08-13-15 Name change:SSM H

Sewer Acct. #: **4112195100**

Company: **ST LOUIS UNIVERSITY HOSPITAL**

Address: 3635 & 3655 Vista Ave.

City: St. Louis

State and Zip: MO , 63110

Ind_id	File Code	File Description
64131	31	INDUSTRY OVERFLOW

ACCOUNT NUMBER: **1020548800**

COMPANY NAME: **SSM HEALTH STL UNV HOSP**

CORRESPONDENCE

FROM 12-07-10 THRU 10-24-16

X	CORRESPONDANCE LOCATED IN OVERFLOW INDUSTRY FILE

Scott Rehmer

SSMHealth St Louis Univ. Hosp.
10/25/4880

From: Scott Rehmer
Sent: Monday, October 24, 2016 9:06 AM
To: Doug Mendoza
Subject: FW: SLU Hospital Revised report
Attachments: 5073988_1 PDC_1cert_Revised 10 20 16 1155.pdf; ATT00001.htm

Doug,
In this sample data PDF from **July 2015**, there are three benzidine results < 10 ug/L (p.2,6,10), with the "X" qualifier, which (p.18) is listed as:

Qualifiers

X **Result modified based upon review of spectral and ratio data.**

Hope this helps. Thank you, **Scott M. Rehmer (x.8756)**

From: Thornburg, Leslie [mailto:Leslie.Thornburg@ssmhealth.com]
Sent: Thursday, October 20, 2016 1:44 PM
To: Scott Rehmer
Subject: Fwd: SLUH Revised report

Hi Scott,

Please see the below email from our sampling company. I didn't have the email address for Doug Mendoza and am away from my desk today. I'm hoping this clears up the question about benzidine. I also heard from Donnie Sparks and am working on the IUQ pages that you requested to be completed.

Please let me know if this suffices and what additional information you or Doug may need. Feel free to call me on my cell 8165189214.

Thanks
Leslie Thornburg

Sent from my iPhone

Begin forwarded message:

> **From:** "Barb Pandolfo" <bpandolfo@pdclab.com>
> **To:** "Thornburg, Leslie" <Leslie.Thornburg@ssmhealth.com>
> **Cc:** "Hicks, Robert (robert.hicks@tenethealth.com)" <robert.hicks@tenethealth.com>
> **Subject: Revised report**
>
> I just send over a revised report from 2015. Doug Mendosa from MSD called and talked with Wayne Copper. He felt the benzidine was not correct, that it seemed too high. Wayne reviewed the data and revised the report.
> Leslie you were not on the original report but since you are now taking care of the SLU Hospital I have attached a copy. I think Doug is hoping you will forward this revised report to him today. I cannot send it to him since he is not the client.

If you have any questions please feel free to call Wayne Copper here at the lab and he can explain the situation.
Thank you.

Barbara Pandolfo
Project Manager
D: 314.595.7336 | bpandolfo@pdclab.com

PDC Laboratories, Inc.
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October 20, 2016

Mike Jones
St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110

Dear Mike Jones:

Please find enclosed the **revised** analytical results for the sample(s) the laboratory received on **7/23/15 3:40 pm** and logged in under work order **5073988**. All testing is performed according to our current TNI certifications unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories, Inc.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

PDC Laboratories, Inc. appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the Vice President , John LaPayne with any feedback you have about your experience with our laboratory.

Sincerely,

Barbara G Pandolfo

Barb Pandolfo
Project Manager
(314) 432-0550
bpandolfo@pdclab.com

NELAP ACCREDITED TNI LABORATORY

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

REVISED ANALYTICAL RESULTS

Sample: 5073988-01
Name: MSD 001 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 11:00
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	150	mg/L		07/24/15 10:04	KMN	SM 5210B
COD	370	mg/L		07/29/15 09:40	KMN	SM 5220D
Solids - total suspended solids (TSS)	42	mg/L		07/27/15 16:34	KLA	SM 2540D
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
1,2-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625*
1,3-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625*
1,4-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625*
2,4,5-Trichlorophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625*
2,4,6-Trichlorophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2,4-Dichlorophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2,4-Dimethylphenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2,4-Dinitrophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2,4-Dinitrotoluene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2,6-Dimethylaniline	< 5.00	ug/L		07/28/15 18:03	BP	EPA 625*
2,6-Dinitrotoluene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2-Chloronaphthalene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2-Chlorophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2-Nitrophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
3,3'-Dichlorobenzidine	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
4,6-Dinitro-2-methylphenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625*
4-Bromophenyl phenyl ether	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
4-Chloro-3-methylphenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
4-Chlorophenylphenyl ether	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
4-Nitrophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Acenaphthene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Acenaphthylene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Anthracene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Azobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625*
Benzidine	< 10.0	ug/L	X	07/28/15 18:03	BP	EPA 625*
Benzo(a)anthracene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Benzo(a)pyrene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Benzo(b)fluoranthene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Benzo(g,h,i)perylene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Benzo(k)fluoranthene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Bis(2-chloroethoxy) methane	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Bis(2-chloroethyl) ether	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Bis(2-chloroisopropyl) ether	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Bis(2-ethylhexyl) phthalate	11.0	ug/L		07/28/15 18:03	BP	EPA 625
Butyl benzyl phthalate	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625

PDC Laboratories, Inc.
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REVISED ANALYTICAL RESULTS

Sample: 5073988-01
Name: MSD 001 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 11:00
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Chrysene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Dibenzo(a,h)anthracene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Diethyl phthalate	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Dimethyl phthalate	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Di-n-butyl phthalate	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Di-n-octyl phthalate	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Diphenylamine	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Fluoranthene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Fluorene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Hexachlorobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Hexachlorobutadiene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Hexachlorocyclopentadiene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Hexachloroethane	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Indeno(1,2,3-cd)pyrene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Isophorone	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Naphthalene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Nitrobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
N-Nitrosodimethylamine	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
N-Nitrosodi-n-propylamine	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Pentachlorophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Phenanthrene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Phenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Pyrene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Surrogate: 2-Fluorophenol	*16 %*	*10-71.7*		*07/28/15 18:03*	*BP*	*EPA 625**
Surrogate: Phenol- d5	*12 %*	*10-78.9*		*07/28/15 18:03*	*BP*	*EPA 625**
Surrogate: Nitrobenzene-d5	*55 %*	*18.2-96.8*		*07/28/15 18:03*	*BP*	*EPA 625**
Surrogate: 2-Fluorobiphenyl	*54 %*	*12.9-97.1*		*07/28/15 18:03*	*BP*	*EPA 625**
Surrogate: 2,4,6-Tribromophenol	*46 %*	*10-90.1*		*07/28/15 18:03*	*BP*	*EPA 625**
Surrogate: p-Terphenyl-d14	*57 %*	*17.1-103*		*07/28/15 18:03*	*BP*	*EPA 625**
Total Metals - STL						
Silver	< 0.0020	mg/L		07/28/15 12:39	WPS	EPA 200.7

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REVISED ANALYTICAL RESULTS

Sample: 5073988-02
Name: MSD 001 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 11:00
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.31	pH Units		07/23/15 11:00	LLO	SM*
Temperature, Field Measured	26.6	°C		07/23/15 11:00	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	5.8	mg/L		07/30/15 13:45	KMM	EPA 1664
Phenol	< 0.050	mg/L		07/28/15 12:25	KLA	EPA 420.1
Volatile Organics - STL						
2-Chloroethylvinyl ether	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624*
1,1,1-Trichloroethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,1,2-Trichloroethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,1-Dichloroethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,1-Dichloroethene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,2-Dichlorobenzene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,2-Dichloroethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,2-Dichloropropane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,3-Dichlorobenzene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,4-Dichlorobenzene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Acrolein	< 50	ug/L		07/30/15 16:53	DAS	EPA 624
Acrylonitrile	< 10	ug/L		07/30/15 16:53	DAS	EPA 624
Benzene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Bromodichloromethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Bromoform	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Bromomethane	< 10	ug/L		07/30/15 16:53	DAS	EPA 624
Carbon tetrachloride	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Chlorobenzene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Chloroethane	< 10	ug/L		07/30/15 16:53	DAS	EPA 624
Chloroform	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Chloromethane	< 10	ug/L		07/30/15 16:53	DAS	EPA 624
cis-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Dibromochloromethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Ethylbenzene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
m,p-Xylene	< 10	ug/L		07/30/15 16:53	DAS	EPA 624*
Methylene chloride	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
o-Xylene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624*
Tetrachloroethene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Toluene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
trans-1,2-Dichloroethene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
trans-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Trichloroethene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Trichlorofluoromethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624

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REVISED ANALYTICAL RESULTS

Sample: 5073988-02
Name: MSD 001 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 11:00
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Vinyl chloride	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*80 %*	*63.6-115*		*07/30/15 16:53*	*DAS*	*EPA 624**
Surrogate: Toluene-d8	*79 %*	*67.2-111*		*07/30/15 16:53*	*DAS*	*EPA 624**
Surrogate: Bromofluorobenzene	*93 %*	*62.2-133*		*07/30/15 16:53*	*DAS*	*EPA 624**

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REVISED ANALYTICAL RESULTS

Sample: 5073988-03
Name: MSD 003 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 11:45
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	480	mg/L		07/24/15 10:04	KMN	SM 5210B
COD	680	mg/L		07/29/15 09:41	KMN	SM 5220D
Solids - total suspended solids (TSS)	340	mg/L		07/27/15 16:34	KLA	SM 2540D
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
1,2-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
1,3-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
1,4-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
2,4,5-Trichlorophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
2,4,6-Trichlorophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2,4-Dichlorophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2,4-Dimethylphenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2,4-Dinitrophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2,4-Dinitrotoluene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2,6-Dimethylaniline	< 5.00	ug/L		07/28/15 18:29	BP	EPA 625*
2,6-Dinitrotoluene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2-Chloronaphthalene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2-Chlorophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2-Nitrophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
3,3'-Dichlorobenzidine	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
4,6-Dinitro-2-methylphenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
4-Bromophenyl phenyl ether	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
4-Chloro-3-methylphenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
4-Chlorophenylphenyl ether	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
4-Nitrophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Acenaphthene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Acenaphthylene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Anthracene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Azobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
Benzidine	< 10.0	ug/L	X	07/28/15 18:29	BP	EPA 625*
Benzo(a)anthracene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Benzo(a)pyrene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Benzo(b)fluoranthene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Benzo(g,h,i)perylene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Benzo(k)fluoranthene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Bis(2-chloroethoxy) methane	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Bis(2-chloroethyl) ether	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Bis(2-chloroisopropyl) ether	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Bis(2-ethylhexyl) phthalate	18.4	ug/L		07/28/15 18:29	BP	EPA 625
Butyl benzyl phthalate	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

REVISED ANALYTICAL RESULTS

Sample: 5073988-03
Name: MSD 003 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 11:45
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Chrysene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Dibenzo(a,h)anthracene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Diethyl phthalate	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Dimethyl phthalate	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Di-n-butyl phthalate	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Di-n-octyl phthalate	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Diphenylamine	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Fluoranthene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Fluorene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Hexachlorobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Hexachlorobutadiene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Hexachlorocyclopentadiene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Hexachloroethane	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Indeno(1,2,3-cd)pyrene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Isophorone	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Naphthalene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Nitrobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
N-Nitrosodimethylamine	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
N-Nitrosodi-n-propylamine	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Pentachlorophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Phenanthrene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Phenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Pyrene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Surrogate: 2-Fluorophenol	*16 %*	*10-71.7*		*07/28/15 18:29*	*BP*	*EPA 625**
Surrogate: Phenol- d5	*13 %*	*10-78.9*		*07/28/15 18:29*	*BP*	*EPA 625**
Surrogate: Nitrobenzene-d5	*51 %*	*18.2-96.8*		*07/28/15 18:29*	*BP*	*EPA 625**
Surrogate: 2-Fluorobiphenyl	*53 %*	*12.9-97.1*		*07/28/15 18:29*	*BP*	*EPA 625**
Surrogate: 2,4,6-Tribromophenol	*53 %*	*10-90.1*		*07/28/15 18:29*	*BP*	*EPA 625**
Surrogate: p-Terphenyl-d14	*69 %*	*17.1-103*		*07/28/15 18:29*	*BP*	*EPA 625**

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REVISED ANALYTICAL RESULTS

Sample: 5073988-04
Name: MSD 003 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 11:45
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	7.55	pH Units		07/23/15 11:45	LLO	SM*
Temperature, Field Measured	25.9	°C		07/23/15 11:45	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	12	mg/L		07/30/15 13:46	KMM	EPA 1664
Phenol	< 0.050	mg/L		07/28/15 12:25	KLA	EPA 420.1
Volatile Organics - STL						
2-Chloroethylvinyl ether	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624*
1,1,1-Trichloroethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,1,2-Trichloroethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,1-Dichloroethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,1-Dichloroethene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,2-Dichlorobenzene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,2-Dichloroethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,2-Dichloropropane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,3-Dichlorobenzene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,4-Dichlorobenzene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Acrolein	< 50	ug/L		07/30/15 17:17	DAS	EPA 624
Acrylonitrile	< 10	ug/L		07/30/15 17:17	DAS	EPA 624
Benzene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Bromodichloromethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Bromoform	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Bromomethane	< 10	ug/L		07/30/15 17:17	DAS	EPA 624
Carbon tetrachloride	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Chlorobenzene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Chloroethane	< 10	ug/L		07/30/15 17:17	DAS	EPA 624
Chloroform	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Chloromethane	< 10	ug/L		07/30/15 17:17	DAS	EPA 624
cis-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Dibromochloromethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Ethylbenzene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
m,p-Xylene	< 10	ug/L		07/30/15 17:17	DAS	EPA 624*
Methylene chloride	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
o-Xylene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624*
Tetrachloroethene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Toluene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
trans-1,2-Dichloroethene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
trans-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Trichloroethene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Trichlorofluoromethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624

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REVISED ANALYTICAL RESULTS

Sample: 5073988-04
Name: MSD 003 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 11:45
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Vinyl chloride	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*87 %*	*63.6-115*		*07/30/15 17:17*	*DAS*	*EPA 624**
Surrogate: Toluene-d8	*79 %*	*67.2-111*		*07/30/15 17:17*	*DAS*	*EPA 624**
Surrogate: Bromofluorobenzene	*90 %*	*62.2-133*		*07/30/15 17:17*	*DAS*	*EPA 624**

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REVISED ANALYTICAL RESULTS

Sample: 5073988-05
Name: MSD 002 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 10:30
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	390	mg/L		07/24/15 10:04	KMN	SM 5210B
COD	430	mg/L		07/29/15 09:41	KMN	SM 5220D
Solids - total suspended solids (TSS)	55	mg/L		07/27/15 16:34	KLA	SM 2540D
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
1,2-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625*
1,3-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625*
1,4-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625*
2,4,5-Trichlorophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625*
2,4,6-Trichlorophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2,4-Dichlorophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2,4-Dimethylphenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2,4-Dinitrophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2,4-Dinitrotoluene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2,6-Dimethylaniline	< 5.00	ug/L		07/28/15 18:56	BP	EPA 625*
2,6-Dinitrotoluene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2-Chloronaphthalene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2-Chlorophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2-Nitrophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
3,3'-Dichlorobenzidine	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
4,6-Dinitro-2-methylphenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625*
4-Bromophenyl phenyl ether	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
4-Chloro-3-methylphenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
4-Chlorophenylphenyl ether	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
4-Nitrophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Acenaphthene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Acenaphthylene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Anthracene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Azobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625*
Benzidine	< 10.0	ug/L	X	07/28/15 18:56	BP	EPA 625*
Benzo(a)anthracene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Benzo(a)pyrene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Benzo(b)fluoranthene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Benzo(g,h,i)perylene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Benzo(k)fluoranthene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Bis(2-chloroethoxy) methane	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Bis(2-chloroethyl) ether	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Bis(2-chloroisopropyl) ether	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Bis(2-ethylhexyl) phthalate	12.7	ug/L		07/28/15 18:56	BP	EPA 625
Butyl benzyl phthalate	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625

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REVISED ANALYTICAL RESULTS

Sample: 5073988-05
Name: MSD 002 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 10:30
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Chrysene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Dibenzo(a,h)anthracene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Diethyl phthalate	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Dimethyl phthalate	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Di-n-butyl phthalate	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Di-n-octyl phthalate	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Diphenylamine	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Fluoranthene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Fluorene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Hexachlorobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Hexachlorobutadiene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Hexachlorocyclopentadiene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Hexachloroethane	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Indeno(1,2,3-cd)pyrene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Isophorone	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Naphthalene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Nitrobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
N-Nitrosodimethylamine	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
N-Nitrosodi-n-propylamine	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Pentachlorophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Phenanthrene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Phenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Pyrene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Surrogate: 2-Fluorophenol	*24 %*	*10-71.7*		*07/28/15 18:56*	*BP*	*EPA 625**
Surrogate: Phenol- d5	*18 %*	*10-78.9*		*07/28/15 18:56*	*BP*	*EPA 625**
Surrogate: Nitrobenzene-d5	*53 %*	*18.2-96.8*		*07/28/15 18:56*	*BP*	*EPA 625**
Surrogate: 2-Fluorobiphenyl	*52 %*	*12.9-97.1*		*07/28/15 18:56*	*BP*	*EPA 625**
Surrogate: 2,4,6-Tribromophenol	*59 %*	*10-90.1*		*07/28/15 18:56*	*BP*	*EPA 625**
Surrogate: p-Terphenyl-d14	*59 %*	*17.1-103*		*07/28/15 18:56*	*BP*	*EPA 625**
Total Metals - STL						
Silver	< 0.0020	mg/L		07/28/15 12:47	WPS	EPA 200.7

PDC Laboratories, Inc.
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REVISED ANALYTICAL RESULTS

Sample: 5073988-06
Name: MSD 002 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 10:30
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	7.30	pH Units		07/23/15 10:30	LLO	SM*
Temperature, Field Measured	27.3	°C		07/23/15 10:30	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	19	mg/L		07/30/15 13:47	KMM	EPA 1664
Phenol	< 0.050	mg/L		07/28/15 12:25	KLA	EPA 420.1
Volatile Organics - STL						
2-Chloroethylvinyl ether	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624*
1,1,1-Trichloroethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,1,2-Trichloroethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,1-Dichloroethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,1-Dichloroethene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,2-Dichlorobenzene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,2-Dichloroethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,2-Dichloropropane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,3-Dichlorobenzene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,4-Dichlorobenzene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Acrolein	< 50	ug/L		07/30/15 17:41	DAS	EPA 624
Acrylonitrile	< 10	ug/L		07/30/15 17:41	DAS	EPA 624
Benzene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Bromodichloromethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Bromoform	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Bromomethane	< 10	ug/L		07/30/15 17:41	DAS	EPA 624
Carbon tetrachloride	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Chlorobenzene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Chloroethane	< 10	ug/L		07/30/15 17:41	DAS	EPA 624
Chloroform	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Chloromethane	< 10	ug/L		07/30/15 17:41	DAS	EPA 624
cis-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Dibromochloromethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Ethylbenzene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
m,p-Xylene	< 10	ug/L		07/30/15 17:41	DAS	EPA 624*
Methylene chloride	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
o-Xylene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624*
Tetrachloroethene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Toluene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
trans-1,2-Dichloroethene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
trans-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Trichloroethene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Trichlorofluoromethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624

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REVISED ANALYTICAL RESULTS

Sample: 5073988-06
Name: MSD 002 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 10:30
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Vinyl chloride	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*77 %*	*63.6-115*		*07/30/15 17:41*	*DAS*	*EPA 624**
Surrogate: Toluene-d8	*78 %*	*67.2-111*		*07/30/15 17:41*	*DAS*	*EPA 624**
Surrogate: Bromofluorobenzene	*89 %*	*62.2-133*		*07/30/15 17:41*	*DAS*	*EPA 624**

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REVISED ANALYTICAL RESULTS

Sample: 5073988-07
Name: MSD 005 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 12:15
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	200	mg/L		07/24/15 10:04	KMN	SM 5210B
COD	220	mg/L		07/29/15 09:41	KMN	SM 5220D
Solids - total suspended solids (TSS)	15	mg/L		07/27/15 16:34	KLA	SM 2540D
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
1,2-Dichlorobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
1,3-Dichlorobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
1,4-Dichlorobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
2,4,5-Trichlorophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
2,4,6-Trichlorophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2,4-Dichlorophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2,4-Dimethylphenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2,4-Dinitrophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2,4-Dinitrotoluene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2,6-Dimethylaniline	< 5.00	ug/L		07/28/15 19:23	BP	EPA 625*
2,6-Dinitrotoluene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2-Chloronaphthalene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2-Chlorophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2-Nitrophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
3,3'-Dichlorobenzidine	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
4,6-Dinitro-2-methylphenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
4-Bromophenyl phenyl ether	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
4-Chloro-3-methylphenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
4-Chlorophenylphenyl ether	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
4-Nitrophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Acenaphthene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Acenaphthylene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Anthracene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Azobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
Benzidine	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
Benzo(a)anthracene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Benzo(a)pyrene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Benzo(b)fluoranthene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Benzo(g,h,i)perylene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Benzo(k)fluoranthene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Bis(2-chloroethoxy) methane	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Bis(2-chloroethyl) ether	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Bis(2-chloroisopropyl) ether	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Bis(2-ethylhexyl) phthalate	10.5	ug/L		07/28/15 19:23	BP	EPA 625
Butyl benzyl phthalate	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625

PDC Laboratories, Inc.
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REVISED ANALYTICAL RESULTS

Sample: 5073988-07
Name: MSD 005 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 12:15
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Chrysene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Dibenzo(a,h)anthracene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Diethyl phthalate	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Dimethyl phthalate	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Di-n-butyl phthalate	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Di-n-octyl phthalate	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Diphenylamine	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Fluoranthene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Fluorene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Hexachlorobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Hexachlorobutadiene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Hexachlorocyclopentadiene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Hexachloroethane	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Indeno(1,2,3-cd)pyrene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Isophorone	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Naphthalene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Nitrobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
N-Nitrosodimethylamine	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
N-Nitrosodi-n-propylamine	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Pentachlorophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Phenanthrene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Phenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Pyrene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Surrogate: 2-Fluorophenol	*21 %*	*10-71.7*		*07/28/15 19:23*	*BP*	*EPA 625**
Surrogate: Phenol- d5	*16 %*	*10-78.9*		*07/28/15 19:23*	*BP*	*EPA 625**
Surrogate: Nitrobenzene-d5	*52 %*	*18.2-96.8*		*07/28/15 19:23*	*BP*	*EPA 625**
Surrogate: 2-Fluorobiphenyl	*52 %*	*12.9-97.1*		*07/28/15 19:23*	*BP*	*EPA 625**
Surrogate: 2,4,6-Tribromophenol	*64 %*	*10-90.1*		*07/28/15 19:23*	*BP*	*EPA 625**
Surrogate: p-Terphenyl-d14	*58 %*	*17.1-103*		*07/28/15 19:23*	*BP*	*EPA 625**

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

REVISED ANALYTICAL RESULTS

Sample: 5073988-08
Name: MSD 005 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 12:15
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.28	pH Units		07/23/15 12:15	LLO	SM*
Temperature, Field Measured	25.6	°C		07/23/15 12:15	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	< 5.1	mg/L		07/30/15 13:48	KMM	EPA 1664
Phenol	< 0.050	mg/L		07/28/15 12:25	KLA	EPA 420.1
Volatile Organics - STL						
2-Chloroethylvinyl ether	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624*
1,1,1-Trichloroethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,1,2-Trichloroethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,1-Dichloroethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,1-Dichloroethene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,2-Dichlorobenzene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,2-Dichloroethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,2-Dichloropropane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,3-Dichlorobenzene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,4-Dichlorobenzene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Acrolein	< 50	ug/L		07/30/15 18:04	DAS	EPA 624
Acrylonitrile	< 10	ug/L		07/30/15 18:04	DAS	EPA 624
Benzene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Bromodichloromethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Bromoform	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Bromomethane	< 10	ug/L		07/30/15 18:04	DAS	EPA 624
Carbon tetrachloride	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Chlorobenzene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Chloroethane	< 10	ug/L		07/30/15 18:04	DAS	EPA 624
Chloroform	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Chloromethane	< 10	ug/L		07/30/15 18:04	DAS	EPA 624
cis-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Dibromochloromethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Ethylbenzene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
m,p-Xylene	< 10	ug/L		07/30/15 18:04	DAS	EPA 624*
Methylene chloride	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
o-Xylene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624*
Tetrachloroethene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Toluene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
trans-1,2-Dichloroethene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
trans-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Trichloroethene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Trichlorofluoromethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624

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3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

REVISED ANALYTICAL RESULTS

Sample: 5073988-08
Name: MSD 005 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 12:15
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Vinyl chloride	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*81 %*	*63.6-115*		*07/30/15 18:04*	*DAS*	*EPA 624**
Surrogate: Toluene-d8	*86 %*	*67.2-111*		*07/30/15 18:04*	*DAS*	*EPA 624**
Surrogate: Bromofluorobenzene	*90 %*	*62.2-133*		*07/30/15 18:04*	*DAS*	*EPA 624**

Sample: 5073988-09
Name: MSD 004 Annual Comp.
Matrix: Waste Water

Sampled: 07/23/15 11:15
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	7.33	pH Units		07/23/15 11:15	LLO	SM*
Temperature, Field Measured	35.9	°C		07/23/15 11:15	LLO	SM*
General Chemistry - STL						
BOD	16	mg/L		07/24/15 10:04	KMN	SM 5210B
COD	26	mg/L		07/29/15 09:24	KMN	SM 5220D
Solids - total suspended solids (TSS)	9.2	mg/L		07/27/15 16:34	KLA	SM 2540D

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

NOTES

Specific method revisions used for analysis are available upon request.

Certifications

PIA - Peoria, IL
- TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
- Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
- Missouri Department of Natural Resources Certificate of Approval for Microbiological Laboratory Service No. 870
- Drinking Water Certifications: Iowa (240); Kansas (E-10338); Missouri (870)
- Wastewater Certifications: Arkansas (88-0677); Iowa (240); Kansas (E-10338)
- Hazardous/Solid Waste Certifications: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO
- USEPA DMR-QA Program

STL - St. Louis, MO
- TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
- Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
- Drinking Water Certifications: Missouri (1050)
- Missouri Department of Natural Resources

* Not a TNI accredited analyte

Qualifiers

X Result modified based upon review of spectral and ratio data.

Barbara G Pandolfo

Certified by: Barb Pandolfo, Project Manager

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		07/22-23/2015		07/22-23/2015		07/22-23/2015		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		11:00-11:00		10:30-10:30		11:45-11:45		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW								
Biological Oxygen Demand	*********	C	150	C	390	C	480	mg/l
Chemical Oxygen Demand	********	C	370	C	430	C	680	mg/l
Total Suspended Solids	********	C	42	C	55	C	340	mg/l
Total Phenol	21	G	<0.050	G	<0.050	C	<0.050	mg/l
Oil and Grease	200	G	5.8	G	19	G	12	mg/l
Silver (total)	0.5	C	<0.0020	G	<0.0020			mg/l
pH	5.5-11.5	G	8.31	G	7.30	G	7.55	units
Temperature	60	G	26.6	G	27.3	G	25.9	deg C
Total Toxic Organics	5.844	G,C	0.1053	G,C	0.0745	G,C	0.0684	mg/l

You must complete and sign the certification statements on the second page.

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INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived: _____ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur: _____ I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below: I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Print or type name of signing official: _____ Title: _____ Telephone: _____ Signature: _____ Date: _____

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		07/22-23/2015		07/22-23/2015				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		11:15-11:15		12:15-12:15				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW								
Biological Oxygen Demand	*********	C	16	C	200			mg/l
Chemical Oxygen Demand	********	C	26	C	220			mg/l
Total Suspended Solids	********	C	9.2	C	15			mg/l
Total Phenol	21	G		G	<0.050			mg/l
Oil and Grease	200	G		G	<5.1			mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G	7.33	G	8.26			units
Temperature	60	G	35.9	G	25.6			deg C
Total Toxic Organics	5.844	G,C			0.0605			mg/l

You must complete and sign the certification statements on the second page.

1

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived: _____ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur: _____ I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below: I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Print or type name of signing official: _____ Title: _____ Telephone: _____ Signature: _____ Date: _____

MSD 037994

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

CLIENT	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
St. Louis University Hospital					
ADDRESS: 3635 Vista Ave.	PHONE NUMBER: 314-577-8072	FAX NUMBER:	EMAIL ADDRESS:		LOGIN # 5073988
CITY, STATE, ZIP: St. Louis, MO 63110	SAMPLER: [illegible]		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID		LOGGED BY: KG
CONTACT PERSON: Mr. Bob Hicks	SAMPLER'S SIGNATURE: [illegible]				LAB PROJ #: TEMPLATE: PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles	Phenol (2 bottle)	REMARKS
MSD 001	7/22-23/15	11:00-11:00		X	WW	H2SO4,4C	X							
(Annual)	↓	↓		X	WW	Cool 4C		X						pH = 8.31
				X	WW	HNO3			X					Temp = 26.6°C
				X	WW	Cool 4C					X			
	7/23/15	11:00	X		WW	H2SO4, 4C				X			X	
	↓	↓	X		WW	HCl, 4C						X		
MSD 003	7/22-23/15	11:45-11:45		X	WW	H2SO4,4C	X							pH = 7.55
(Annual)	↓	↓		X	WW	Cool 4C		X						Temp = 25.9°C
				X	WW	Cool 4C					X			
	7/23/15	11:45	X		WW	H2SO4, 4C				X			X	Field Charge
	↓		X		WW	HCl, 4C						X		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ *Fastrak*™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/23/15	15:38	[signature]	7/23/15	15:40
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt: 2.6 degrees C
Chill process started prior to receipt: Y or N
Sample(s) received on ice: Y or N
Proper bottles received in good condition: Y or N
Bottles filled with adequate volume: Y or N
Samples received within hold time(s): Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

MSD 037995

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

CLIENT	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
St. Louis University Hospital					LOGIN # 50739888
ADDRESS: 3635 Vista Ave	PHONE NUMBER: 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGGED BY: KG
CITY/STATE/ZIP: St. Louis, MO 63110	SAMPLER: [redacted]		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID		LAB PROJ #
CONTACT PERSON: Mr. Bob Hicks	SAMPLER'S SIGNATURE: [redacted]				TEMPLATE:
					PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles	Phenol (2 bottle)	REMARKS
MSD 002	7/22-23/15	10:30-10:30		X	WW	H2SO4,4C	X							
(Annual)	↓	↓		X	WW	Cool 4C		X						pH = 7.30
				X	WW	HNO3			X					Temp = 27.3°C
				X	WW	Cool 4C					X			
	7/23/15	10:30	X		WW	H2SO4, 4C				X			X	
	↓	↓	X		WW	HCl, 4C						X		
MSD 005	7/22-23/15	12:15-12:15		X	WW	H2SO4,4C	X							pH = 8.28
(Annual)	↓	↓		X	WW	Cool 4C		X						Temp = 25.6°C
				X	WW	Cool 4C					X			
	7/23/15	12:15	X		WW	H2SO4, 4C				X			X	Field Charge
	↓	↓	X		WW	HCl, 4C						X		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ *Fastrak™* (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature: _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/23/15	15:38	[signature]	7/23/15	15:40
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	6.9 degrees C	
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

MSD 037996

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

CLIENT	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
St. Louis University Hospital					LOGIN # 5073988
ADDRESS: 3635 Vista Ave.	PHONE NUMBER: 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGGED BY: KG
CITY, STATE, ZIP: St. Louis, MO 63110	SAMPLER: [redacted]		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID		LAB PROJ #:
CONTACT PERSON: Mr. Bob Hicks	SAMPLER'S SIGNATURE: [redacted]				TEMPLATE:
					PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS						REMARKS
MSD 004	7/22-23/15	11:15-11:15		X	WW	H2SO4,4C	X							
(Annual)	↓	↓		X	WW	Cool 4C		X						pH = 7.33
														Temp = 35.9°C
														at 11:15
														Field Charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/23/15	15:38	[signature]	7/23/15	15:40
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	6.8 degrees C	
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

Doug Mendoza

1725548800

From: Doug Mendoza
Sent: Thursday, October 20, 2016 11:27 AM
To: John Lodderhose
Cc: Scott Rehmer
Subject: SSM Health St. Louis University Hospital - benzidine

On 10/19/16, I called Wayne Cooper with PDC Labs to discuss PDC's benzidine results for SSM Health St. Louis University Hospital's 7/23/15 samples. Wayne looked up the data, but needed to check further than he could do while we were on the telephone. At the end of that day, Wayne left me a message saying he had additional information and asking me to call him.

On 10/20/16 I called Wayne back. He said that they had drilled into the analytical scans and found that the elution peak ratios were really off, and when looking closely they also were offset some in their placement. Wayne felt fairly confident that these results were not actually benzidine. I asked if a qualifier or comment could be added to the analytical reports. Wayne said that he thought they could add an "X flag" qualifier, which would reference a comment explaining the offset peaks and their ratios. He thought the reports could be regenerated and sent to SSM Health St. Louis University Hospital. For future analyses of SSM Health St. Louis University Hospital, Wayne was going to add a similar note to the project to have these items verified and noted as appropriate.

Once the reports are regenerated and sent to SSM Health St. Louis University Hospital, we will have to get a copy from them if we want one.

---Doug

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION 1020-5488-00

JJM

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ■(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

☑ I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Associate Radiation Safety Officer Telephone: 977-6896

Signature: Date: 10/19/16

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SR
8/24

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 1020548800 - 3 Effective Date: Sep 01, 2015 Expiration Date: Aug 31, 2020

Premise Address: 3635 & 3655 Vista Ave. St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: PDC Labs Lawrence Oliver

Analyses Performed By: PDC Labs

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		7/20 - 7/21/16		7/20 - 7/21/16				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		12:00pm - 12:00pm		11:30am - 11:30am				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW	—	E	14000	E	29000			GPD
BOD	—	C	100	C	220			mg/L
COD	—	C	350	C	600			mg/L
Oil & Grease	200	G	<6.8	G	56			mg/L
Silver	.5	C	<.0020	C	<.0020			mg/L
Temperature	60	G	28.8	G	30.5			DegC
Total Phenols	21	G	.050	G	.050			mg/L
TSS	—	C	140	C	180			mg/L
pH	5.5-11.5	G	7.19	G	7.91			SU
TTO	5.844	C	.6	C	.666			mg/L
							RECEIVED	

You must complete and sign the certification statements on the second page.

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ENVIRONMENTAL COMPLIANCE

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 1020548800 - 3 Effective Date: Sep 01, 2015 Expiration Date: Aug 31, 2020

Premise Address: 3635 & 3655 Vista Ave. St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☑(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: PDC Labs Lawrence Oliver

Analyses Performed By: PDCLabs

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		003		005		004		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		7/20-7/21/16		7/20-7/21/16		7/20/16-7/21/16		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		12:30-12:30		13:30-13:30		13:00-13:00		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW	—	E	8450	E	4300	E	1400	GPD
BOD	—	C	130	C	180	C	50	mg/L
COD	—	C	510	C	470	C	38	mg/L
Oil & Grease	200	G	5.3	G	25	—	N/A	mg/L
Temperature	60	G	27.7	G	28.7	G	27.1	degC
Total Phenols	21	G	.14	G	<.050	—	N/A	mg/L
TSS	—	C	250	C	230	C	6	mg/L
pH	5.5-11.5	G	7.91	G	7.81	G	6.58	SU
TTO	5.844	C	.663	C	.571	—	N/A	mg/L

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You must complete and sign the certification statements on the second page

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS**.

