that the drainage area to these outfalls contains no industrial contributions or materials exposed to stormwater.

Outfall #006

EFFLUENT LIMITATIONS TABLE:

PARAMETER	UNIT	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
FLOW	GPD	*		*	NO	
TEMPERATURE	°F	90		90	NO	
pH	SU	6.5-9.0		6.5-9.0	YES	6.0-9.0

* - Monitoring requirement only

OUTFALL #006 – DERIVATION AND DISCUSSION OF LIMITS:

- **Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification. The facility's 5-year DMR showed flow ranging from 0.13 to 0.26 MGD.
- **pH.** In accordance with [10 CSR 20-7.031(4)(E)], pH shall be maintained in the range from six and one-half to nine (6.5-9.0) standard units. The facility's 5-year DMR showed pH concentrations ranging from 7.02 to 7.85 SU.
- **Temperature.** 10 CSR 7.031 (4) (D) states that discharge shall not exceed 90 degrees Fahrenheit for general or limited warm water fisheries. The facility's 5-year DMR showed temperature ranging from 24.1 to 83 degrees F.

Part VI – Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PERMIT SYNCHRONIZATION:

The Department of Natural Resources is currently undergoing a synchronization process for operating permits. Permits are normally issued on a five-year term, but to achieve synchronization many permits will need to be issued for less than the full five years allowed by regulation. The intent is that all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the department to explore a watershed based permitting effort at some point in the future.

This permit will expire on **June 30, 2018** in order to meet the permit synchronization goals.

PUBLIC NOTICE:

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

- The Public Notice period for this operating permit is tentatively scheduled to begin in March 2013.

- The Public Notice period for this operating permit was from April 13, 2013 to May 13, 2013. No responses were received.

DATE OF FACT SHEET: MAY 14, 2013

COMPLETED BY:

JOY JOHNSON, ENVIRONMENTAL SPECIALIST III
NPDES PERMITS UNIT
WATER PROTECTION PROGRAM
joy.johnson@dnr.mo.gov

AP14213 C10032

Check # 2969 Returned due to No Fee Due @ time of Renewal



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH
**FORM A - APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT
 UNDER MISSOURI CLEAN WATER LAW**

FOR AGENCY USE ONLY	
CHECK NUMBER	2969
DATE RECEIVED	12/24/12
FEE SUBMITTED	OSB

Note PLEASE READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM.

1. This application is for:

- An operating permit and antidegradation review public notice
- A construction permit following an appropriate operating permit and antidegradation review public notice
- A construction permit and concurrent operating permit and antidegradation review public notice
- A construction permit (submitted before Aug. 30, 2008 or antidegradation review is not required)
- An operating permit for a new or unpermitted facility
- An operating permit renewal: permit # MO- ~~MO0670647~~ ^{MO} ~~0098647~~ ^{SB} Construction Permit # _____
- An operating permit modification: permit # MO- _____ Expiration Date 5/22/2013 Reason: _____

1.1 Is the appropriate fee included with the application? (See instructions for appropriate fee) YES NO

2. FACILITY

NAME Piramal Glass USA, Inc., Flat River Glass Operations		TELEPHONE WITH AREA CODE (573) 431-5743	
		FAX (573) 431-0256	
ADDRESS (PHYSICAL) 1000 Taylor Ave.,	CITY Park Hills	STATE MO	ZIP CODE 63601

3. OWNER

NAME Piramal Glass, USA, Inc.		E-MAIL ADDRESS	TELEPHONE WITH AREA CODE (856) 293-6400	
			FAX (856) 293-6401	
ADDRESS (MAILING) 401 Rt. 73 North, Building 10, Suite 202	CITY Marlton	STATE NJ	ZIP CODE 08053	

3.1 Request review of draft permit prior to public notice? YES NO

4. CONTINUING AUTHORITY

NAME Piramal Glass USA, Inc.		TELEPHONE WITH AREA CODE (573) 431-5743	
		FAX (573) 431-0256	
ADDRESS (MAILING) PO Box G	CITY Park Hills	STATE MO	ZIP CODE 63601

