Schwab, Kay

From: Doug LaBar <doug.labar@c-ka.com>
Sent: Tuesday, February 02, 2016 1:44 PM
To: Jenniffer Sheppard (jenniffer.sheppard@la.gov)
Cc: sonja.loyd@la.gov; Schwab, Kay; Kaspar, Paul
Subject: LOOP- Outfall 004
Attachments: LOOP Brine Data Letter.pdf

Hello Jenniffer,

Attached is a copy of the original letter that was mailed to you with effluent characterization data for Outfall 004. Because we requested a new outfall (029) for reverse osmosis reject water from the control platform at the marine terminal that is now ready to operate, we would like LDEQ and EPA to review the Outfall 004 issue as quickly as possible and make the determination and proceed with a final permit. We appreciate your patience and now urgency on this issue. I will call you in a few days to discuss. Thanks.

If you have any questions, please feel free to contact me.

Doug LaBar
Water Quality Team Leader

CK ASSOCIATES
Environmental Consultants

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January 29, 2016

Ms. Jennifer Sheppard
General and Industrial Water Permits Manager
Louisiana Department of Environmental Quality
Office of Environmental Services
Water Permits Division
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313

RE: LOOP LLC
Deepwater Port Complex
LPDES Permit No. LA0049492
Agency Interest No. 4634

Dear Ms. Sheppard:

LOOP LLC (LOOP), Deepwater Port Complex, herewith submits additional information relevant to the draft Louisiana Pollutant Discharge Elimination System (LPDES)/National Pollutant Discharge Elimination System (NPDES) permit issued by the Louisiana Department of Environmental Quality (LDEQ) and U.S. Environmental Protection Agency (EPA) on June 6, 2014.

As requested by LDEQ and EPA, LOOP conducted sampling and analysis at the brine storage reservoir (Outfall 004) in an effort to provide additional effluent characterization of the brine. The contract laboratory had significant problems with matrix interference due to the elevated concentration of dissolved inorganic substances (primarily naturally-occurring salts and minerals) in the sample whereby certain Minimum Quantification Levels (MQLs) for mostly metals were not achievable. Significant effort was undertaken to analyze the samples and evaluate the results and Quality Control (QC) summaries. Attached is the LDEQ IND Form for Outfall 004 with the effluent characterization data. The effluent characterization data is consistent with brine and indicates no presence of organic pollutants at the MQLs.

As previously submitted to the LDEQ and EPA, Outfall 004 discharges on an infrequent basis and has a multi-port diffuser to enhance mixing and minimize environmental impacts to aquatic life. LOOP does not believe any additional permit limitations or monitoring requirements are appropriate for the brine discharge in the existing permit.

If you have any questions, please feel free to contact me at (985) 276-6299.

Sincerely,

Cynthia A. Gardner-LeBlanc
Manager Regulatory Affairs

cc: Sonja Loyd, LDEQ
Kay Schwab, EPA
Paul Kaspar, EPA,
Doug LaBar, CK Associates

SECTION III – LABORATORY ANALYSIS

TABLE I:

CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	EFFLUENT ANALYSIS						UNITS	
	MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE			
	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS
BOD_5	NA	NA	NA	NA	NA	NA	NA	NA
COD	1,070	NA	NA	NA	NA	NA	mg/L	NA
TOC	40.7	NA	NA	NA	NA	NA	mg/L	NA
Oil & Grease	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia (as N)	0.29	NA	NA	NA	NA	NA	mg/L	
Total Suspended Solids (TSS)	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS) [1]	NA	NA	NA	NA	NA	NA	NA	NA
Hardness as $CaCo_3$ [1]	NA	NA	NA	NA	NA	NA	NA	NA
Flow	Value NA		Value NA		Value NA		NA	NA
Temperature (winter) °F	Value NA		Value NA		Value NA		DEGREES FAHRENHEIT	
Temperature (summer) °F	Value NA		Value NA		Value NA		DEGREES FAHRENHEIT	
pH (SU)	Minimum NA	Maximum NA	Minimum NA	Maximum NA			STANDARD UNITS	

[1] TDS and Hardness are required for discharges of cooling tower blowdown.