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	BG I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample points, you are required to make the following certification for each report in which such authorized grab samples occur:
	BG I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Rodger Glaus
	Title: Administrative Director - ESSEP Telephone: 314-989-2155
	Signature: Rodger Glaus Date: 8-16-16

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ENVIRONMENTAL COMPLIANCE

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6073639-01
Name: MSD 001 Comp
Matrix: Waste Water - Composite

Sampled: 07/21/16 12:00
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
General Chemistry - STL							
BOD	100	mg/L		07/22/16 08:56	07/22/16 08:56	HKR	SM 5210B
COD	350	mg/L		07/26/16 13:18	07/26/16 14:45	KLA	SM 5220D
Solids - total suspended solids (TSS)	140	mg/L		07/22/16 14:23	07/22/16 14:27	NMS	SM 2540D
Semivolatile Organics - PIA							
1,2,4-Trichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
1,2-Dichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
1,2-Diphenylhydrazine	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625*
1,3-Dichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
1,4-Dichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
2,3,7,8-TCDD Screen	< 50	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625*
2,4,6-Trichlorophenol	< 50	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
2,4-Dichlorophenol	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
2,4-Dimethylphenol	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
2,4-Dinitrophenol	< 50	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
2,4-Dinitrotoluene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
2,6-Dinitrotoluene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
2-Chloronaphthalene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
2-Chlorophenol	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
2-Nitrophenol	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
3,3'-Dichlorobenzidine	< 20	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625*
4,6-Dinitro-2-methylphenol	< 50	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
4-Bromophenyl phenyl ether	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
4-Chloro-3-methylphenol	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
4-Chlorophenylphenyl ether	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
4-Nitrophenol	< 50	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Acenaphthene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Acenaphthylene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Anthracene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Benzidine	< 80	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Benzo(a)anthracene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Benzo(a)pyrene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Benzo(b)fluoranthene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Benzo(g,h,i)perylene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Benzo(k)fluoranthene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Bis(2-chloroethoxy) methane	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Bis(2-chloroethyl) ether	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Bis(2-chloroisopropyl) ether	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Bis(2-ethylhexyl) phthalate	23	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Butyl benzyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Chrysene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625

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DIVISION OF
ENVIRONMENTAL COMPLIANCE

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6073639-01
Name: MSD 001 Comp
Matrix: Waste Water - Composite

Sampled: 07/21/16 12:00
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Dibenzo(a,h)anthracene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Diethyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Dimethyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Di-n-butyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Di-n-octyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Fluoranthene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Fluorene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Hexachlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Hexachlorobutadiene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Hexachlorocyclopentadiene	< 50	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Hexachloroethane	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Indeno(1,2,3-cd)pyrene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Isophorone	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Naphthalene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Nitrobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
N-Nitrosodimethylamine	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
N-Nitrosodi-n-propylamine	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
N-Nitrosodiphenylamine	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Pentachlorophenol	< 50	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Phenanthrene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Phenol	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Pyrene	< 10	ug/L		07/25/16 07:59	07/27/16 17:21	psb	EPA 625
Total Metals - STL							
Silver	< 0.0020	mg/L		07/21/16 16:30	07/22/16 10:02	WPS	EPA 200.7

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PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6073639-02
Name: MSD 001 Grab
Matrix: Waste Water - Grab

Sampled: 07/21/16 12:00
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Field - STL							
pH	7.19	pH Units		07/21/16 12:00	07/21/16 12:00	LLO	SM*
Temperature, Field Measured	28.8	°C		07/21/16 12:00	07/21/16 12:00	LLO	SM*
General Chemistry - STL							
Field Flow	14000	GPD		07/21/16 12:00	07/21/16 12:00	LLO	varies*
Oil & Grease - total	< 6.8	mg/L		07/29/16 09:21	07/29/16 15:25	KLA	EPA 1664
Phenol	0.050	mg/L		07/25/16 09:45	07/25/16 12:00	KMM	EPA 420.1
Volatile Organics - PIA							
1,1,1-Trichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
1,1,2-Trichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
1,1-Dichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
1,1-Dichloroethene	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
1,2-Dichlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
1,2-Dichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
1,2-Dichloropropane	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
1,3-Dichlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
1,3-Dichloropropene - Total	< 15	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624*
1,4-Dichlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Acrolein	< 50	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Acrylonitrile	< 50	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Benzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Bromodichloromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Bromoform	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Bromomethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Carbon tetrachloride	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Chlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Chloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Chloroform	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Chloromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
cis-1,3-Dichloropropene	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Dibromochloromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Ethylbenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Methylene chloride	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Tetrachloroethene	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Toluene	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
trans-1,2-Dichloroethene	< 20	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
trans-1,3-Dichloropropene	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Trichloroethene	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Trichlorofluoromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624
Vinyl chloride	< 5.0	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624

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ENVIRONMENTAL COMPLIANCE

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6073639-02
Name: MSD 001 Grab
Matrix: Waste Water - Grab

Sampled: 07/21/16 12:00
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Xylenes- Total	< 15	ug/L		07/25/16 00:00	07/25/16 19:46	MAB	EPA 624

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DIVISION OF
ENVIRONMENTAL COMPLIANCE

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6073639-03
Name: MSD 003 Comp
Matrix: Waste Water - Composite

Sampled: 07/21/16 12:30
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
General Chemistry - STL							
BOD	130	mg/L		07/22/16 08:58	07/22/16 08:58	HKR	SM 5210B
COD	510	mg/L		07/26/16 13:18	07/26/16 14:45	KLA	SM 5220D
Solids - total suspended solids (TSS)	250	mg/L		07/22/16 14:23	07/22/16 14:27	NMS	SM 2540D
Semivolatile Organics - PIA							
1,2,4-Trichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
1,2-Dichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
1,2-Diphenylhydrazine	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625*
1,3-Dichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
1,4-Dichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
2,3,7,8-TCDD Screen	< 50	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625*
2,4,6-Trichlorophenol	< 50	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
2,4-Dichlorophenol	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
2,4-Dimethylphenol	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
2,4-Dinitrophenol	< 50	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
2,4-Dinitrotoluene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
2,6-Dinitrotoluene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
2-Chloronaphthalene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
2-Chlorophenol	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
2-Nitrophenol	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
3,3'-Dichlorobenzidine	< 20	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625*
4,6-Dinitro-2-methylphenol	< 50	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
4-Bromophenyl phenyl ether	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
4-Chloro-3-methylphenol	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
4-Chlorophenylphenyl ether	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
4-Nitrophenol	< 50	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Acenaphthene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Acenaphthylene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Anthracene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Benzidine	< 80	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Benzo(a)anthracene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Benzo(a)pyrene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Benzo(b)fluoranthene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Benzo(g,h,i)perylene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Benzo(k)fluoranthene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Bis(2-chloroethoxy) methane	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Bis(2-chloroethyl) ether	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Bis(2-chloroisopropyl) ether	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Bis(2-ethylhexyl) phthalate	63	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Butyl benzyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Chrysene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625

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PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6073639-03
Name: MSD 003 Comp
Matrix: Waste Water - Composite

Sampled: 07/21/16 12:30
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Dibenzo(a,h)anthracene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Diethyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Dimethyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Di-n-butyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Di-n-octyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Fluoranthene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Fluorene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Hexachlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Hexachlorobutadiene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Hexachlorocyclopentadiene	< 50	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Hexachloroethane	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Indeno(1,2,3-cd)pyrene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Isophorone	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Naphthalene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Nitrobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
N-Nitrosodimethylamine	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
N-Nitrosodi-n-propylamine	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
N-Nitrosodiphenylamine	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Pentachlorophenol	< 50	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Phenanthrene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Phenol	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625
Pyrene	< 10	ug/L		07/25/16 07:59	07/27/16 17:50	psb	EPA 625

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3278 North Highway 67
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ANALYTICAL RESULTS

Sample: 6073639-04
Name: MSD 003 Grab
Matrix: Waste Water - Grab

Sampled: 07/21/16 12:30
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Field - STL							
pH	7.91	pH Units		07/21/16 12:30	07/21/16 12:30	LLO	SM*
Temperature, Field Measured	27.7	°C		07/21/16 12:30	07/21/16 12:30	LLO	SM*
General Chemistry - STL							
Field Flow	8400	GPD		07/21/16 12:30	07/21/16 12:30	LLO	varies*
Oil & Grease - total	5.3	mg/L		07/29/16 09:21	07/29/16 15:52	KLA	EPA 1664
Phenol	0.14	mg/L		07/25/16 09:45	07/25/16 12:00	KMM	EPA 420.1
Volatile Organics - PIA							
1,1,1-Trichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
1,1,2-Trichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
1,1-Dichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
1,1-Dichloroethene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
1,2-Dichlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
1,2-Dichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
1,2-Dichloropropane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
1,3-Dichlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
1,3-Dichloropropene - Total	< 15	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624*
1,4-Dichlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Acrolein	< 50	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Acrylonitrile	< 50	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Benzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Bromodichloromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Bromoform	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Bromomethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Carbon tetrachloride	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Chlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Chloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Chloroform	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Chloromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
cis-1,3-Dichloropropene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Dibromochloromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Ethylbenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Methylene chloride	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Tetrachloroethene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Toluene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
trans-1,2-Dichloroethene	< 20	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
trans-1,3-Dichloropropene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Trichloroethene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Trichlorofluoromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624
Vinyl chloride	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624

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3278 North Highway 67
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ANALYTICAL RESULTS

Sample: 6073639-04
Name: MSD 003 Grab
Matrix: Waste Water - Grab

Sampled: 07/21/16 12:30
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Xylenes- Total	< 15	ug/L		07/25/16 00:00	07/25/16 20:14	MAB	EPA 624

Sample: 6073639-05
Name: MSD 004 Comp
Matrix: Waste Water - Composite

Sampled: 07/21/16 13:00
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Field - STL							
pH	6.58	pH Units		07/21/16 13:00	07/21/16 13:00	LLO	SM*
Temperature, Field Measured	27.1	°C		07/21/16 13:00	07/21/16 13:00	LLO	SM*
General Chemistry - STL							
BOD	50	mg/L		07/22/16 09:01	07/22/16 09:01	HKR	SM 5210B
COD	38	mg/L		07/26/16 13:15	07/26/16 15:49	KLA	SM 5220D
Field Flow	1400	GPD		07/21/16 13:00	07/21/16 13:00	LLO	varies*
Solids - total suspended solids (TSS)	6.0	mg/L		07/22/16 14:23	07/22/16 14:27	NMS	SM 2540D

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ANALYTICAL RESULTS

Sample: 6073639-06
Name: MSD 002 Comp
Matrix: Waste Water - Composite

Sampled: 07/21/16 11:30
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
General Chemistry - STL							
BOD	220	mg/L		07/22/16 09:03	07/22/16 09:03	HKR	SM 5210B
COD	600	mg/L		07/26/16 13:18	07/26/16 14:45	KLA	SM 5220D
Solids - total suspended solids (TSS)	180	mg/L		07/22/16 14:23	07/22/16 14:27	NMS	SM 2540D
Semivolatile Organics - PIA							
1,2,4-Trichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
1,2-Dichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
1,2-Diphenylhydrazine	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625*
1,3-Dichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
1,4-Dichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
2,3,7,8-TCDD Screen	< 50	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625*
2,4,6-Trichlorophenol	< 50	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
2,4-Dichlorophenol	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
2,4-Dimethylphenol	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
2,4-Dinitrophenol	< 50	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
2,4-Dinitrotoluene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
2,6-Dinitrotoluene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
2-Chloronaphthalene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
2-Chlorophenol	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
2-Nitrophenol	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
3,3'-Dichlorobenzidine	< 20	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625*
4,6-Dinitro-2-methylphenol	< 50	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
4-Bromophenyl phenyl ether	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
4-Chloro-3-methylphenol	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
4-Chlorophenylphenyl ether	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
4-Nitrophenol	< 50	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Acenaphthene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Acenaphthylene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Anthracene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Benzidine	< 80	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Benzo(a)anthracene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Benzo(a)pyrene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Benzo(b)fluoranthene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Benzo(g,h,i)perylene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Benzo(k)fluoranthene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Bis(2-chloroethoxy) methane	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Bis(2-chloroethyl) ether	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Bis(2-chloroisopropyl) ether	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Bis(2-ethylhexyl) phthalate	66	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Butyl benzyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Chrysene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625

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PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6073639-06
Name: MSD 002 Comp
Matrix: Waste Water - Composite

Sampled: 07/21/16 11:30
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Dibenzo(a,h)anthracene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Diethyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Dimethyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Di-n-butyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Di-n-octyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Fluoranthene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Fluorene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Hexachlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Hexachlorobutadiene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Hexachlorocyclopentadiene	< 50	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Hexachloroethane	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Indeno(1,2,3-cd)pyrene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Isophorone	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Naphthalene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Nitrobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
N-Nitrosodimethylamine	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
N-Nitrosodi-n-propylamine	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
N-Nitrosodiphenylamine	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Pentachlorophenol	< 50	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Phenanthrene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Phenol	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Pyrene	< 10	ug/L		07/25/16 07:59	07/27/16 18:19	psb	EPA 625
Total Metals - STL							
Silver	< 0.0020	mg/L		07/21/16 16:30	07/22/16 10:04	WPS	EPA 200.7

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3278 North Highway 67
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ANALYTICAL RESULTS

Sample: 6073639-07
Name: MSD 002 Grab
Matrix: Waste Water - Grab

Sampled: 07/21/16 11:30
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Field - STL							
pH	7.91	pH Units		07/21/16 11:30	07/21/16 11:30	LLO	SM*
Temperature, Field Measured	30.5	°C		07/21/16 11:30	07/21/16 11:30	LLO	SM*
General Chemistry - STL							
Field Flow	29000	GPD		07/21/16 11:30	07/21/16 11:30	LLO	varies*
Oil & Grease - total	56	mg/L		07/29/16 09:21	07/29/16 16:26	KLA	EPA 1664
Phenol	0.050	mg/L		07/25/16 09:45	07/25/16 12:00	KMM	EPA 420.1
Volatile Organics - PIA							
1,1,1-Trichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
1,1,2-Trichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
1,1-Dichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
1,1-Dichloroethene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
1,2-Dichlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
1,2-Dichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
1,2-Dichloropropane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
1,3-Dichlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
1,3-Dichloropropene - Total	< 15	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624*
1,4-Dichlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Acrolein	< 50	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Acrylonitrile	< 50	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Benzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Bromodichloromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Bromoform	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Bromomethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Carbon tetrachloride	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Chlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Chloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Chloroform	6.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Chloromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
cis-1,3-Dichloropropene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Dibromochloromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Ethylbenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Methylene chloride	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Tetrachloroethene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Toluene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
trans-1,2-Dichloroethene	< 20	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
trans-1,3-Dichloropropene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Trichloroethene	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Trichlorofluoromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624
Vinyl chloride	< 5.0	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624

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PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6073639-07
Name: MSD 002 Grab
Matrix: Waste Water - Grab

Sampled: 07/21/16 11:30
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Xylenes- Total	< 15	ug/L		07/25/16 00:00	07/25/16 20:41	MAB	EPA 624

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PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6073639-08
Name: MSD 005 Comp
Matrix: Waste Water - Composite

Sampled: 07/21/16 13:30
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
General Chemistry - STL							
BOD	180	mg/L		07/22/16 09:04	07/22/16 09:04	HKR	SM 5210B
COD	470	mg/L		07/26/16 13:18	07/26/16 14:46	KLA	SM 5220D
Solids - total suspended solids (TSS)	230	mg/L		07/22/16 14:23	07/22/16 14:27	NMS	SM 2540D
Semivolatile Organics - PIA							
1,2,4-Trichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
1,2-Dichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
1,2-Diphenylhydrazine	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625*
1,3-Dichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
1,4-Dichlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
2,3,7,8-TCDD Screen	< 50	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625*
2,4,6-Trichlorophenol	< 50	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
2,4-Dichlorophenol	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
2,4-Dimethylphenol	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
2,4-Dinitrophenol	< 50	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
2,4-Dinitrotoluene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
2,6-Dinitrotoluene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
2-Chloronaphthalene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
2-Chlorophenol	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
2-Nitrophenol	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
3,3'-Dichlorobenzidine	< 20	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625*
4,6-Dinitro-2-methylphenol	< 50	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
4-Bromophenyl phenyl ether	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
4-Chloro-3-methylphenol	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
4-Chlorophenylphenyl ether	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
4-Nitrophenol	< 50	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Acenaphthene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Acenaphthylene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Anthracene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Benzidine	< 80	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Benzo(a)anthracene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Benzo(a)pyrene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Benzo(b)fluoranthene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Benzo(g,h,i)perylene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Benzo(k)fluoranthene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Bis(2-chloroethoxy) methane	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Bis(2-chloroethyl) ether	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Bis(2-chloroisopropyl) ether	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Bis(2-ethylhexyl) phthalate	54	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Butyl benzyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Chrysene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625

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PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6073639-08
Name: MSD 005 Comp
Matrix: Waste Water - Composite

Sampled: 07/21/16 13:30
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Dibenzo(a,h)anthracene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Diethyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Dimethyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Di-n-butyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Di-n-octyl phthalate	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Fluoranthene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Fluorene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Hexachlorobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Hexachlorobutadiene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Hexachlorocyclopentadiene	< 50	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Hexachloroethane	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Indeno(1,2,3-cd)pyrene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Isophorone	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Naphthalene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Nitrobenzene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
N-Nitrosodimethylamine	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
N-Nitrosodi-n-propylamine	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
N-Nitrosodiphenylamine	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Pentachlorophenol	< 50	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Phenanthrene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Phenol	17	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625
Pyrene	< 10	ug/L		07/25/16 07:59	07/27/16 18:48	psb	EPA 625

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PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6073639-09
Name: MSD 005 Grab
Matrix: Waste Water - Grab

Sampled: 07/21/16 13:30
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Field - STL							
pH	7.81	pH Units		07/21/16 13:30	07/21/16 13:30	LLO	SM*
Temperature, Field Measured	28.7	°C		07/21/16 13:30	07/21/16 13:30	LLO	SM*
General Chemistry - STL							
Field Flow	4300	GPD		07/21/16 13:30	07/21/16 13:30	LLO	varies*
Oil & Grease - total	25	mg/L		07/29/16 09:21	07/29/16 16:25	KLA	EPA 1664
Phenol	< 0.050	mg/L		07/25/16 09:45	07/25/16 12:00	KMM	EPA 420.1
Volatile Organics - PIA							
1,1,1-Trichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
1,1,2-Trichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
1,1-Dichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
1,1-Dichloroethene	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
1,2-Dichlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
1,2-Dichloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
1,2-Dichloropropane	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
1,3-Dichlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
1,3-Dichloropropene - Total	< 15	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624*
1,4-Dichlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Acrolein	< 50	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Acrylonitrile	< 50	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Benzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Bromodichloromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Bromoform	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Bromomethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Carbon tetrachloride	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Chlorobenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Chloroethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Chloroform	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Chloromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
cis-1,3-Dichloropropene	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Dibromochloromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Ethylbenzene	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Methylene chloride	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Tetrachloroethene	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Toluene	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
trans-1,2-Dichloroethene	< 20	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
trans-1,3-Dichloropropene	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Trichloroethene	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Trichlorofluoromethane	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624
Vinyl chloride	< 5.0	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624

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PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6073639-09
Name: MSD 005 Grab
Matrix: Waste Water - Grab

Sampled: 07/21/16 13:30
Received: 07/21/16 14:50

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
Xylenes- Total	< 15	ug/L		07/25/16 00:00	07/25/16 21:09	MAB	EPA 624

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METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION 1020-5488-00

Company Name: SSM **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ■(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KF I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Associate Radiation Safety Officer Telephone: 977-6896

Signature: Date: 7/18/16

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ENVIRONMENTAL COMPLIANCE

SR
5/20

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

SSM HEALTH

1020-5488-00

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		05/05-06/2016		05/05-06/2016		05/05-06/2016		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		12:45-12:45		12:30-12:30		13:15-13:15		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			90K		55K		8K	GPD
Biological Oxygen Demand	*********	C	120	C	400	C	180	mg/l
Chemical Oxygen Demand	********	C	370	C	1000	C	550	mg/l
Total Suspended Solids	********	C	72	C	260	C	100	mg/l
Total Phenol	21	G	0.11	G	0.081	G	0.20	mg/l
Oil and Grease	200	G	13	G	52	G	32	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020			mg/l
pH	5.5-11.5	G	8.08	G	8.05	G	8.12	units
Temperature	60	G	23.3	G	26.8	G	8.12	deg C
Total Toxic Organics	5.844	G,C						mg/l
PER pc w/ Bob Hicks, use flow								
numbers from last quarter.								
5/20/16 SR								

You must complete and sign the certification statements on the second page.

1

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨				05/05-06/2016				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨				13:30-13:30				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			600		3K			GPD
Biological Oxygen Demand	*********	C		C	150			mg/l
Chemical Oxygen Demand	********	C		C	650			mg/l
Total Suspended Solids	********	C		C	270			mg/l
Total Phenol	21	G		G	0.20			mg/l
Oil and Grease	200	G		G	8.2			mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G		G	8.08			units
Temperature	60	G		G	22.1			deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

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INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hicks
	Title: Director Building Services Telephone: 314-577-8072
	Signature: Robert Hicks Date: 5/19/16

2

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6051157-01
Name: MSD 001 Comp
Matrix: Waste Water - Composite
Sampled: 05/06/16 12:45
Received: 05/06/16 15:07

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	120	mg/L		05/07/16 13:15	KLA	SM 5210B
COD	370	mg/L		05/12/16 14:33	KLA	SM 5220D
Solids - total suspended solids (TSS)	72	mg/L		05/11/16 10:11	KLA	SM 2540D
Total Metals - STL						
Silver	< 0.0020	mg/L		05/10/16 12:27	WPS	EPA 200.7

Sample: 6051157-02
Name: MSD 001 Grab
Matrix: Waste Water - Grab
Sampled: 05/06/16 12:45
Received: 05/06/16 15:07

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.08	pH Units		05/06/16 12:45	LLO	SM*
Temperature, Field Measured	23.3	°C		05/06/16 12:45	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	13	mg/L		05/11/16 08:15	JPA	EPA 1664
Phenol	0.11	mg/l		05/18/16 11:17	KMM	EPA 420.1

Sample: 6051157-03
Name: MSD 002 Comp
Matrix: Waste Water - Composite
Sampled: 05/06/16 12:30
Received: 05/06/16 15:07

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	400	mg/L		05/07/16 13:19	KLA	SM 5210B
COD	1000	mg/L		05/12/16 14:35	KLA	SM 5220D
Solids - total suspended solids (TSS)	260	mg/L		05/11/16 10:11	KLA	SM 2540D
Total Metals - STL						
Silver	< 0.0020	mg/L		05/10/16 12:48	WPS	EPA 200.7

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6051157-04
Name: MSD 002 Grab
Matrix: Waste Water - Grab
Sampled: 05/06/16 12:30
Received: 05/06/16 15:07

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.05	pH Units		05/06/16 12:30	LLO	SM*
Temperature, Field Measured	26.8	°C		05/06/16 12:30	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	52	mg/L		05/11/16 08:15	JPA	EPA 1664
Phenol	0.081	mg/L		05/18/16 11:17	KMM	EPA 420.1

Sample: 6051157-05
Name: MSD 003 Comp
Matrix: Waste Water - Composite
Sampled: 05/06/16 13:15
Received: 05/06/16 15:07

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	180	mg/L		05/07/16 13:21	KLA	SM 5210D
COD	550	mg/L		05/12/16 14:35	KLA	SM 5220D
Solids - total suspended solids (TSS)	100	mg/L		05/11/16 10:11	KLA	SM 2540D

Sample: 6051157-06
Name: MSD 003 Grab
Matrix: Waste Water - Grab
Sampled: 05/06/16 13:15
Received: 05/06/16 15:07

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.12	pH Units		05/06/16 13:15	LLO	SM*
Temperature, Field Measured	23.7	°C		05/06/16 13:15	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	32	mg/L		05/11/16 08:15	JPA	EPA 1664
Phenol	0.20	mg/L		05/18/16 11:17	KMM	EPA 420.1

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6051157-07
Name: MSD 005 Comp
Matrix: Waste Water - Composite

Sampled: 05/06/16 13:30
Received: 05/06/16 15:07

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	150	mg/L	H	05/16/16 12:37	KLA	SM 5210B
COD	650	mg/L		05/12/16 14:35	KLA	SM 5220D
Solids - total suspended solids (TSS)	270	mg/L		05/11/16 10:11	KLA	SM 2540D

Sample: 6051157-08
Name: MSD 005 Grab
Matrix: Waste Water - Grab

Sampled: 05/06/16 13:30
Received: 05/06/16 15:07

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.08	pH Units		05/06/16 13:30	LLO	SM*
Temperature, Field Measured	22.1	°C		05/06/16 13:30	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	8.2	mg/L		05/11/16 08:15	JPA	EPA 1664
Phenol	0.20	mg/L		05/16/16 11:17	KMM	EPA 420.1

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
[redacted]					LOGIN # 605157
[redacted]	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGGED BY: HG
[redacted]			MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID		LAB PROJ #, TEMPLATE:, PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	5/5-6/16	12:45-12:45		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.08
				X	WW	HNO3			X					Temp = 23.3°C
	5/6/16	12:45	X		WW	HCl, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
MSD 002	5/5-6/16	12:30-12:30		X	WW	H2SO4,4C	X							pH = 8.05
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 26.8C
				X	WW	HNO3			X					
	5/6/16	12:30	X		WW	HCl, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	5/6/16	15:07	Heather Lenhart	5/6/16	15:07
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	8.6	Degrees C
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.emironmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
[redacted]					
[redacted]	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN # LOGGED BY: LAB PROJ # TEMPLATE: PROJ. MGR:
[redacted]			MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID		

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	5/5-6/16	13:15-13:15		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.12
	5/6/16	13:15	X		WW	HCl, 4C				X				Temp = 23.7°C
	↓	↓	X		WW	H2SO4, 4C					X			
MSD 005	5/5-6/16	13:30-13:30		X	WW	H2SO4,4C	X							pH = 8.08
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 22.1°C
	5/6/16	13:30	X		WW	HCl, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	5/6/16	15:07	[signature]	5/6/16	15:07
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	_____ degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION 1020-5488-00

Company Name: **Saint Louis University Hospital** SSM
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ■(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KF I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Associate Radiation Safety Officer Telephone: 977-6896

Signature: Date: 4/20/16

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ENVIRONMENTAL COMPLIANCE

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

SSM Health

PART I: IDENTIFYING INFORMATION 1020-5488-00

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☒(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		01/14-15/2016		01/14-15/2016		01/14-15/2016		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		12:40-12:40		12:15-12:15		13:00-13:00		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			90K		55K		8K	GPD
Biological Oxygen Demand	*********	C	78	C	270	C	120	mg/l
Chemical Oxygen Demand	********	C	320	C	490	C	430	mg/l
Total Suspended Solids	********	C	34	C	48	C	68	mg/l
Total Phenol	21	G	0.073	G	0.058	C	0.17	mg/l
Oil and Grease	200	G	6.2	G	<6.3	G	5.0	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020			mg/l
pH	5.5-11.5	G	8.33	G	8.11	G	8.19	units
Temperature	60	G	15.3	G	21.2	G	17.4	deg C
Total Toxic Organics	5.844	G,C						mg/l
provided per pc w/ R. Hicks on 2/4/16. SR								

You must complete and sign the certification statements on the second page.

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ENVIRONMENTAL COMPLIANCE

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☒(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨				01/14-15/2016				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨				13:15-13:15				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			600		3K			GPD
Biological Oxygen Demand	*********	C		C	160			mg/l
Chemical Oxygen Demand	********	C		C	430			mg/l
Total Suspended Solids	********	C		C	79			mg/l
Total Phenol	21	G		G	0.15			mg/l
Oil and Grease	200	G		G	<5.4			mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G		G	8.61			units
Temperature	60	G		G	13.5			deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

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ENVIRONMENTAL COMPLIANCE

Q1
2016

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

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	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hick
	Title: Director Building Service Telephone: 314-577-8072
	Signature: [signature] Date: 2-4-16

2

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FEB 04 2016

DIVISION OF
ENVIRONMENTAL COMPLIANCE

MSD 038030

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6012248-01
Name: MSD 001 Comp
Matrix: Waste Water - Composite
Sampled: 01/15/16 12:40
Received: 01/15/16 14:00

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	78	mg/L	X	01/15/16 12:40	KMN/H	SM 5210B
COD	320	mg/L		01/21/16 08:44	KLA	SM 5220D
Solids - total suspended solids (TSS)	34	mg/L		01/19/16 15:00	MJT	SM 2540D
Total Metals - STL						
Silver	< 0.0020	mg/L		01/18/16 15:00	WPS	EPA 200.7

Sample: 6012248-02
Name: MSD 001 Grab
Matrix: Waste Water - Grab
Sampled: 01/15/16 12:40
Received: 01/15/16 14:00

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.33	pH Units		01/15/16 12:40	LLO	SM*
Temperature, Field Measured	15.3	°C		01/15/16 12:40	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	6.2	mg/L		01/19/16 16:14	JPA	EPA 1664
Phenol	0.073	mg/L		01/26/16 16:06	KMM	EPA 420.1

Sample: 6012248-03
Name: MSD 002 Comp.
Matrix: Waste Water - Composite
Sampled: 01/15/16 12:15
Received: 01/15/16 14:00

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	270	mg/L	X	01/15/16 12:15	KMN/H	SM 5210B
COD	490	mg/L		01/21/16 08:44	KLA	SM 5220D
Solids - total suspended solids (TSS)	48	mg/L		01/19/16 15:00	MJT	SM 2540D
Total Metals - STL						
Silver	< 0.0020	mg/L		01/18/16 15:02	WPS	EPA 200.7

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FEB 04 2016
DIVISION OF
ENVIRONMENTAL COMPLIANCE

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 6012248-04
Name: MSD 002 Grab
Matrix: Waste Water - Grab
Sampled: 01/15/16 12:15
Received: 01/15/16 14:00

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.11	pH Units		01/15/16 12:15	LLO	SM*
Temperature, Field Measured	21.2	°C		01/15/16 12:15	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	< 6.3	mg/L		01/18/16 07:59	JPA	EPA 1664
Phenol	0.058	mg/L		01/26/16 16:06	KMM	EPA 420.1

Sample: 6012248-05
Name: MSD 003 Comp.
Matrix: Waste Water - Composite
Sampled: 01/15/16 13:00
Received: 01/15/16 14:00

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	120	mg/L	X	01/15/16 13:00	HKR	SM 5210B
COD	430	mg/L		01/21/16 08:44	KLA	SM 5220D
Solids - total suspended solids (TSS)	68	mg/L		01/19/16 15:00	MJT	SM 2540D

Sample: 6012248-06
Name: MSD 003 Grab
Matrix: Waste Water - Grab
Sampled: 01/15/16 13:00
Received: 01/15/16 14:00

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.19	pH Units		01/15/16 13:00	LLO	SM*
Temperature, Field Measured	17.4	°C		01/15/16 13:00	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	5.0	mg/L		01/18/16 08:07	JPA	EPA 1664
Phenol	0.17	mg/L		01/26/16 16:06	KMM	EPA 420.1

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ANALYTICAL RESULTS

Sample: 6012248-07
Name: MSD 005 Comp.
Matrix: Waste Water - Composite

Sampled: 01/15/16 13:15
Received: 01/15/16 14:00

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	160	mg/L	X	01/15/16 13:15	HKR	SM 5210B
COD	430	mg/L		01/21/16 08:44	KLA	SM 5220D
Solids - total suspended solids (TSS)	79	mg/L		01/19/16 15:00	MJT	SM 2540D

Sample: 6012248-08
Name: MSD 005 Grab
Matrix: Waste Water - Grab

Sampled: 01/15/16 13:15
Received: 01/15/16 14:00

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.61	pH Units		01/15/16 13:15	LLO	SM*
Temperature, Field Measured	13.5	°C		01/15/16 13:15	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	< 5.4	mg/L		01/18/16 08:11	JPA	EPA 1664
Phenol	0.15	mg/L		01/26/16 16:06	KMM	EPA 420.1

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NOTES

Specific method revisions used for analysis are available upon request.

Certifications

PIA - Peoria, IL
- TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
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SPMO - Springfield, MO
- USEPA DMR-QA Program

STL - St. Louis, MO
- TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
- Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
- Drinking Water Certifications: Missouri (1050)
- Missouri Department of Natural Resources

* Not a TNI accredited analyte

Qualifiers

X Polyseed values were low, causing the primary QC GGA to fail low. However, the secondary QCI was within acceptance criteria.

Barbara A. Pandolfo

Certified by: Barb Pandolfo, Project Manager

MSD 038035

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CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[redacted]	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED
	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS
	[redacted]		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

ANALYSIS REQUESTED

(FOR LAB USE ONLY)
LOGIN # 6012248
LOGGED BY: AE
LAB PROJ #
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	1/14-15/16	12:40-12:40		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.33
				x	WW	HNO3			x					Temp = 15.3°C
	1/15/16	12:40	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 002	1/14-15/16	12:15-12:15		x	WW	H2SO4,4C	X							pH = 8.11
(Quarterly)	↓	↓		x	WW	Cool 4C		x						Temp = 21.2°C
				x	WW	HNO3			x					
	1/15/16	12:15	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ *Fastrak*™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	1/15/16	14:00	A Cotten Cearlcall	1/15/16	14:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	5.6 degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

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CHAIN OF CUSTODY RECORD

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Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[redacted]	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED
	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS	
	SAMPLER: [redacted]		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID	

(FOR LAB USE ONLY)
LOGIN #
LOGGED BY:
LAB PROJ #
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	1/14-15/16	13:00-13:00		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.19
	1/15/16	13:00	x		WW	H2SO4, 4C				x				Temp = 17.4°C
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 005	1/14-15/16	13:15-13:15		x	WW	H2SO4,4C	X							pH = 8.61
(Quarterly)	↓	↓		x	WW	Cool 4C		x						Temp = 13.5°C
	1/15/16	13:15	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ *Fastrak*™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	1/15/16	14:00	Heather Gerhart	1/15/16	14:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	_____ degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: 55M **IDENTIFYING INFORMATION** 1020-5488-00

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☒(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		10/21-22/2015		10/21-22/2015		10/21-22/2015		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		12:45-12:45		12:30-12:30		13:15-13:15		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW*			90K		55K		8K	GPD
Biological Oxygen Demand	*********	C	61	C	200	C	240	mg/l
Chemical Oxygen Demand	********	C	160	C	350	C	1100	mg/l
Total Suspended Solids	********	C	29	C	35	C	100	mg/l
Total Phenol	21	G	<0.050	G	<0.050	G	0.090	mg/l
Oil and Grease	200	G	5.9	G	75	G	13	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020			mg/l
pH	5.5-11.5	G	8.54	G	8.31	G	8.02	units
Temperature	60	G	27.2	G	28.1	G	25.2	deg C
Total Toxic Organics	5.844	G,C						mg/l
*provided per pc w/ R. Hicks on 2/4/16. SR								

You must complete and sign the certification statements on the second page.