5. OPERATOR

NAME Rajendra Kulkarni	CERTIFICATE NUMBER	TELEPHONE WITH AREA CODE (573) 431-5743	
		FAX (573) 431-0256	
ADDRESS (MAILING) 1000 Taylor Ave	CITY Park Hills	STATE MO	ZIP CODE 63601

6. FACILITY CONTACT

NAME Scott Winder	TITLE Human Resources Manager	TELEPHONE WITH AREA CODE (573) 431-5743	
		FAX (573) 431-0256	

7. ADDITIONAL FACILITY INFORMATION

7.1 Legal Description of Outfalls. (Attach additional sheets if necessary.)

001 SW ¼ NE ¼ Sec 6 T 36N R SE St Fr County
 UTM Coordinates Easting (X): _____ Northing (Y): _____
For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

002 _____ ¼ _____ ¼ Sec _____ T _____ R _____ County
 UTM Coordinates Easting (X): _____ Northing (Y): _____

003 _____ ¼ _____ ¼ Sec _____ T _____ R _____ County
 UTM Coordinates Easting (X): _____ Northing (Y): _____

004 _____ ¼ _____ ¼ Sec _____ T _____ R _____ County
 UTM Coordinates Easting (X): _____ Northing (Y): _____

7.2 Primary Standard Industrial Classification (SIC) and Facility North American Industrial Classification System (NAICS) Codes.

001 - SIC 3221 _____ and NAICS _____ 002 - SIC _____ and NAICS _____
 003 - SIC _____ and NAICS _____ 004 - SIC _____ and NAICS _____

DEC 24 2012

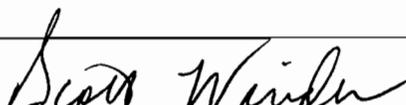
8. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION
(Complete all forms that are applicable.)

- A. Is your facility a manufacturing, commercial, mining or silviculture waste treatment facility? YES NO
 If yes, complete Form C (unless storm water only, then complete U.S. Environmental Protection Agency Form 2F per Item C below).
- B. Is your facility considered a "Primary Industry" under EPA guidelines: YES NO
 If yes, complete Forms C and D.
- C. Is application for storm water discharges only? YES NO
 If yes, complete EPA Form 2F.
- D. Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.
- E. Is wastewater land applied? If yes, complete Form I. YES NO
- F. Is sludge, biosolids, ash or residuals generated, treated, stored or land applied? YES NO
 If yes, complete Form R.

9. DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary. See Instructions.
(PLEASE SHOW LOCATION ON MAP. SEE 8.D ABOVE).

NAME The Fireside Group			
ADDRESS 118 Industrial Dr.	CITY Park Hills	STATE MO	ZIP CODE 63601

10. I certify that I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available to applicant under the Missouri Clean Water Law to the Missouri Clean Water Commission.

NAME AND OFFICIAL TITLE (TYPE OR PRINT) Scott Winder	TELEPHONE WITH AREA CODE (573) 431-5743
SIGNATURE 	DATE SIGNED 12/19/12

MO 780-1479 (01-09)

BEFORE MAILING, PLEASE ENSURE ALL SECTIONS ARE COMPLETED AND ADDITIONAL FORMS, IF APPLICABLE, ARE INCLUDED.

Submittal of an incomplete application may result in the application being returned.

HAVE YOU INCLUDED:

- Appropriate Fees?
- Map at 1" = 2000' scale?
- Signature?
- Form C, if applicable?
- Form D, if applicable?
- Form 2F, if applicable?
- Form I (Irrigation), if applicable?
- Form R (Sludge), if applicable?

FLAT RIVER QUADRANGLE
 MISSOURI - ST. FRANCOIS CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC)

SE 1/4 BONNE TERRE 15' QUADRANGLE
 CRYSTAL CITY 30 MI.
 BONNE TERRE 5 MI.