SECTION III – LABORATORY ANALYSIS

TABLE II:

OTHER TOXIC POLLUTANTS (METALS AND CYANIDE) AND TOTAL PHENOLS

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
Antimony, Total			X	60	<1,000	NA	NA	NA	NA	NA	ug/L	NA
Arsenic, Total			X	5	<2,000	NA	NA	NA	NA	NA	ug/L	NA
Beryllium, Total			X	0.5	<1,000	NA	NA	NA	NA	NA	ug/L	NA
Cadmium, Total			X	1	<1,000	NA	NA	NA	NA	NA	ug/L	NA
Chromium, Total			X	10	<100	NA	NA	NA	NA	NA	ug/L	NA
Copper, Total			X	3	<1,000	NA	NA	NA	NA	NA	ug/L	NA
Lead, Total			X	2	<500	NA	NA	NA	NA	NA	ug/L	NA
Mercury, Total			X	0.0005/ 0.005	<0.0005	NA	NA	NA	NA	NA	ug/L	NA
Nickel, Total [Marine]			X	5	<1,000	NA	NA	NA	NA	NA	ug/L	NA
Nickel, Total [Freshwater]				5	NA	NA	NA	NA	NA	NA	ug/L	NA
Selenium, Total			X	5	<2,500	NA	NA	NA	NA	NA	ug/L	NA
Silver, Total			X	0.5	<500	NA	NA	NA	NA	NA	ug/L	NA
Thallium, Total			X	0.5	<1,000	NA	NA	NA	NA	NA	ug/L	NA
Zinc, Total		X		20	327	NA	NA	NA	NA	NA	ug/L	NA
Cyanide, Total			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
Phenols, Total			X	5	<5	NA	NA	NA	NA	NA	ug/L	NA

(*) Minimum Quantification Level (MQL)

SECTION III – LABORATORY ANALYSIS

TABLE III:

ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GS/MS)

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
VOLATILE ORGANIC CHEMICALS – EPA METHOD 624 SUGGESTED												
acrolein			X	50	<50	NA	NA	NA	NA	NA	ug/L	NA
acrylonitrile			X	20	<20	NA	NA	NA	NA	NA	ug/L	NA
benzene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
bromoform			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
carbon tetrachloride			X	2	<2	NA	NA	NA	NA	NA	ug/L	NA
chlorobenzene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
chlorodibromomethane			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
chloroethane			X	50	<50	NA	NA	NA	NA	NA	ug/L	NA
2-chloroethylvinyl ether			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
chloroform			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
dichlorobromomethane			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
1,1-dichloroethane			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
1,2-dichloroethane			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
1,1-dichloroethylene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
1,2-dichloropropane			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
1,3-Dichloropropylene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
ethylbenzene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
methyl bromide			X	50	<50	NA	NA	NA	NA	NA	ug/L	NA
methyl chloride			X	50	<50	NA	NA	NA	NA	NA	ug/L	NA

SECTION III – LABORATORY ANALYSIS

TABLE III:

ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GS/MS)

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
methylene chloride			X	20	<20	NA	NA	NA	NA	NA	ug/L	NA
1,1,2,2-tetrachloroethane			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
tetrachloroethylene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
toluene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
1,2-trans-dichloroethylene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
1,1,1-trichloroethane			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
1,1,2-trichloroethane			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
trichloroethene (trichloroethylene)			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
vinyl chloride (chloroethylene)			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
ACID EXTRACTABLE ORGANIC CHEMICAL – EPA METHOD 625 SUGGESTED												
2-chlorophenol			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
2,4-dichlorophenol			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
2,4-dimethylphenol			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
2,4-dinitrophenol			X	50	<50	NA	NA	NA	NA	NA	ug/L	NA
2-methyl 4,6-dinitrophenol (4,6-dinitro-o-cresol)			X	50	<50	NA	NA	NA	NA	NA	ug/L	NA
2-nitrophenol			X	20	<20	NA	NA	NA	NA	NA	ug/L	NA
4-nitrophenol			X	50	<50	NA	NA	NA	NA	NA	ug/L	NA
4-chloro-3-methylphenol (p-chloro-m-cresol)			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
pentachlorophenol			X	5	<5	NA	NA	NA	NA	NA	ug/L	NA