1

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METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☒(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨				10/21-22/2015				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨				13:30-13:30				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			600		3K			GPD
Biological Oxygen Demand	*********	C		C	120			mg/l
Chemical Oxygen Demand	********	C		C	260			mg/l
Total Suspended Solids	********	C		C	56			mg/l
Total Phenol	21	G		G	0.075			mg/l
Oil and Grease	200	G		G	5.9			mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G		G	8.25			units
Temperature	60	G		G	21.2			deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

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Q4
2015

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived: RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur: RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hicks
	Title: Director Building Services Telephone: 314-577-8072
	Signature: [signature] Date: 2-4-15

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ANALYTICAL RESULTS

Sample: 5103455-01 **Sampled:** 10/22/15 12:45
Name: MSD 001 Comp **Received:** 10/22/15 14:45
Matrix: Waste Water - Composite

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	61	mg/L		10/23/15 11:19	KMN	SM 5210B
COD	160	mg/L		10/26/15 15:26	KMN	SM 5220D
Solids - total suspended solids (TSS)	29	mg/L		10/23/15 13:38	KMM	SM 2540D
Total Metals - STL						
Silver	< 0.0020	mg/L		10/23/15 14:15	WPS	EPA 200.7

Sample: 5103455-02 **Sampled:** 10/22/15 12:45
Name: MSD 001 Grab **Received:** 10/22/15 14:45
Matrix: Waste Water - Grab

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.54	pH Units		10/22/15 12:45	LLO	SM*
Temperature, Field Measured	27.2	°C		10/22/15 12:45	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	5.9	mg/L		10/23/15 14:34	KMM	EPA 1664
Phenol	< 0.050	mg/L		11/03/15 11:38	KLA	EPA 420.1

Sample: 5103455-03 **Sampled:** 10/22/15 12:30
Name: MSD 002 Comp **Received:** 10/22/15 14:45
Matrix: Waste Water - Composite

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	200	mg/L		10/23/15 11:19	KMN	SM 5210B
COD	350	mg/L		10/26/15 15:26	KMN	SM 5220D
Solids - total suspended solids (TSS)	35	mg/L		10/23/15 13:38	KMM	SM 2540D
Total Metals - STL						
Silver	< 0.0020	mg/L		10/23/15 14:17	WPS	EPA 200.7

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ANALYTICAL RESULTS

Sample: 5103455-04 **Sampled:** 10/22/15 12:30
Name: MSD 002 Grab **Received:** 10/22/15 14:45
Matrix: Waste Water - Grab

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.31	pH Units		10/22/15 12:30	LLO	SM*
Temperature, Field Measured	28.1	°C		10/22/15 12:30	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	75	mg/L		10/23/15 14:35	KMM	EPA 1664
Phenol	< 0.050	mg/L		11/03/15 11:38	KLA	EPA 420.1

Sample: 5103455-05 **Sampled:** 10/22/15 13:15
Name: MSD 003 Comp **Received:** 10/22/15 14:45
Matrix: Waste Water - Composite

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	240	mg/L		10/23/15 11:19	KMN	SM 5210B
COD	1100	mg/L		10/26/15 15:26	KMN	SM 5220D
Solids - total suspended solids (TSS)	100	mg/L		10/23/15 13:38	KMM	SM 2540D

Sample: 5103455-06 **Sampled:** 10/22/15 13:15
Name: MSD 003 Grab **Received:** 10/22/15 14:45
Matrix: Waste Water - Grab

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.02	pH Units		10/22/15 13:15	LLO	SM*
Temperature, Field Measured	25.2	°C		10/22/15 13:15	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	13	mg/L		10/23/15 14:36	KMM	EPA 1664
Phenol	0.090	mg/L		11/03/15 11:38	KLA	EPA 420.1

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ANALYTICAL RESULTS

Sample: 5103455-07
Name: MSD 005 Comp
Matrix: Waste Water - Composite
Sampled: 10/22/15 13:30
Received: 10/22/15 14:45

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	120	mg/L		10/23/15 11:19	KMN	SM 5210B
COD	260	mg/L		10/26/15 15:26	KMN	SM 5220D
Solids - total suspended solids (TSS)	56	mg/L		10/23/15 13:38	KMM	SM 2540D

Sample: 5103455-08
Name: MSD 005 Grab
Matrix: Waste Water - Grab
Sampled: 10/22/15 13:30
Received: 10/22/15 14:45

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.25	pH Units		10/22/15 13:30	LLO	SM*
Temperature, Field Measured	21.2	°C		10/22/15 13:30	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	5.9	mg/L		10/23/15 14:37	KMM	EPA 1664
Phenol	0.075	mg/L		11/03/15 11:38	KLA	EPA 420.1

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SPMO - Springfield, MO
- USEPA DMR-QA Program

STL - St. Louis, MO
- TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
- Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
- Drinking Water Certifications: Missouri (1050)
- Missouri Department of Natural Resources

* Not a TNI accredited analyte

Barbara A. Pandolfo

Certified by: Barb Pandolfo, Project Manager

MSD 038044

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ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[redacted]	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED
	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS
			MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

ANALYSIS REQUESTED

(FOR LAB USE ONLY)
LOGIN # 5102455
LOGGED BY: HG
LAB PROJ #
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	10/21-22/15	12:45-12:45		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.54
	↓	↓		X	WW	HNO3			X					Temp = 27.2C
	10/22/15	12:45	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
MSD 002	10/21-22/15	12:30-12:30		X	WW	H2SO4,4C	X							pH = 8.31
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 28.1C
	↓	↓		X	WW	HNO3			X					
	10/22/15	12:30	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ *Fastrak*™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	10/22/15	14:45	H Carter Garlock	10/22/15	14:45
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	2.4	degrees C
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

RECEIVED
FEB 4 2016
DIVISION OF ENVIRONMENTAL COMPLIANCE

MSD 038045

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

CLIENT	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
St. Louis University Hospital 3635 Vista Ave St. Louis, MO 63110 Mr. Bob Hicks	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN #: LOGGED BY: LAB PROJ # TEMPLATE: PROJ. MGR:
			MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID		

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	10/21-22/15	13:15-13:15		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.02
	10/22/15	13:15	X		WW	H2SO4, 4C				X				Temp = 25.2°C
	↓		X		WW	H2SO4, 4C					X			
MSD 005	10/21-22/15	13:30-13:30		X	WW	H2SO4,4C	X							pH = 8.25
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 21.2°C
	10/22/15	13:30	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ *Fastrak*™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	10/22/15	14:45	[signature]	10/22/15	14:45
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	_____ degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION 1020-5488-00

SSMHEALTH

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ■(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KF I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Associate Radiation Safety Officer Telephone: 977-6896

Signature: Date: 1/13/16

RECEIVED
JAN 14 2016
DIVISION OF
ENVIRONMENTAL COMPLIANCE

Metropolitan Saint Louis Sewer District
2350 Market Street
Saint Louis, Missouri 63103-2555

SSM HEALTH ST. LOUIS UNIVERSITY HOSPITAL
3635 Vista Ave.
St. Louis, MO 63110

Attn: Robert Hicks
Director of Building Services

INDUSTRIAL WASTEWATER DISCHARGE PERMIT NUMBER 1020548800.

ANNUAL PERMIT FEE NOTICE

For permits in effect as of **10/01/2015**.

Fee will be included in a separate bill from the Metropolitan St. Louis Sewer District.

Explanation of Charges

Fee for Pretreatment Program Discharge Permit covering the period October 1, 2015 through September 30, 2016, issued in accordance with the Metropolitan St. Louis District Ordinance #12413 for the location at **3635 & 3655 Vista Ave**.

Base charge @ $150.00 per permit			$150.00
Volume charge @$0.72 per average daily Ccf	139.89	Ccf(s)	100.72
Sample Point Charge @$100.00 per sample point	5	Point(s)	500.00
		Total Fee Due:	**750.72**

For inquiries about the Annual Permit Fee, please call 314-436-8756. For inquiries about payment of the fee, which appears on your monthly bill, please call 1-866-281-5737.

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION 1020-5488-00

SSM

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Print/type name of signing official: Kevin Ferguson

Title: Associate Radiation Safety Officer Telephone: 977-6896

Signature: RECEIVED Date: 10/12/15

OCT 12 2015

DIVISION OF
ENVIRONMENTAL COMPLIANCE

B

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL FACILITY INSPECTION REPORT

Company: SSM HEALTH ST. LOUIS UNIVERSITY HOSPITAL — Account #: 1020548800
Premise Address: 3635 - 3655 Vista Avenue — Zip Code: 63110
MSD Classes: SIU ☒ Non-Significant CIU ☐ CIU ☐ Surcharge ☐ Non-Toxic Process Water/Wastes ☐
Toxics-Bearing Waste ☒ No Process Discharge ☐ Multi-User ☐ Special Handling/Billing ☐
Company Representative: Robert Hicks
Title: Director of Bldg Services — Phone#: 314.577.8072
Inspector: Scott Rehmer
Others Present: None
Inspection Date: 9/11/15 Time: From 8:00 am To 9:40 am (Last Insp. 9/19/14)

NOTE: ALL ITEMS ARE TO BE COMPLETED BASED ON EVENTS SINCE LAST INSPECTION. ANSWERS ARE BASED ON INFORMATION OBTAINED OR PROVIDED BY COMPANY DURING INSPECTION, AS WELL AS INFORMATION IN FILE.

***** DATABASE ALSO UPDATED WITH APPROPRIATE CHANGES - see attached database reports *****

1. A. ARE THERE ADDITIONAL NON-STORMWATER ACCOUNT NUMBERS? Yes☒ No☐
   List them, note any changes: 1020548700, 1045347700 (no change)
   B. Were any changes (including to the primary or changes only to suffixes) for acct no's with RFs? NA☐ Yes☐ No☒
   C. If yes to B, was Cost Recovery Unit informed of the change(s)? NA☐ Yes☐ No☐
   D. Did all acct no's have water usage on PIMS? Yes☒ No☐
   E. If no to D, explain: _____

2. PROCESSES & CLEANUP/WASHDOWN:

	Cont/ Batch?	Water/Liquids Used?	DISCHARGE Frequency (or how else disposed?)	Sample pt.
Hospital care & surgery	Cont	Yes	Daily	001, 002
In-patient cancer treatment & psych care	Cont	Yes	Daily	001, 002, 003, 005
Research & clinical labs	Cont	Yes	Daily	001, 002
Kitchen wastewater	Batch	Yes	Daily	001
	(None)	N/A		
	(None)	N/A		

3. PRETREATMENT (other than grease traps) - describe:

	Sample pt.
Silver recovery (metallic & electrolytic)	001, 002

4. DOES COMPANY HAVE ANY GREASE TRAPS? Yes☒ No☐
   If yes: A. List sample points: 001
   B. What is the frequency for cleaning & maintenance? Monthly
   C. Are any additives used in traps? Yes☐ No☒
   D. If yes to C, was company warned MSD will bill them for blockages they cause? Yes☐ No☐
   E. Was company informed that MSD performs separate grease trap inspections? Yes☒ No☐

5. HAS COMPANY CONSTRUCTED NEW BLDGS/ADDITIONS WITH SEWERS SINCE LAST INSPECTION? Yes☐ No☒
   If yes: A. Ask company: Did they notify MSD's Plan Review group? Unknown☐ Yes☐ No☐
   B. If no or unknown, has inspector notified Plan Review group? Yes☐ No☐
   C. Comments: See end comments

6. HAS COMPANY BEGUN DISCHARGING ANY NEW POLLUTANTS SINCE THE LAST INSPECTION? Yes☐ No☒

If yes: A. List pollutants & process: _____

B. Will MSD STP exceed existing NPDES discharge limit(s)? Yes☐ No☐

C. Will MSD STP's discharge exceed 0.1 mg/l for any new pollutant? Yes☐ No☐

(MSD must notify MDNR if B or C is yes and discharge will continue [40CFR122.42(b)].)

D. Comments: _____

7. ARE THERE ANY FEDERALLY REGULATED (40 CFR 405-471) OPERATIONS THAT ARE "NOT APPLICABLE"? Yes☒ No☐

(including those that are 'No PSES' and 'General Stds Only')

If yes: A. List regulation & describe operations (including any discharge):

40 CFR 460, Subpart A, n/a (general standards only), Hospital point source category

B. Explain why it is N/A: General standards only

8. ARE THERE ANY FEDERALLY REGULATED (40 CFR 405-471) OPERATIONS SUBJECT TO DISCHARGE LIMITS? Yes☐ No☒

If yes: A. List regulation & describe operations (including any discharge):

_____

B. Is maximum daily categorical discharge ≤ 100 GPD? (includes batch discharges) Yes☐ No☐

If yes to B: C. Batch ☐ or Continuous ☐? Volume verified how? _____

D. Does company ever discharge untreated, concentrated categorical wastewater? Yes☐ No☐

E. Was company in SNC during any part of the previous **24** months? Yes☐ No☐

F. Date of last NSCIU Certification Statement: _____ or not currently NSCIU ☐

(If no to B, yes to D or E, or Cert. Statement not submitted as required, company is not eligible to be an NSCIU)

9. HAS COMPANY CERTIFIED TO THE ABSENCE OF SPECIFIC CATEGORICAL POLLUTANTS? Yes☐ No☒

(New certification also is required for each permit renewal)

If yes: A. Certification date: _____

B. Pollutants accepted by MSD as absent: _____

C Were any requested "absent" pollutants rejected by MSD? Yes☐ No☐

If no to C: D. List them and explain why: _____

E. Were all the accepted pollutants non-detect in all monitoring since certification was approved? Yes☐ No☐

(If compared to intake water levels, explain details below)

If no to E: F. Explain: _____

G. Does Wastewater Discharge Permit need to be updated to remove detected pollutants? Yes☐ No☐

H. Comments: _____

10. DOES CATEGORICAL WASTEWATER COMBINE WITH NON-CATEGORICAL WW PRIOR TO SAMPLING? Yes☐ No☒

If yes: A. At which points? _____

B. Current applied factor: _____ Is it correct? Yes☐ No☐

C. If no, list correct factor/explain? _____

11. IS ANY WASTEWATER SUBJECT TO PRODUCTION ☐ OR MASS ☐ BASED STANDARDS? Yes☐ No☒

If yes: A. At which points? _____

B. Since calculation of the current limits, has the long term avg production rate or discharge volume changed by 20% or more? Yes☐ No☐

C. If yes to B, explain: _____

12. ARE ANY RADIOACTIVE MATERIALS HANDLED? Yes☒ No☐

If yes: A. Describe operations & disposal: Nuclear medicine isotopes held for decay, then sewered or hauled off; their cyclotron has been shut down since Fall 2014.

B. If non-exempt & disposed to sewer, does company submit quarterly reports to MSD? NA☐ Yes☒ No☐

(If No to B, write company & require quarterly reports of discharge to sewer – or have permit revised as needed)

C. Amount discharged in most recent four complete calendar quarters: 0 pCi/L.

D. Is company in compliance with requirements of sewer use ordinance prohibition? Yes☒ No☐

13. DOES COMPANY GENERATE WASTES/WASTEWATER BY GENETIC ENGINEERING RESEARCH? Yes☐ No☒

If yes: A. Does company render wastes/wastewater innocuous? Yes☐ No☐

B. If yes, describe how: _____

C. Does company have MSD authorization for disposal to sewer? NA☐ Yes☐ No☐

D. Most recent authorization date: _____

14. DOES PROCESS or P&E WASHDOWN WATER USE APPEAR EXCESSIVE? Yes☐ No☒
(IS COMPANY USING DILUTION TO MEET DISCHARGE LIMITATIONS?)

A. Explain how use was verified & any needed changes:
Their water usage appears fairly normal for the type and size of hospital, some decrease in usage last few years (see end comment); lawn irrigation system usage decreased this year; no excessive usage noted during walk-through.

15. BASED ON OBSERVATIONS DURING INSPECTION, DOES COMPANY APPEAR TO HAVE SOME WATER THAT IS NOT DISCHARGED TO SEWER? Yes☒ No☐

If yes: A. Describe: Lawn watering, cooling towers, two of three accounts have an RF of 0.68;

B. Was "Return Factor Program" brochure given to company? Yes☒ No☐
(regardless of whether some water is not discharged to sewer)

16. HAS COMPANY BEEN GRANTED A VARIANCE FROM DISCHARGE LIMITATIONS CONTAINED IN THE SEWER USE ORDINANCE? Yes☐ No☒

If yes: A. Pollutant(s) and variance limit: _____

B. Latest approval date: _____

C. Is the approved variance more than 5 years old? Yes☐ No☐
(If yes to C, a new variance must be requested – write company)

17. HAVE ANY NUMERICAL LIMITATIONS BEEN APPLIED TO COMPANY, IN ADDITION TO THOSE ALREADY CONTAINED IN THE SEWER USE ORDINANCE? Yes☐ No☒

If yes: A. Pollutant(s) and discharge limit: _____

B. Date originally applied: _____, or as part of variance above? ☐

18. HAS COMPANY EXCEEDED ORDINANCE DISCHARGE LIMITS SINCE LAST INSPECTION OR WITHIN THE LAST 12 MONTHS (if last insp <12 months ago)? Yes☐ No☒

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Y/N	Describe
			N/A	
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

19. HAS COMPANY EXCEEDED CATEGORICAL PRETREATMENT LIMITS SINCE THE LAST INSPECTION OR WITHIN LAST 12 MONTHS (if last insp <12 months ago)? NA☒ Yes☐ No☐

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Y/N	Describe
			N/A	
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

20. HAVE THERE BEEN ANY PROBLEM DISCHARGES SINCE LAST INSPECTION? Yes☐ No☒

If yes: A. Upsets? ☐ Bypasses of pretreatment facilities? ☐
Spills? ☐ Slug discharges? ☐ Other? _____

B. Explain any marked: _____

21. COULD SPILLS OR LEAKS OF ANY PROCESS TANKS, OR STORAGE TANKS, OR STORED WASTES, OR STORED CHEMICALS EASILY REACH SANITARY SEWERS OR STORM DRAINS? Yes☐ No☒

If yes: A. What needs to be done?

If no: B. How are they controlled?
Spill kits & absorbents are available; small quantity chemicals are stored away from drains; large volumes of oil and liquid wastes are stored in drums and totes on self-contained pallets

22. BASED ON OBSERVATIONS DURING INSPECTION, ARE THERE ANY AREAS WHERE COMPANY ACTIVITIES APPEAR TO IMPAIR STORMWATER RUNOFF? Yes☐ No☒

If yes: A. Describe:
B. What needs to be done?
C. Was "Illicit Stormwater Discharges" brochure given to company? Yes☒ No☐
(regardless of whether there are any problem areas)

23. DOES COMPANY HAVE ANY WRITTEN SLUG DISCHARGE CONTROL (INCLUDES SPILLS) PLANS [40CFR403.8(f)(2)(vi)]? Yes☒ No☐

If yes: A.

	Title (actual title, NOT "SPCCP")	Last Update
1.	Hazardous Chemical Spill Plan	1/1/10
2.		

B. Were Plans reviewed for completeness, especially regarding batch discharges/slugs and Q.19/20/21? Yes☒ No☐
(must be done)
C. Are updates needed to existing Plans? (If yes, write company & require) Yes☐ No☒
D. Are any Plans needed (either in addition to those listed in Part A, or if there currently are no written control plans)? (If yes, write company & require) Yes☐ No☒
E. Explain why/why not for C or D: Plan includes policy, haz waste, prohibitions, conservation, disposal, & clean-up.

24. DOES COMPANY HAVE ANY MAINTENANCE SHOP PARTS WASHERS? Yes☒ No☐

If yes: A. Parts washer solvent name: Safety Kleen Premium (in Energy Center)
B. Priority pollutants (or "none"): typically BTEX
C. How is spent solvent disposed? hauled off
(These solvents are not included in database's priority pollutants list, nor monitored for unless conditions show potential discharges)

25. ARE ANY ORGANICS OR SOLVENTS USED (OTHER THAN IN PARTS WASHERS)? Yes☒ No☐

If yes: A.

Solvent name/ components	Used for?	413/433/469 Process?	How disposed?	Priority Pollutant?
Methylene Chloride, Napthalene, Phenanthrene	Lab testing	Yes☐ No☒	Hauled off	Yes☒ No☐
Phenols	Sanitizing	Yes☐ No☒	Evaporates	Yes☒ No☐
Acetone, Alcohol, Xylene, Methanol	Lab testing	Yes☐ No☒		Yes☐ No☒
		Yes☐ No☐		Yes☐ No☐
		Yes☐ No☐		Yes☐ No☐
		Yes☐ No☐		Yes☐ No☐

26. DOES COMPANY HAVE A 413/433/469-REGULATORY "SOLVENT MANAGEMENT PLAN"? Yes☐ No☒
(Applies if co. has 413/433/469 processes, whether or not solvents used)

If yes: A. Is it part of a Spill/Slug Control Plan listed above? Yes[1.☐ 2.☐] No☐
B. If no to A, date of last update for SMP:
C. Is there a copy of the Spill/Slug Plan or SMP in the files? Yes☐ No☐
D. Does SMP address all 413/433/469 solvents? (or verify "none" ☐) Yes☐ No☐
(If no to C or D, write company and require submittal and/or update)

27. ARE EMERGENCY NOTIFICATION PROCEDURES POSTED THAT INCLUDE MSD CONTACTS? Yes☐ No☒

A. Was company provided notification cards & told to post where emergency response personnel can locate them? Yes☒ No☐
(Must post if company generates process wastewater or stores chemicals of concern)

28. IS COMPANY REQUIRED TO SELF-MONITOR ANY OF THEIR DISCHARGES? Yes☒ No☐

If yes:
A. Is requirement contained in permit ☒ or other document ☐.
B. If other document, date & description: _____
C. How frequently is sampling required? Quarterly at 001, 002, 003, 005; Annually at 004
D. How frequently are reports required? Quarterly
E. Have reports been on-time, complete & signed by proper person? Yes☒ No☐
F. If no, explain: _____

29. DOES COMPANY SELF-MONITOR ITS WASTEWATER DISCHARGE? Yes☒ No☐

If yes:
A. Does sample collection time period match co's production shifts? Yes☒ No☐
B. Are representative grab/comp samples collected? Yes☒ No☐
C. Are EPA-approved 40 CFR 136 wastewater test methods used? Yes☒ No☐
D. Does company measure pH and/or temperature itself? Yes☐ No☒
If yes: E. Have the company show equipment and procedure (meters, calibration stds, etc.). Is measurement performed properly? Yes☐ No☐
F. If no to A,B,C, or E, _____ explain needed changes:

30. DOES COMPANY CONTINUOUSLY MONITOR AT SAMPLE POINT AND KEEP A PERMANENT RECORD FOR: pH ☐, TEMP ☐, LEL ☐? Yes☐ No☒

If yes:
A. At which SPs? _____
B. Are discharge limits in PIMS "alert only"? (If not, change to that & make note: _____) Yes☐ No☐
C. Does company submit quarterly summaries? Yes☐ No☐
D. If no, explain: _____

31. DOES MSD SPLIT SAMPLES WITH THE COMPANY? Yes☐ No☒

If yes:
A. Is company having the samples analyzed Yes☐ No☐
B. How does company insure proper preservation, holding times & analytical methods? _____
C. Has company submitted results of all split sample analyses since the last insp? Yes☐ No☐
D. Have results been submitted within 28 days of the collection's calendar quarter? Yes☐ No☐
E. If no to C, or D, explain: _____
F. Does company still want to split samples? Yes☐ No☐
G. Comments: _____

32. IS COMPANY REQUIRED TO REGULARLY SUBMIT ANY REPORTS OTHER THAN SELF-MONITORING REPORTS? Yes☒ No☐

If yes:
A. Is requirement contained in permit ☒ or other document ☐.
B. If other document, date & description: _____
C. What is required to be reported? Radioactive Materials Discharge Report
D. How frequently are reports required? Quarterly
E. Have reports been on-time, complete & signed by proper person? Yes☒ No☐
F. If no, explain: _____

33. IS COMPANY UNDER ANY ENVIRONMENTAL ENFORCEMENT ORDERS OR REQUIREMENTS TO SUBMIT COMPLIANCE SCHEDULE REPORTS? Yes☐ No☒

If yes:
A. Type and date: _____
B. Have the reports & actions been on-time & complete? Yes☐ No☐
C. If no, explain: _____

34. ASK COMPANY: IS COMPANY IN COMPLIANCE W/APPLICABLE NESHAP REGULATIONS FOR WW DISCHARGES? Yes☒ No☐
[To see if 40CFR63 applies to MSD plant, per §§63.1580(b) & 63.1582(a). Some MDNR-issued Title V air permits for specific processes allow pre-approved WW discharge. City/County-issued air permits are not NESHAP permits.]

If no: A. Describe: _____
B. Was MDNR Air Pollution Control informed? (must be done) Yes☐ No☐

35. DOES COMPANY RETAIN ALL WASTEWATER RECORDS FOR AT LEAST 5 YEARS? Yes☒ No☐

If no: A. How long does company retain records? _____
B. Was company told to retain for at least 5 years, per ordinance? Yes☐ No☐
C. Where are they kept? Office files in the Energy Center.

36. IS COMPANY CLASSIFIED AS A SIGNIFICANT INDUSTRIAL USER (SIU)? Yes☒ No☐

If yes: A. Check & explain applicable criteria:
☐ Process subject to categorical stds under 40 CFR 403.6. Which cat. stds? _____
☒ Process discharge => 25,000 GPD Total process volume: ~ 35,700 GPD.
☐ Process discharge => 5% of TP ADW hydraulic capacity TP ADW hydraulic capacity: _____. Percent: _____
☐ Process discharge => 5% of TP ADW organic capacity Which organic pollutant? _____
TP ADW organic capacity: _____. Percent: _____
☐ Reasonable potential for adverse effect on operations Why? _____
☐ Reasonable potential for violating PT std or req't Which ones & why? _____
B. Does company own its bldg (is it listed as the owner in E-CIS)? Yes☒ No☐

If no: C. What is Bldg owner name (use DBA if avail.)? Bldg owner is now SSM Health..
(check E-CIS CAPS Customer Info)
D: What is Bldg owner mailing address? Mailing address is the same as billing and premise.
(check E-CIS CAPS Customer Info)

37. DO MSD CLASSIFICATIONS NEED TO BE REVISED? Yes☐ No☒

If yes: A. Indicate correct classifications:
SIU ☐ Non-Significant CIU ☐ CIU ☐ Surcharge ☐ Non-Toxic Process Water/Wastes ☐
Toxics-Bearing Waste ☐ No Process Discharge ☐ Multi-User ☐ Special Handling/Billing ☐
B. Explain changes: _____

38. IS COMPANY CLASSIFIED AS "Multi-User"? Yes☐ No☒

If yes: A. Is company's discharge segregated from other tenants' discharge? Yes☐ No☐
B. If no to A, does the company own the bldg/receive the MSD bills? Yes☐ No☐
C. If yes to B, was company informed it is responsible for total discharge, or else must provide segregated sample points? Yes☐ No☐
D. If no to B, are any Process/P&E Wash-type wastes discharged? Yes☐ No☐
E. If yes to D, are the wastes completely innocuous? Yes☐ No☐
(And explain why/why not: _____)
F. If yes to D, and no to E, company must accept responsibility or provide segregated SP.
Acceptance letter date: _____ Or write company with requirement ☐
G. If no to D or yes to E, are limits "alert only" on PIMS? Yes☐ No☐
H. Comments: _____

39. IS COMPANY CLASSIFIED AS "Special Handling/Billing"? Yes☐ No☒

If yes: A. Why? _____
B. Are any changes needed to reasons/details? Yes☐ No☐
C. If yes, explain: _____
D. Were company records reviewed & verified for special handling/billing reports? NA☐ Yes☐ No☐

40. SAMPLE POINTS

						Auto-sampler ready?	DJ (y/n)
SP #	001	Fed.Reg.		Components:	Sanitary, Hosp waste (includes x-ray & lab waste) Boiler blowdown, NCCW, Kitchen, Storm	Yes	No
SP #	002	Fed.Reg.		Components:	Sanitary, Hosp waste (includes x-ray & lab waste) Storm	Yes	No
SP #	003	Fed.Reg.		Components:	Sanitary, Hosp waste, Storm	Yes	No
SP #	004	Fed.Reg.		Components:	NCCW, Storm	Yes	Yes
SP #	005	Fed.Reg.		Components:	Sanitary, Hosp waste, Storm	N/A	No

41. ARE ANY SAMPLE POINTS TRAPPED VENTS? Yes☐ No☒

If yes: A. List SPs: _____

B. Was co. informed that T-vents are preferred, and told why? Yes☐ No☐

42. ARE DISCHARGES AT ANY SPs SMALL/IRREGULAR ENOUGH TO ALLOW GRAB SAMPLES? Yes☒ No☐

If yes: A. List SPs and reasons: 004, low, intermittent flow

43. ARE THERE ANY UNSAMPLED DISCHARGES? (list each lateral separately) Yes☐ No☒

Dummy SP #		Components:	
Dummy SP #		Components:	

If yes: A. Was company informed that SPs may be required in the future if the discharges change? Yes☐ No☐

B. Are all unsampled discharges very low flow and/or innocuous? Yes☐ No☐

C. If No to B, explain:_____

(Must also write company and require installation of SP)

44. DO ANY SAMPLE POINTS (including Unsampled/Dummy SPs) RECEIVE STORMWATER? Yes☒ No☐

If yes: A. List Sample Points: 001, 002, 003, 004, 005

45. WERE ALL SAMPLE POINTS (except Dummy SPs) OPENED & INSPECTED? No SPs☐ Yes☒ No☐

A. If any SPs cannot be located or opened, explain: _____

B. If any SP descript's need to be changed, explain: _____

C. Was ANY grease or other problem/debris observed in any SP? Yes☐ No☒

D. If yes to C, list SPs & describe: The facility contact had a sub-contractor remove the accumulated sand, debris, and oily water in the MH parallel to & separate from 004, confirmed complete on 9/18.

E. If yes to C, was company directed to take corrective actions? Yes☐ No☐

46. REVIEW THE SAMPLE POINT MAP! Last map revision date: 8/13/15

A. Is the map correct and accurate in all its details? Yes☒ No☐

B If no, what changes are needed: _____

47. DO INSTRUCTIONS FOR "Contact Prior to Sampling" or FIELD VISIT "Special Instructions" NEED REVISION? Yes☐ No☒

If yes: A. List needed changes: _____

USE THIS SPACE FOR ANY OTHER COMMENTS/OBSERVATIONS PERTINENT TO YOUR INSPECTION OF THIS SITE.

Radiology is primarily a digital process; however, liquid processing is still on-site, rarely used as back-up to the digital.

Q.5. No new bldgs or additions this year, but their plan is to extend the NW corner of the W Pavilion in the summer of 2016, and to construct a new hospital bldg N of Rutger in ~ five years; contact reports that he is in contact with MSD's planning group.

Water usage fairly consistent, with slight decrease over the last two to three years, as follow (from three water accounts):
Jan 2010 - 2011; 100.77 k-ccf; 206.5 k-gpd-in; 170.5 k-gpd-out (with RF applied);
Jan 2011 - 2012; 110.15 k-ccf; 225.7 k-gpd-in; 212.3 k-gpd-out;
Jan 2012 - 2013; 68.66 k-ccf; 140.7 k-gpd-in; 138.6 k-gpd-out;
Jan 2013 - 2014; 62.71 k-ccf; 128.5 k-gpd-in; 99.4 k-gpd-out;
Jan 2014 - 2015; 69.6 k-ccf; 142.6 k-gpd-in; 107.4 k-gpd-out; or a 3-year avg = 115.1 k-gpd.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**
Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

INDUSTRIAL USER CLASSIFICATIONS
03/06/1997 SIU
03/06/1997 TOX

WUNNENBERG INFO.
Base Map 20F1
Wun: St. Louis City & Co.
Grid: H 21 Page 38

SIU CRITERIA
PR25 Process Disch => 25,000 GPD

GENERAL INFORMATION
Office Mailing Address
3635 Vista Ave.
St. Louis, MO. 63110-0250
Billing Address
3635 Vista Ave
St Louis, MO. 63110-0250

INSPECTION INFORMATION
Next Due	Insp Rslt	
09/11/2015	RIN	Scott Rehmer

PERMIT INFORMATION
Issue Date: 09/01/2015
Expire Date: 08/31/2020
Extended Date:
Writer
Issue Date: 01/01/2012
Expire Date: 12/31/2016
Extended Date: 08/31/2015
Writer Scott Rehmer

IUQ INFORMATION
IUQ Recvd Date: 07/09/2001
Reviewer: Fabian Grabski
IUQ Recvd Date: 07/03/2006
Reviewer: Fabian Grabski
IUQ Recvd Date: 10/24/2011
Reviewer: Mike Kynion
IUQ Recvd Date: 08/14/2015
Reviewer: Scott Rehmer

CONTACTS

BILL	Robert Hicks	Director of Building Services	OFF	(314) 577-8072 Ext.
FLD1	Robert Hicks	Director of Building Services	OFF	(314) 577-8072 Ext.
	Robert Hicks	Director of Building Services	CELL	(314) 625-0067 Ext.
FLD2	Mike Jones	Chief Engineer	CELL	(314) 835-7401 Ext.
	Mike Jones	Chief Engineer	OFF	(314) 577-8173 Ext.
FLD3	Janet Dickson	Admin Assistant	OFF	(314) 577-8070 Ext.
OFF1	Robert Hicks	Director of Building Services	OFF	(314) 577-8072 Ext.
OFF2	Mike Jones	Chief Engineer	OFF	(314) 577-8070 Ext.
OFF3	Janet Dickson	Admin Assistant	OFF	(314) 577-8070 Ext.