BONNE TERRE 4.4 MI.
 1 MI. TO U.S. 67

90°30'

37°52'30"

490,000 FEET

176 32'30"

175



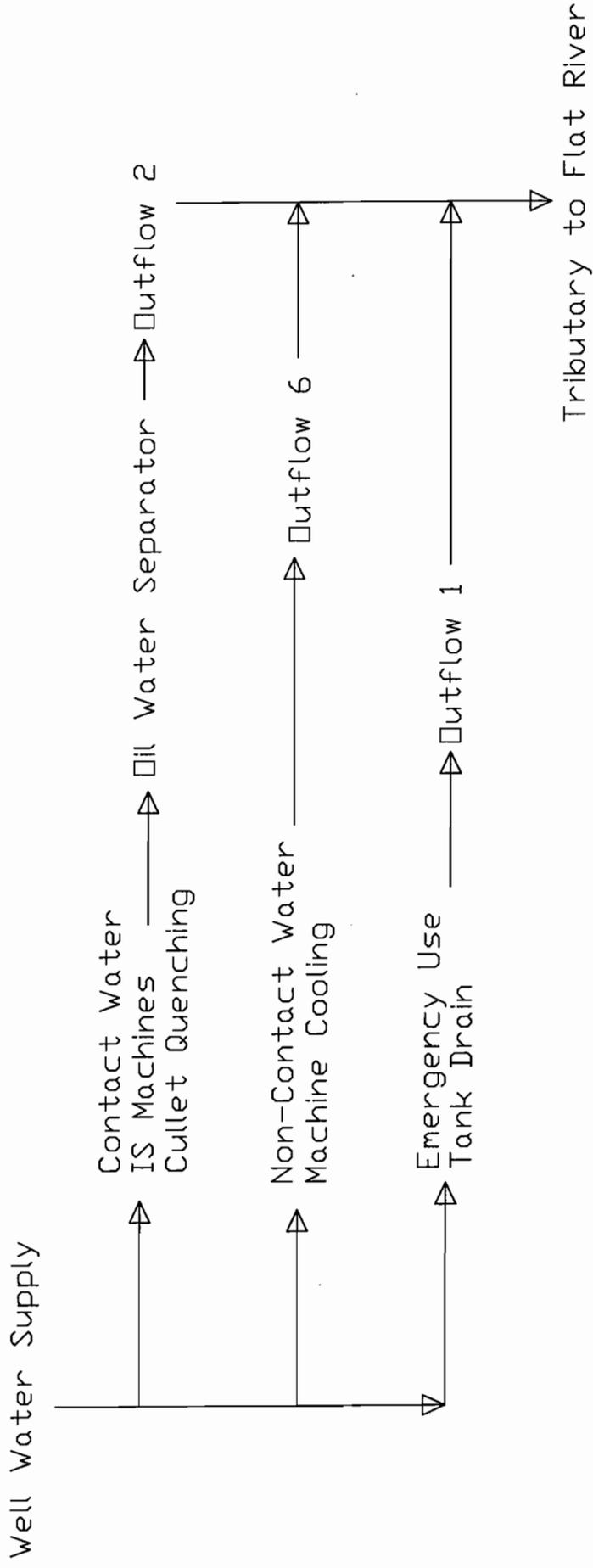
188 IV NW
 (FRENCH VILLAGE)

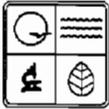
MISSOURI
 NATURAL RESOURCES
 STATE GEOLOGIST

89 I NE
 VE TERRE)

ARMINGTON 5.6 MI.