SECTION III – LABORATORY ANALYSIS

TABLE III:

ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GS/MS)

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
phenol			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
2,4,6-trichlorophenol			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
BASE/NEUTRAL EXTRACTABLE ORGANIC CHEMICALS – EPA METHOD 625 SUGGESTED												
acenaphthene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
acenaphthylene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
anthracene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
benzidine			X	50	<50	NA	NA	NA	NA	NA	ug/L	NA
benzo(a)anthracene			X	5	<5	NA	NA	NA	NA	NA	ug/L	NA
benzo(a)pyrene			X	5	<5	NA	NA	NA	NA	NA	ug/L	NA
3,4-benzo fluoranthene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
benzo(ghi)perylene			X	20	<20	NA	NA	NA	NA	NA	ug/L	NA
benzo(k)fluoranthene			X	5	<5	NA	NA	NA	NA	NA	ug/L	NA
bis(2-chloroethoxy)methane			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
bis(2-chloroethyl)ether			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
bis(2-chloroisopropyl)ether			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
bis(2-ethylhexyl)phthalate			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
4-bromophenyl phenyl ether			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
butylbenzyl phthalate			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
2-chloronaphthalene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
4-chlorophenyl phenyl ether			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
chrysene			X	5	<5	NA	NA	NA	NA	NA	ug/L	NA

SECTION III – LABORATORY ANALYSIS

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OUTFALL NUMBER

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[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
dibenzo(a,h)anthracene			X	5	<5	NA	NA	NA	NA	NA	ug/L	NA
3,3'-dichlorobenzidine			X	5	<5	NA	NA	NA	NA	NA	ug/L	NA
diethyl phthalate			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
dimethyl phthalate			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
di-n-butyl phthalate			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
2,4-dinitrotoluene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
2,6-dinitrotoluene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
di-n-octyl phthalate			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
1,2-diphenylhydrazine (as azobenzene)			X	20	<20	NA	NA	NA	NA	NA	ug/L	NA
fluoranthene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
fluorene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
hexachlorobenzene			X	5	<5	NA	NA	NA	NA	NA	ug/L	NA
hexachlorobutadiene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
hexachlorocyclopentadiene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
hexachloroethane			X	20	<20	NA	NA	NA	NA	NA	ug/L	NA
indeno(1,2,3-cd)pyrene			X	5	<5	NA	NA	NA	NA	NA	ug/L	NA
isophorone			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
naphthalene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
nitrobenzene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
N-nitrosodimethylamine			X	50	<50	NA	NA	NA	NA	NA	ug/L	NA
N-nitrosodi-n-propylamine			X	20	<20	NA	NA	NA	NA	NA	ug/L	NA

SECTION III – LABORATORY ANALYSIS

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ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GS/MS)

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
N-nitrosodiphenylamine			X	20	<20	NA	NA	NA	NA	NA	ug/L	NA
phenanthrene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
pyrene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
1,2,4-trichlorobenzene			X	10	<10	NA	NA	NA	NA	NA	ug/L	NA
PESTICIDES & PCBs – EPA METHOD 608 REQUIRED												
aldrin			X	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1016 (PCB-1016)			X	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221 (PCB-1221)			X	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232 (PCB-1232)			X	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242 (PCB-1242)			X	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248 (PCB-1248)			X	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254 (PCB-1254)			X	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260 (PCB-1260)			X	0.2	NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC			X	0.05	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC			X	0.05	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC			X	0.05	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC			X	0.05	NA	NA	NA	NA	NA	NA	NA	NA