OPERATIONAL INFORMATION
Work Days: 7

				S	M	T	W	T	F	S
1	1,884	07:00AM	8.0	Y	Y	Y	Y	Y	Y	Y
2	616	03:00PM	8.0	Y	Y	Y	Y	Y	Y	Y
3	615	11:00PM	8.0	Y	Y	Y	Y	Y	Y	Y

Total Emp: 3,115 **Hrs:** 24.0

OTHER AGENCIES INFORMATION

09/28/2005	MSD - Billing Account Number	00208066
09/28/2005	MSD - Billing Account Number	00447331
09/28/2005	MSD - Billing Account Number	00208067
10/24/2011	EPA - Hazardous Waste Program	MOR000023663
10/24/2011	MDNR - Hazardous Waste Program	20848

NON-SEWERED WASTE
On-Site Storage N **On-Site Disposal** N **Off-Site Disposal** Y

10/24/2011	Infectious Waste	519,896	LBS
10/24/2011	Paints or Paint Sludge	55	GPY
07/03/2006	Kitchen/Food Service	3500	GAL
11/07/2012	Equipment Oils and/or	55	GPY

COMMENTS

RAW MATERIALS

EFF DATE	MATERIAL_DESCRIPTION	QUANTITY	UNIT
12/07/2010	Medical Equipment		
12/07/2010	Medicines		

SIC INFORMATION

SIC	DESCRIPTION
8062	General Medical & Surgical Hospitals
8063	Psychiatric Hospitals

PRODUCTS

EFF DATE	DESCRIPTION	UNIT	AVG_PROD	MAX_PROD
05/07/2004	General hospital service			

Report No. PIMS012A 09/18/2015 12:27:54 pm
Data Date & Time: 09/18/2015 12:27:54 pm

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL**

PRIMARY MSD ACCOUNT NO. **1020548800**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

SEWER ACCOUNTS

Sewer Accounts
1020548800
1020548700
1045347700

WATER CONSUMPTION AND WASTEWATER DISCHARGE

Start Date = 06/01/2013 **End Date =** 12/31/2015

Acct. No.			Consumption CCF's	Consumption Gallons		Wdays	Cdays	Discharge Gal/ Wday	Discharge Gal/ Cday
1020548700									
1020548700	05/01/2013	07/18/2013	488	488	A	79	79	79	
1020548700	07/19/2013	10/22/2013	350	838		96	96	175	
1020548700	10/23/2013	01/27/2014	452	1,290		97	97	272	
1020548700	01/28/2014	04/18/2014	25	1,315		81	81	353	
1020548700	04/19/2014	07/18/2014	189	1,504		91	91	444	
1020548700	07/19/2014	10/20/2014	448	1,952		94	94	538	
1020548700	10/21/2014	02/12/2015	75	2,027		115	115	653	
1020548700	02/13/2015	04/22/2015	53	2,080		69	69	722	
RF	0.68	**Acct. Total**	2,080	1,555,948		722	722	1,465	1,465
1020548800			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
1020548800	05/01/2013	07/18/2013	14,443	14,443	A	79	79	79	
1020548800	07/19/2013	10/22/2013	17,260	31,703		96	96	175	
1020548800	10/23/2013	01/27/2014	10,590	42,293		97	97	272	
1020548800	01/28/2014	04/18/2014	9,770	52,063		81	81	353	
1020548800	04/19/2014	07/18/2014	16,470	68,533		91	91	444	
1020548800	07/19/2014	10/20/2014	15,720	84,253		94	94	538	
1020548800	10/21/2014	01/28/2015	11,080	95,333		100	100	638	
1020548800	01/29/2015	04/22/2015	6,920	102,253		84	84	722	
RF	0.68	**Acct. Total**	102,253	76,490,561		722	722	72,041	72,041
1045347700			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
1045347700	05/10/2013	07/18/2013	2,157	2,157	A	70	70	70	
1045347700	07/19/2013	10/16/2013	4,280	6,437		90	90	160	
1045347700	10/17/2013	01/16/2014	1,850	8,287		92	92	252	
1045347700	01/17/2014	04/17/2014	2,500	10,787		91	91	343	
1045347700	04/18/2014	07/14/2014	4,530	15,317		88	88	431	
1045347700	07/15/2014	10/16/2014	5,890	21,207		94	94	525	
1045347700	10/17/2014	01/20/2015	2,910	24,117		96	96	621	
1045347700	01/21/2015	04/17/2015	3,080	27,197		87	87	708	
RF	1.00	**Acct. Total**	27,197	20,344,770		708	708	28,736	28,736
		Facility Total	131,530						

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**
Premise Address 3635 & 3655 Vista Ave.
St. Louis MO 63110

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
01	Sanitary Or Combined	20F3	474C	Trunk Sewer	46 - Rock Springs

Description Multiple lines from W side of hospital and

Sewer Route W on Vista in 27 pipe to 39th St, then N ir

SAMPLE POINT NO. 001 Ordinance **NPDES Outfall No.**

Description MH in driveway W of loading dock, 50' N of Vista, near SW corner of main hospital bldg

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Boiler Blowdown		11,485	GPD		GPD	D	8/14/15
Non Contact Coolir	HVAC	8,227	GPD		GPD	D	8/14/15
Sanitary		23,758	GPD		GPD	D	8/14/15
Storm Water		0	GPD		GPD	D	8/14/15
Hospital Waste	including x-ray waste, lab waste	18,870	GPD		GPD	D	8/14/15
Kitchen Waste		7,500	GPD		GPD	D	8/14/15
	Total Flow Avg =	**69,840**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
02	Sanitary Or Combined	20F3	415C	Trunk Sewer	46 - Rock Springs

Description Line S from S side of building to Vista Av

Sewer Route W on Vista in 27 pipe to 39th St, then N ir

SAMPLE POINT NO. 002 Ordinance **NPDES Outfall No.**

Description MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Sanitary		21,227	GPD		GPD	D	8/14/15
Storm Water		0	GPD		GPD	D	8/14/15
Hospital Waste		6,943	GPD		GPD	D	8/14/15
	Total Flow Avg =	**28,170**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
03	Sanitary Or Combined	20F3	424C	Trunk Sewer	46 - Rock Springs

Description Line SE from S side of building at entranc

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to tre

SAMPLE POINT NO. 003 Ordinance **NPDES Outfall No.**

Description MH 54' E of SW corner of West Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Sanitary		1,910	GPD		GPD	D	8/14/15
Storm Water		0	GPD		GPD	D	8/14/15
Hospital Waste		1,524	GPD		GPD	D	8/14/15
	Total Flow Avg =	**3,434**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
04	Sanitary Or Combined	20F3	355C	Trunk Sewer	46 - Rock Springs

Description Line W from SW corner of parking garage

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to tre

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**
Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

SAMPLE POINT NO. 004 Ordinance **NPDES Outfall No.**

Description 6" T-vent under W Pavilion parking lot, 10' N, 18' E of SW corner

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Non Contact Coolir		281	GPD		GPD	D	8/14/15
Storm Water		0	GPD		GPD	D	8/14/15
	Total Flow Avg =	**281**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
05	Sanitary Or Combined	20F3	348C	Trunk Sewer	46 - Rock Springs

Description Manhole 93' S, 9' W of NW corner of W p

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to tre

SAMPLE POINT NO. 005 Ordinance **NPDES Outfall No.**

Description MH 93 ' S, 9' W of NW corner of W Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Sanitary		2,067	GPD		GPD	D	8/14/15
Storm Water		0	GPD		GPD	D	8/14/15
Hospital Waste		848	GPD		GPD	D	8/14/15
	Total Flow Avg =	**2,915**		**Max =**			

PRETREATMENT TYPES

SP	EFF DATE	TYPE	DESCRIPTION
001	06/06/200C	DC28	Grease Trap
001	06/06/200C	DC32	Metallic Replacement
001	06/06/200C	DC20	Electrolysis
002	06/06/200C	DC20	Electrolysis
002	06/06/200C	DC32	Metallic Replacement

PRIORITY POLLUTANTS

Pollutant Description	Status	Pollutant Description	Status	Pollutant Description	Status
Asbestos (Fibrous)	KP	Mercury (Total)	KP	Phenol	SP
Methylene Chloride	KP	Phenanthrene	KP	Naphthalene	SP

EXTRA STRENGTH SURCHARGE INFORMATION

PIMS FACILITY CONTACTS

For Account Number Selected **1020548800** **SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL**
Located at 3635 & 3655 Vista Ave.
St. Louis MO 63110

Address Type / Contact Type	Contact Name	Contact Title	Email	Signatory	Phone Type	Number	Ext.
Billing Address							
Billing Contact	Robert Hicks	Director of Building Services	Robert.Hicks@tenethealth.com	Y	OFF	(314)577-8072	
Office Mailing Address							
Office Contact - Primary	Robert Hicks	Director of Building Services	Robert.Hicks@tenethealth.com	Y	OFF	(314)577-8072	
Office Contact 1st Alt	Mike Jones	Chief Engineer		N	OFF	(314)577-8070	
Office Contact 2nd Alt	Janet Dickson	Admin Assistant		N	OFF	(314)577-8070	
Premise Address							
Field Contact - Primary	Robert Hicks	Director of Building Services	Robert.Hicks@tenethealth.com	Y	CELL	(314)625-0067	
Field Contact - Primary	Robert Hicks	Director of Building Services	Robert.Hicks@tenethealth.com	Y	OFF	(314)577-8072	
Field Contact 1st Alt	Mike Jones	Chief Engineer		N	CELL	(314)835-7401	
Field Contact 1st Alt	Mike Jones	Chief Engineer		N	OFF	(314)577-8173	
Field Contact 2nd Alt	Janet Dickson	Admin Assistant		N	OFF	(314)577-8070	

MSD 038060

PIMS
REPORT OF FIELD SAMPLING REQUIREMENTS
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **1020548800**

SPN	PREMISE ADDRESS	CITY	ST	ZIP
	3635 & 3655 Vista Ave.	St. Louis	MO	63110

001 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2016
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2016
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2016
	T237000	pH	Once/year	Grab	06/30/2016
	T247000	Temperature	Once/year	Grab	06/30/2016
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2016
	T257000	Total Phenols	Once/year	Grab	06/30/2016
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2016
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2016
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-	Once/year	Grab	06/30/2016

002 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2016
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2016
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2016
	T237000	pH	Once/year	Grab	06/30/2016
	T247000	Temperature	Once/year	Grab	06/30/2016
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2016
	T257000	Total Phenols	Once/year	Grab	06/30/2016
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2016
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2016
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-	Once/year	Grab	06/30/2016

003 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2016
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2016
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2016
	T237000	pH	Once/year	Grab	06/30/2016
	T247000	Temperature	Once/year	Grab	06/30/2016
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2016
	T257000	Total Phenols	Once/year	Grab	06/30/2016
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2016
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-	Once/year	Grab	06/30/2016

004 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Grab (Auth in lieu of composite)	06/30/2016
	T213000	Chemical Oxygen Demand	Once/year	Grab (Auth in lieu of composite)	06/30/2016
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2016
	T237000	pH	Once/year	Grab	06/30/2016
	T247000	Temperature	Once/year	Grab	06/30/2016
	T256000	Total Suspended Solids	Once/year	Grab (Auth in lieu of composite)	06/30/2016

005 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2016
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2016
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2016

PIMS
REPORT OF FIELD SAMPLING REQUIREMENTS
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **1020548800**

SPN	PREMISE ADDRESS		CITY	ST	ZIP	
	T237000	pH	Once/year	Grab		06/30/2016
	T247000	Temperature	Once/year	Grab		06/30/2016
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs		06/30/2016
	T257000	Total Phenols	Once/year	Grab		06/30/2016
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab		06/30/2016
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-	Once/year	Grab		06/30/2016

Scott Rehmer

From:	Glaus, Rodger <Rodger_Glaus@ssmhc.com>
Sent:	Thursday, August 13, 2015 5:54 PM
To:	Scott Rehmer
Cc:	STIREWALT, TODD1
Subject:	RE: blank permit application
Attachments:	Industrial User Questionaire_OwnershipChg_SLUH_8-13-15.pdf
Importance:	High

1020-5488-00

Scott
Attached is the IUQ completed for SSM Health St. Louis University Hospital. The questionnaire is being re-submitted prior to the expiration date due to an ownership change, where SSM Health is purchasing St. Louis University Hospital. This transaction will close on August 31, 2015. Please use the follow name on all correspondence for this hospital, **SSM Health St. Louis University Hospital.** I used the reduced water volumes you sent to me and then reduced all the questionnaire metrics respectively. Let me know if we need to make changes, but I tried to leave everything as was originally submitted by SLUH, other than obvious errors. As mentioned previously, the revised permit for ownership change has to be submitted at the closing of the SLUH purchase by SSM Health. You indicated 3 to 5 days to produce a permit. Let me know if this is going to take longer, as I need to route the revised permit by August 24th. Thanks for helping me get this process started so quickly.

Rodger Glaus, CHFM | Administrative Director – Environmental Safety, Security & Emergency Preparedness
St. Louis Network
1015 Corporate Square
Suite 110
St. Louis, MO 63132
Phone: 314-989-2155
Cell: 314-210-7177
Rodger_Glaus@ssmhc.com
ssmhealth.com/system
Brandy Kary – Assistant / 314-989-2151
Brandy_Kary@ssmhc.com

SSMHealth | Through our exceptional health care services, we reveal the healing presence of God.

From: Scott Rehmer [mailto:srehmer@stlmsd.com]
Sent: Thursday, August 13, 2015 2:01 PM
To: Glaus, Rodger
Subject: blank permit application

Hi Rodger,
Per our conversation, new ownership does require a new permit from MSD.
See attached files for a blank application, the 2011 completed form, and the current permit for SLU Hospital.
The total water usage estimate in 2011 looks it has declined; I will send you updated numbers today or tomorrow.
Let me know if you have any other questions.

Thank you,

Scott M. Rehmer
Assistant Engineer
Environmental Compliance
Department of Engineering
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, MO 63147
Phone: 314.436.8756
Fax: 314.436.8753
Customer Service: 314.768.6260
Email: srehmer@stlmsd.com

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SR
9-2-15

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: SSM **IDENTIFYING INFORMATION** 1020-5488-00

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		07/22-23/2015		07/22-23/2015		07/22-23/2015		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		11:00-11:00		10:30-10:30		11:45-11:45		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			90K		55K		8K	
Biological Oxygen Demand	*********	C	150	C	390	C	400	mg/l
Chemical Oxygen Demand	*********	C	370	C	430	C	680	mg/l
Total Suspended Solids	*********	C	42	C	55	C	340	mg/l
Total Phenol	21	G	<0.050	G	<0.050	C	<0.050	mg/l
Oil and Grease	200	G	5.8	G	19	G	12	mg/l
Silver (total)	0.5	C	<0.0020	G	<0.0020			mg/l
pH	5.5-11.5	G	8.31	G	7.30	G	7.55	units
Temperature	60	G	26.6	G	27.3	G	25.9	deg C
Total Toxic Organics *	5.844	G,C	0.1053	G,C	0.0745	G,C	0.0684	mg/l

*flows provided per note from R. Hicks on 8/7/15. SR

You must complete and sign the certification statements on the second page.

*Received TTO LAB DATA ON 09-02-2015. SR

[redacted]

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨			004		005			
DATES ON WHICH SAMPLES WERE COLLECTED ⇨			07/22-23/2015		07/22-23/2015			
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨			11:15-11:15		12:15-12:15			
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			600		3K			GPD
Biological Oxygen Demand	********	C	16	C	200			mg/l
Chemical Oxygen Demand	********	C	26	C	220			mg/l
Total Suspended Solids	********	C	9.2	C	15			mg/l
Total Phenol	21	G		G	<0.050			mg/l
Oil and Grease	200	G		G	<5.1			mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G	7.33	G	8.26			units
Temperature	60	G	35.9	G	25.6			deg C
Total Toxic Organics	5.844	G,C			0.0605			mg/l

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hicks
	Title: Director Building Services Telephone: 314-577-8072
	Signature: Robert Hicks Date: 8-8-15

Sample Points 1, 2, and 3

No changes

Use past usage numbers

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 5073988-01
Name: MSD 001 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 11:00
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	150	mg/L		07/24/15 10:04	KMN	SM 5210B
COD	370	mg/L		07/28/15 09:40	KMN	SM 5220D
Solids - total suspended solids (TSS)	42	mg/L		07/27/15 16:34	KLA	SM 2540D
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
1,2-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625*
1,3-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625*
1,4-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625*
2,4,5-Trichlorophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625*
2,4,6-Trichlorophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2,4-Dichlorophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2,4-Dimethylphenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2,4-Dinitrophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2,4-Dinitrotoluene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2,6-Dimethylaniline	< 5.00	ug/L		07/28/15 18:03	BP	EPA 625*
2,6-Dinitrotoluene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2-Chloronaphthalene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2-Chlorophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
2-Nitrophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
3,3'-Dichlorobenzidine	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
4,6-Dinitro-2-methylphenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625*
4-Bromophenyl phenyl ether	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
4-Chloro-3-methylphenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
4-Chlorophenylphenyl ether	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
4-Nitrophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Acenaphthene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Acenaphthylene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Anthracene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Azobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625*
Benzidine	44.3	ug/L		07/28/15 18:03	BP	EPA 625*
Benzo(a)anthracene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Benzo(a)pyrene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Benzo(b)fluoranthene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Benzo(g,h,i)perylene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Benzo(k)fluoranthene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Bis(2-chloroethoxy) methane	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Bis(2-chloroethyl) ether	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Bis(2-chloroisopropyl) ether	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Bis(2-ethylhexyl) phthalate	11.0	ug/L		07/28/15 18:03	BP	EPA 625
Butyl benzyl phthalate	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 5073988-01
Name: MSD 001 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 11:00
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Chrysene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Dibenzo(a,h)anthracene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Diethyl phthalate	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Dimethyl phthalate	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Di-n-butyl phthalate	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Di-n-octyl phthalate	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Diphenylamine	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Fluoranthene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Fluorene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Hexachlorobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Hexachlorobutadiene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Hexachlorocyclopentadiene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Hexachloroethane	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Indeno(1,2,3-cd)pyrene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Isophorone	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Naphthalene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Nitrobenzene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
N-Nitrosodimethylamine	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
N-Nitrosodi-n-propylamine	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Pentachlorophenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Phenanthrene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Phenol	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Pyrene	< 10.0	ug/L		07/28/15 18:03	BP	EPA 625
Surrogate: 2-Fluorophenol	*16 %*	*10-71.7*		*07/28/15 18:03*	*BP*	*EPA 625**
Surrogate: Phenol- d6	*12 %*	*10-79.9*		*07/28/15 18:03*	*BP*	*EPA 625**
Surrogate: Nitrobenzene-d5	*55 %*	*18.2-96.8*		*07/28/15 18:03*	*BP*	*EPA 625**
Surrogate: 2-Fluorobiphenyl	*54 %*	*12.9-97.1*		*07/28/15 18:03*	*BP*	*EPA 625**
Surrogate: 2,4,6-Tribromophenol	*46 %*	*10-90.1*		*07/28/15 18:03*	*BP*	*EPA 625**
Surrogate: p-Terphenyl-d14	*57 %*	*17.1-103*		*07/28/15 18:03*	*BP*	*EPA 625**
Total Metals - STL						
Silver	< 0.0020	mg/L		07/28/15 12:39	WPS	EPA 200.7

PDC Laboratories, Inc.
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ANALYTICAL RESULTS

Sample: 5073988-02
Name: MSD 001 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 11:00
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.31	pH Units		07/23/15 11:00	LLO	SM*
Temperature, Field Measured	26.6	°C		07/23/15 11:00	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	5.0	mg/L		07/30/15 13:45	KMM	EPA 1664
Phenol	< 0.050	mg/L		07/28/15 12:25	KLA	EPA 420.1
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,1,2-Trichloroethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,1-Dichloroethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,1-Dichloroethene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,2-Dichlorobenzene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,2-Dichloroethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,2-Dichloropropane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,3-Dichlorobenzene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
1,4-Dichlorobenzene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
2-Chloroethylvinyl ether	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Acrolein	< 50	ug/L		07/30/15 16:53	DAS	EPA 624
Acrylonitrile	< 10	ug/L		07/30/15 16:53	DAS	EPA 624
Benzene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Bromodichloromethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Bromoform	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Bromomethane	< 10	ug/L		07/30/15 16:53	DAS	EPA 624
Carbon tetrachloride	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Chlorobenzene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Chloroethane	< 10	ug/L		07/30/15 16:53	DAS	EPA 624
Chloroform	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Chloromethane	< 10	ug/L		07/30/15 16:53	DAS	EPA 624
cis-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Dibromochloromethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Ethylbenzene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
m,p-Xylene	< 10	ug/L		07/30/15 16:53	DAS	EPA 624*
Methylene chloride	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
o-Xylene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624*
Tetrachloroethene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Toluene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
trans-1,2-Dichloroethene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
trans-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Trichloroethene	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Trichlorofluoromethane	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 5073988-02
Name: MSD 001 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 11:00
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Vinyl chloride	< 5.0	ug/L		07/30/15 16:53	DAS	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*80 %*	*63.6-115*		*07/30/15 16:53*	*DAS*	*EPA 624*
Surrogate: Toluene-d8	*79 %*	*67.2-111*		*07/30/15 16:53*	*DAS*	*EPA 624*
Surrogate: Bromofluorobenzene	*93 %*	*82.2-133*		*07/30/15 16:53*	*DAS*	*EPA 624*

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
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ANALYTICAL RESULTS

Sample: 5073988-05
Name: MSD 002 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 10:30
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	390	mg/L		07/24/15 10:04	KMN	SM 5210B
COD	430	mg/L		07/29/15 09:41	KMN	SM 5220D
Solids - total suspended solids (TSS)	55	mg/L		07/27/15 16:34	KLA	SM 2540D
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
1,2-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625*
1,3-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625*
1,4-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625*
2,4,5-Trichlorophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625*
2,4,6-Trichlorophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2,4-Dichlorophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2,4-Dimethylphenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2,4-Dinitrophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2,4-Dinitrotoluene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2,6-Dimethylaniline	< 5.00	ug/L		07/28/15 18:56	BP	EPA 625*
2,6-Dinitrotoluene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2-Chloronaphthalene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2-Chlorophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
2-Nitrophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
3,3'-Dichlorobenzidine	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
4,6-Dinitro-2-methylphenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625*
4-Bromophenyl phenyl ether	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
4-Chloro-3-methylphenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
4-Chlorophenylphenyl ether	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
4-Nitrophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Acenaphthene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Acenaphthylene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Anthracene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Azobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625*
Benzidine	11.8	ug/L		07/28/15 18:56	BP	EPA 625*
Benzo(a)anthracene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Benzo(a)pyrene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Benzo(b)fluoranthene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Benzo(g,h,i)perylene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Benzo(k)fluoranthene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Bis(2-chloroethoxy) methane	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Bis(2-chloroethyl) ether	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Bis(2-chloroisopropyl) ether	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Bis(2-ethylhexyl) phthalate	12.7	ug/L		07/28/15 18:56	BP	EPA 625
Butyl benzyl phthalate	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 5073988-05
Name: MSD 002 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 10:30
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Chrysene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Dibenzo(a,h)anthracene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Diethyl phthalate	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Dimethyl phthalate	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Di-n-butyl phthalate	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Di-n-octyl phthalate	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Diphenylamine	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Fluoranthene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Fluorene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Hexachlorobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Hexachlorobutadiene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Hexachlorocyclopentadiene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Hexachloroethane	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Indeno(1,2,3-cd)pyrene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Isophorone	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Naphthalene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Nitrobenzene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
N-Nitrosodimethylamine	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
N-Nitrosodi-n-propylamine	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Pentachlorophenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Phenanthrene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Phenol	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Pyrene	< 10.0	ug/L		07/28/15 18:56	BP	EPA 625
Surrogate: 2-Fluorophenol	*24 %*	*10-71.7*		*07/28/15 18:56*	*BP*	*EPA 625*
Surrogate: Phenol- d5	*18 %*	*10-78.9*		*07/28/15 18:56*	*BP*	*EPA 625*
Surrogate: Nitrobenzene-d5	*53 %*	*18.2-96.8*		*07/28/15 18:56*	*BP*	*EPA 625*
Surrogate: 2-Fluorobiphenyl	*52 %*	*12.9-97.1*		*07/28/15 18:56*	*BP*	*EPA 625*
Surrogate: 2,4,6-Tribromophenol	*59 %*	*10-90.1*		*07/28/15 18:56*	*BP*	*EPA 625*
Surrogate: p-Terphenyl-d14	*59 %*	*17.1-103*		*07/28/15 18:56*	*BP*	*EPA 625*
Total Metals - STL						
Silver	< 0.0020	mg/L		07/28/15 12:47	WPS	EPA 200.7

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ANALYTICAL RESULTS

Sample: 5073988-06
Name: MSD 002 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 10:30
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	7.30	pH Units		07/23/15 10:30	LLO	SM*
Temperature, Field Measured	27.3	°C		07/23/15 10:30	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	18	mg/L		07/30/15 13:47	KMM	EPA 1664
Phenol	< 0.050	mg/L		07/28/15 12:25	KLA	EPA 420.1
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,1,2-Trichloroethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,1-Dichloroethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,1-Dichloroethene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,2-Dichlorobenzene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,2-Dichloroethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,2-Dichloropropane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,3-Dichlorobenzene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
1,4-Dichlorobenzene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
2-Chloroethylvinyl ether	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Acrolein	< 50	ug/L		07/30/15 17:41	DAS	EPA 624
Acrylonitrile	< 10	ug/L		07/30/15 17:41	DAS	EPA 624
Benzene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Bromodichloromethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Bromoform	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Bromomethane	< 10	ug/L		07/30/15 17:41	DAS	EPA 624
Carbon tetrachloride	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Chlorobenzene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Chloroethane	< 10	ug/L		07/30/15 17:41	DAS	EPA 624
Chloroform	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Chloromethane	< 10	ug/L		07/30/15 17:41	DAS	EPA 624
cis-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Dibromochloromethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Ethylbenzene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
m,p-Xylene	< 10	ug/L		07/30/15 17:41	DAS	EPA 624*
Methylene chloride	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
o-Xylene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624*
Tetrachloroethene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Toluene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
trans-1,2-Dichloroethene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
trans-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Trichloroethene	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Trichlorofluoromethane	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624

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ANALYTICAL RESULTS

Sample: 5073988-06
Name: MSD 002 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 10:30
Received: 07/23/15 16:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Vinyl chloride	< 5.0	ug/L		07/30/15 17:41	DAS	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*77 %*	*63.6-115*		*07/30/15 17:41*	*DAS*	*EPA 624*
Surrogate: Toluene-d8	*78 %*	*87.2-111*		*07/30/15 17:41*	*DAS*	*EPA 624*
Surrogate: Bromofluorobenzene	*89 %*	*82.2-133*		*07/30/15 17:41*	*DAS*	*EPA 624*

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ANALYTICAL RESULTS

Sample: 5073988-03
Name: MSD 003 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 11:45
Received: 07/23/15 16:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	480	mg/L		07/24/15 10:04	KMN	SM 5210B
COD	680	mg/L		07/29/15 09:41	KMN	SM 5220D
Solids - total suspended solids (TSS)	340	mg/L		07/27/15 16:34	KLA	SM 2540D
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
1,2-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
1,3-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
1,4-Dichlorobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
2,4,5-Trichlorophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
2,4,6-Trichlorophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2,4-Dichlorophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2,4-Dimethylphenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2,4-Dinitrophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2,4-Dinitrotoluene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2,6-Dimethylaniline	< 5.00	ug/L		07/28/15 18:29	BP	EPA 625*
2,6-Dinitrotoluene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2-Chloronaphthalene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2-Chlorophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
2-Nitrophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
3,3'-Dichlorobenzidine	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
4,6-Dinitro-2-methylphenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
4-Bromophenyl phenyl ether	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
4-Chloro-3-methylphenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
4-Chlorophenylphenyl ether	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
4-Nitrophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Acenaphthene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Acenaphthylene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Anthracene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Azobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
Benzidine	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625*
Benzo(a)anthracene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Benzo(a)pyrene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Benzo(b)fluoranthene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Benzo(g,h,i)perylene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Benzo(k)fluoranthene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Bis(2-chloroethoxy) methane	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Bis(2-chloroethyl) ether	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Bis(2-chloroisopropyl) ether	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Bis(2-ethylhexyl) phthalate	18.4	ug/L		07/28/15 18:29	BP	EPA 625
Butyl benzyl phthalate	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625

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ANALYTICAL RESULTS

Sample: 5073988-03
Name: MSD 003 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 11:45
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Chrysene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Dibenzo(a,h)anthracene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Diethyl phthalate	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Dimethyl phthalate	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Di-n-butyl phthalate	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Di-n-octyl phthalate	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Diphenylamine	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Fluoranthene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Fluorene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Hexachlorobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Hexachlorobutadiene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Hexachlorocyclopentadiene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Hexachloroethane	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Indeno(1,2,3-cd)pyrene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Isophorone	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Naphthalene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Nitrobenzene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
N-Nitrosodimethylamine	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
N-Nitrosodi-n-propylamine	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Pentachlorophenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Phenanthrene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Phenol	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Pyrene	< 10.0	ug/L		07/28/15 18:29	BP	EPA 625
Surrogate: 2-Fluorophenol	*18 %*	*10-71.7*		*07/28/15 18:29*	*BP*	*EPA 625**
Surrogate: Phenol- d5	*13 %*	*10-78.9*		*07/28/15 18:29*	*BP*	*EPA 625**
Surrogate: Nitrobenzene-d5	*51 %*	*18.2-96.8*		*07/28/15 18:29*	*BP*	*EPA 625**
Surrogate: 2-Fluorobiphenyl	*53 %*	*12.9-97.1*		*07/28/15 18:29*	*BP*	*EPA 625**
Surrogate: 2,4,6-Tribromophenol	*53 %*	*10-90.1*		*07/28/15 18:29*	*BP*	*EPA 625**
Surrogate: p-Terphenyl-d14	*69 %*	*17.1-103*		*07/28/15 18:29*	*BP*	*EPA 625**

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ANALYTICAL RESULTS

Sample: 5073988-04
Name: MSD 003 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 11:45
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	7.55	pH Units		07/23/15 11:45	LLO	SM*
Temperature, Field Measured	25.9	°C		07/23/15 11:45	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	12	mg/L		07/30/15 13:48	KMM	EPA 1664
Phenol	< 0.050	mg/L		07/28/15 12:25	KLA	EPA 420.1
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,1,2-Trichloroethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,1-Dichloroethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,1-Dichloroethene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,2-Dichlorobenzene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,2-Dichloroethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,2-Dichloropropane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,3-Dichlorobenzene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
1,4-Dichlorobenzene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
2-Chloroethylvinyl ether	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Acrolein	< 50	ug/L		07/30/15 17:17	DAS	EPA 624
Acrylonitrile	< 10	ug/L		07/30/15 17:17	DAS	EPA 624
Benzene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Bromodichloromethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Bromoform	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Bromomethane	< 10	ug/L		07/30/15 17:17	DAS	EPA 624
Carbon tetrachloride	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Chlorobenzene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Chloroethane	< 10	ug/L		07/30/15 17:17	DAS	EPA 624
Chloroform	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Chloromethane	< 10	ug/L		07/30/15 17:17	DAS	EPA 624
cis-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Dibromochloromethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Ethylbenzene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
m,p Xylene	< 10	ug/L		07/30/15 17:17	DAS	EPA 624*
Methylene chloride	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
o-Xylene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624*
Tetrachloroethene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Toluene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
trans-1,2-Dichloroethene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
trans-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Trichloroethene	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Trichlorofluoromethane	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624

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3278 North Highway 67
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ANALYTICAL RESULTS

Sample: 5073988-04
Name: MSD 003 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 11:45
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Vinyl chloride	< 5.0	ug/L		07/30/15 17:17	DAS	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*87 %*	*63.6-115*		*07/30/15 17:17*	*DAS*	*EPA 624**
Surrogate: Toluene-d8	*79 %*	*67.2-111*		*07/30/15 17:17*	*DAS*	*EPA 624**
Surrogate: Bromofluorobenzene	*90 %*	*62.2-133*		*07/30/15 17:17*	*DAS*	*EPA 624**

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ANALYTICAL RESULTS

Sample: 5073988-07
Name: MSD 005 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 12:15
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	200	mg/L		07/24/15 10:04	KMN	SM 5210B
COD	220	mg/L		07/29/15 09:41	KMN	SM 5220D
Solids - total suspended solids (TSS)	15	mg/L		07/27/15 16:34	KLA	SM 2540D
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
1,2-Dichlorobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
1,3-Dichlorobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
1,4-Dichlorobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
2,4,5-Trichlorophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
2,4,6-Trichlorophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2,4-Dichlorophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2,4-Dimethylphenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2,4-Dinitrophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2,4-Dinitrotoluene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2,6-Dimethylaniline	< 5.00	ug/L		07/28/15 19:23	BP	EPA 625*
2,6-Dinitrotoluene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2-Chloronaphthalene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2-Chlorophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
2-Nitrophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
3,3'-Dichlorobenzidine	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
4,6-Dinitro-2-methylphenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
4-Bromophenyl phenyl ether	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
4-Chloro-3-methylphenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
4-Chlorophenylphenyl ether	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
4-Nitrophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Acenaphthene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Acenaphthylene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Anthracene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Azobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
Benzidine	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625*
Benzo(a)anthracene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Benzo(a)pyrene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Benzo(b)fluoranthene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Benzo(g,h,i)perylene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Benzo(k)fluoranthene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Bis(2-chloroethoxy) methane	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Bis(2-chloroethyl) ether	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Bis(2-chloroisopropyl) ether	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Bis(2-ethylhexyl) phthalate	10.5	ug/L		07/28/15 19:23	BP	EPA 625
Butyl benzyl phthalate	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 5073988-07
Name: MSD 005 Comp
Matrix: Waste Water - Composite

Sampled: 07/23/15 12:15
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Chrysene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Dibenzo(a,h)anthracene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Diethyl phthalate	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Dimethyl phthalate	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Di-n-butyl phthalate	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Di-n-octyl phthalate	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Diphenylamine	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Fluoranthene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Fluorene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Hexachlorobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Hexachlorobutadiene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Hexachlorocyclopentadiene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Hexachloroethane	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Indeno(1,2,3-cd)pyrene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Isophorone	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Naphthalene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Nitrobenzene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
N-Nitrosodimethylamine	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
N-Nitrosodi-n-propylamine	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Pentachlorophenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Phenanthrene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Phenol	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Pyrene	< 10.0	ug/L		07/28/15 19:23	BP	EPA 625
Surrogate: 2-Fluorophenol	*21 %*	*10-71.7*		*07/28/15 19:23*	*BP*	*EPA 625**
Surrogate: Phenol- d5	*18 %*	*10-78.9*		*07/28/15 19:23*	*BP*	*EPA 625**
Surrogate: Nitrobenzene-d5	*52 %*	*18.2-96.8*		*07/28/15 19:23*	*BP*	*EPA 625**
Surrogate: 2-Fluorobiphenyl	*52 %*	*12.9-97.1*		*07/28/15 19:23*	*BP*	*EPA 625**
Surrogate: 2,4,6-Tribromophenol	*64 %*	*10-90.1*		*07/28/15 19:23*	*BP*	*EPA 625**
Surrogate: p-Terphenyl-d14	*58 %*	*17.1-103*		*07/28/15 19:23*	*BP*	*EPA 625**

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 5073988-08
Name: MSD 005 Grab
Matrix: Waste Water - Grab

Sampled: 07/23/15 12:15
Received: 07/23/15 16:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.28	pH Units		07/23/15 12:15	LLO	SM*
Temperature, Field Measured	25.8	°C		07/23/15 12:15	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	< 5.1	mg/L		07/30/15 13:18	KMM	EPA 1664
Phenol	< 0.050	mg/L		07/28/15 12:25	KLA	EPA 420.1
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,1,2-Trichloroethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,1-Dichloroethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,1-Dichloroethene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,2-Dichlorobenzene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,2-Dichloroethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,2-Dichloropropane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,3-Dichlorobenzene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
1,4-Dichlorobenzene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
2-Chloroethylvinyl ether	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Acrolein	< 50	ug/L		07/30/15 18:04	DAS	EPA 624
Acrylonitrile	< 10	ug/L		07/30/15 18:04	DAS	EPA 624
Benzene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Bromodichloromethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Bromoform	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Bromomethane	< 10	ug/L		07/30/15 18:04	DAS	EPA 624
Carbon tetrachloride	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Chlorobenzene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Chloroethane	< 10	ug/L		07/30/15 18:04	DAS	EPA 624
Chloroform	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Chloromethane	< 10	ug/L		07/30/15 18:04	DAS	EPA 624
cis-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Dibromochloromethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Ethylbenzene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
m,p-Xylene	< 10	ug/L		07/30/15 18:04	DAS	EPA 624*
Methylene chloride	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
o-Xylene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624*
Tetrachloroethene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Toluene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
trans-1,2-Dichloroethene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
trans-1,3-Dichloropropene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Trichloroethene	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Trichlorofluoromethane	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 5073988-08
Name: MSD 005 Grab
Matrix: Waste Water - Grab
Sampled: 07/23/15 12:15
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Vinyl chloride	< 5.0	ug/L		07/30/15 18:04	DAS	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*81 %*	*63.6-115*		*07/30/15 18:04*	*DAS*	*EPA 624**
Surrogate: Toluene-d8	*88 %*	*87.2-111*		*07/30/15 18:04*	*DAS*	*EPA 624**
Surrogate: Bromofluorobenzene	*90 %*	*82.2-122*		*07/30/15 18:04*	*DAS*	*EPA 624**

Sample: 5073988-09
Name: MSD 004 Annual Comp.
Matrix: Waste Water
Sampled: 07/23/15 11:15
Received: 07/23/15 15:40

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	7.33	pH Units		07/23/15 11:15	LLO	SM*
Temperature, Field Measured	35.5	°C		07/23/15 11:15	LLO	SM*
General Chemistry - STL						
BOD	16	mg/L		07/24/15 10:04	KMN	SM 5210B
COD	26	mg/L		07/28/15 09:24	KMN	SM 5220D
Solids - total suspended solids (TSS)	9.2	mg/L		07/27/15 16:34	KLA	SM 2540D

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOG# 5073988 LOGGED BY: KG LAB PROJ # TEMPLATE: PROJ. MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED	C		MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles	Phenol (2 bottle)	REMARKS
MSD 001	7/22-23/15	11:00-11:00		x	WW	H2SO4,4C	X							
(Annual)	↓	↓		x	WW	Cool 4C		x						pH = 8.31
				x	WW	HNO3			x					Temp = 26.6°C
				x	WW	Cool 4C					x			
	7/23/15	11:00	x		WW	H2SO4, 4C				x			x	
	↓	↓	x		WW	HCl, 4C						x		
MSD 003	7/22-23/15	11:45-11:45		x	WW	H2SO4,4C	X							pH = 7.55
(Annual)	↓	↓		x	WW	Cool 4C		x						Temp = 25.9°C
				x	WW	Cool 4C					x			
	7/23/15	11:45	x		WW	H2SO4, 4C				x			x	Field Charge
	↓		x		WW	HCl, 4C						x		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (4-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Featrekin (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/23/15	15:38	[signature]	7/23/15	15:40
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	2.6	degrees C
Chill process started prior to receipt	Y x N	
Sample(s) received on ice	Y x N	
Proper bottles received in good condition	Y x N	
Bottles filled with adequate volume	Y x N	
Samples received within hold time(s)	Y x N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[redacted]

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED
PHONE NUMBER: 314-577-8072	FAX NUMBER	EMAIL ADDRESS

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

ANALYSIS REQUESTED

(FOR LAB USE ONLY): LOGIN # 5073988; LOGGED BY: KG; LAB PROJ #; TEMPLATE:; PROJ. MGR.:

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles	Phenol (2 bottle)	REMARKS
MSD 002	7/22-23/15	10:30-10:30		x	WW	H2SO4,4C	X							
(Annual)	↓	↓		x	WW	Cool 4C		x						pH = 7.30
				x	WW	HNO3			x					Temp = 27.3°C
				x	WW	Cool 4C					x			
	7/23/15	10:30	x		WW	H2SO4, 4C				x			x	
	↓	↓	x		WW	HCl, 4C						x		
MSD 005	7/22-23/15	12:15-12:15		x	WW	H2SO4,4C	X							pH = 8.28
(Annual)	↓	↓		x	WW	Cool 4C		x						Temp = 25.6°C
				x	WW	Cool 4C					x			
	7/23/15	12:15	x		WW	H2SO4, 4C				x			x	Field Charge
	↓	↓	x		WW	HCl, 4C						x		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrack (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/23/15	15:38	[signature]	7/23/15	15:40
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	6.9	degrees C
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

PDC Laboratories, Inc. – St. Louis
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Florissant, MO 63033
www.pdclab.com www.envirometrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOG# 5073988
			MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSI-SLUDGE, NAS-SOLID		LOGGED BY: KG
					LAB PROJ #
					TEMPLATE:
					PROJ. MGR:

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	PRESERVATIVE	COD	BOD, TSS						REMARKS
MSD 004	7/22-23/15	11:15-11:15		X	WW	H2SO4,4C	X							
(Annual)	↓	↓		X	WW	Cool 4C		X						pH = 7.33
														Temp = 3.5.9°C
														at 11:15
														Field Charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (4-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Data Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/23/15	13:38	[signature]	7/23/15	15:40
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	6.8	degrees C
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

1020-5488-00

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ■(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KF I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Associate Radiation Safety Officer Telephone: 977-6896

Signature: Date: 7/6/15

RECEIVED
JUL 06 2015
DIVISION OF
ENVIRONMENTAL COMPLIANCE

SR
5/6/15

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

1020-5488-00.