Process Water Flow Diagram Flat River Glass Company





MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH
FORM C – APPLICATION FOR DISCHARGE PERMIT –
MANUFACTURING, COMMERCIAL, MINING,
SILVICULTURE OPERATIONS, PROCESS & STORM WATER

FOR AGENCY USE ONLY	
CHECK NO.	
DATE RECEIVED	FEE SUBMITTED

TE: DO NOT ATTEMPT TO COMPLETE THIS FORM BEFORE READING THE ACCOMPANYING INSTRUCTIONS

1.00 NAME OF FACILITY
 Piramal Glass USA, Inc., Flat River Glass Operations

1.10 THIS FACILITY IS NOW IN OPERATION UNDER MISSOURI OPERATING PERMIT NUMBER
 MO 0098647

1.20 THIS IS A NEW FACILITY AND WAS CONSTRUCTED UNDER MISSOURI CONSTRUCTION PERMIT NUMBER (COMPLETE ONLY IF THIS FACILITY DOES NOT HAVE AN OPERATING PERMIT).

2.00 LIST THE STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES APPLICABLE TO YOUR FACILITY (FOUR DIGIT CODE)

A. FIRST 3221 B. SECOND 3229

C. THIRD _____ D. FOURTH _____

2.10 FOR EACH OUTFALL GIVE THE LEGAL DESCRIPTION.

OUTFALL NUMBER (LIST) SW 1/4 NE 1/4 SEC 6 T 36N R 5E St. Francois COUNTY

2.20 FOR EACH OUTFALL LIST THE NAME OF THE RECEIVING WATER

OUTFALL NUMBER (LIST) 001, 002, 003, 004, 005, 006 RECEIVING WATER Tributary to Flat River Creek

2.30 BRIEFLY DESCRIBE THE NATURE OF YOUR BUSINESS

Glass Container Manufacturing - Glass forming, annealing, inspection and packing

DEC 24 2012

2.40 CONTINUED

C. EXCEPT FOR STORM RUNOFF, LEAKS OR SPILLS, ARE ANY OF THE DISCHARGES DESCRIBED IN ITEMS A OR B INTERMITTENT OR SEASONAL?

YES (COMPLETE THE FOLLOWING TABLE) **NO (GO TO SECTION 2.50)**

1. OUTFALL NUMBER <i>(list)</i>	2. OPERATION(S) CONTRIBUTING FLOW <i>(list)</i>	3. FREQUENCY		4. FLOW				C. DURATION <i>(in days)</i>
		A. DAYS PER WEEK <i>(specify average)</i>	B. MONTHS PER YEAR <i>(specify average)</i>	A. FLOW RATE <i>(in mgd)</i>		B. TOTAL VOLUME <i>(specify with units)</i>		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	4. LONG TERM DAILY	3. MAXIMUM AVERAGE	
001	zero in 2008 - 2012	0	0	negl	1 mgd	negl	negl	0

2.50 MAXIMUM PRODUCTION

A. DOES AN EFFLUENT GUIDELINE LIMITATION PROMULGATED BY EPA UNDER SECTION 304 OF THE CLEAN WATER ACT APPLY TO YOUR FACILITY?

YES (COMPLETE B.) **NO (GO TO SECTION 2.60)**

B. ARE THE LIMITATIONS IN THE APPLICABLE EFFLUENT GUIDELINES EXPRESSED IN TERMS OF PRODUCTION (OF OTHER MEASURE OF OPERATION)?

YES (COMPLETE c.) **NO (GO TO SECTION 2.60)**

C. IF YOU ANSWERED "YES" TO B. LIST THE QUANTITY THAT REPRESENTS AN ACTUAL MEASUREMENT OF YOUR MAXIMUM LEVEL OF PRODUCTION, EXPRESSED IN THE TERMS AND UNITS USED IN THE APPLICABLE EFFLUENT GUIDELINE AND INDICATE THE AFFECTED OUTFALLS.