SECTION III – LABORATORY ANALYSIS

TABLE III:

ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GS/MS)

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
chlordane			X	0.2	NA	NA	NA	NA	NA	NA	NA	NA
4,4'DDT			X	0.02	NA	NA	NA	NA	NA	NA	NA	NA
4,4'DDE			X	0.1	NA	NA	NA	NA	NA	NA	NA	NA
4,4'DDD			X	0.1	NA	NA	NA	NA	NA	NA	NA	NA
dieldrin			X	0.02	NA	NA	NA	NA	NA	NA	NA	NA
alpha-endosulfan			X	0.01	NA	NA	NA	NA	NA	NA	NA	NA
beta-endosulfan			X	0.02	NA	NA	NA	NA	NA	NA	NA	NA
endosulfan sulfate			X	0.1	NA	NA	NA	NA	NA	NA	NA	NA
endrin			X	0.02	NA	NA	NA	NA	NA	NA	NA	NA
endrin aldehyde			X	0.1	NA	NA	NA	NA	NA	NA	NA	NA
heptachlor			X	0.01	NA	NA	NA	NA	NA	NA	NA	NA
heptachlor epoxide			X	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene			X	0.3	NA	NA	NA	NA	NA	NA	NA	NA

(*) Minimum Quantification Level (MQL)

SECTION III – LABORATORY ANALYSIS

TABLE IV:

ADDITIONAL CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS												
Bromide			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Chlorine, Total Residual			X	---	<0.05	NA	NA	NA	NA	NA	mg/L	NA
Color		X		---	9	NA	NA	NA	NA	NA	CU	NA
Fecal Coliform (cols/100ml)			X	---	<10	NA	NA	NA	NA	NA	Col/10 ml	NA
Fluoride			X	---	<50	NA	NA	NA	NA	NA	mg/L	NA
Kjeldahl Nitrogen, Total		X		---	32.0	NA	NA	NA	NA	NA	mg/L	NA
Nitrate-Nitrite			X	---	<0.1	NA	NA	NA	NA	NA	mg/L	NA
Nitrogen, Total Organic		X		---	31.7	NA	NA	NA	NA	NA	mg/L	NA
Phosphorus, Total		X		---	0.62	NA	NA	NA	NA	NA	mg/L	NA
Radioactivity			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate		X		---	1,630	NA	NA	NA	NA	NA	mg/L	NA
Sulfide			X	---	<0.05	NA	NA	NA	NA	NA	mg/L	NA
Sulfite		X		---	3.0	NA	NA	NA	NA	NA	mg/L	NA
Surfactants		X		---	36.9	NA	NA	NA	NA	NA	mg/L	NA
Aluminum, Total			X	---	<1,250	NA	NA	NA	NA	NA	µg/L	NA
Barium, Total		X		---	3,050	NA	NA	NA	NA	NA	µg/L	NA
Boron, Total		X		---	2,940	NA	NA	NA	NA	NA	µg/L	NA

SECTION III – LABORATORY ANALYSIS

TABLE IV:

ADDITIONAL CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	ING REQ UIRE	EVE D PRE	EVE D ABSE		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
Cobalt, Total			X	---	<100	NA	NA	NA	NA	NA	µg/L	NA
Iron, Total			X	---	<1,000	NA	NA	NA	NA	NA	µg/L	NA
Magnesium, Total		X		---	218,000	NA	NA	NA	NA	NA	µg/L	NA
Manganese, Total			X	---	<1,000	NA	NA	NA	NA	NA	µg/L	NA
Molybdenum			X	---	<100	NA	NA	NA	NA	NA	µg/L	NA
Tin, Total			X	---	<100	NA	NA	NA	NA	NA	µg/L	NA
Titanium, Total			X	---	<100	NA	NA	NA	NA	NA	µg/L	NA