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		04/08-09/2015		04/08-09/2015		04/08-09/2015		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		13:30-13:30		13:00-13:00		14:00-14:00		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW (*)			90 K		55K		8K	
Biological Oxygen Demand	*********	C	69	C	370	C	58	mg/l
Chemical Oxygen Demand	*********	C	290	C	720	C	520	mg/l
Total Suspended Solids	*********	C	36	C	54	C	36	mg/l
Total Phenol	21	G	0.073	G	0.063	G	<0.050	mg/l
Oil and Grease	200	G	7.7	G	32	G	20	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020	C		mg/l
pH	5.5-11.5	G	8.33	G	8.32	G	7.66	units
Temperature	60	G	22.5	G	24.9	G	22.4	deg C
Total Toxic Organics	5.844	G,C						mg/l
(*) see third page								

You must complete and sign the certification statements on the second page.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories Inc

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨				04/08-09/2015				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨				14:15-14:15				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW (*)			600		3K			
Biological Oxygen Demand	*********	C		C	47			mg/l
Chemical Oxygen Demand	*********	C		C	320			mg/l
Total Suspended Solids	*********	C		C	28			mg/l
Total Phenol	21	G		G	0.072			mg/l
Oil and Grease	200	G		G	10			mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G		G	8.41			units
Temperature	60	G		G	21.7			deg C
Total Toxic Organics	5.844	G,C						mg/l
(*) see next page								

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived: RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur: RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:

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

Print or type name of signing official: Robert Hicks

Title: Director - Building Service Telephone: 314-577-8072

Signature: [signature] Date: 5-5-15

FAX

TO:MSD

FROM:ROBERT HICKS / SLU HOSPITAL

FAX: 314-436-8753

FAX: 314/268/5563

PHONE:

PHONE:

SUBJECT:

DATE: May 5, 2015

COMMENTS: 2nd quarter test results

⊛ Use past water usage numbers

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 5041645-01
Name: MSD 001 Comp
Matrix: Waste Water - Composite

Sampled: 04/09/15 13:30
Received: 04/09/15 16:51

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	69	mg/L		04/10/15 13:55	KMN	SM 5210B
COD	260	mg/L		04/14/15 09:59	KMN	SM 5220D
Solids - total suspended solids (TSS)	36	mg/L		04/14/15 17:00	KMN	SM 2540D
Total Metals - STL						
Silver	< 0.0020	mg/L		04/14/15 15:27	WPS	EPA 200.7

Sample: 5041645-02
Name: MSD 001 Grab
Matrix: Waste Water - Grab

Sampled: 04/08/15 13:30
Received: 04/09/15 16:51

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.33	pH Units		04/08/15 13:30	LLO	SM*
Temperature, Field Measured	22.5	°C		04/08/15 13:30	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	7.7	mg/L		04/14/15 11:56	KLA	EPA 1664
Phenol	0.073	mg/L		04/10/15 09:51	KLA	EPA 420.1

Sample: 5041645-03
Name: MSD 002 Comp
Matrix: Waste Water - Composite

Sampled: 04/09/15 13:00
Received: 04/09/15 10:51

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	370	mg/L		04/10/15 13:55	KMN	SM 5210B
COD	720	mg/L		04/14/15 09:59	KMN	SM 5220D
Solids - total suspended solids (TSS)	54	mg/L		04/14/15 17:00	KMN	SM 2540D
Total Metals - STL						
Silver	< 0.0020	mg/L		04/14/15 15:29	WPS	EPA 200.7

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 5041645-04
Name: MSD 002 Grab
Matrix: Waste Water - Grab

Sampled: 04/09/15 13:00
Received: 04/09/15 16:51

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.32	pH Units		04/09/15 13:00	LLO	SM*
Temperature, Field Measured	24.9	°C		04/09/15 13:00	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	32	mg/L		04/14/15 11:58	KLA	EPA 1664
Phenol	0.063	mg/L		04/10/15 09:51	KLA	EPA 420.1

Sample: 5041645-05
Name: MSD 003 Comp
Matrix: Waste Water - Composite

Sampled: 04/09/15 14:00
Received: 04/09/15 16:51

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	58	mg/L		04/10/15 13:55	KMN	SM 5210B
COD	520	mg/L		04/14/15 09:59	KMN	SM 5220D
Solids - total suspended solids (TSS)	36	mg/L		04/14/15 17:00	KMN	SM 2540D

Sample: 5041645-06
Name: MSD 003 Grab
Matrix: Waste Water - Grab

Sampled: 04/09/15 14:00
Received: 04/09/15 16:51

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	7.66	pH Units		04/09/15 14:00	LLO	SM*
Temperature, Field Measured	22.4	°C		04/09/15 14:00	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	20	mg/L		04/14/15 11:58	KLA	EPA 1664
Phenol	< 0.050	mg/L		04/10/15 09:51	KLA	EPA 420.1

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 5041645-07
Name: MSD 005 Comp
Matrix: Waste Water - Composite

Sampled: 04/09/15 14:15
Received: 04/09/15 16:51

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
General Chemistry - STL						
BOD	47	mg/L		04/10/15 13:55	KMN	SM 5210B
COD	320	mg/L		04/14/15 09:59	KMN	SM 5220D
Solids - total suspended solids (TSS)	28	mg/L		04/14/15 17:00	KMN	SM 2540D

Sample: 5041645-08
Name: MSD 005 Grab
Matrix: Waste Water - Grab

Sampled: 04/09/15 14:15
Received: 04/09/15 16:51

Parameter	Result	Unit	Qualifier	Analyzed	Analyst	Method
Field - STL						
pH	8.41	pH Units		04/09/15 14:15	LLO	SM*
Temperature, Field Measured	21.7	°C		04/09/15 14:15	LLO	SM*
General Chemistry - STL						
Oil & Grease - total	10	mg/L		04/14/15 11:56	KLA	EPA 1664
Phenol	0.072	mg/L		04/10/15 09:51	KLA	EPA 420.1

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	
P.O. NUMBER	
MEANS SHIPPED	
PHONE NUMBER	314-577-8072
FAX NUMBER	
EMAIL ADDRESS	

MATRIX TYPES:
WW-WASTEWATER
DW-DRINKING WATER
GW-GROUND WATER
WWSL-SLUDGE
NAS-SOLID

(FOR LAB USE ONLY)
LOGIN # 5041615
LOGGED BY: HE
LAB PROJ #
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS SHOWN ON LAB REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	4/8-9/15	13:30-13:30		X	WW	H2SO4,4C	X							
(Quarterly)				X	WW	Coo: 4C		X						pH = 8.32
				X	WW	HNO3			X					Temp = 22.5C
	4/9/15	13:30	X		WW	H2SO4, 4C				X				
			X		WW	H2SO4, 4C					X			
MSD 002	4/8-9/15	13:00-13:00		X	WW	H2SO4,4C	X							pH = 8.32
(Quarterly)				X	WW	Cool 4C		X						Temp = 24.9C
				X	WW	HNO3			X					
	4/9/15	13:00	X		WW	H2SO4, 4C				X				
			X		WW	H2SO4, 4C					X			Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon recept at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	4/9/15	15:30	[signature]	4/9/15	15:30
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	7.5	degrees C
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle	Y or N	

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	[FOR LAB USE ONLY]
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN # LOGGED BY: LAB PROJ # TEMPLATE: PROJ. MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

SAMPLE DESCRIPTION AS YOU WOULD LIKE IT REPORTED	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	4/8-9/15	14:00-14:00		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 7.66
	4/9/15	14:00	X		WW	H2SO4, 4C				X				Temp = 22.4°C
	↓	↓	X		WW	H2SO4, 4C					X			
MSD 005	4/8-9/15	14:15-14:15		X	WW	H2SO4,4C	X							pH = 8.41
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 21.7°C
	4/9/15	14:15	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (1-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	4/9/15	15:20	[signature]	4/9/15	15:20
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS (FOR LAB USE ONLY)

Sample Temperature upon receipt _____ degrees C
Chill process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

SR

PART I: IDENTIFYING INFORMATION 1020-5488-00

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ■(JAN-MAR) □(APR-JUNE) □(JULY-SEPT) □(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KA I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report:

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Associate Radiation Safety Officer Telephone: 977-6896

Signature: Date: 4/13/15

RECEIVED
APR 13 2015
DIVISION OF
ENVIRONMENTAL COMPLIANCE

SR
2/10

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION 1020548800

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☒(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		01/15-15/2015		01/15-16/2015		01/15-16/2015		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		13:30-13:30		13:00-13:00		14:00-14:00		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			90K		55K		8K	GPD
Biological Oxygen Demand	********	C	74	C	290	C	130	mg/l
Chemical Oxygen Demand	********	C	210	C	630	C	260	mg/l
Total Suspended Solids	********	C	30	C	120	C	60	mg/l
Total Phenol	21	G	0.16	G	0.19	G	0.24	mg/l
Oil and Grease	200	G	6.8	G	21	G	15	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020			mg/l
pH	5.5-11.5	G	8.56	G	8.47	G	8.17	units
Temperature	60	G	17.0	G	21.1	G	19.6	deg C
Total Toxic Organics	5.844	G,C						mg/l
*flows per pc with								
R. Hicks on 2/10/15. SR								

You must complete and sign the certification statements on the second page.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☒(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨				01/15-16/2015				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨				14:15-14:15				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			600		3,000			GPD
Biological Oxygen Demand	*********	C		C	140			mg/l
Chemical Oxygen Demand	********	C		C	340			mg/l
Total Suspended Solids	********	C		C	68			mg/l
Total Phenol	21	G		G	0.18			mg/l
Oil and Grease	200	G		G	17			mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G		G	8.59			units
Temperature	60	G		G	14.9			deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hicks
	Title: Director Telephone: 314-577-8072
	Signature: [signature] Date: 1/31/15

Use current water usage estimate

PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 01/16/15 15:52
Report Date: 01/28/15
Customer #: 277382

"Laboratory Results"

Sample No: 5012280-01
Sample Description: MSD 001 Comp.

Collect Date: 01/16/15 13:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	74 mg/L		01/17/15 12:05	KLA	SM 5210B	04KS
COD	210 mg/L		01/20/15 15:37	DAS	SM 5220D	04KS
Solids - total suspended solids (TSS)	30 mg/L		01/19/15 14:00	kmn	SM 2540D	04KS
Total Metals - STL						
Silver	< 0.0020 mg/L		01/19/15 14:04	WPS	EPA 200.7	04KS

Sample No: 5012280-02
Sample Description: MSD 001 Grab

Collect Date: 01/16/15 13:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.58 pH Units		01/16/15 13:30	LLO	SM*	
Temperature, Field Measured	17.0 °C		01/16/15 13:30	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	6.8 mg/L		01/21/15 14:52	KLA	EPA 1664	04KS
Phenol	0.18 mg/L		01/20/15 10:30	DWM	EPA 420.1	04KS

Sample No: 5012280-03
Sample Description: MSD 002 Comp.

Collect Date: 01/16/15 13:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	290 mg/L		01/17/15 12:05	KLA	SM 5210B	04KS
COD	830 mg/L		01/20/15 15:37	DAS	SM 5220D	04KS
Solids - total suspended solids (TSS)	120 mg/L		01/19/15 14:00	kmn	SM 2540D	04KS
Total Metals - STL						
Silver	< 0.0020 mg/L		01/19/15 14:10	WPS	EPA 200.7	04KS

5012280

PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 01/16/15 15:52
Report Date: 01/28/15
Customer #: 277382

"Laboratory Results"

Sample No: 5012280-04
Sample Description: MSD 002 Grab

Collect Date: 01/16/15 13:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.47 pH Units		01/16/15 13:00	LLO	SM*	
Temperature, Field Measured	21.1 °C		01/16/15 13:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	21 mg/L		01/21/15 14:52	KLA	EPA 1664	04KS
Phenol	0.19 mg/L		01/20/15 10:30	DWM	EPA 420.1	04KS

Sample No: 5012280-05
Sample Description: MSD 003 Comp.

Collect Date: 01/16/15 14:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	130 mg/L		01/17/15 12:05	KLA	SM 5210B	04KS
COD	280 mg/L		01/20/15 15:37	DAS	SM 5220D	04KS
Solids - total suspended solids (TSS)	60 mg/L		01/19/15 14:00	kmn	SM 2540D	04KS

Sample No: 5012280-06
Sample Description: MSD 003 Grab

Collect Date: 01/16/15 14:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.17 pH Units		01/16/15 14:00	LLO	SM*	
Temperature, Field Measured	19.8 °C		01/16/15 14:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	15 mg/L		01/21/15 14:52	KLA	EPA 1664	04KS
Phenol	0.24 mg/L		01/20/15 10:30	DWM	EPA 420.1	04KS

5012280

PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 01/16/15 15:52
Report Date: 01/28/15
Customer #: 277382

"Laboratory Results"

Sample No: 5012280-07
Sample Description: MSD 005 Comp.

Collect Date: 01/16/15 14:15
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	140 mg/L		01/17/15 12:05	KLA	SM 5210B	04KS
COD	340 mg/L		01/20/15 15:37	DAS	SM 5220D	04KS
Solids - total suspended solids (TSS)	68 mg/L		01/19/15 14:00	kmn	SM 2540D	04KS

Sample No: 5012280-08
Sample Description: MSD 005 Grab

Collect Date: 01/16/15 14:15
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.59 pH Units		01/16/15 14:15	LLO	SM*	
Temperature, Field Measured	14.9 °C		01/16/15 14:15	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	17 mg/L		01/21/15 14:52	KLA	EPA 1664	04KS
Phenol	0.16 mg/L		01/20/15 10:30	DWM	EPA 420.1	04KS

5012280

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 01/16/15 15:52
Report Date: 01/28/15
Customer #: 277382

"Laboratory Results"

Notes

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Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10336); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)

SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program

STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Missouri Department of Natural Resources Drinking Water Certifications: Missouri (1050)

* Not a TNI accredited analyte

Specific method revisions used for analysis are available upon request.

Barbara G. Pandolfo

Certified by: Barb Pandolfo, Project Manager

5012280

SLUH BLDG SVCS

01/31/2015 00:46 3142685563

MSD 038104

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Florissant, MO 63033
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CHAIN OF CUSTODY RECORD

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ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
[redacted]				LOGIN #: 501280
PHONE NUMBER: 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGGED BY: PL
		MATRIX TYPES: WW WASTEWATER, DW DRINKING WATER, GW GROUND WATER, WS SLUDGE, NAS SOLID		LAB PROJ #: TEMPLATE: PROJ. MGR:

SAMPLE DESCRIPTION (Please Be Specific)	DATE SAMPLED	TIME SAMPLED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	1/15-16/15	13:30-13:30		X	WW	H2SO4, 4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.56
				X	WW	HNO3			X					Temp = 7.0°C
	1/16/15	13:30	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
MSD 002	1/15-16/15	13:00-13:00		X	WW	H2SO4, 4C	X							pH = 8.47
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 21.1°C
				X	WW	HNO3			X					
	1/16/15	13:00	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Expedited (3 Bus Days) ☐ 2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	1/16/15	13:45	[signature]	1/16/15	15:45
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	1.6 degrees C	
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(includes typical field parameters)
Date and Time taken from sample bottle		

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PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN # ____ LOGGED BY: ____ LAB PROJ # TEMPLATE: PROJ. MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

[illegible]	DATE COLLECTED	TIME COLLECTED	[illegible]	[illegible]	[illegible]	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	1/15-16/15	14:00-14:00		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.17
	1/16/15	14:00	X		WW	H2SO4, 4C				X				Temp = 19.6°C
	↓	↓	X		WW	H2SO4, 4C					X			
MSD 005	1/15-16/15	14:15-14:15		X	WW	H2SO4,4C	X							pH = 8.59
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 14.9°C
	1/16/15	14:15	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-11 Bus Days) ☐ Rush (5 Bus Days) ☐ Fast Rush (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due ____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. ____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	1/16/15	15:45	[signature]	1/16/15	15:45
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt ____ degrees C.
Chill process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

Page 6 of 10

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION 1020548800

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ■(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KF I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Associate Radiation Safety Officer Telephone: 977-6896

Signature: Date: 1/12/15

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ENVIRONMENTAL COMPLIANCE

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12/24

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

1020-5488-00

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☒(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS			001		002		003	
DATES ON WHICH SAMPLES WERE COLLECTED			12/08-09/2014		12/08-09/2014		12/08-09/2014	
TIMES AT WHICH SAMPLES WERE COLLECTED			11:00-11:00		10:30-10:30		11:30-11:30	
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			90K		55K		8K	GPD
Biological Oxygen Demand	********	C	160	C	150	C	97	mg/l
Chemical Oxygen Demand	********	C	380	C	420	C	330	mg/l
Total Suspended Solids	********	C	140	C	50	C	47	mg/l
Total Phenol	21	G	0.079	G	0.079	G	0.17	mg/l
Oil and Grease	200	G	8.6	G	96	G	10	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020			mg/l
pH	5.5-11.5	G	8.44	G	7.61	G	8.80	units
Temperature	60	G	15.4	G	16.4	G	20.1	deg C
Total Toxic Organics	5.844	G,C						mg/l

*provided per pc w/ R. Hicks on 12/24/14. SR

You must complete and sign the certification statements on the second page.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

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Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨			005		004				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨			12/08-09/2014						
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨			11:45-11:45						
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)							UNITS
FLOW *			3K		600				GPD
Biological Oxygen Demand	*********	C	120						mg/l
Chemical Oxygen Demand	*********	C	270		Annual				mg/l
Total Suspended Solids	*********	C	66		Sampling,				mg/l
Total Phenol	21	G	0.19		Last was				mg/l
Oil and Grease	200	G	28		Q3-2014.				mg/l
Silver (total)	0.5	C							mg/l
pH	5.5-11.5	G	8.19						units
Temperature	60	G	15.0						deg C
Total Toxic Organics	5.844	G,C							mg/l

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived: RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur: RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hicks
	Title: Director - Building Services Telephone: 314-577-8072
	Signature: [signature] Date: 12-23-14

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 12/09/14 13:40
Report Date: 12/19/14
Customer #: 277382

"Laboratory Results"

Sample No: 4121670-01
Sample Description: MSD 001 Comp

Collect Date: 12/09/14 11:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	160 mg/L		12/11/14 09:02	KLA	SM 5210B	04KS
COD	380 mg/L		12/15/14 15:37	DAS	SM 5220D	04KS
Solids - total suspended solids (TSS)	140 mg/L		12/10/14 17:45	das	SM 2540D	04KS
Total Metals - STL						
Silver	< 0.0020 mg/L		12/15/14 18:10	WPS	EPA 200.7	04KS

Sample No: 4121670-02
Sample Description: MSD 001 Grab

Collect Date: 12/09/14 11:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.44 pH Units		12/09/14 11:00	LLO	SM*	
Temperature, Field Measured	15.4 °C		12/09/14 11:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	6.5 mg/L		12/17/14 18:28	KLA	EPA 1664	04KS
Phenol	0.079 mg/l		12/17/14 08:00	DWM	EPA 420.1	04KS

Sample No: 4121670-03
Sample Description: MSD 002 Comp.

Collect Date: 12/09/14 10:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	150 mg/L		12/10/14 08:58	KLA	SM 5210B	04KS
COD	420 mg/L		12/15/14 15:37	DAS	SM 5220D	04KS
Solids - total suspended solids (TSS)	50 mg/L		12/10/14 17:45	das	SM 2540D	04KS
Total Metals - STL						
Silver	< 0.0020 mg/L		12/15/14 16:26	WPS	EPA 200.7	04KS

4121670

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 12/09/14 13:40
Report Date: 12/19/14
Customer #: 277382

"Laboratory Results"

Sample No: 4121670-04
Sample Description: MSD 002 Grab

Collect Date: 12/09/14 10:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	7.61 pH Units		12/09/14 10:30	LLO	SM*	
Temperature, Field Measured	16.4 °C		12/09/14 10:30	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	98 mg/L		12/18/14 12:51	kla	EPA 1664	04KS
Phenol	0.079 mg/L		12/17/14 08:00	DWM	EPA 420.1	04KS

Sample No: 4121670-05
Sample Description: MSD 003 Comp.

Collect Date: 12/09/14 11:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	97 mg/L		12/11/14 09:02	KLA	SM 5210B	04KS
COD	330 mg/L		12/15/14 15:37	DAS	SM 5220D	04KS
Solids - total suspended solids (TSS)	47 mg/L		12/12/14 11:00	das	SM 2540D	04KS

Sample No: 4121670-06
Sample Description: MSD 003 Grab

Collect Date: 12/09/14 11:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.08 pH Units		12/09/14 11:30	LLO	SM*	
Temperature, Field Measured	20.1 °C		12/09/14 11:30	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	10 mg/L		12/18/14 12:51	kla	EPA 1664	04KS
Phenol	0.17 mg/L		12/17/14 00:00	DWM	EPA 420.1	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 12/09/14 13:40
Report Date: 12/19/14
Customer #: 277382

"Laboratory Results"

Sample No: 4121670-07
Sample Description: MSD 005 Comp.

Collect Date: 12/09/14 11:45
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	120 mg/L		12/11/14 09:02	KLA	SM 5210B	04KS
COD	270 mg/L		12/15/14 15:37	DAS	SM 5220D	04KS
Solids - total suspended solids (TSS)	68 mg/L		12/12/14 11:00	das	SM 2540D	04KS

Sample No: 4121670-08
Sample Description: MSD 005 Grab

Collect Date: 12/09/14 11:45
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.19 pH Units		12/09/14 11:45	LLO	SM*	
Temperature, Field Measured	15.0 °C		12/09/14 11:45	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	28 mg/L		12/16/14 12:51	kla	EPA 1664	04KS
Phenol	0.19 mg/L		12/17/14 09:00	DWM	EPA 420.1	04KS

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3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 12/09/14 13:40
Report Date: 12/19/14
Customer #: 277382

"Laboratory Results"

Notes

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NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10336); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)

SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program

STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Missouri Department of Natural Resources Drinking Water Certifications: Missouri (1050)

* Not a TNI accredited analyte

Specific method revisions used for analysis are available upon request.

Barbara G. Pandolfo

Certified by: Barb Pandolfo, Project Manager

4121670

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Florissant, MO 63033
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CHAIN OF CUSTODY RECORD

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ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[redacted]

PROJECT NUMBER | P.O. NUMBER | MEANS SHIPPED | ANALYSIS REQUESTED | (FOR LAB USE ONLY)

PHONE NUMBER: 314-577-8072 | FAX NUMBER | EMAIL ADDRESS

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

LOG IN #: 4121670
LOGGED BY: HE
LAB PROJ #:
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	12/8-9/14	11:00-11:00		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.44
				x	WW	HNO3			x					Temp = 15.4°C
	12/9/14	11:00	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 002	12/8-9/14	10:30-10:30		x	WW	H2SO4,4C	X							pH = 7.61
(Quarterly)	↓	↓		x	WW	Cool 4C		x						Temp = 16.3°C
				x	WW	HNO3			x					
	12/9/14	10:30	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak (2 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due: _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	12/9/14	11:23	Heather Gaulart	12/9/14	13:23
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt: 5.4 degrees C
Chill process started prior to receipt: Y or N
Sample(s) received on ice: Y or N
Proper bottles received in good condition: Y or N
Bottles filled with adequate volume: Y or N
Samples received within hold time(s): Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN #: LOGGED BY: LAB PROJ #: TEMPLATE: PROJ. MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUNDWATER, WWSL-SLUDGE, NAS-SOLID

SAMPLE IDENTIFICATION OR LOCATION DESCRIPTION	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	12/8-9/14	11:30-11:30		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.08
	12/9/14	11:30	X		WW	H2SO4, 4C				X				Temp = 20.1°C
	↓	↓	X		WW	H2SO4, 4C					X			
MSD 005	12/8-9/14	11:45-11:45		X	WW	H2SO4,4C	X							pH = 8.19
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 15.0°C
	12/9/14	11:45	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (5-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fast Rush (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Data Due: _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	12/9/14	13:23	[signature]	12/9/14	13:23
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt: _____ Degrees C
Chill process started prior to receipt: Y or N
Sample(s) received on ice: Y or N
Proper bottles received in good condition: Y or N
Bottles filled with adequate volume: Y or N
Samples received within hold time(s): Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

Metropolitan Saint Louis Sewer District
2350 Market Street
Saint Louis, Missouri 63103-2555

ST LOUIS UNIVERSITY HOSPITAL
3635 Vista Ave.
St. Louis, MO 63110

Attn: Robert Hicks
Maintenance Manager

INDUSTRIAL WASTEWATER DISCHARGE PERMIT NUMBER 1020548800.

ANNUAL PERMIT FEE NOTICE

For permits in effect as of **10/01/2014**.

Fee will be included in a separate bill from the Metropolitan St. Louis Sewer District.

Explanation of Charges

Fee for Pretreatment Program Discharge Permit covering the period October 1, 2014 through September 30, 2015, issued in accordance with the Metropolitan St. Louis District Ordinance #12413 for the location at **3635 & 3655 Vista Ave**.

Base charge @ $150.00 per permit			$150.00
Volume charge @$0.72 per average daily Ccf	103.90	Ccf(s)	$74.81
Sample Point Charge @$100.00 per sample point	5	Point(s)	$500.00
		Total Fee Due:	**$724.81**

For inquiries about the Annual Permit Fee, please call 314-436-8756. For inquiries about payment of the fee, which will appear on your upcoming monthly bill, please call 1-866-281-5737.

THIS IS NOT A BILL

DO NOT PAY NOW

FEE WILL BE INCLUDED IN A SEPARATE BILL

Doug Mendoza St. Louis University Hospt

From: Doug Mendoza
Sent: Tuesday, November 25, 2014 9:28 AM
To: Doug Mendoza
Subject: Clarification for MSD Ebola virus disinfection requirements letter, and policy re. CDC's interim guidance for untreated sewage

On November 20, the Metropolitan St. Louis Sewer District issued a letter to the hospitals in its service area that included requirements for treatment of wastewater generated and discharged to the sewer system from facilities that are treating or caring for patients infected with the Ebola virus. We understand that there has been some confusion over a portion of item three in the requirements. Therefore, MSD is providing the following clarification through rewording of the item:

3. For any wastes such as feces, urine and vomit, and liquid waste from washing that are produced by the Ebola-infected patient, <u>and for liquid waste by those in direct contact with the patient that is produced immediately afterward from washing</u>: all such wastes must be placed into a toilet or other vessel to hold the wastes, and then disinfected using disinfectants known to meet CDC's criteria for use against the Ebola virus, with a contact time of at least 2.5 times the prescribed contact time for the particular disinfectant.

MSD recognizes that those in direct contact, but not infected, will not be contagious for the Ebola virus. However, as a cautionary measure, they still must disinfect liquid wastes from washing after having had direct contact with an Ebola-infected patient.

This past Friday, November 21, 2014, the Centers for Disease Control and Prevention also issued Interim Guidance for Managers and Workers Handling Untreated Sewage from Individuals with Ebola in the United States. Please understand that this is only interim guidance. MSD has determined that its requirements, contained in the November 20, 2014 letter and clarified above, will remain in effect in addition to the CDC's interim procedures. Once a final guidance has been released by the CDC, then MSD will revisit the issue.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT
Douglas M. Mendoza, P.E.
Industrial Pretreatment Manager

Re: MSD Ebola virus disinfection requirements letter

As you are likely aware, concerns over public health and exposure to the Ebola virus have recently become an issue in the United States. One of these concerns involves the Ebola virus in wastewater and its impact on workers in the sewers, workers at wastewater treatment plants, personnel working on plumbing systems in buildings, and the public that may come into contact with wastewater from sewer blockages or other overflows.

While the Centers for Disease Control and Prevention (CDC) has stated that sewage handling processes in the United States are designed to inactivate infectious agents, these processes do not occur until after potential exposure to all the above-listed parties. Therefore, MSD has developed requirements for treatment of wastewater generated and discharged to the sewer system from facilities that are treating or caring for patients infected with the Ebola virus. Such facilities must treat their wastewater prior to discharge to the sewer system. These requirements have been developed based on Water Environment Federation (WEF) meetings and consultations, and discussions with other sewage agencies located in cities that have treated patients infected with the Ebola virus. WEF is a not-for-profit technical and educational organization of 36,000 individual members and 75 affiliated Member Associations representing water quality professionals around the world.

1. When a facility receives an Ebola virus-infected patient, the facility must immediately notify the Metropolitan St. Louis Sewer District via telephone at 314.768.6260. This number is MSD's 24-hour line.

2. If any liquids or other materials generated from treatment and care of an Ebola-virus infected patient are to be discharged to sewer, all such liquids and other materials must be disinfected using disinfectants known to meet CDC's criteria for use against the Ebola virus. The list is available at http://www.epa.gov/oppad001/list-l-ebola-virus.html.

3. For any wastes such as feces, urine and vomit, and liquid waste from washing that are produced by the Ebola-infected patient or those in direct contact with the patient: all such wastes must be placed into a toilet or other vessel to hold the wastes, and then disinfected using disinfectants known to meet CDC's criteria for use against the Ebola virus, with a contact time of at least 2.5 times the prescribed contact time for the particular disinfectant. This will help to address aerosolization concerns for wastewater as toilets are flushed, along with differences in disinfection of bulk volumes as compared to surfaces.

We trust you share our concern for protection of workers and the public. If you have any questions, please contact me at 314.436.8717.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Douglas M. Mendoza, P.E.
Manager of Industrial Pretreatment

cc: Brian Hoelscher – MSD Executive Director
Jonathon Sprague, Bret Berthold, Rich Unverferth, John Lodderhose, Susan Myers
Vicki Edwards, Mike Grace, Lance LeComb

Metropolitan St. Louis Sewer District

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

November 20, 2014

Robert Hicks
Director of Building Services
ST. LOUIS UNIVERSITY HOSPITAL
3635 Vista Ave.
P.O. Box 15250
St. Louis, MO 63110-0250

Dear Mr. Hicks:

Re: MSD Ebola virus disinfection requirements letter

As you are likely aware, concerns over public health and exposure to the Ebola virus have recently become an issue in the United States. One of these concerns involves the Ebola virus in wastewater and its impact on workers in the sewers, workers at wastewater treatment plants, personnel working on plumbing systems in buildings, and the public that may come into contact with wastewater from sewer blockages or other overflows.

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Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Douglas M. Mendoza, P.E.
Manager of Industrial Pretreatment

cc: Brian Hoelscher – MSD Executive Director
Jonathon Sprague, Bret Berthold, Rich Unverferth, John Lodderhose, Susan Myers
Vicki Edwards, Mike Grace, Lance LeComb

Scott Rehmer

From: Scott Rehmer
Sent: Wednesday, November 19, 2014 1:51 PM
To: 'Robert.Hicks@TenetHealth.com'
Subject: RE: MSD Ebola virus disinfection requirements letter

A hard copy of this letter is also being mailed.

November 20, 2014

Robert Hicks
Director of Building Services
ST. LOUIS UNIVERSITY HOSPITAL
3635 Vista Ave.
P.O. Box 15250
St. Louis, MO 63110-0250

Dear Mr. Hicks:

Re: MSD Ebola virus disinfection requirements letter

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Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Douglas M. Mendoza, P.E.
Manager of Industrial Pretreatment

cc: Brian Hoelscher – MSD Executive Director
Jonathon Sprague, Bret Berthold, Rich Unverferth, John Lodderhose, Susan Myers
Vicki Edwards, Mike Grace, Lance LeComb

SR ✓

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION 1020-5488-00

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ■(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KA I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Associate Radiation Safety Officer Telephone: 977-6896

Signature: Date: 10/14/14

RECEIVED
OCT 14 2014
DIVISION OF
ENVIRONMENTAL COMPLIANC

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL FACILITY INSPECTION REPORT

Company: ST. LOUIS UNIVERSITY HOSPITAL Account #: 1020548800
Premise Address: 3635 - 3655 Vista Avenue Zip Code: 63110
MSD Classes: SIU ☒ Non-Significant CIU ☐ CIU ☐ Surcharge ☐ Non-Toxic Process Water/Wastes ☐
Toxics-Bearing Waste ☒ No Process Discharge ☐ Multi-User ☐ Special Handling/Billing ☐
Company Representative: Robert Hicks
Title: Maintenance Manager Phone#: 314.577.8072
Inspector: Scott Rehmer
Others Present: Mike Jones, Chief Engineer, SLU Hosp.
Inspection Date: **9/19/14** Time: From 9:50 am To 11:50 am (Last Insp. 9/20/13)

NOTE: ALL ITEMS ARE TO BE COMPLETED BASED ON EVENTS SINCE LAST INSPECTION. ANSWERS ARE BASED ON INFORMATION OBTAINED OR PROVIDED BY COMPANY DURING INSPECTION, AS WELL AS INFORMATION IN FILE.