1. MAXIMUM QUANTITY			2. AFFECTED OUTFALLS <i>(list outfall numbers)</i>
A. QUANTITY PER DAY	B. UNITS OF MEASURE	C. OPERATION, PRODUCT, MATERIAL, ETC. <i>(specify)</i>	

2.60 IMPROVEMENTS

A. ARE YOU NOW REQUIRED BY ANY FEDERAL, STATE OR LOCAL AUTHORITY TO MEET, ANY IMPLEMENTATION SCHEDULE FOR THE CONSTRUCTION, UPGRADING OR OPERATION OF WASTEWATER TREATMENT EQUIPMENT OR PRACTICES OR ANY OTHER ENVIRONMENTAL PROGRAMS THAT MAY AFFECT THE DISCHARGES DESCRIBED IN THIS APPLICATION? THIS INCLUDES, BUT IS NOT LIMITED TO, PERMIT CONDITIONS, ADMINISTRATIVE OR ENFORCEMENT ORDERS, ENFORCEMENT COMPLIANCE SCHEDULE LETTERS, STIPULATIONS, COURT ORDERS AND GRANT OR LOAN CONDITIONS.

YES (COMPLETE THE FOLLOWING TABLE) **NO (GO TO 3.00)**

1. IDENTIFICATION OF CONDITION AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
				A. REQUIRED	B. PROJECTED

B. OPTIONAL: YOU MAY ATTACH ADDITIONAL SHEETS DESCRIBING ANY ADDITIONAL WATER POLLUTION CONTROL PROGRAMS (OR OTHER ENVIRONMENTAL PROJECTS THAT MAY AFFECT YOUR DISCHARGES) YOU NOW HAVE UNDER WAY OR ARE YOU PLANNING. INDICATE WHETHER EACH PROGRAM IS NOW UNDER WAY OR PLANNED, AND INDICATE YOUR ACTUAL OR PLANNED SCHEDULES FOR CONSTRUCTION.

MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED.

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet instead of completing these pages.
(Use the same format)
SEE INSTRUCTIONS

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS										OUTFALL NO. 001
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PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)				4. INTAKE (optional)		B. NO. OF ANALYSES	
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)	D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE (1) CONCENTRATION	(2) MASS		
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS								
A. Biochemical Oxygen Demand (BOD)	No	TESTING DURING PERIOD - OUTFALL NOT USED										
B. Chemical Oxygen Demand (COD)												
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)												
E. Ammonia (as N)												
F. Flow	VALUE		VALUE		VALUE				VALUE			
G. Temperature (winter)	VALUE		VALUE		VALUE				VALUE			
H. Temperature (summer)	VALUE		VALUE		VALUE				VALUE			
I. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM					STANDARD UNITS			

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		B. NO. OF ANALYSES	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)	D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE (1) CONCENTRATION	(2) MASS		
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS								
A. Bromide (24959-67-9)		✓												
B. Chlorine Total Residual		✓												
C. Color		✓												
D. Fecal Coliform		✓												
E. Fluoride (16984-48-8)		✓												
F. Nitrate-Nitrate (as N)	✓													

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
G. Nitrogen Total Organic (as N)		✓												
H. Oil and Grease	✓													
I. Phosphorus (as P) Total (7723-14-0)		✓												
J. Sulfate (as SO ₄) (14808-79-8)		✓												
K. Sulfide (as S)		✓												
L. Sulfite (as SO ₃) (14265-45-3)		✓												
M. Surfactants		✓												
N. Aluminum Total (7429-90-5)		✓												
O. Barium Total (7440-39-3)		✓												
P. Boron Total (7440-42-8)		✓												
Q. Cobalt Total (7440-48-4)		✓												
R. Iron Total (7439-89-6)		✓												
S. Magnesium Total (7439-95-4)		✓												
T. Molybdenum Total (7439-98-7)		✓												
U. Manganese Total (7439-96-5)		✓												
V. Tin Total (7440-31-5)		✓												
W. Titanium Total (7440-32-6)		✓												