(*) Minimum Quantification Level (MQL)

SECTION III – LABORATORY ANALYSIS

TABLE V:

TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES												
Asbestos			X	---	NA	NA	NA	NA	NA	NA	NA	NA
HAZARDOUS SUBSTANCES												
Acetaldehyde			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Allyl alcohol			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Allyl chloride			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Amyl acetate			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Aniline			X	---	<10	NA	NA	NA	NA	NA	µg/l	NA
Benzonitrile			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl chloride			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Butyl acetate			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Butylamine			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Captan			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Carbaryl			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Carbofuran			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide			X	---	<10	NA	NA	NA	NA	NA	µg/l	NA
Chlorpyrifos			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Coumaphos			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Cresol			X	---	<10	NA	NA	NA	NA	NA	µg/l	NA

SECTION III – LABORATORY ANALYSIS

TABLE V:

TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
Crotonaldehyde			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane			X	---	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D (2,4-Dichlorophenoxy acetic acid)			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Diazinon			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Dicamba			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Dichlobenil			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Dichlone			X	---	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropionic acid			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorvos			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl amine			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl Amine			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrobenzene			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Diquat			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Disulfoton			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Diuron			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Epichlorohydrin			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Ethion			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Ethylene diamine			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Ethylene dibromide			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Formaldehyde			X	---	NA	NA	NA	NA	NA	NA	NA	NA

SECTION III – LABORATORY ANALYSIS

TABLE V:

TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
Furfural			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Guthion			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Isoprene			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Isopropanolamine Dodecylbenzenesulfonate			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Kelthane			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Kepone			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Malathion			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Mercaptodimethur			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Methyl mercaptan			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Methyl methacrylate			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Methyl parathion			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Mevinphos			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Mexacarbate			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Monoethyl amine			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Monomethyl amine			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Naled			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Napthenic acid			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Nitrotoluene			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Parathion			X	---	NA	NA	NA	NA	NA	NA	NA	NA

SECTION III – LABORATORY ANALYSIS

TABLE V:

TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES

OUTFALL NUMBER

004

[X] Grab [ ] Composite

POLLUTANT	MARK X			MQL (*) µg/L	EFFLUENT ANALYSIS						UNITS	
	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
Phenolsulfanate			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Phosgene			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Propargite			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Propylene oxide			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Pyrethrins			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Quinoline			x	---	NA	NA	NA	NA	NA	NA	NA	NA
Resorcinol			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Strontium		X		---	32,300	NA	NA	NA	NA	NA	µg/L	NA
Strychnine			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Styrene			X	---	<10	NA	NA	NA	NA	NA	µg/L	NA
2,4,5-T (2,4,5-Trichlorophenoxy acetic acid)			X	---	NA	NA	NA	NA	NA	NA	NA	NA
TDE (Tetrachlorodiphenylethane)			X	---	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP[2-(2,4,5-Trichlorophenoxy) propanoic acid]			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorfon			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Triethanolamine Dodecylbenzenesulfonate			X	---	NA	NA	NA	NA	NA	NA	NA	NA

SECTION III – LABORATORY ANALYSIS

TABLE V:

TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES

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	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT		MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE		LONG TERM AVERAGE VALUE		CONCEN-TRATION	MASS
					CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS		
Triethylamine			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Trimethylamine			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Uranium			X	---	<500	NA	NA	NA	NA	NA	µg/L	NA
Vanadium			X	---	<5,000	NA	NA	NA	NA	NA	µg/L	NA
Vinyl Acetate			X	---	<10	NA	NA	NA	NA	NA	µg/L	NA
Xylene			X	---	<10	NA	NA	NA	NA	NA	µg/L	NA
Xylenol			X	---	NA	NA	NA	NA	NA	NA	NA	NA
Zirconium			X	---	<30	NA	NA	NA	NA	NA	µg/L	NA

(*) Minimum Quantification Level (MQL)