***** DATABASE ALSO UPDATED WITH APPROPRIATE CHANGES - see attached database reports *****

1. A. ARE THERE ADDITIONAL NON-STORMWATER ACCOUNT NUMBERS? Yes☒ No☐
   List them, note any changes: 1020548700, 1045347700 (no change)
   B. Did all acct no's have water usage on PIMS? Yes☒ No☐
   C. If no to B, explain: _____

2. PROCESSES & CLEANUP/WASHDOWN:

	Cont/ Batch?	Water/Liquids Used?	DISCHARGE Frequency (or how else disposed?)	Sample pt.
Hospital care & surgery	Cont	Yes	Daily	001, 002
In-patient psych care & cancer treatment	Cont	Yes	Daily	001, 002, 003, 005
Research & clinical labs	Cont	Yes	Daily	001, 002
Kitchen wastewater	Batch	Yes	Daily	001
	(None)	N/A		
	(None)	N/A		

3. PRETREATMENT (other than grease traps) - describe:

	Sample pt.
Silver recovery (metallic & electrolytic)	001, 002

4. DOES COMPANY HAVE ANY GREASE TRAPS? Yes☒ No☐
   If yes: A. List sample points: 001
   B. What is the frequency for cleaning & maintenance? Monthly, since Sept. 2013
   C. Are any additives used in traps? Yes☐ No☒
   D. If yes to C, was company warned MSD will bill them for blockages they cause? Yes☒ No☐
   E. Was company informed that MSD performs separate grease trap inspections? Yes☒ No☐

5. HAS COMPANY CONSTRUCTED NEW BLDGS/ADDITIONS WITH SEWERS SINCE LAST INSPECTION? Yes☐ No☒
   If yes: A. Ask company: Did they notify MSD's Plan Review group? Unknown☐ Yes☐ No☐
   B. If no or unknown, has inspector notified Plan Review group? Yes☐ No☐
   C. Comments: _____

6. HAS COMPANY BEGUN DISCHARGING ANY NEW POLLUTANTS SINCE THE LAST INSPECTION? Yes☐ No☒
   If yes: A. List pollutants & process: _____
   B. Will MSD STP exceed existing NPDES discharge limit(s)? Yes☐ No☐
   C. Will MSD STP's discharge exceed 0.1 mg/l for any new pollutant? Yes☐ No☐
   (MSD must notify MDNR if B or C is yes and discharge will continue [40CFR122.42(b)].)
   D. Comments: _____

7. ARE THERE ANY FEDERALLY REGULATED (40 CFR 405-471) OPERATIONS THAT ARE "NOT APPLICABLE"? Yes☒ No☐
(including those that are 'No PSES' and 'General Stds Only')

If yes: A. List regulation & describe operations (including any discharge):
40 CFR 460, Subpart A, n/a (general standards only), Hospital point source category

B. Explain why it is N/A: General standards only

8. ARE THERE ANY FEDERALLY REGULATED (40 CFR 405-471) OPERATIONS SUBJECT TO DISCHARGE LIMITS? Yes☐ No☒

If yes: A. List regulation & describe operations (including any discharge):
_____

B. Is maximum daily categorical discharge ≤ 100 GPD? (includes batch discharges) Yes☐ No☐

If yes to B: C. Batch ☐ or Continuous ☐? Volume verified how? _____

D. Does company ever discharge untreated, concentrated categorical wastewater? Yes☐ No☐

E. Was company in SNC during any part of the previous **24** months? Yes☐ No☐

F. Date of last NSCIU Certification Statement: _____ or not currently NSCIU ☐
(If no to B, yes to D or E, or Cert. Statement not submitted as required, company is not eligible to be an NSCIU)

9. HAS COMPANY CERTIFIED TO THE ABSENCE OF SPECIFIC CATEGORICAL POLLUTANTS? Yes☐ No☒

If yes: A. Certification date: _____

B. List absent pollutants: _____

C. Were all these pollutants non-detect in all monitoring since certification was approved? Yes☐ No☐
(If compared to intake water levels, explain details below)

If no to C: D. Explain: _____

E. Does Wastewater Discharge Permit need to be updated to remove detected pollutants? Yes☐ No☐

F. Comments: _____

10. DOES CATEGORICAL WASTEWATER COMBINE WITH NON-CATEGORICAL WW PRIOR TO SAMPLING? Yes☐ No☒

If yes: A. At which points? _____

B. Current applied factor: _____ Is it correct? Yes☐ No☐

C. If no, list correct factor/explain? _____

11. IS ANY WASTEWATER SUBJECT TO PRODUCTION ☐ OR MASS ☐ BASED STANDARDS? Yes☐ No☒

If yes: A. At which points? _____

B. Since calculation of the current limits, has the long term avg production rate or discharge volume changed by 20% or more? Yes☐ No☐

C. If yes to B, explain: _____

12. ARE ANY RADIOACTIVE MATERIALS HANDLED? Yes☒ No☐

If yes: A. Describe operations & disposal: Nuclear medicine isotopes held for decay, then sewered or hauled off.

B. If non-exempt & disposed to sewer, does company submit quarterly reports to MSD? NA☐ Yes☒ No☐
(If No to B, write company & require quarterly reports of discharge to sewer – or have permit revised as needed)

C. Amount discharged in most recent four complete calendar quarters: 0 pCi/L

D. Is company in compliance with requirements of sewer use ordinance prohibition? Yes☒ No☐

13. DOES COMPANY GENERATE WASTES/WASTEWATER BY GENETIC ENGINEERING RESEARCH? Yes☐ No☒

If yes: A. Does company render wastes/wastewater innocuous? Yes☐ No☐

B. If yes, describe how: _____

C. Does company have MSD authorization for disposal to sewer? NA☐ Yes☐ No☐

D. Most recent authorization date: _____

14. DOES PROCESS or P&E WASHDOWN WATER USE APPEAR EXCESSIVE? Yes☐ No☒
(IS COMPANY USING DILUTION TO MEET DISCHARGE LIMITATIONS?)

A. Explain how use was verified & any needed changes:
Water usage appears fairly normal for the type and size of hospital, some decrease in usage last few years (see end comment); lawn irrigation system usage decreased this year; no excessive usage noted during walk-through.

15. BASED ON OBSERVATIONS DURING INSPECTION, DOES COMPANY APPEAR TO HAVE SOME WATER THAT IS NOT DISCHARGED TO SEWER? Yes☒ No☐

If yes: A. Describe: Lawn watering; evaporative loss from CT's and boilers; two of three accounts have 0.68 RF.

B. Was "Return Factor Program" brochure given to company? Yes☒ No☐
(regardless of whether some water is not discharged to sewer)

16. HAS COMPANY BEEN GRANTED A VARIANCE FROM DISCHARGE LIMITATIONS CONTAINED IN THE SEWER USE ORDINANCE? Yes☐ No☒

If yes: A. Pollutant(s) and variance limit: _____

B. Latest approval date: _____

C. Is the approved variance more than 5 years old? Yes☐ No☐
(If yes to C, a new variance must be requested – write company)

17. HAVE ANY NUMERICAL LIMITATIONS BEEN APPLIED TO COMPANY, IN ADDITION TO THOSE ALREADY CONTAINED IN THE SEWER USE ORDINANCE? Yes☐ No☒

If yes: A. Pollutant(s) and discharge limit: _____

B. Date originally applied: _____, or as part of variance above? ☐

18. HAS COMPANY EXCEEDED ORDINANCE DISCHARGE LIMITS SINCE LAST INSPECTION OR WITHIN THE LAST 12 MONTHS (if last insp <12 months ago)? Yes☐ No☒

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Y/N	Describe
			N/A	
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

19. HAS COMPANY EXCEEDED CATEGORICAL PRETREATMENT LIMITS SINCE THE LAST INSPECTION OR WITHIN LAST 12 MONTHS (if last insp <12 months ago)? NA☒ Yes☐ No☐

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Y/N	Describe
			N/A	
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

20. HAVE THERE BEEN ANY PROBLEM DISCHARGES SINCE LAST INSPECTION? Yes☐ No☒

If yes: A. Upsets? ☐ Bypasses of pretreatment facilities? ☐
Spills? ☐ Slug discharges? ☐ Other? _____

B. Explain any marked: _____

21. COULD SPILLS OR LEAKS OF ANY PROCESS TANKS, OR STORAGE TANKS, OR STORED WASTES, OR STORED CHEMICALS EASILY REACH SANITARY SEWERS OR STORM DRAINS? Yes☐ No☒

If yes: A. What needs to be done?

_____

If no: B. How are they controlled?
Spill kits & absorbents available; small quantity chemicals stored away from drains; large volumes of oil and liquid wastes are stored in drums and totes on containment pallets.

22. BASED ON OBSERVATIONS DURING INSPECTION, ARE THERE ANY AREAS WHERE COMPANY ACTIVITIES APPEAR TO IMPAIR STORMWATER RUNOFF? Yes☐ No☒

If yes:
A. Describe: _____
B. What needs to be done? _____
C. Was "Illicit Stormwater Discharges" brochure given to company? (regardless of whether there are any problem areas) Yes☒ No☐

23. DOES COMPANY HAVE ANY WRITTEN SLUG DISCHARGE CONTROL (INCLUDES SPILLS) PLANS [40CFR403.8(f)(2)(vi)]? Yes☒ No☐

If yes:
A.

	Title (actual title, NOT "SPCCP")	Last Update
1.	Hazardous Chemical Spill Plan	1/1/10
2.		

B. Were Plans reviewed for completeness, especially regarding batch discharges/slugs and Q.19/20/21? (must be done) Yes☒ No☐
C. Are updates needed to existing Plans? (If yes, write company & require) Yes☐ No☒
D. Are any Plans needed (either in addition to those listed in Part A, or if there currently are no written control plans)? (If yes, write company & require) Yes☐ No☒
E. Explain why/why not for C or D: Addresses policy, haz waste, prohibitions, conservation, disposal, and clean-up.

24. DOES COMPANY HAVE ANY MAINTENANCE SHOP PARTS WASHERS? Yes☒ No☐

If yes:
A. Parts washer solvent name: Safety Kleen Premium (in Energy Center)
B. Priority pollutants (or "none"): typically BTEX
C. How is spent solvent disposed? hauled off
(These solvents are not included in database's priority pollutants list, nor monitored for unless conditions show potential discharges)

25. ARE ANY ORGANICS OR SOLVENTS USED (OTHER THAN IN PARTS WASHERS)? Yes☒ No☐

If yes:
A.

Solvent name/ components	Used for?	413/433/469 Process?	How disposed?	Priority Pollutant?
Chloroform, Methylene Chloride	Lab testing	Yes☐ No☒	Hauled off	Yes☒ No☐
Naphthalene, Phenanthrene	Lab testing	Yes☐ No☒	Hauled off	Yes☒ No☐
Phenols	Sanitizing	Yes☐ No☒	Evaporates	Yes☒ No☐
Acetone, Xylene	Lab testing	Yes☐ No☒	Evaporates	Yes☐ No☒
Alcohol, Methanol	Lab testing	Yes☐ No☒	Evaporates	Yes☐ No☒
		Yes☐ No☐		Yes☐ No☐

26. DOES COMPANY HAVE A 413/433/469-REGULATORY "SOLVENT MANAGEMENT PLAN"? Yes☐ No☒
(Applies if co. has 413/433/469 processes, whether or not solvents used)

If yes:
A. Is it part of a Spill/Slug Control Plan listed above? Yes[1.☐ 2.☐] No☐
B. If no to A, date of last update for SMP: _____
C. Is there a copy of the Spill/Slug Plan or SMP in the files? Yes☐ No☐
D. Does SMP address all 413/433/469 solvents? (or verify "none" ☐) Yes☐ No☐
(If no to C or D, write company and require submittal and/or update)

27. ARE EMERGENCY NOTIFICATION PROCEDURES POSTED THAT INCLUDE MSD CONTACTS? Yes☐ No☒
A. Was company provided notification cards & told to post where emergency response personnel can locate them? Yes☒ No☐
(Must post if company generates process wastewater or stores chemicals of concern)

28. IS COMPANY REQUIRED TO SELF-MONITOR ANY OF THEIR DISCHARGES? Yes☒ No☐

If yes:
A. Is requirement contained in permit ☒ or other document ☐.
B. If other document, date & description: _____
C. How frequently is sampling required? Quarterly at 001, 002, 003, 005; Annually at 004
D. How frequently are reports required? Quarterly
E. Have reports been on-time, complete & signed by proper person? Yes☒ No☐
F. If no, explain: _____

29. DOES COMPANY SELF-MONITOR ITS WASTEWATER DISCHARGE? Yes☒ No☐

If yes:
- A. Does sample collection time period match co's production shifts? Yes☒ No☐
- B. Are representative grab/comp samples collected? Yes☒ No☐
- C. Are EPA-approved 40 CFR 136 wastewater test methods used? Yes☒ No☐
- D. Does company measure pH and/or temperature itself? Yes☐ No☒
- If yes: E. Have the company show equipment and procedure (meters, calibration stds, etc.). Is measurement performed properly? Yes☐ No☐
- F. If no to A,B,C, or E, explain needed changes: _____

30. DOES COMPANY CONTINUOUSLY MONITOR AT SAMPLE POINT AND KEEP A PERMANENT RECORD FOR: pH ☐, TEMP ☐, LEL ☐? Yes☐ No☒

If yes:
- A. At which SPs? _____
- B. Does company submit quarterly summaries? Yes☐ No☐
- C. If no, explain: _____

31. DOES MSD SPLIT SAMPLES WITH THE COMPANY? Yes☐ No☒

If yes:
- A. Is company having the samples analyzed Yes☐ No☐
- B. How does company insure proper preservation, holding times & analytical methods? _____
- C. Has company submitted results of all split sample analyses since the last insp? Yes☐ No☐
- D. Have results been submitted within 28 days of the collection's calendar quarter? Yes☐ No☐
- E. If no to C, or D, explain: _____
- F. Does company still want to split samples? Yes☐ No☐
- G. Comments: _____

32. IS COMPANY REQUIRED TO REGULARLY SUBMIT ANY REPORTS OTHER THAN SELF-MONITORING REPORTS? Yes☒ No☐

If yes:
- A. Is requirement contained in permit ☒ or other document ☐.
- B. If other document, date & description: _____
- C. What is required to be reported? Radioactive Materials Discharge Report
- D. How frequently are reports required? Quarterly
- E. Have reports been on-time, complete & signed by proper person? Yes☒ No☐
- F. If no, explain: _____

33. IS COMPANY UNDER ANY ENVIRONMENTAL ENFORCEMENT ORDERS OR REQUIREMENTS TO SUBMIT COMPLIANCE SCHEDULE REPORTS? Yes☐ No☒

If yes:
- A. Type and date: _____
- B. Have the reports & actions been on-time & complete? Yes☐ No☐
- C. If no, explain: _____

34. ASK COMPANY: IS COMPANY IN COMPLIANCE W/APPLICABLE NESHAP REGULATIONS FOR WW DISCHARGES? Yes☒ No☐
[To see if 40CFR63 applies to MSD plant, per §§63.1580(b) & 63.1582(a). Some MDNR-issued Title V air permits for specific processes allow pre-approved WW discharge. City/County-issued air permits are not NESHAP permits.]

If no:
- A. Describe: _____
- B. Was MDNR Air Pollution Control informed? (must be done) Yes☐ No☐

35. DOES COMPANY RETAIN ALL WASTEWATER RECORDS FOR AT LEAST 5 YEARS? Yes☒ No☐

If no:
- A. How long does company retain records? _____
- B. Was company told to retain for at least 5 years, per ordinance? Yes☐ No☐
- C. Where are they kept? Office files in the Energy Center.

36. IS COMPANY CLASSIFIED AS A SIGNIFICANT INDUSTRIAL USER (SIU)? Yes☒ No☐

If yes: A. Check & explain applicable criteria:

- ☐ Process subject to categorical stds under 40 CFR 403.6. Which cat. stds? _____
- ☒ Process discharge => 25,000 GPD Total process volume: 67,676 gpd.
- ☐ Process discharge => 5% of TP ADW hydraulic capacity TP ADW hydraulic capacity: _____. Percent: _____
- ☐ Process discharge => 5% of TP ADW organic capacity Which organic pollutant? _____ TP ADW organic capacity: _____. Percent: _____
- ☐ Reasonable potential for adverse effect on operations Why? _____
- ☐ Reasonable potential for violating PT std or req't Which ones & why? _____

B. Does company own its bldg (is it listed as the owner in E-CIS)? Yes☒ No☐

If no: C. What is Bldg owner name (use DBA if avail.)? Bldg owner is Tenet Healthcare Corp. (check E-CIS CAPS Customer Info)

D: What is Bldg owner mailing address? Mailing address is the same as billing and premise. (check E-CIS CAPS Customer Info)

37. DO MSD CLASSIFICATIONS NEED TO BE REVISED? Yes☐ No☒

If yes: A. Indicate correct classifications:

SIU ☐ Non-Significant CIU ☐ CIU ☐ Surcharge ☐ Non-Toxic Process Water/Wastes ☐
Toxics-Bearing Waste ☐ No Process Discharge ☐ Multi-User ☐ Special Handling/Billing ☐

B. Explain changes: _____

38. IS COMPANY CLASSIFIED AS "Multi-User"? Yes☐ No☒

If yes:
- A. Is company's discharge segregated from other tenants' discharge? Yes☐ No☐
- B. If no to A, does the company own the bldg/receive the MSD bills? Yes☐ No☐
- C. If yes to B, was company informed it is responsible for total discharge, or else must provide segregated sample points? Yes☐ No☐
- D. If no to B, are any Process/P&E Wash-type wastes discharged? Yes☐ No☐
- E. If yes to D, are the wastes completely innocuous? Yes☐ No☐
  (And explain why/why not: _____)
- F. If yes to D, and no to E, company must accept responsibility or provide segregated SP.
  Acceptance letter date: _____ Or write company with requirement ☐
- G. If no to D or yes to E, are limits "alert only" on PIMS? Yes☐ No☐
- H. Comments: _____

39. IS COMPANY CLASSIFIED AS "Special Handling/Billing"? Yes☐ No☒

If yes:
- A. Why? _____
- B. Are any changes needed to reasons/details? Yes☐ No☐
- C. If yes, explain: _____
- D. Were company records reviewed & verified for special handling/billing reports? NA☐ Yes☐ No☐

40. SAMPLE POINTS

						DJ(y/n)
SP #	001	Fed.Reg.		Components:	Sanitary, Hosp waste (includes x-ray & lab waste) Boiler blowdown, NCCW, Kitchen, Storm	No
SP #	002	Fed.Reg.		Components:	Sanitary, Hosp waste (includes x-ray & lab waste) Storm	No
SP #	003	Fed.Reg.		Components:	Sanitary, Hosp waste, Storm	No
SP #	004	Fed.Reg.		Components:	NCCW, Storm	Yes
SP #	005	Fed.Reg.		Components:	Sanitary, Hosp waste, Storm	No

41. ARE ANY SAMPLE POINTS TRAPPED VENTS? Yes☐ No☒

If yes:
- A. List SPs: _____
- B. Was co. informed that T-vents are preferred, and told why? Yes☐ No☐

42. ARE DISCHARGES AT ANY SPs SMALL/IRREGULAR ENOUGH TO ALLOW GRAB SAMPLES? Yes☒ No☐

If yes: A. List SPs and reasons: 004, low, intermittent flow

43. ARE THERE ANY UNSAMPLED DISCHARGES? (list each lateral separately) Yes☐ No☒

Dummy SP #		Components:	
Dummy SP #		Components:	

If yes: A. Was company informed that SPs may be required in the future if the discharges change? Yes☐ No☐

B. Are all unsampled discharges very low flow and/or innocuous? Yes☐ No☐

C. If No to B, explain:_____

(Must also write company and require installation of SP)

44. DO ANY SAMPLE POINTS (including Unsampled/Dummy SPs) RECEIVE STORMWATER? Yes☒ No☐

If yes: A. List Sample Points: 001, 002, 003, 004, 005

45. WERE ALL SAMPLE POINTS (except Dummy SPs) OPENED & INSPECTED? No SPs☐ Yes☒ No☐

A. If any SPs cannot be located or opened, explain: _____

B. If any SP descript's need to be changed, explain: _____

C. Was ANY grease or other problem/debris observed in any SP? Yes☒ No☐

D. If yes to C, list SPs & describe: Lots of sand accumulated inside MH just downstream of 004, also oily sheen on the top of stagnant water; facility contact said that he will remove the sand and pump out the water, then send MSD report; will follow-up with them in 30 days.

E. If yes to C, was company directed to take corrective actions? Yes☒ No☐

46. REVIEW THE SAMPLE POINT MAP! Last map revision date: 9/20/13

A. Is the map correct and accurate in all its details? Yes☒ No☐

B If no, what changes are needed: _____

47. DO INSTRUCTIONS FOR "Contact Prior to Sampling" or FIELD VISIT "Special Instructions" NEED REVISION? Yes☐ No☒

If yes: A. List needed changes: _____

USE THIS SPACE FOR ANY OTHER COMMENTS/OBSERVATIONS PERTINENT TO YOUR INSPECTION OF THIS SITE.

Radiology is primarily a digital process; however, liquid processing is still on-site, rarely used as back-up to the digital.

Hospital operations at 3635 Vista (main Hosp), as follow:
1st floor - Rehab, MRI, Food services; 2nd floor - Emergency Rm, CT scan, Radiology, Hematology/Oncology, Food services
3rd floor - Surgery; 4th floor - Labs, Pathology, Blood bank, Mechanical office
5th floor - Patient care, Dialysis, Neuro, Offices; 6th thru 9th floors - Offices, Patient care
10th floor - Endoscopy, Pharmacy, Offices; 11th, 12th, 14th floors - Offices
13th floor - Cardiac cath labs, Echo (ECG) Lab, Offices; 15th floor - Pastoral care, Offices

Hospital operations at 3655 Vista (West Pavilion), as follow:
Basement - Air handling units, Storage
Ground floor - Air handling units, Chillers, Blood donation Lab, CT scan, MRI, Outpatient
1st floor - Outpatient, Labs, Offices
2nd floor - Psych, Outpatient Cancer Center, Bone marrow outpatient treatment facility (opened Oct. 2012)
3rd floor - Offices, Labs
4th floor - Psych

Water usage fairly consistent, with slight decrease over the last two years, as follow (from three water accounts):
Jan 2010 - 2011; 100.77 k-ccf; 206.5 k-gpd-in; 170.5 k-gpd-out (with RF applied);
Jan 2011 - 2012; 110.15 k-ccf; 225.7 k-gpd-in; 212.3 k-gpd-out;
Jan 2012 - 2013; 68.66 k-ccf; 140.7 k-gpd-in; 138.6 k-gpd-out;
Jan 2013 - 2014; 62.71 k-ccf; 128.5 k-gpd-in; 99.4 k-gpd-out; or a 4-year avg = 155.2 k-gpd.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

INDUSTRIAL USER CLASSIFICATIONS

03/06/1997	SIU
03/06/1997	TOX

WUNNENBERG INFO.

Base Map 20F1
Wun: St. Louis City & Co.
Grid: H 21 Page 38

SIU CRITERIA

PR25 Process Disch => 25,000 GPD

GENERAL INFORMATION

Office Mailing Address
3635 Vista Ave.
St. Louis, MO. 63110-0250

Billing Address
3635 Vista Ave
St Louis, MO. 63110-0250

INSPECTION INFORMATION

Next Due	Insp Rslt	
09/19/2014	RIN	Scott Rehmer

PERMIT INFORMATION

Issue Date: 01/01/2012
Expire Date: 12/31/2016
Extended Date:
Writer Scott Rehmer

IUQ INFORMATION

IUQ Recvd Date: 07/09/2001
Reviewer: Fabian Grabski
IUQ Recvd Date: 07/03/2006
Reviewer: Fabian Grabski
IUQ Recvd Date: 10/24/2011
Reviewer: Mike Kynion

CONTACTS

BILL	Robert Hicks	Maintenance Manager	OFF	(314) 577-8072 Ext.
FLD1	Robert Hicks	Maintenance Manager	OFF	(314) 577-8072 Ext.
	Robert Hicks	Maintenance Manager	CELL	(314) 625-0067 Ext.
FLD2	Mike Jones	Chief Engineer	CELL	(314) 835-7401 Ext.
	Mike Jones	Chief Engineer	OFF	(314) 577-8173 Ext.
FLD3	Janet Dickson	Admin Assistant	OFF	(314) 577-8070 Ext.
OFF1	Robert Hicks	Maintenance Manager	OFF	(314) 577-8072 Ext.
OFF2	Mike Jones	Chief Engineer	OFF	(314) 577-8070 Ext.
OFF3	Janet Dickson	Admin Assistant	OFF	(314) 577-8070 Ext.

OPERATIONAL INFORMATION

Work Days: 7

				S	M	T	W	T	F	S
1	1,884	07:00AM	8.0	Y	Y	Y	Y	Y	Y	Y
2	616	03:00PM	8.0	Y	Y	Y	Y	Y	Y	Y
3	615	11:00PM	8.0	Y	Y	Y	Y	Y	Y	Y

Total Emp: 3,115 **Hrs:** 24.0

OTHER AGENCIES INFORMATION

09/28/2005	MSD - Billing Account Number	00208066
09/28/2005	MSD - Billing Account Number	00447331
09/28/2005	MSD - Billing Account Number	00208067
10/24/2011	EPA - Hazardous Waste Program	MOR000023663
10/24/2011	MDNR - Hazardous Waste Program	20848

NON-SEWERED WASTE

On-Site Storage N **On-Site Disposal** N **Off-Site Disposal** Y

10/24/2011	Infectious Waste	519,896	LBS
10/24/2011	Paints or Paint Sludges	55	GPY
07/03/2006	Kitchen/Food Service Grease	3500	GAL
11/07/2012	Equipment Oils and/or Grease	110	GPY

COMMENTS

RAW MATERIALS

EFF DATE	MATERIAL_DESCRIPTION	QUANTITY	UNIT
12/07/2010	Medical Equipment		
12/07/2010	Medicines		

SIC INFORMATION

SIC	DESCRIPTION
8062	General Medical & Surgical Hospitals
8063	Psychiatric Hospitals

PRODUCTS

EFF DATE	DESCRIPTION	UNIT	AVG_PROD	MAX_PROD
05/07/2004	General hospital service			

Report No. PIMS012A 09/22/2014 7:21:47 am
Data Date & Time: 09/22/2014 7:21:47 am

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

SEWER ACCOUNTS

Sewer Accounts
1020548800
1020548700
1045347700

WATER CONSUMPTION AND WASTEWATER DISCHARGE

Start Date = 02/01/2012 12:00:00AM **End Date =** 12/31/2014 12:59:59PM

Acct. No.			Consumption CCF's	Gallons		Wdays	Cdays	Discharge Gal/ Wday	Gal/ Cday
1020548700									
1020548700	01/21/2012	04/20/2012	107	107	A	91	91	91	
1020548700	04/21/2012	07/23/2012	101	208		94	94	185	
1020548700	07/24/2012	10/24/2012	34	242		93	93	278	
1020548700	10/25/2012	01/22/2013	25	267		90	90	368	
1020548700	01/23/2013	04/30/2013	34	301		98	98	466	
1020548700	05/01/2013	07/18/2013	488	789		79	79	545	
1020548700	07/19/2013	10/22/2013	350	1,139		96	96	641	
1020548700	10/23/2013	01/27/2014	452	1,591		97	97	738	
RF 0.68	**Acct. Total**		1,591	1,190,151		738	738	1,097	1,097
1020548800			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
1020548800	01/21/2012	04/20/2012	660	660	A	91	91	91	
1020548800	04/21/2012	08/03/2012	1,075	1,735		105	105	196	
1020548800	08/04/2012	10/24/2012	632	2,367		82	82	278	
1020548800	10/25/2012	01/22/2013	540	2,907		90	90	368	
1020548800	01/23/2013	04/30/2013	730	3,637		98	98	466	
1020548800	05/01/2013	07/18/2013	14,443	18,080		79	79	545	
1020548800	07/19/2013	10/22/2013	17,260	35,340		96	96	641	
1020548800	10/23/2013	01/27/2014	10,590	45,930		97	97	738	
RF 0.68	**Acct. Total**		45,930	34,358,028		738	738	31,658	31,658
1045347700			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
1045347700	11/08/2011	04/04/2012	22,569	22,569	A	149	149	149	
1045347700	04/05/2012	05/10/2012	7,058	29,627		36	36	185	
1045347700	05/11/2012	07/20/2012	20,394	50,021		71	71	256	
1045347700	07/21/2012	10/30/2012	24,331	74,352		102	102	358	
1045347700	10/31/2012	02/08/2013	13,704	88,056		101	101	459	
1045347700	02/09/2013	05/09/2013	10,078	98,134		90	90	549	
1045347700	05/10/2013	07/18/2013	2,157	100,291		70	70	619	
1045347700	07/19/2013	10/16/2013	4,280	104,571		90	90	709	
1045347700	10/17/2013	01/16/2014	1,850	106,421		92	92	801	
RF 1.00	**Acct. Total**		106,421	79,608,442		801	801	99,386	99,386
	Facility Total		153,942						

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME ST LOUIS UNIVERSITY HOSPITAL
PRIMARY MSD ACCOUNT NO. 1020548800

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH	Treatment Area	Bissell Point
01	Sanitary Or Combined	20F3 474C	Trunk Sewer	46 - Rock Springs

Description Multiple lines from W side of hospital and E side of W pavilion to loading drive

Sewer Route W on Vista in 27 pipe to 39th St, then N in trunk to treatment plant

SAMPLE POINT NO. 001 Ordinance **NPDES Outfall No.**

Description MH in driveway W of loading dock, 50' N of Vista, near SW corner of main hospital bldg

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Boiler Blowdown		16,300	GPD		GPD	D	10/24/11
Non Contact Cooling Water	HVAC	11,675	GPD		GPD	D	10/24/11
Sanitary		37,900	GPD		GPD	D	10/24/11
Hospital Waste	including x-ray waste, lab waste	28,676	GPD		GPD	D	10/24/11
Kitchen Waste		4,100	GPD		GPD	D	10/24/11
	Total Flow Avg =	98,651		Max =			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH	Treatment Area	Bissell Point
02	Sanitary Or Combined	20F3 415C	Trunk Sewer	46 - Rock Springs

Description Line S from S side of building to Vista Ave

Sewer Route W on Vista in 27 pipe to 39th St, then N in trunk to treatment plant

SAMPLE POINT NO. 002 Ordinance **NPDES Outfall No.**

Description MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Sanitary		30,150	GPD		GPD	D	10/24/11
Hospital Waste	including x-ray waste, lab waste	26,700	GPD		GPD	D	10/24/11
	Total Flow Avg =	56,850		Max =			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH	Treatment Area	Bissell Point
03	Sanitary Or Combined	20F3 424C	Trunk Sewer	46 - Rock Springs

Description Line SE from S side of building at entrance drive to Vista Ave.

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 003 Ordinance **NPDES Outfall No.**

Description MH 54' E of SW corner of West Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Sanitary		2,700	GPD		GPD	D	10/24/11
Hospital Waste		5,750	GPD		GPD	D	10/24/11
	Total Flow Avg =	8,450		Max =			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH	Treatment Area	Bissell Point
04	Sanitary Or Combined	20F3 355C	Trunk Sewer	46 - Rock Springs

Description Line W from SW corner of parking garage to Spring Ave.

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

SAMPLE POINT NO. 004 Ordinance **NPDES Outfall No.**

Description 6" T-vent under W Pavilion parking lot, 10' N, 18' E of SW corner

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Non Contact Cooling Water		400	GPD		GPD	D	10/24/11
	Total Flow Avg =	**400**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
05	Sanitary Or Combined	20F3	348C	Trunk Sewer	46 - Rock Springs

Description Manhole 93' S, 9' W of NW corner of W pavilion building

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 005 Ordinance **NPDES Outfall No.**

Description MH 93 ' S, 9' W of NW corner of W Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Sanitary		2,550	GPD		GPD	D	10/24/11
Hospital Waste		2,450	GPD		GPD	D	10/24/11
	Total Flow Avg =	**5,000**		**Max =**			

PRETREATMENT TYPES

SP	EFF DATE	TYPE	DESCRIPTION
001	06/06/2000	DC28	Grease Trap
001	06/06/2000	DC32	Metallic Replacement
001	06/06/2000	DC20	Electrolysis
002	06/06/2000	DC20	Electrolysis
002	06/06/2000	DC32	Metallic Replacement

PRIORITY POLLUTANTS

Pollutant Description	Status	Pollutant Description	Status	Pollutant Description	Status
Asbestos (Fibrous)	KP	Mercury (Total)	KP	Phenol	SP
Methylene Chloride	KP	Chloroform	KP	Phenanthrene	KP
Naphthalene	SP				

EXTRA STRENGTH SURCHARGE INFORMATION

PIMS FACILITY CONTACTS

For Account Number Selected **1020548800** **ST LOUIS UNIVERSITY HOSPITAL**
Located at 3635 & 3655 Vista Ave.
St. Louis MO 63110

Address Type / Contact Type	Contact Name	Contact Title	Email	Signatory	Phone Type	Number	Ext.
Billing Address							
Billing Contact	Robert Hicks	Maintenance Manager		Y	OFF	(314)577-8072	
Office Mailing Address							
Office Contact - Primary	Robert Hicks	Maintenance Manager		Y	OFF	(314)577-8072	
Office Contact 1st Alt	Mike Jones	Chief Engineer		N	OFF	(314)577-8070	
Office Contact 2nd Alt	Janet Dickson	Admin Assistant		N	OFF	(314)577-8070	
Premise Address							
Field Contact - Primary	Robert Hicks	Maintenance Manager	robert.hicks@tenethealth.com	Y	CELL	(314)625-0067	
Field Contact - Primary	Robert Hicks	Maintenance Manager	robert.hicks@tenethealth.com	Y	OFF	(314)577-8072	
Field Contact 1st Alt	Mike Jones	Chief Engineer		N	CELL	(314)835-7401	
Field Contact 1st Alt	Mike Jones	Chief Engineer		N	OFF	(314)577-8173	
Field Contact 2nd Alt	Janet Dickson	Admin Assistant		N	OFF	(314)577-8070	

MSD 038135

PIMS
REPORT OF FIELD SAMPLING REQUIREMENTS
ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **1020548800**

SPN	PREMISE ADDRESS	CITY	ST	ZIP
	3635 & 3655 Vista Ave.	St. Louis	MO	63110

001 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2015
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2015
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2015
	T237000	pH	Once/year	Grab	06/30/2015
	T247000	Temperature	Once/year	Grab	06/30/2015
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2015
	T257000	Total Phenols	Once/year	Grab	06/30/2015
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2015
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2015
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-chloroethyl	Once/year	Grab	06/30/2015

002 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2015
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2015
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2015
	T237000	pH	Once/year	Grab	06/30/2015
	T247000	Temperature	Once/year	Grab	06/30/2015
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2015
	T257000	Total Phenols	Once/year	Grab	06/30/2015
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2015
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2015
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-chloroethyl	Once/year	Grab	06/30/2015

003 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2015
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2015
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2015
	T237000	pH	Once/year	Grab	06/30/2015
	T247000	Temperature	Once/year	Grab	06/30/2015
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2015
	T257000	Total Phenols	Once/year	Grab	06/30/2015
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2015
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-chloroethyl	Once/year	Grab	06/30/2015

004 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Grab (Auth in lieu of composite)	06/30/2015
	T213000	Chemical Oxygen Demand	Once/year	Grab (Auth in lieu of composite)	06/30/2015
	T237000	pH	Once/year	Grab	06/30/2015
	T247000	Temperature	Once/year	Grab	06/30/2015
	T256000	Total Suspended Solids	Once/year	Grab (Auth in lieu of composite)	06/30/2015

005 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2015
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2015
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2015
	T237000	pH	Once/year	Grab	06/30/2015

PIMS
REPORT OF FIELD SAMPLING REQUIREMENTS
ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **1020548800**

SPN	PREMISE ADDRESS		CITY	ST	ZIP	
	T247000	Temperature	Once/year	Grab		06/30/2015
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs		06/30/2015
	T257000	Total Phenols	Once/year	Grab		06/30/2015
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab		06/30/2015
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-chloroethyl	Once/year	Grab		06/30/2015

Hicks, Robert

SLU Hospital
1020548800 SR

From: Hunt, Pamela
Sent: Wednesday, August 27, 2014 9:52 AM
To: Hicks, Robert
Subject: FW: Benzadine question

Nothing that we find has this chemical within the clinical laboratory.

From: Hunt, Pamela
Sent: Thursday, April 04, 2013 4:23 PM
To: Dutridge, Gary; Hicks, Robert
Subject: RE: Benzadine question

I did not find any listings within our laboratory chemical inventories.

Pamela Hunt, B.S. MT(ASCP)
St. Louis University Hospital
Laboratory Manager
Office: 314-577-8363
Fax: 314-268-5110
Pager: 314-491-4066

From: Dutridge, Gary
Sent: Thursday, April 04, 2013 4:12 PM
To: Hicks, Robert; Hunt, Pamela
Subject: RE: Benzadine question

Benzadine used to be used to test for the presence of Blood (forensic stuff). Not sure we even use anything with Benzadine. We'll check.