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE (if available)		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		✓												
2M. Beryllium, Total (7440-41-7)		✓												
3M. Magnesium, Total (7439-95-4)		✓												
4M. Molybdenum, Total (7439-98-7)		✓												
5M. Tin, Total (7440-31-5)		✓												
6M. Titanium, Total (7440-32-6)		✓												
7M. Mercury, Total (7439-97-6)		✓												
8M. Selenium, Total (7782-49-2)		✓												
9M. Thallium, Total (7440-28-0)		✓												
10M. Phenols, Total		✓												
RADIOACTIVITY														
(1) Alpha Total		✓												
(2) Beta Total		✓												
(3) Radium Total		✓												
(4) Radium 226 Total		✓												

3.10 BIOLOGICAL TOXICITY TESTING DATA

DO YOU HAVE ANY KNOWLEDGE OR REASON TO BELIEVE THAT ANY BIOLOGICAL TEST FOR ACUTE OR CHRONIC TOXICITY HAS BEEN MADE ON ANY OF YOUR DISCHARGES OR ON RECEIVING WATER IN RELATION TO YOUR DISCHARGE WITHIN THE LAST THREE YEARS?

YES (IDENTIFY THE TEST(S) AND DESCRIBE THEIR PURPOSES BELOW.) NO (GO TO 3.20)

3.20 CONTRACT ANALYSIS INFORMATION

WERE ANY OF THE ANALYSES REPORTED PERFORMED BY A CONTRACT LABORATORY OR CONSULTING FIRM?

YES (LIST THE NAME, ADDRESS AND TELEPHONE NUMBER OF AND POLLUTANTS ANALYZED BY EACH SUCH LABORATORY OR FIRM BELOW.) NO (GO TO 3.30)

A. NAME	B. ADDRESS	C. TELEPHONE (area code and number)	D. POLLUTANTS ANALYZED (list)
None - no testing as outfall not used during period			

3.30 CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME AND OFFICIAL TITLE (TYPE OR PRINT) <i>SCOTT WINDER HR MANAGER</i>	TELEPHONE NUMBER WITH AREA CODE <i>573 431 5743</i>
SIGNATURE (SEE INSTRUCTIONS) <i>Scott Winder</i>	DATE SIGNED <i>12/10/12</i>

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet instead of completing these pages.
(Use the same format)
SEE INSTRUCTIONS

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS										OUTFALL NO. 002
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PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)				4. INTAKE (optional)		B. NO. OF ANALYSES	
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION		(2) MASS
A. Biochemical Oxygen Demand (BOD)												
B. Chemical Oxygen Demand (COD)												
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)	33				8.7			mg/L				
E. Ammonia (as N)												
F. Flow	VALUE	0.86	VALUE		VALUE	0.49		mgd			VALUE	
G. Temperature (winter)	VALUE	20.1 c	VALUE		VALUE	21		°C			VALUE	
H. Temperature (summer)	VALUE	29.2 c	VALUE		VALUE	24.5		°C			VALUE	
I. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		B. NO. OF ANALYSES	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION		(2) MASS
A. Bromide (24959-67-9)		✓												
B. Chlorine Total Residual		✓												
C. Color		✓												
D. Fecal Coliform		✓												
E. Fluoride (16984-48-8)		✓												
F. Nitrate-Nitrate (as N)		✓												

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE (if available)		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
G. Nitrogen Total Organic (as N)		✓												
H. Oil and Grease	✓		8.7				5.14			mg/l				
I. Phosphorus (as P) Total (7723-14-0)		✓												
J. Sulfate (as SO ₄) (14808-79-8)		✓												
K. Sulfide (as S)		✓												
L. Sulfite (as SO ₃) (14265-45-3)		✓												
M. Surfactants		✓												
N. Aluminum Total (7429-90-5)		✓												
O. Barium Total (7440-39-3)		✓												
P. Boron Total (7440-42-8)		✓												
Q. Cobalt Total (7440-48-4)		✓												
R. Iron Total (7439-89-6)		✓												
S. Magnesium Total (7439-95-4)		✓												
T. Molybdenum Total (7439-98-7)		✓												
U. Manganese Total (7439-96-5)		✓												
V. Tin Total (7440-31-5)		✓												
W. Titanium Total (7440-32-6)		✓												