Gary Dutridge, MBA, MT(ASCP)
Laboratory Administrative Director
Saint Louis University Hospital
3635 Vista Ave at Grand Blvd
St Louis MO 63110

Ph: 314.577.8394
Fx: 314.268.5110
pager: 490-6080

From: Hicks, Robert
Sent: Thursday, April 04, 2013 7:54 AM
To: Hunt, Pamela; Dutridge, Gary
Subject: Benzadine question

Mike Kenon from MSD called me to inquire whether we use Benzadine in any of our processes. He said from his knowledge that it is used in blood testing(?) and has been showing up in our sampling at elevated levels. Do we use this and how much do we use?

Robert Hicks

Maintenance and Operations Manager
Saint Louis University Hospital
314-577-8072

Scott Rehmer

From: Scott Rehmer
Sent: Friday, August 22, 2014 1:21 PM
To: 'robert.hicks@tenethealth.com'
Subject: benzidine info
Attachments: benzidine info sheet.pdf

Hi Bob.
Per our discussion, please look into the use of benzidine in the labs or clinics or anywhere in the hospital.
Info sheet is attached.
Sampling shows some benzidine present in your wastewater over the last few years, as follows:

Facility ID: 1020548800 Name: ST LOUIS UNIVERSITY HOSPITAL [1020548800]

General Info

General | Contacts | Hours | Waste | Ext Ref | Class

Address: Premise Address - 3635 & 3655 Vista Ave., St. Louis, MO 63110

Results

Start Date: 01/01/2010 End Date: Apply

Events | Inspections | Sampling | Limit Comp | Violations | SMDE | Gen Rpts | Notifications | Surcharge | Surcharge Export

Exclude	C	Sample Point	Sample Date	Pollutant	Pollutant Description	Sample Type	BDL	Result	Result Unit	Split
☐		001	09/16/2010	T310000	Benzidine	Comp-Time 24 H		18	ug/L	☐
☐		002	09/16/2010	T310000	Benzidine	Comp-Time 24 H		34	ug/L	☐
☐		003	09/16/2010	T310000	Benzidine	Comp-Time 24 H		60	ug/L	☐
☐		001	07/17/2012	T310000	Benzidine	Comp-Time 24 H		100	ug/L	☐

Please report back to me upon the completion of your inquiry.

Avg ≈ 53 of 4 plus 3 < DL's

Thank you very much!

Scott M. Rehmer
Assistant Engineer
Environmental Compliance
Department of Engineering
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, MO 63147
Phone: 314.436.8756
Fax: 314.436.8753
Customer Service: 314.768.6260
Email: srehmer@stlmsd.com

To: ST LOUIS UNIVERSITY HOSPITAL [1020548800]

From: Doug Mendoza

Date: August 28, 2014

Re: Information regarding Benzidine and laboratory analysis

7/17/12 sample with benzidine result of 100 ug/L (RL would have been <1,00 ug/L) had Q1 qualifier. Run by PDC Labs.

On 8/22/14 I called Wayne Cooper, Director of Technical & Quality Services at PDC Labs. He said the Q1 qualifier is for "matrix spike failed % recovery." He also said benzidine is a bad actor to analyze. It breaks down and does lousy chromatography. It's common to have poor results. For some that request it, the lab will do an additional benzidine spike into the sample. It will show up as a clear peak on the test, with the other "fake benzidine" peak right next to it.

TOXICOLOGICAL PROFILE FOR
BENZIDINE
U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Agency for Toxic Substances and Disease Registry
September 2001
5. PRODUCTION, IMPORT/EXPORT, USE, AND DISPOSAL
5.3 USE
The predominant use of benzidine was for the manufacture of dyes, especially azo dyes in the leather, textile, and paper industries. The Color Index lists over 300 colors of benzidine-based dyes, some 18 of which were found to be commercially available in the United States (AATCC 1984; Gregory 1984). Eleven of these 18 dyes were domestically manufactured. It is unclear whether these dyes were manufactured from benzidine or benzidine congeners such as o-tolidine or o-dianisidine. Some of these dyes, especially direct browns, greens, and blacks, were available as consumer products in the 1970s (Jenkins 1978). Orzeck and Gregory (1981) listed 65 home dyes that contained benzidine or benzidine congeners. Access to such dyestuffs for home use is no longer available, just as remaining industrial uses must embody a stringently controlled captive consumption approach (IARC 1982a). Benzidine or related benzidine congeners may be found as minor impurities in a variety of azo dyes used in coloring prepared for food items.
Benzidine was once used in clinical laboratories for the detection of blood, but this application has been discontinued due to safety concerns and the availability of more specific methods. Other uses listed for benzidine include as a rubber compounding agent, for the manufacture of plastic films, to detect H2O2 in milk, for security printing, and for the determination of nicotine. Benzidine was also used in small quantities for the manufacture of organic chemicals and as a laboratory agent (Lawler 1977). While diaminobenzidine and related dyes derived from aromatic amines are still in common use as stains in microscopy and similar lab applications (Lunn and Sansone 1991), information is not available to quantify the levels of benzidine (likely as trace impurities) contained in such lab preparations.

SR
9-3

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

1020-5488-00

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		07/23-24/2014		07/23-24/2014		07/23-24/2014		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		11:00-11:00		10:30-10:30		12:30-12:30		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW*			90K		55K		8K	GPD
Biological Oxygen Demand	********	C	270	C	1400	C	36	mg/l
Chemical Oxygen Demand	********	C	380	C	2200	C	170	mg/l
Total Suspended Solids	********	C	70	C	580	C	26	mg/l
Total Phenol	21	G	0.099	C	0.068	C	0.068	mg/l
Oil and Grease	200	G	17	C	0.060	C	<5.0	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020			mg/l
pH	5.5-11.5	G	8.09	G	7.64	G	8.00	units
Temperature	60	G	33.8	G	29.0	G	27.1	deg C
Total Toxic Organics	5.844	G,C	0.0629	G,C	1.25	G,C	0.0638	mg/l

*flows provided per pc w/ R. Hicks on 8-28-14.
SR

You must complete and sign the certification statements on the second page.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		07/23-24/2014		07/23-24/2014				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		12:00-12:00		13:00-13:00				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW*			600		3K			
Biological Oxygen Demand	*********	C	47	C	96			mg/l
Chemical Oxygen Demand	*********	C	210	C	310			mg/l
Total Suspended Solids	*********	C	30	C	39			mg/l
Total Phenol	21	G		G	0.17			mg/l
Oil and Grease	200	G		G	7.3			mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G	7.29	G	8.10			units
Temperature	60	G	24.2	G	24.1			deg C
Total Toxic Organics	5.844	G,C		G,C	1.19			mg/l

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hicks
	Title: Director Building Services Telephone: 314-577-8072
	Signature: Robert Hicks Date: 8/6/14

PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

NELAP ACCREDITED TNI LABORATORY

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-01**
Sample Description: **MSD 001 Annual Comp**

Collect Date: **07/24/14 11:00**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	270 mg/L		07/25/14 09:30	DAS	SM 5210B 18Ed	04KS
COD	380 mg/L		07/26/14 13:00	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	70 mg/L		07/26/14 10:45	DAW	SM 2540D 18Ed	04KS
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
1,2-Dichlorobenzene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625*	
1,3-Dichlorobenzene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625*	
1,4-Dichlorobenzene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625*	
2,4,5-Trichlorophenol	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625*	
2,4,6-Trichlorophenol	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
2,4-Dichlorophenol	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
2,4-Dimethylphenol	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
2,4-Dinitrophenol	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
2,4-Dinitrotoluene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
2,6-Dimethylaniline	< 5.00 ug/L		08/01/14 19:28	BP	EPA 625*	
2,6-Dinitrotoluene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
2-Chloronaphthalene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
2-Chlorophenol	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
2-Nitrophenol	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
3,3'-Dichlorobenzidine	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
4,6-Dinitro-2-methylphenol	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625*	
4-Bromophenyl phenyl ether	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
4-Chloro-3-methylphenol	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
4-Chlorophenylphenyl ether	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
4-Nitrophenol	< 10.0 ug/L	Q1	08/01/14 19:28	BP	EPA 625	04KS
Acenaphthene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Acenaphthylene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Anthracene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Azobenzene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625*	
Benzidine	< 10.0 ug/L	Q1	08/01/14 19:28	BP	EPA 625*	
Benzo(a)anthracene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Benzo(a)pyrene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Benzo(b&k)fluoranthene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-01**
Sample Description: **MSD 001 Annual Comp**

Collect Date: **07/24/14 11:00**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
Benzo(b)fluoranthene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Benzo(g,h,i)perylene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Benzo(k)fluoranthene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Bis(2-chloroethoxy) methane	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Bis(2-chloroethyl) ether	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Bis(2-chloroisopropyl) ether	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Bis(2-ethylhexyl) phthalate	12.9 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Butyl benzyl phthalate	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Chrysene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Dibenzo(a,h)anthracene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Diethyl phthalate	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Dimethyl phthalate	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Di-n-butyl phthalate	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Di-n-octyl phthalate	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Diphenylamine	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Fluoranthene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Fluorene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Hexachlorobenzene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Hexachlorobutadiene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Hexachlorocyclopentadiene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Hexachloroethane	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Indeno(1,2,3-cd)pyrene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Isophorone	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Naphthalene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Nitrobenzene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
N-Nitrosodimethylamine	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
N-Nitrosodi-n-propylamine	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Pentachlorophenol	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Phenanthrene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Phenol	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Pyrene	< 10.0 ug/L		08/01/14 19:28	BP	EPA 625	04KS
Surrogate: 2-Fluorophenol	*12 % 10-121*		*08/01/14 19:28*	*BP*	*EPA 625*	
Surrogate: Phenol- d5	*8 % 10-157*	*X*	*08/01/14 19:28*	*BP*	*EPA 625*	

4073893

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NELAP ACCREDITED TNI LABORATORY

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Date Received: 07/24/14 13:50
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Customer #: 277382

Laboratory Results

Sample No: **4073893-01**
Sample Description: **MSD 001 Annual Comp**

Collect Date: **07/24/14 11:00**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
Surrogate: Nitrobenzene-d5	*40 % 10-109*		*08/01/14 19:28*	*BP*	*EPA 625*	
Surrogate: 2-Fluorobiphenyl	*37 % 10-107*		*08/01/14 19:28*	*BP*	*EPA 625*	
Surrogate: 2,4,6-Tribromophenol	*33 % 10-74*		*08/01/14 19:28*	*BP*	*EPA 625*	
Surrogate: p-Terphenyl-d14	*47 % 10-133*		*08/01/14 19:28*	*BP*	*EPA 625*	
Total Metals - STL						
Silver	< 0.0020 mg/L		07/31/14 10:10	WPS	200.7	04KS

Sample No: **4073893-02**
Sample Description: **MSD 001 Annual Grab**

Collect Date: **07/24/14 11:00**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.09 pH Units		07/24/14 11:00	LLO	SM*	
Temperature, Field Measured	33.5 °C		07/24/14 11:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	17 mg/L		07/28/14 11:23	DM	EPA 1664A	04KS
Phenol	0.099 mg/L		08/05/14 11:00	DWM	EPA 420.1	04KS
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
1,1,2-Trichloroethane	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
1,1-Dichloroethane	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
1,1-Dichloroethene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
1,2-Dichlorobenzene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
1,2-Dichloroethane	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
1,2-Dichloropropane	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
1,3-Dichlorobenzene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
1,4-Dichlorobenzene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
2-Chloroethylvinyl ether	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Acrolein	< 50 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Acrylonitrile	< 10 ug/L		07/31/14 12:22	BP	EPA 624	04KS

4073893

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-02**
Sample Description: **MSD 001 Annual Grab**

Collect Date: **07/24/14 11:00**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Volatile Organics - STL						
Benzene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Bromodichloromethane	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Bromoform	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Bromomethane	< 10 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Carbon tetrachloride	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Chlorobenzene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Chloroethane	< 10 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Chloroform	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Chloromethane	< 10 ug/L		07/31/14 12:22	BP	EPA 624	04KS
cis-1,3-Dichloropropene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Dibromochloromethane	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Ethylbenzene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
m,p-Xylene	< 10 ug/L		07/31/14 12:22	BP	EPA 624*	
Methylene chloride	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
o-Xylene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624*	
Tetrachloroethene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Toluene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
trans-1,2-Dichloroethene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
trans-1,3-Dichloropropene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Trichloroethene	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Trichlorofluoromethane	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Vinyl chloride	< 5.0 ug/L		07/31/14 12:22	BP	EPA 624	04KS
Surrogate: 1,2-Dichloroethane-d4	*97 % 60.7-121*		*07/31/14 12:22*	*BP*	*EPA 624*	
Surrogate: Toluene-d8	*91 % 60.6-116*		*07/31/14 12:22*	*BP*	*EPA 624*	
Surrogate: Bromofluorobenzene	*97 % 69.7-113*		*07/31/14 12:22*	*BP*	*EPA 624*	

Sample No: **4073893-03**
Sample Description: **MSD 003 Annual Comp**

Collect Date: **07/24/14 12:30**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	36 mg/L		07/25/14 09:30	DAS	SM 5210B 18Ed	04KS

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St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-03**
Sample Description: **MSD 003 Annual Comp**

Collect Date: **07/24/14 12:30**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
COD	170 mg/L		07/26/14 13:01	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	26 mg/L		07/26/14 10:45	DAW	SM 2540D 18Ed	04KS
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
1,2-Dichlorobenzene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625*	
1,3-Dichlorobenzene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625*	
1,4-Dichlorobenzene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625*	
2,4,5-Trichlorophenol	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625*	
2,4,6-Trichlorophenol	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
2,4-Dichlorophenol	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
2,4-Dimethylphenol	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
2,4-Dinitrophenol	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
2,4-Dinitrotoluene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
2,6-Dimethylaniline	< 5.00 ug/L		08/01/14 20:07	BP	EPA 625*	
2,6-Dinitrotoluene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
2-Chloronaphthalene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
2-Chlorophenol	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
2-Nitrophenol	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
3,3'-Dichlorobenzidine	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
4,6-Dinitro-2-methylphenol	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625*	
4-Bromophenyl phenyl ether	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
4-Chloro-3-methylphenol	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
4-Chlorophenylphenyl ether	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
4-Nitrophenol	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Acenaphthene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Acenaphthylene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Anthracene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Azobenzene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625*	
Benzidine	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625*	
Benzo(a)anthracene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Benzo(a)pyrene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Benzo(b&k)fluoranthene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Benzo(b)fluoranthene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-03**
Sample Description: **MSD 003 Annual Comp**

Collect Date: **07/24/14 12:30**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
Benzo(g,h,i)perylene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Benzo(k)fluoranthene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Bis(2-chloroethoxy) methane	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Bis(2-chloroethyl) ether	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Bis(2-chloroisopropyl) ether	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Bis(2-ethylhexyl) phthalate	13.8 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Butyl benzyl phthalate	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Chrysene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Dibenzo(a,h)anthracene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Diethyl phthalate	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Dimethyl phthalate	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Di-n-butyl phthalate	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Di-n-octyl phthalate	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Diphenylamine	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Fluoranthene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Fluorene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Hexachlorobenzene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Hexachlorobutadiene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Hexachlorocyclopentadiene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Hexachloroethane	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Indeno(1,2,3-cd)pyrene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Isophorone	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Naphthalene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Nitrobenzene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
N-Nitrosodimethylamine	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
N-Nitrosodi-n-propylamine	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Pentachlorophenol	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Phenanthrene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Phenol	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Pyrene	< 10.0 ug/L		08/01/14 20:07	BP	EPA 625	04KS
Surrogate: 2-Fluorophenol	*9 % 10-121*	*X*	*08/01/14 20:07*	*BP*	*EPA 625*	
Surrogate: Phenol- d5	*7 % 10-157*	*X*	*08/01/14 20:07*	*BP*	*EPA 625*	
Surrogate: Nitrobenzene-d5	*29 % 10-109*		*08/01/14 20:07*	*BP*	*EPA 625*	

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-03**
Sample Description: **MSD 003 Annual Comp**

Collect Date: **07/24/14 12:30**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
Surrogate: 2-Fluorobiphenyl	*38 % 10-107*		*08/01/14 20:07*	*BP*	*EPA 625*	
Surrogate: 2,4,6-Tribromophenol	*16 % 10-74*		*08/01/14 20:07*	*BP*	*EPA 625*	
Surrogate: p-Terphenyl-d14	*54 % 10-133*		*08/01/14 20:07*	*BP*	*EPA 625*	

Sample No: **4073893-04**
Sample Description: **MSD 003 Annual Grab**

Collect Date: **07/24/14 12:30**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.00 pH Units		07/24/14 12:30	LLO	SM*	
Temperature, Field Measured	27.1 °C		07/24/14 12:30	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	< 5.0 mg/L		07/28/14 11:24	DM	EPA 1664A	04KS
Phenol	0.068 mg/L		08/05/14 11:00	DWM	EPA 420.1	04KS
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
1,1,2-Trichloroethane	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
1,1-Dichloroethane	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
1,1-Dichloroethene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
1,2-Dichlorobenzene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
1,2-Dichloroethane	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
1,2-Dichloropropane	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
1,3-Dichlorobenzene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
1,4-Dichlorobenzene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
2-Chloroethylvinyl ether	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Acrolein	< 50 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Acrylonitrile	< 10 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Benzene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Bromodichloromethane	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Bromoform	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS

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St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-04**
Sample Description: **MSD 003 Annual Grab**

Collect Date: **07/24/14 12:30**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Volatile Organics - STL						
Bromomethane	< 10 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Carbon tetrachloride	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Chlorobenzene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Chloroethane	< 10 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Chloroform	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Chloromethane	< 10 ug/L		07/31/14 12:43	BP	EPA 624	04KS
cis-1,3-Dichloropropene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Dibromochloromethane	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Ethylbenzene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
m,p-Xylene	< 10 ug/L		07/31/14 12:43	BP	EPA 624*	
Methylene chloride	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
o-Xylene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624*	
Tetrachloroethene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Toluene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
trans-1,2-Dichloroethene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
trans-1,3-Dichloropropene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Trichloroethene	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Trichlorofluoromethane	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Vinyl chloride	< 5.0 ug/L		07/31/14 12:43	BP	EPA 624	04KS
Surrogate: 1,2-Dichloroethane-d4	*92 % 60.7-121*		*07/31/14 12:43*	*BP*	*EPA 624*	
Surrogate: Toluene-d8	*90 % 60.6-116*		*07/31/14 12:43*	*BP*	*EPA 624*	
Surrogate: Bromofluorobenzene	*93 % 69.7-113*		*07/31/14 12:43*	*BP*	*EPA 624*	

Sample No: **4073893-05**
Sample Description: **MSD 002 Annual Comp**

Collect Date: **07/24/14 10:30**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	1400 mg/L		07/25/14 09:30	DAS	SM 5210B 18Ed	04KS
COD	2200 mg/L		07/26/14 13:00	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	580 mg/L		07/26/14 10:45	DAW	SM 2540D 18Ed	04KS
Semivolatile Organics - STL						

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St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-05**
Sample Description: **MSD 002 Annual Comp**

Collect Date: **07/24/14 10:30**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
1,2-Dichlorobenzene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625*	
1,3-Dichlorobenzene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625*	
1,4-Dichlorobenzene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625*	
2,4,5-Trichlorophenol	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625*	
2,4,6-Trichlorophenol	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
2,4-Dichlorophenol	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
2,4-Dimethylphenol	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
2,4-Dinitrophenol	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
2,4-Dinitrotoluene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
2,6-Dimethylaniline	< 10.0 ug/L		08/05/14 02:25	BP	EPA 625*	
2,6-Dinitrotoluene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
2-Chloronaphthalene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
2-Chlorophenol	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
2-Nitrophenol	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
3,3'-Dichlorobenzidine	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
4,6-Dinitro-2-methylphenol	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625*	
4-Bromophenyl phenyl ether	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
4-Chloro-3-methylphenol	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
4-Chlorophenylphenyl ether	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
4-Nitrophenol	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
Acenaphthene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
Acenaphthylene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
Anthracene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
Azobenzene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625*	
Benzidine	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625*	
Benzo(a)anthracene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
Benzo(a)pyrene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
Benzo(b&k)fluoranthene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
Benzo(b)fluoranthene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
Benzo(g,h,i)perylene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
Benzo(k)fluoranthene	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS
Bis(2-chloroethoxy) methane	< 20.0 ug/L		08/05/14 02:25	BP	EPA 625	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-05**
Sample Description: **MSD 002 Annual Comp**

Collect Date: **07/24/14 10:30**
Matrix: **Waste Water Composite**

Parameters	Result		Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL							
Bis(2-chloroethyl) ether	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Bis(2-chloroisopropyl) ether	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Bis(2-ethylhexyl) phthalate	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Butyl benzyl phthalate	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Chrysene	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Dibenzo(a,h)anthracene	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Diethyl phthalate	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Dimethyl phthalate	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Di-n-butyl phthalate	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Di-n-octyl phthalate	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Diphenylamine	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Fluoranthene	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Fluorene	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Hexachlorobenzene	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Hexachlorobutadiene	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Hexachlorocyclopentadiene	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Hexachloroethane	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Indeno(1,2,3-cd)pyrene	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Isophorone	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Naphthalene	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Nitrobenzene	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
N-Nitrosodimethylamine	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
N-Nitrosodi-n-propylamine	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Pentachlorophenol	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Phenanthrene	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Phenol	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Pyrene	< 20.0	ug/L		08/05/14 02:25	BP	EPA 625	04KS
Surrogate: 2-Fluorophenol	*8 %*	*10-121*	*X*	*08/05/14 02:25*	*BP*	*EPA 625*	
Surrogate: Phenol- d5	*7 %*	*10-157*	*X*	*08/05/14 02:25*	*BP*	*EPA 625*	
Surrogate: Nitrobenzene-d5	*36 %*	*10-109*		*08/05/14 02:25*	*BP*	*EPA 625*	
Surrogate: 2-Fluorobiphenyl	*46 %*	*10-107*		*08/05/14 02:25*	*BP*	*EPA 625*	
Surrogate: 2,4,6-Tribromophenol	*14 %*	*10-74*		*08/05/14 02:25*	*BP*	*EPA 625*	
Surrogate: p-Terphenyl-d14	*66 %*	*10-133*		*08/05/14 02:25*	*BP*	*EPA 625*	

4073893

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NELAP ACCREDITED TNI LABORATORY

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-05**
Sample Description: **MSD 002 Annual Comp**

Collect Date: **07/24/14 10:30**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Total Metals - STL						
Silver	< 0.0020 mg/L		07/31/14 10:12	WPS	200.7	04KS

Sample No: **4073893-06**
Sample Description: **MSD 002 Annual Grab**

Collect Date: **07/24/14 10:30**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	7.64 pH Units		07/24/14 10:30	LLO	SM*	
Temperature, Field Measured	29.0 °C		07/24/14 10:30	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	69 mg/L		07/28/14 11:24	DM	EPA 1664A	04KS
Phenol	0.068 mg/L		08/05/14 11:00	DWM	EPA 420.1	04KS
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
1,1,2-Trichloroethane	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
1,1-Dichloroethane	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
1,1-Dichloroethene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
1,2-Dichlorobenzene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
1,2-Dichloroethane	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
1,2-Dichloropropane	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
1,3-Dichlorobenzene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
1,4-Dichlorobenzene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
2-Chloroethylvinyl ether	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Acrolein	< 50 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Acrylonitrile	< 10 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Benzene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Bromodichloromethane	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Bromoform	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Bromomethane	< 10 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Carbon tetrachloride	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-06**
Sample Description: **MSD 002 Annual Grab**

Collect Date: **07/24/14 10:30**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Volatile Organics - STL						
Chlorobenzene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Chloroethane	< 10 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Chloroform	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Chloromethane	< 10 ug/L		07/31/14 13:04	BP	EPA 624	04KS
cis-1,3-Dichloropropene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Dibromochloromethane	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Ethylbenzene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
m,p-Xylene	15 ug/L		07/31/14 13:04	BP	EPA 624*	
Methylene chloride	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
o-Xylene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624*	
Tetrachloroethene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Toluene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
trans-1,2-Dichloroethene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
trans-1,3-Dichloropropene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Trichloroethene	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Trichlorofluoromethane	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Vinyl chloride	< 5.0 ug/L		07/31/14 13:04	BP	EPA 624	04KS
Surrogate: 1,2-Dichloroethane-d4	*94 % 60.7-121*		*07/31/14 13:04*	*BP*	*EPA 624*	
Surrogate: Toluene-d8	*92 % 60.6-116*		*07/31/14 13:04*	*BP*	*EPA 624*	
Surrogate: Bromofluorobenzene	*85 % 69.7-113*		*07/31/14 13:04*	*BP*	*EPA 624*	

Sample No: **4073893-07**
Sample Description: **MSD 005 Annual Comp**

Collect Date: **07/24/14 13:00**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	96 mg/L		07/25/14 09:30	DAS	SM 5210B 18Ed	04KS
COD	310 mg/L		07/26/14 13:00	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	39 mg/L		07/26/14 10:45	DAW	SM 2540D 18Ed	04KS
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
1,2-Dichlorobenzene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625*	

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3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-07**
Sample Description: **MSD 005 Annual Comp**

Collect Date: **07/24/14 13:00**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
1,3-Dichlorobenzene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625*	
1,4-Dichlorobenzene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625*	
2,4,5-Trichlorophenol	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625*	
2,4,6-Trichlorophenol	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
2,4-Dichlorophenol	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
2,4-Dimethylphenol	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
2,4-Dinitrophenol	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
2,4-Dinitrotoluene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
2,6-Dimethylaniline	< 10.0 ug/L		08/05/14 03:05	BP	EPA 625*	
2,6-Dinitrotoluene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
2-Chloronaphthalene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
2-Chlorophenol	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
2-Nitrophenol	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
3,3'-Dichlorobenzidine	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
4,6-Dinitro-2-methylphenol	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625*	
4-Bromophenyl phenyl ether	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
4-Chloro-3-methylphenol	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
4-Chlorophenylphenyl ether	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
4-Nitrophenol	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Acenaphthene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Acenaphthylene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Anthracene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Azobenzene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625*	
Benzidine	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625*	
Benzo(a)anthracene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Benzo(a)pyrene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Benzo(b&k)fluoranthene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Benzo(b)fluoranthene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Benzo(g,h,i)perylene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Benzo(k)fluoranthene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Bis(2-chloroethoxy) methane	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Bis(2-chloroethyl) ether	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Bis(2-chloroisopropyl) ether	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-07**
Sample Description: **MSD 005 Annual Comp**

Collect Date: **07/24/14 13:00**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
Bis(2-ethylhexyl) phthalate	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Butyl benzyl phthalate	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Chrysene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Dibenzo(a,h)anthracene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Diethyl phthalate	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Dimethyl phthalate	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Di-n-butyl phthalate	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Di-n-octyl phthalate	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Diphenylamine	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Fluoranthene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Fluorene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Hexachlorobenzene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Hexachlorobutadiene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Hexachlorocyclopentadiene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Hexachloroethane	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Indeno(1,2,3-cd)pyrene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Isophorone	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Naphthalene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Nitrobenzene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
N-Nitrosodimethylamine	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
N-Nitrosodi-n-propylamine	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Pentachlorophenol	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Phenanthrene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Phenol	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Pyrene	< 20.0 ug/L		08/05/14 03:05	BP	EPA 625	04KS
Surrogate: 2-Fluorophenol	*8 % 10-121*	*X*	*08/05/14 03:05*	*BP*	*EPA 625*	
Surrogate: Phenol- d5	*6 % 10-157*	*X*	*08/05/14 03:05*	*BP*	*EPA 625*	
Surrogate: Nitrobenzene-d5	*32 % 10-109*		*08/05/14 03:05*	*BP*	*EPA 625*	
Surrogate: 2-Fluorobiphenyl	*39 % 10-107*		*08/05/14 03:05*	*BP*	*EPA 625*	
Surrogate: 2,4,6-Tribromophenol	*13 % 10-74*		*08/05/14 03:05*	*BP*	*EPA 625*	
Surrogate: p-Terphenyl-d14	*50 % 10-133*		*08/05/14 03:05*	*BP*	*EPA 625*	

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-08**
Sample Description: **MSD 005 Annual Grab**

Collect Date: **07/24/14 13:00**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.10 pH Units		07/24/14 13:00	LLO	SM*	
Temperature, Field Measured	24.1 °C		07/24/14 13:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	7.3 mg/L		07/28/14 11:25	DM	EPA 1664A	04KS
Phenol	0.17 mg/L		08/05/14 11:00	DWM	EPA 420.1	04KS
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
1,1,2-Trichloroethane	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
1,1-Dichloroethane	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
1,1-Dichloroethene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
1,2-Dichlorobenzene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
1,2-Dichloroethane	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
1,2-Dichloropropane	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
1,3-Dichlorobenzene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
1,4-Dichlorobenzene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
2-Chloroethylvinyl ether	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Acrolein	< 50 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Acrylonitrile	< 10 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Benzene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Bromodichloromethane	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Bromoform	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Bromomethane	< 10 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Carbon tetrachloride	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Chlorobenzene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Chloroethane	< 10 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Chloroform	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Chloromethane	< 10 ug/L		07/31/14 13:26	BP	EPA 624	04KS
cis-1,3-Dichloropropene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Dibromochloromethane	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Ethylbenzene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
m,p-Xylene	< 10 ug/L		07/31/14 13:26	BP	EPA 624*	
Methylene chloride	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS

4073893

PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/24/14 13:50
Report Date: 08/06/14
Customer #: 277382

Laboratory Results

Sample No: **4073893-08**
Sample Description: **MSD 005 Annual Grab**

Collect Date: **07/24/14 13:00**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Volatile Organics - STL						
o-Xylene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624*	
Tetrachloroethene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Toluene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
trans-1,2-Dichloroethene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
trans-1,3-Dichloropropene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Trichloroethene	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Trichlorofluoromethane	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Vinyl chloride	< 5.0 ug/L		07/31/14 13:26	BP	EPA 624	04KS
Surrogate: 1,2-Dichloroethane-d4	*103 % 60.7-121*		*07/31/14 13:26*	*BP*	*EPA 624*	
Surrogate: Toluene-d8	*96 % 60.6-116*		*07/31/14 13:26*	*BP*	*EPA 624*	
Surrogate: Bromofluorobenzene	*94 % 69.7-113*		*07/31/14 13:26*	*BP*	*EPA 624*	

Sample No: **4073893-09**
Sample Description: **MSD 004 Annual Comp.**

Collect Date: **07/24/14 12:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	7.29 pH Units		07/24/14 12:00	LLO	SM*	
Temperature, Field Measured	24.2 °C		07/24/14 12:00	LLO	SM*	
General Chemistry - STL						
BOD	47 mg/L		07/25/14 09:30	DAS	SM 5210B 18Ed	04KS
COD	210 mg/L		07/26/14 13:00	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	30 mg/L		07/26/14 10:45	DAW	SM 2540D 18Ed	04KS

4073893

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.enviromatrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN # 4073803
		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WW/SL-SLUDGE, NAS-SOLID		LOGGED BY: HE
				LAB PROJ #:
				TEMPLATE:
				PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT IT REPORTED	DATE COLLECTED	TIME COLLECTED	C	C	MATRIX	PREDERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles	Phenol (2 bottle)	REMARKS
MSD 001	7/23-24/14	11:00-11:00		X	WW	H2SO4,4C	X							
(Annual)	↓	↓		X	WW	Cool 4C		X						pH = 8.09
				X	WW	HNO3			X					Temp = 33.5°C
				X	WW	Cool 4C					X			
	7/24/14	11:00	X		WW	H2SO4, 4C				X			X	
	↓	↓	X		WW	HCl, 4C						X		
MSD 003	7/23-24/14	12:30-12:30		X	WW	H2SO4,4C	X							pH = 8.00
(Annual)	↓	↓		X	WW	Cool 4C		X						Temp = 32.1°C
				X	WW	Cool 4C					X			
	7/24/14	12:30	X		WW	H2SO4, 4C				X			X	Field Charge
	↓	↓	X		WW	HCl, 4C						X		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Expedited (2 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of this sample temperature: _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/24/14	13:50	[signature]	7/24/14	13:50
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	4.6 degrees C
Chill process started prior to receipt	Y Y N
Sample(s) received on ice	Y Y N
Proper bottles received in good condition	Y Y N
Bottles filled with adequate volume	Y Y N
Samples received within hold time(s)	Y Y N (Excludes typical field parameters)
Date and Time taken from sample bottle	

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN #: LOGGED BY: LAB PROJ #: TEMPLATE: PROJ. MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

SAMPLE DESCRIPTION AS YOU WANT IT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles	Phenol (2 bottle)	REMARKS
MSD 002	7/23-24/14	10:30-10:30		X	WW	H2SO4, 4C	X							
(Annual)				X	WW	Cool 4C		X						pH = 7.64
				X	WW	HNO3			X					Temp = 29.0°C
				X	WW	Cool 4C					X			
	7/24/14	10:30	X		WW	H2SO4, 4C				X			X	
			X		WW	HCl, 4C						X		
MSD 005	7/23-24/14	13:00-13:00		X	WW	H2SO4, 4C	X							pH = 8.10
(Annual)				X	WW	Cool 4C		X						Temp = 24.1°C
				X	WW	Cool 4C					X			
	7/24/14	13:00	X		WW	H2SO4, 4C				X			X	Field Charge
			X		WW	HCl, 4C						X		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Rush (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/24/14	13:50	[signature]	7/24/14	13:50
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	_____ degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pddlab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER:	P.O. NUMBER:	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER: 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN #: LOGGED BY: LAB PROJ #: TEMPLATE: PROJ. MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WW/SL-SLUDGE, NAS-SOLID

SAMPLE DESCRIPTION AS YOU WANT IT REPORTED	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS						REMARKS
MSD 004	7/23-24/14	12:00-12:00		X	WW	H2SO4,4C	X							
(Annual)	↓	↓		X	WW	Cool 4C		X						pH = 7.29
														Temp = 24.28
														Field Charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fast Rush (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Data Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/24/14	13:50	[signature]	7/24/14	13:50
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt: _____ degrees C
Chill process started prior to receipt: Y or N
Sample(s) received on ice: Y or N
Proper bottles received in good condition: Y or N
Bottles filled with adequate volume: Y or N
Samples received within hold time(s): Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle:

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION 1020-5488-00

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ■(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KA I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 7/16/14

RECEIVED
JUL 16 2014
DIVISION OF
ENVIRONMENTAL COMPLIANCE

Doug Mendoza

ST. LOUIS UNIVERSITY HOSPITAL
10255488(R)

From: Doug Mendoza
Sent: Monday, May 20, 2013 7:54 AM
To: William R. Allen; Bruce Litzsinger
Cc: Scott Rehmer; Michael S. Kynion
Subject: RE: Benzidine at St.Louis University Hospital
Attachments: BARNES-JEWISH HOSPITAL-SOUTH CA.pdf

Okay, thanks.

Bill, it looks like it may be that this may be more an issue of false positives. But it seems odd that only they show it.

My notes for SLU Hospital's 7/17/12 lab result: Benzidine was 100 ug/L, but with a Q1 qualifier. I called PDC labs on 4/2/13, since the explanatory sheet for qualifiers wasn't submitted. The person explained that Q1 means that the sample failed the matrix spike percent recovery. This does not automatically disqualify the sample result. It should have been rerun, but I don't think labs normally do. It puts the result in the "maybe" valid category. The lab person said that benzidine always gives them problems.

As to the silver values, which was your other pollutant noted, Barnes-Jewish south had a silver of 0.7 mg/L for a high volume SP on 6/7/12. This was from their own self-monitoring, but we weren't notified for a couple months. While they didn't find a specific cause, they took corrective actions, with resampling results on 9/12/12 of 0.01 mg/L and 12/6/12 of <0.01 mg/L. Their response letter is attached.

I don't think we are going to have any more/better information for you on the above items.