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		✓												
2M. Beryllium, Total (7440-41-7)		✓												
3M. Magnesium, Total (7439-95-4)		✓												
4M. Molybdenum, Total (7439-98-7)		✓												
5M. Tin, Total (7440-31-5)		✓												
6M. Titanium, Total (7440-32-6)		✓												
7M. Mercury, Total (7439-97-6)		✓												
8M. Selenium, Total (7782-49-2)		✓												
9M. Thallium, Total (7440-28-0)		✓												
10M. Phenols, Total														
RADIOACTIVITY														
(1) Alpha Total		✓												
(2) Beta Total		✓												
(3) Radium Total		✓												
(4) Radium 226 Total		✓												

3.10 BIOLOGICAL TOXICITY TESTING DATA

DO YOU HAVE ANY KNOWLEDGE OR REASON TO BELIEVE THAT ANY BIOLOGICAL TEST FOR ACUTE OR CHRONIC TOXICITY HAS BEEN MADE ON ANY OF YOUR DISCHARGES OR ON RECEIVING WATER IN RELATION TO YOUR DISCHARGE WITHIN THE LAST THREE YEARS?

YES (IDENTIFY THE TEST(S) AND DESCRIBE THEIR PURPOSES BELOW.) NO (GO TO 3.20)

3.20 CONTRACT ANALYSIS INFORMATION

WERE ANY OF THE ANALYSES REPORTED PERFORMED BY A CONTRACT LABORATORY OR CONSULTING FIRM?

YES (LIST THE NAME, ADDRESS AND TELEPHONE NUMBER OF AND POLLUTANTS ANALYZED BY EACH SUCH LABORATORY OR FIRM BELOW.) NO (GO TO 3.30)

A. NAME	B. ADDRESS	C. TELEPHONE (area code and number)	D. POLLUTANTS ANALYZED (list)
PDC LABS	P.O. Box 9071 PEORIA, IL 61612	(309)692-9688	OIL & GREASE TSS

3.30 CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME AND OFFICIAL TITLE (TYPE OR PRINT) SCOTT WINDER HR MANAGER	TELEPHONE NUMBER WITH AREA CODE 573.431.5743
SIGNATURE (SEE INSTRUCTIONS) <i>Scott Winder</i>	DATE SIGNED 12/18/12

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet instead of completing these pages.
 (Use the same format)
 SEE INSTRUCTIONS

FORM C
 TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS		OUTFALL NO. 006	
-------------------------------------	--	--------------------	--

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)				4. INTAKE (optional)			
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)												
B. Chemical Oxygen Demand (COD)												
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)												
E. Ammonia (as N)												
F. Flow	VALUE	0.86	VALUE		VALUE	0.74			mgd		VALUE	
G. Temperature (winter)	VALUE	61	VALUE		VALUE	66			°C		VALUE	
H. Temperature (summer)	VALUE	82	VALUE		VALUE	75			°C		VALUE	
I. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM					STANDARD UNITS			

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)			
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
A. Bromide (24959-67-9)		✓												
B. Chlorine Total Residual		✓												
C. Color		✓												
D. Fecal Coliform		✓												
E. Fluoride (16984-48-8)		✓												
F. Nitrate— Nitrate (as N)		✓												

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
G. Nitrogen Total Organic (as N)		✓												
H. Oil and Grease		✓												
I. Phosphorus (as P) Total (7723-14-0)		✓												
J. Sulfate (as SO ₄) (14808-79-8)		✓												
K. Sulfide (as S)		✓												
L. Sulfite (as SO ₃) (14265-45-3)		✓												
M. Surfactants		✓												
N. Aluminum Total (7429-90-5)		✓												
O. Barium Total (7440-39-3)		✓												
P. Boron Total (7440-42-8)		✓												
Q. Cobalt Total (7440-48-4)		✓												
R. Iron Total (7439-89-6)		✓												
S. Magnesium Total (7439-95-4)		✓												
T. Molybdenum Total (7439-98-7)		✓												
U. Manganese Total (7439-96-5)		✓												
V. Tin Total (7440-31-5)		✓												
W. Titanium Total (7440-32-6)		✓												

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE (if available)		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)														
2M. Beryllium, Total (7440-41-7)		✓												
3M. Magnesium, Total (7439-95-4)		✓												
4M. Molybdenum, Total (7439-98-7)		✓												
5M. Tin, Total (7440-31-5)		✓												
6M. Titanium, Total (7440-32-6)		✓												
7M. Mercury, Total (7439-97-6)		✓												
8M. Selenium, Total (7782-49-2)		✓												
9M. Thallium, Total (7440-28-0)		✓												
10M. Phenols, Total		✓												
RADIOACTIVITY														
(1) Alpha Total		✓												
(2) Beta Total		✓												
(3) Radium Total		✓												
(4) Radium 226 Total		✓												

3.10 BIOLOGICAL TOXICITY TESTING DATA

DO YOU HAVE ANY KNOWLEDGE OR REASON TO BELIEVE THAT ANY BIOLOGICAL TEST FOR ACUTE OR CHRONIC TOXICITY HAS BEEN MADE ON ANY OF YOUR DISCHARGES OR ON RECEIVING WATER IN RELATION TO YOUR DISCHARGE WITHIN THE LAST THREE YEARS?

YES (IDENTIFY THE TEST(S) AND DESCRIBE THEIR PURPOSES BELOW.) NO (GO TO 3.20)

3.20 CONTRACT ANALYSIS INFORMATION

WERE ANY OF THE ANALYSES REPORTED PERFORMED BY A CONTRACT LABORATORY OR CONSULTING FIRM?

YES (LIST THE NAME, ADDRESS AND TELEPHONE NUMBER OF AND POLLUTANTS ANALYZED BY EACH SUCH LABORATORY OR FIRM BELOW.) NO (GO TO 3.30)

A. NAME	B. ADDRESS	C. TELEPHONE (area code and number)	D. POLLUTANTS ANALYZED (list)

3.30 CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME AND OFFICIAL TITLE (TYPE OR PRINT) <i>SCOTT WINDER HR MANAGER</i>	TELEPHONE NUMBER WITH AREA CODE <i>573.431.5743</i>
SIGNATURE (SEE INSTRUCTIONS) <i>Scott Winder</i>	DATE SIGNED <i>12/18/12</i>



Missouri Department of Natural Resources
Water Protection Program
C/O Mr. John Madras
P.O. Box 176
Jefferson City, MO 65102

12/20/12

Dear Mr. Madras,

As required, please find our Application for renewal of our NPDES Permit enclosed. I would also point out that our parent company, although the same entity, has been renamed as Piramal Glass-USA, Inc., with our facility being named the same, including Flat River Glass Operations at the end of the name. If you or your staff have any questions or concerns regarding the name change and/or the application for permit, please contact me at your earliest convenience.

Regards,

Scott R. Winder, SPHR
Human Resources Manager
Flat River Glass Operations
Piramal Glass – USA, Inc.

Cc: Rajendra Kulkarni – Plant Manager

DEC 24 2012

Piramal Glass - USA, Inc.

Glass Manufacturing Operations Flat River Glass Plant 1000 Taylor Avenue Park Hills MO 63601 T +1 573 431 5743 F +1 573 431 0256
Corporate Office 401 Route 73 North Building 10 Suite 202 Lake Center Executive Park Marlton NJ 08053 T +1 856 293 6400 F +1 856 293 6401
W www.piramalglassusa.com