Doug

From: Michael S. Kynion
Sent: Wednesday, May 15, 2013 7:47 AM
To: Doug Mendoza
Cc: Scott Rehmer
Subject: FW: Benzidine at St.Louis University Hospital

FYI.

Thanks,
Mike

From: Hicks, Robert [mailto:robert.hicks@tenethealth.com]
Sent: Wednesday, May 15, 2013 7:42 AM
To: Michael S. Kynion
Subject: RE: Benzidine at St.Louis University Hospital

I still cannot find anyone in the hospital that can confirm a use of Benzadine. I searched our MSDS and cannot find anything on file either. Will continue to ask personnel maybe the techs that use the products may have better info or recognition of the products listed above.

From: Michael S. Kynion [mailto:mkynion@stlmsd.com]
Sent: Monday, April 15, 2013 1:04 PM

To: Hicks, Robert
Subject: RE: Benzidine at St.Louis University Hospital

Bob,

It is possible that the benzidine may be a constituent in some other product/chemical you have on-site. The last sampling event conducted by SLU where benzidine was detected occurred on 7/17/12. This sample was collected from SP001 with a result of 0.1 mg/L. Prior to the 7/17/12 sample, benzidine was detected in SP001, SP002 and SP003 on 9/16/10.

During a quick search online I found this information "Benzidine also has other names, such as 4,4'-diphenylenediamine or Fast Corinth Base Br...small amounts of benzidine may still be manufactured or imported for scientific research in laboratories or for other specialized uses. Some benzidine-based dyes (or products dyed with them) may also still be imported."

Hope this helps some. Let me know once or if you find anything. Thanks again for looking into this. Should you have any further questions please do not hesitate to contact me.

Thanks,

Mike Kynion
Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 E. Grand Ave.
St. Louis, MO 63147
Phone: 314-436-8720

From: Hicks, Robert [mailto:robert.hicks@tenethealth.com]
Sent: Monday, April 15, 2013 9:35 AM
To: Michael S. Kynion
Subject: Benzidine at St.Louis University Hospital

Mike,

I cannot find any of our labs that use Benzidine and we have no MSDS sheet in our online inventory for that product. I did a search and we have over 5500 items in our MSDS but none matched. Do you think this could be an ingredient in another chemical? I will take a look back at where the sample point(s) are that it showed up and try to attack it from another way.

Robert Hicks
Maintenance and Operations Manager
Saint Louis University Hospital
314-577-8072
Direct 21610

SR
4/23

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION 1020-5488-00

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		04/03-04/2014		04/03-04/2014		04/03-04/2014		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		11:40-11:40		11:20-11:20		12:00-12:00		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			90k		55K		8K	
Biological Oxygen Demand	********	C	75	C	110	C	30	mg/l
Chemical Oxygen Demand	********	C	210	C	300	C	93	mg/l
Total Suspended Solids	********	C	60	C	33	C	20	mg/l
Total Phenol	21	G	0.060	G	<0.050	G	0.31	mg/l
Oil and Grease	200	G	8.3	G	35	G	13	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020			mg/l
pH	5.5-11.5	G	8.18	C	9.07	G	8.02	units
Temperature	60	G	16.8	G	17.0	G	17.3	deg C
Total Toxic Organics	5.844	G,C						mg/l
*flows per pc w/ R. Hicks on 4-23-14. SR								

You must complete and sign the certification statements on the second page.

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04/22/2014 02:36 3142685563 SLUH BLDG SVCS PAGE 04/07

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨			005				004	
DATES ON WHICH SAMPLES WERE COLLECTED ⇨			04/03-04/2014					
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨			12:30-12:30					
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			3K				600	
Biological Oxygen Demand	*********	C	38					mg/l
Chemical Oxygen Demand	********	C	92					mg/l
Total Suspended Solids	********	C	26					mg/l
Total Phenol	21	G	<0.050					mg/l
Oil and Grease	200	G	12					mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G	8.54					units
Temperature	60	G	16.4					deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

1

04/22/2014 02:36 3142685563 SLUH BLDG SVCS PAGE 06/07

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hicks
	Title: Director – Building Services Telephone: 314-577-8072
	Signature: Robert Hicks Date: 4/22/14

2

04/22/2014 02:36 3142685563 SLUH BLDG SVCS PAGE 07/07

MSD 038169

Page 5 of 10

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3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmatrix.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS	

MATRIX TYPES: W/W-WASTEWATER; D/W-DRINKING WATER; GW-GROUND WATER; W/WSL-SLUDGE; NAS-SOLO

(FOR LAB USE ONLY) LOGIN # 4040980; LOGGED BY: HE; LAB PROJ #; TEMPLATE:; PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	4/3-4/14	11:40-11:40		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.16
	↓	↓		x	WW	HNO3			x					Temp = 16.8°C
	4/4/14	11:40	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 002	4/3-4/14	11:20-11:20		x	WW	H2SO4,4C	X							pH = 9.07
(Quarterly)	↓	↓		x	WW	Cool 4C		x						Temp = 17.0°C
	↓	↓		x	WW	HNO3			x					
	4/4/14	11:20	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	4/4/14	1500	[signature]	4/4/14	15:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt 2.8 degrees C
Chill process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4438
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN #: ____ LOGGED BY: ____ LAB PROJ #: TEMPLATE: PROJ MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WW SL-SLUDGE, NAS-SOLID.

SAMPLE DESCRIPTION AS NOW WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	S	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	4/3-4/14	12:00-12:00		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.02
	4/4/14	12:00	x		WW	H2SO4, 4C				x				Temp = 17.3°C
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 005	4/3-4/14	12:30-12:30		x	WW	H2SO4,4C	X							pH = 8.54
(Quarterly)	↓	↓		x	WW	Cool 4C		x						Temp = 16.4°C
	4/4/14	12:30	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (2-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrally (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	4/4/14	15:00	Heather Gaulart	4/4/14	15:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt ____ degrees C
Chill process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital** 1020-5488-00
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ■(JAN-MAR) □(APR-JUNE) □(JULY-SEPT) □(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

[KF] I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 4/16/14 RECEIVED

SR
01/30

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

1020-5488-00

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☒(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING 004→600

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		005
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		01/15-16/2014		01/15-16/2014		01/15-16/2014		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		12:30-12:30		12:00-12:00		13:00-13:00		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW*			90K		55K		8K	3K
Biological Oxygen Demand	********	C	140	C	250	C	240	mg/l
Chemical Oxygen Demand	********	C	280	C	440	C	420	mg/l
Total Suspended Solids	********	C	42	C	70	C	31	mg/l
Total Phenol	21	G	0.083	G	0.060	G	0.20	mg/l
Oil and Grease	200	G	8.8	G	110	G	25	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020			mg/l
pH	5.5-11.5	G	8.77	G	8.47	G	8.09	units
Temperature	60	G	13.8	G	21.0	G	18.3	deg C
Total Toxic Organics	5.844	G,C						mg/l
*provided per footnote on								
cert page; SR								

You must complete and sign the certification statements on the second page.

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INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hick
	Title: Operations MANAGER Telephone: 314-577-8072
	Signature: Robert Hick Date: 1/30/14

2

Use the same usage totals as previous

PDC Laboratories, Inc.
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(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 01/16/14 15:40
Report Date: 01/29/14
Customer #: 277382

"Laboratory Results"

Sample No: 4012144-01
Sample Description: MSD 001 Comp.

Collect Date: 01/16/14 12:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	140 mg/L		01/17/14 11:00	DAW	SM 5210B 18Ed	04KS
COD	280 mg/L		01/17/14 14:15	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	42 mg/L		01/20/14 12:15	DAW	SM 2540D 18Ed	04KS
Total Metals - STL						
Silver	< 0.0020 mg/L		01/20/14 16:24	KAE	EPA 200.7 R4.4	04KS

Sample No: 4012144-02
Sample Description: MSD 001 Grab

Collect Date: 01/16/14 12:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.77 pH Units		01/16/14 12:30	LLO	SM*	
Temperature, Field Measured	13.8 °C		01/16/14 12:30	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	8.8 mg/L		01/20/14 12:32	DM	EPA 1664A	04KS
Phenol	0.083 mg/L		01/28/14 08:00	DWM	EPA 420.1	04KS

Sample No: 4012144-03
Sample Description: MSD 002 Comp.

Collect Date: 01/16/14 12:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	250 mg/L		01/17/14 11:00	DAW	SM 5210B 18Ed	04KS
COD	440 mg/L		01/17/14 14:15	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	70 mg/L		01/20/14 12:15	DAW	SM 2540D 18Ed	04KS
Total Metals - STL						
Silver	< 0.0020 mg/L		01/20/14 16:28	KAE	EPA 200.7 R4.4	04KS

4012144

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 01/16/14 15:40
Report Date: 01/29/14
Customer #: 277382

"Laboratory Results"

Sample No: 4012144-04
Sample Description: MSD 002 Grab

Collect Date: 01/16/14 12:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	6.47 pH Units		01/16/14 12:00	LLO	SM*	
Temperature, Field Measured	21.0 °C		01/16/14 12:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	110 mg/L		01/20/14 12:32	DM	EPA 1664A	04KS
Phenol	0.060 mg/L		01/28/14 08:00	DWM	EPA 420.1	04KS

Sample No: 4012144-05
Sample Description: MSD 003 Comp.

Collect Date: 01/16/14 13:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	240 mg/L		01/17/14 11:00	DAW	SM 5210B 18Ed	04KS
COD	420 mg/L		01/17/14 14:15	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	31 mg/L		01/20/14 12:15	DAW	SM 2540D 18Ed	04KS

Sample No: 4012144-06
Sample Description: MSD 003 Grab

Collect Date: 01/16/14 13:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.08 pH Units		01/16/14 13:00	LLO	SM*	
Temperature, Field Measured	18.3 °C		01/16/14 13:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	25 mg/L		01/20/14 12:32	DM	EPA 1664A	04KS
Phenol	0.20 mg/L		01/28/14 08:00	DWM	EPA 420.1	04KS

4012144

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 01/16/14 15:40
Report Date: 01/29/14
Customer #: 277382

"Laboratory Results"

Sample No: 4012144-07
Sample Description: MSD 005 Comp.

Collect Date: 01/16/14 13:15
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	230 mg/L		01/17/14 11:00	DAW	SM 5210B 18Ed	04KS
COD	330 mg/L		01/17/14 14:15	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	70 mg/L		01/20/14 12:15	DAW	SM 2540D 18Ed	04KS

Sample No: 4012144-08
Sample Description: MSD 005 Grab

Collect Date: 01/16/14 13:15
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.36 pH Units		01/16/14 13:15	LLO	SM*	
Temperature, Field Measured	13.9 °C		01/16/14 13:15	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	23 mg/L		01/20/14 12:33	DM	EPA 1664A	04KS
Phenol	0.20 mg/L		01/28/14 08:00	DWM	EPA 420.1	04KS

4012144

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(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 01/16/14 15:40
Report Date: 01/29/14
Customer #: 277382

"Laboratory Results"

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

PIA PDC Laboratories - Peoria, IL
TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677), Wisconsin (998284430); Iowa (240); Kansas (E-10336)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
JER PDC Laboaratories - Jerseyville, IL
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17521
Drinking Water Certifications: Missouri (430)

* Not a TNI accredited analyte

Barbara G. Pandolfo

Certified by: Barb Pandolfo, Project Manager

4012144

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Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN # 4012144
		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID		LOGGED BY: HE
				LAB PROJ #:
				TEMPLATE:
				PROJ. MGR.:

SAMPLE DESCRIPTION AS SHOWN ON BOTTLE	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	1/15-16/14	12:30-12:30		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.77
				X	WW	HNO3			X					Temp = 13.8°C
	1/16/14	12:30	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
MSD 002	1/15-16/14	12:00-12:00		X	WW	H2SO4,4C	X							pH = 8.47
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 21.0°C
				X	WW	HNO3			X					
	1/16/14	12:00	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Expedite (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Data Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	1/16/14	15:40	[signature]	1/16/14	15:40
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt 4.3 degrees C
Chill process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

PDC Laboratories, Inc. – St. Louis
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CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	METHOD SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN #: LOGGED BY: JOB PROJ #: TEMPLATE: PROJ. MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WS-SLUDGE, NAS-SOLID

SAMPLE DESCRIPTION ASSIGNED TO REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	1/15-16/14	13:00-13:00		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.09
	1/16/14	13:00	X		WW	H2SO4, 4C				X				Temp = 18.32
	↓	↓	X		WW	H2SO4, 4C					X			
MSD 005	1/15-16/14	13:15-13:15		X	WW	H2SO4,4C	X							pH = 8.36
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 13.92
	1/16/14	13:15	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Expedite (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	1/16/14	15:40	[signature]	1/16/14	15:40
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt _____ degrees C
Chill process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00** 1020-5488-00
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ■(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

[KF] I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 1/14/14

RECEIVED
JAN 14 2014
DIVISION OF
ENVIRONMENTAL COMPLIANCE

Metropolitan Saint Louis Sewer District
2350 Market Street
Saint Louis, Missouri 63103-2555

ST LOUIS UNIVERSITY HOSPITAL
3635 Vista Ave
St Louis, MO 63110

Attn: Robert Hicks
Maintenance Manager

INDUSTRIAL WASTEWATER DISCHARGE PERMIT NUMBER 1020548800.

ANNUAL PERMIT FEE NOTICE

For permits in effect as of 10/01/2013.

Fee will be included in a **separate bill** from the Metropolitan St. Louis Sewer District.

Explanation of Charges

Fee for Pretreatment Program Discharge Permit covering the period October 1, 2013 through September 30, 2014 issued in accordance with the Metropolitan St. Louis District Ordinance #12413 for the location at **3635 & 3655 Vista Ave..**

Base charge @ $150.00 per permit			$150.00
Volume charge @ $0.72 per average daily Ccf	247.16	Ccf(s)	$177.96
Sample Point Charge @ $100.00 per sample point	5	Point(s)	$500.00
		Total Fee Due:	**$827.96**

For inquiries about the Annual Permit Fee, please call 314-436-8756. For inquiries about payment of the fee, which will appear on your upcoming monthly bill, please call 1-866-281-5737.

THIS IS NOT A BILL

DO NOT PAY NOW

FEE WILL BE INCLUDED IN A SEPARATE BILL

SR
11/18

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

1020-5488-00

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☒(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		10/23-24/2013		10/23-24/2013		10/23-24/2013		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		11:00-11:00		10:30-10:30		11:30-11:30		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			90K		55K		8K	GPD
Biological Oxygen Demand	*********	C	100	C	160	C	340	mg/l
Chemical Oxygen Demand	*********	C	260	C	270	C	510	mg/l
Total Suspended Solids	*********	C	42	C	230	C	280	mg/l
Total Phenol	21	G	0.055	G	0.094	G	0.24	mg/l
Oil and Grease	200	G	8.5	G	24	G	13	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020			mg/l
pH	5.5-11.5	G	8.42	G	7.64	G	8.32	units
Temperature	60	G	19.4	G	20.4	G	20.0	deg C
Total Toxic Organics	5.844	C,C						mg/l

*provided per phone call with R. Hicks on 11/18/13. SR

You must complete and sign the certification statements on the second page.

1

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METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☒(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		005		004				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		10/23-24/2013						
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		12:00-12:00						
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			3K		600			
Biological Oxygen Demand	*********	C	110					mg/l
Chemical Oxygen Demand	********	C	250					mg/l
Total Suspended Solids	********	C	25					mg/l
Total Phenol	21	G	0.078					mg/l
Oil and Grease	200	G	14					mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G	8.42					units
Temperature	60	G	17.7					deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

1

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PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived: RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur: RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hicks
	Title: Operations Manager Telephone: 314-577-8072
	Signature: [signature] Date: 11/11/13

11/16/2013 12:36 3142685563 SLUH BLDG SVCS PAGE 11/11

PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 10/24/13 15:27
Report Date: 11/07/13
Customer #: 277382

"Laboratory Results"

Sample No: 3103535-01
Sample Description: MSD 001 Comp.

Collect Date: 10/24/13 11:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	100 mg/L		10/25/13 11:30	DAW	SM 5210B 18Ed	04KS
COD	260 mg/L		10/25/13 13:15	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	42 mg/L		10/25/13 15:30	DAW	SM 2540D 18Ed	04KS
Total Metals - STL						
Silver	< 0.0020 mg/L		10/28/13 11:27	WPS	EPA 200.7 R4.4	04KS

Sample No: 3103535-02
Sample Description: MSD 001 Grab

Collect Date: 10/24/13 11:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.42 pH Units		10/24/13 11:00	LLO	SM*	
Temperature, Field Measured	19.4 °C		10/24/13 11:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	8.5 mg/L		10/29/13 09:00	mep	EPA 1664A	04KS
Phenol	0.055 mg/L		11/04/13 14:30	DWM	EPA 420.1	04KS

Sample No: 3103535-03
Sample Description: MSD 002 Comp.

Collect Date: 10/24/13 10:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	160 mg/L		10/25/13 11:30	DAW	SM 5210B 18Ed	04KS
COD	270 mg/L		10/25/13 13:15	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	230 mg/l		10/25/13 15:30	DAW	SM 2540D 18Ed	04KS
Total Metals - STL						
Silver	< 0.0020 mg/L		10/28/13 11:31	WPS	EPA 200.7 R4.4	04KS

3103535

PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 10/24/13 15:27
Report Date: 11/07/13
Customer #: 277382

"Laboratory Results"

Sample No: 3103535-04
Sample Description: MSD 002 Grab

Collect Date: 10/24/13 10:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	7.64 pH Units		10/24/13 10:30	LLO	SM*	
Temperature, Field Measured	20.4 °C		10/24/13 10:30	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	24 mg/L		10/29/13 09:00	mep	EPA 1664A	04KS
Phenol	0.094 mg/L		11/04/13 14:30	DWM	EPA 420.1	04KS

Sample No: 3103535-05
Sample Description: MSD 003 Comp.

Collect Date: 10/24/13 11:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	340 mg/L		10/25/13 11:30	DAW	SM 5210B 18Ed	04KS
COD	510 mg/L		10/25/13 13:15	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	280 mg/L		10/25/13 15:30	DAW	SM 2540D 18Ed	04KS

Sample No: 3103535-06
Sample Description: MSD 003 Grab

Collect Date: 10/24/13 11:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.32 pH Units		10/24/13 11:30	LLO	SM*	
Temperature, Field Measured	20.0 °C		10/24/13 11:30	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	13 mg/L		10/29/13 09:00	mep	EPA 1664A	04KS
Phenol	0.24 mg/L		11/04/13 14:30	DWM	EPA 420.1	04KS

3103535

PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 10/24/13 15:27
Report Date: 11/07/13
Customer #: 277382

"Laboratory Results"

Sample No: 3103535-07
Sample Description: MSD 005 Comp.

Collect Date: 10/24/13 12:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	110 mg/L		10/25/13 11:30	DAW	SM 5210D 18Ed	04KS
COD	250 mg/L		10/25/13 13:15	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	25 mg/L		10/25/13 15:30	DAW	SM 2540D 18Ed	04KS

Sample No: 3103535-08
Sample Description: MSD 005 Grab

Collect Date: 10/24/13 12:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.42 pH Units		10/24/13 12:00	LLO	SM*	
Temperature, Field Measured	17.7 °C		10/24/13 12:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	14 mg/L		10/29/13 09:00	mep	EPA 1664A	04KS
Phenol	0.078 mg/L		11/04/13 14:30	DWM	EPA 420.1	04KS

3103535

11/16/2013 12:36 3142685563 SLUH BLDG SVCS PAGE 04/11

PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 10/24/13 15:27
Report Date: 11/07/13
Customer #: 277382

"Laboratory Results"

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

PIA PDC Laboratories - Peoria, IL
TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
JER PDC Laboratories - Jerseyville, IL
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17521
Drinking Water Certifications: Missouri (430)

* Not a TNI accredited analyte

Barbara G. Pandolfo

Certified by: Barb Pandolfo, Project Manager

3103535

11/16/2013 12:36 3142685563 SLUH BLDG SVCS PAGE 05/11

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN # 3103535
		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID		LOGGED BY: HE; LAB PROJ #; TEMPLATE:; PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	O	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	10/23-24/13	11:00-11:00		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.42
	↓	↓		x	WW	HNO3			x					Temp = 19.4
	10/24/13	11:00	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 002	10/23-24/13	10:30-10:30		x	WW	H2SO4,4C	X							pH = 7.64
(Quarterly)	10/23-24/13	↓		x	WW	Cool 4C		x						Temp = 20.4°C
	↓	↓		x	WW	HNO3			x					
	10/24/13	10:30	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (4-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fast/Fail (3 Bus Days) ☐ 1-2 Bus/mess Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	10/24/13	15:00	[signature]	10/24/13	15:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt: Sale degrees C
Chill process started prior to receipt: Y or N
Sample(s) received on ice: Y or N
Proper bottles received in good condition: Y or N
Bottles filled with adequate volume: Y or N
Samples received within hold time(s): Y or N (Excludes hydrol field parameters)
Date and Time taken from sample bottle

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN #: LOGGED BY: LAB PROJ #: TEMPLATE: PROJ. MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

SAMPLE DESCRIPTION (SHOULD MATCH COC RECORD)	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	10/23-24/13	11:30-11:30		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.32
	10/24/13	11:30	x		WW	H2SO4, 4C				x				Temp = 20.0°C
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 005	10/23-24/13	12:00-12:00		x	WW	H2SO4,4C	X							pH = 8.42
(Quarterly)	↓	↓		x	WW	Cool 4C		x						Temp = 17.7°C
	10/24/13	12:00	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Expedited (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due: _____ Results By: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature: _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	10/24/13	15:00	[signature]	10/24/13	15:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt		degrees C
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within Hold times	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00** 1020-5488-00
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ■(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

☑ I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 10/11/13

RECEIVED
OCT 14 2013
DIVISION OF
ENVIRONMENTAL COMPLIANCE

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL FACILITY INSPECTION REPORT

Company: ST LOUIS UNIVERSITY HOSPITAL Account #: 1020548800
Premise Address: 3635 - 3655 Vista Avenue Zip Code: 63110
MSD Classes: SIU ☒ Non-Significant CIU ☐ CIU ☐ Surcharge ☐ Non-Toxic Process Water/Wastes ☐
Toxics-Bearing Waste ☒ No Process Discharge ☐ Multi-User ☐ Special Handling/Billing ☐
Company Representative: Robert Hicks
Title: Maintenance Manager Phone#: 314.577.8072
Inspector: Scott Rehmer
Others Present: None
Inspection Date: 9/20/13 Time: From 8:00 am To 10:30 am (Last Insp. 11/7/12)

NOTE: ALL ITEMS ARE TO BE COMPLETED BASED ON EVENTS SINCE LAST INSPECTION. ANSWERS ARE BASED ON INFORMATION OBTAINED OR PROVIDED BY COMPANY DURING INSPECTION, AS WELL AS INFORMATION IN FILE.

***** DATABASE ALSO UPDATED WITH APPROPRIATE CHANGES - see attached database reports *****

1. A. ARE THERE ADDITIONAL NON-STORMWATER ACCOUNT NUMBERS? Yes☒ No☐
   List them, note any changes: 1020548700, 1045347700
   B. Did all acct no's have water usage on PIMS? Yes☒ No☐
   C. If no to B, explain: _____

2. PROCESSES & CLEANUP/WASHDOWN:

	Cont/ Batch?	Water/Liquids Used?	Frequency of DISCHARGE	Sample pt.
Hospital care, surgical operations	Cont	Yes	Daily	001, 002
In-patient psych care; cancer treatment	Cont	Yes	Daily	001, 002, 003, 005
Clinical and research labs	Cont	Yes	Daily	001, 002
Kitchen waste	Batch	Yes	Daily	001
	(None)	N/A		
	(None)	N/A		

3. PRETREATMENT (other than grease traps) - describe:

	Sample pt.
Silver recovery (metallic & electrolytic)	001, 002

4. DOES COMPANY HAVE ANY GREASE TRAPS? Yes☒ No☐
   If yes: A. List sample points: 001
   B. What is the frequency for cleaning & maintenance? Monthly cleaning began Sept.2013 (was quarterly).
   C. Are any additives used in traps? Yes☐ No☒
   D. If yes to C, was company warned MSD will bill them for blockages they cause? Yes☒ No☐
   E. Was company informed that MSD performs separate grease trap inspections? Yes☒ No☐

5. HAS COMPANY CONSTRUCTED NEW BLDGS/ADDITIONS WITH SEWERS SINCE LAST INSPECTION? Yes☐ No☒
   If yes: A. Ask company: Did they notify MSD's Plan Review group? Unknown☐ Yes☐ No☐
   B. If no or unknown, has inspector notified Plan Review group? Yes☐ No☐
   C. Comments: _____

6. HAS COMPANY BEGUN DISCHARGING ANY NEW POLLUTANTS SINCE THE LAST INSPECTION? Yes☐ No☒
   If yes: A. List pollutants & process: _____
   B. Will MSD STP exceed existing NPDES discharge limit(s)? Yes☐ No☐
   C. Will MSD STP's discharge exceed 0.1 mg/l for any new pollutant? Yes☐ No☐
   (MSD must notify MDNR if B or C is yes and discharge will continue [40CFR122.42(b)].)
   D. Comments: _____

7. ARE THERE ANY FEDERALLY REGULATED (40 CFR 405-471) OPERATIONS? Yes☒ No☐

If yes: A. List regulation & describe (including any discharge):
40 CFR 460 Subpart A, n/a (general standards only) - Hospital point source category

B. Is maximum daily categorical discharge ≤ 100 GPD? (includes batch discharges) Yes☐ No☒

If yes to B: C. Batch ☐ or Continuous ☐? Volume verified how? _____

D. Does company ever discharge untreated, concentrated categorical wastewater? Yes☐ No☐

E. Was company in SNC during any part of the previous **24** months? Yes☐ No☐

F. Date of last NSCIU Certification Statement: _____ or not currently NSCIU ☐
(If no to B, yes to D or E, or Cert. Statement not submitted as required, company is not eligible to be an NSCIU)

8. HAS COMPANY CERTIFIED TO THE ABSENCE OF SPECIFIC CATEGORICAL POLLUTANTS? Yes☐ No☒

If yes: A. Certification date: _____

B. List absent pollutants: _____

C. Were all these pollutants non-detect in all monitoring since certification was approved? Yes☐ No☐
(If compared to intake water levels, explain details below)

If no to C: D. Explain: _____

E. Comments: _____

9. DOES CATEGORICAL WASTEWATER COMBINE WITH NON-CATEGORICAL WW PRIOR TO SAMPLING? Yes☐ No☒

If yes: A. At which points? _____

B. Current applied factor: _____ Is it correct? Yes☐ No☐

C. If no, list correct factor/explain? _____

10. IS ANY WASTEWATER SUBJECT TO PRODUCTION ☐ OR MASS ☐ BASED STANDARDS? Yes☐ No☒

If yes: A. At which points? _____

B. Since calculation of the current limits, has the long term avg production rate or discharge volume changed by 20% or more? Yes☐ No☐

C. If yes to B, explain: _____

11. ARE ANY RADIOACTIVE MATERIALS HANDLED? Yes☒ No☐

If yes: A. Describe operations & disposal: Nuclear medicine isotopes held for decay, then sewered or hauled off for disposal.

B. Does company have MSD authorization for disposal to sewer? NA☐ Yes☒ No☐

C. Most recent authorization date: 4/2/99

D. Amount discharged in most recent complete calendar year: None (pCi/L)

12. DOES COMPANY GENERATE WASTES/WASTEWATER BY GENETIC ENGINEERING RESEARCH? Yes☐ No☒

If yes: A. Does company render wastes/wastewater innocuous? Yes☐ No☐

B. If yes, describe how: _____

C. Does company have MSD authorization for disposal to sewer? NA☐ Yes☐ No☐

D. Most recent authorization date: _____

13. DOES PROCESS or P&E WASHDOWN WATER USE APPEAR EXCESSIVE? Yes☒ No☐
(IS COMPANY USING DILUTION TO MEET DISCHARGE LIMITATIONS?)

A. Explain how use was verified & any needed changes:
Water usage appears fairly normal for the type and size of hospital; water records indicate sizable increase in usage; increase due to remodel of new outpatient facility located on 2nd floor of West Pavilion; the lawn irrigation system ran more over the past two years due to the summer drought; no excessive usage observed during facility walk-through.

14. BASED ON OBSERVATIONS DURING INSPECTION, DOES COMPANY APPEAR TO HAVE SOME WATER THAT IS NOT DISCHARGED TO SEWER? Yes☒ No☐

If yes: A. Describe: Lawn irrigation; evaporative loss from CT and boiler; two of three accounts have 0.68 RF.

B. Was "Return Factor Program" brochure given to company? Yes☒ No☐
(regardless of whether some water is not discharged to sewer)

15. HAS COMPANY BEEN GRANTED A VARIANCE FROM DISCHARGE LIMITATIONS CONTAINED IN THE SEWER USE ORDINANCE? Yes☐ No☒

If yes: A. Pollutant(s) and variance limit: _____
B. Latest approval date: _____
C. Is the approved variance more than 5 years old? Yes☐ No☐
(If yes to C, a new variance must be requested – write company)

16. HAVE ANY NUMERICAL LIMITATIONS BEEN APPLIED TO COMPANY, IN ADDITION TO THOSE ALREADY CONTAINED IN THE SEWER USE ORDINANCE? Yes☐ No☒

If yes: A. Pollutant(s) and discharge limit: _____
B. Date originally applied: _____, or as part of variance above? ☐

17. HAS COMPANY EXCEEDED ORDINANCE DISCHARGE LIMITS SINCE LAST INSPECTION OR WITHIN THE LAST 12 MONTHS (if last insp <12 months ago)? Yes☐ No☒

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Y/N	Describe
			N/A	
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

18. HAS COMPANY EXCEEDED CATEGORICAL PRETREATMENT LIMITS SINCE THE LAST INSPECTION OR WITHIN LAST 12 MONTHS (if last insp <12 months ago)? NA☒ Yes☐ No☐

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Y/N	Describe
			N/A	
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

19. HAVE THERE BEEN ANY PROBLEM DISCHARGES SINCE LAST INSPECTION? Yes☐ No☒

If yes: A. Upsets? ☐ Bypasses of pretreatment facilities? ☐
Spills? ☐ Slug discharges? ☐ Other? _____
B. Explain any marked: _____

20. COULD SPILLS OR LEAKS OF ANY PROCESS TANKS, OR STORAGE TANKS, OR STORED WASTES, OR STORED CHEMICALS EASILY REACH SANITARY SEWERS OR STORM DRAINS? Yes☐ No☒

If yes: A. What needs to be done?
_____

If no: B. How are they controlled?
Large volumes of oil and liquid wastes are stored in drums and totes on containment pallets; small quantity chemicals, lab reagents, etc. stored away from drains on shelves or flammable cabinets; spill kits and absorbent on hand.

21. BASED ON OBSERVATIONS DURING INSPECTION, ARE THERE ANY AREAS WHERE COMPANY ACTIVITIES APPEAR TO IMPAIR STORMWATER RUNOFF? Yes☐ No☒

If yes: A. Describe: _____
B. What needs to be done? _____
C. Was "Illicit Stormwater Discharges" brochure given to company? Yes☒ No☐
(regardless of whether there are any problem areas)

22. DOES COMPANY HAVE ANY WRITTEN SLUG DISCHARGE CONTROL (INCLUDES SPILLS) PLANS [40CFR403.8(f)(2)(vi)]? Yes☒ No☐

If yes: A. Title (actual title, NOT "SPCCP")

	Title (actual title, NOT "SPCCP")	Last Update
1.	Hazardous Chemical Spill Plan	1/1/10
2.		

B. Were Plans reviewed for completeness, especially regarding batch discharges/slugs and Q.19/20/21? (must be done) Yes☒ No☐

C. Are updates needed to existing Plans? (If yes, write company & require) Yes☐ No☒

D. Are any Plans needed (in addition to those listed in Part A)? (If yes, write company & require) Yes☐ No☒

E. Explain why/why not for C or D: _____

23. DOES COMPANY HAVE ANY MAINTENANCE SHOP PARTS WASHERS? Yes☒ No☐

If yes: A. Parts washer solvent name: Safety Kleen Premium

B. Priority pollutants (or "none"): typically BTEX

C. How is spent solvent disposed? Hauled off-site

(These solvents are not included in database's priority pollutants list, nor monitored for unless conditions show potential discharges)

24. ARE ANY ORGANICS OR SOLVENTS USED (OTHER THAN IN PARTS WASHERS)? Yes☒ No☐

If yes: A.

Solvent name/ components	Used for?	413/433/469 Process?	How disposed?	Priority Pollutant?
Chloroform, Methylene Chloride	Lab testing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Phenanthrene, Naphthalene	Lab testing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Phenols	Sanitizing	Yes☐ No☒	Evaporates	Yes☒ No☐
Acetone, Alcohol, Xylene, Methanol	Lab testing	Yes☐ No☒	Evaporates	Yes☐ No☒
		Yes☐ No☐		Yes☐ No☐
		Yes☐ No☐		Yes☐ No☐

25. DOES COMPANY HAVE A 413/433/469-REGULATORY "SOLVENT MANAGEMENT PLAN"? Yes☐ No☒

(Applies if co. has 413/433/469 processes, whether or not solvents used)

If yes: A. Is it part of a Spill/Slug Control Plan listed above? Yes[1.☐ 2.☐] No☐

B. If no to A, date of last update for SMP: _____

C. Is there a copy of the Spill/Slug Plan or SMP in the files? Yes☐ No☐

D. Does SMP address all 413/433/469 solvents? (or verify "none" ☐) Yes☐ No☐

(If no to C or D, write company and require submittal and/or update)

26. ARE EMERGENCY NOTIFICATION PROCEDURES POSTED THAT INCLUDE MSD CONTACTS? Yes☒ No☐

A. Was company provided notification cards & told to post where emergency response personnel can locate them? Yes☒ No☐

(Must post if company generates process wastewater or stores chemicals of concern)

27. IS COMPANY REQUIRED TO SELF-MONITOR ANY OF THEIR DISCHARGES? Yes☒ No☐

If yes: A. Is requirement contained in permit ☒ or other document ☐.

B. If other document, date & description: _____

C. How frequently is sampling required? Quarterly for 001,002,003, 005; Annually for 004

D. How frequently are reports required? Quarterly

E. Have reports been on-time, complete & signed by proper person? Yes☒ No☐

F. If no, explain: _____

28. DOES COMPANY SELF-MONITOR ITS WASTEWATER DISCHARGE? Yes☒ No☐

If yes: A. Does sample collection time period match co's production shifts? Yes☒ No☐

B. Are representative grab/comp samples collected? Yes☒ No☐

C. Are EPA-approved 40 CFR 136 wastewater test methods used? Yes☒ No☐

D. Does company measure pH and/or temperature itself? Yes☐ No☒

If yes: E. Have the company show equipment and procedure (meters, calibration stds, etc.). Is measurement performed properly? Yes☐ No☐

F. If no to A,B,C, or E, _____ explain needed changes:

29. DOES COMPANY CONTINUOUSLY MONITOR AT SAMPLE POINT AND KEEP A PERMANENT RECORD FOR: pH ☐, TEMP ☐, LEL ☐? Yes☐ No☒

If yes:
- A. At which SPs? _____
- B. Does company submit quarterly summaries? Yes☐ No☐
- C. If no, explain: _____

30. DOES MSD SPLIT SAMPLES WITH THE COMPANY? Yes☐ No☒

If yes:
- A. Is company having the samples analyzed Yes☐ No☐
- B. How does company insure proper preservation, holding times & analytical methods? _____
- C. Has company submitted results of all split sample analyses since the last insp? Yes☐ No☐
- D. Have results been submitted within 28 days of the collection's calendar quarter? Yes☐ No☐
- E. If no to C, or D, explain: _____
- F. Does company still want to split samples? Yes☐ No☐
- G. Comments: _____

31. IS COMPANY REQUIRED TO REGULARLY SUBMIT ANY REPORTS OTHER THAN SELF-MONITORING REPORTS? Yes☒ No☐

If yes:
- A. Is requirement contained in permit ☒ or other document ☐.
- B. If other document, date & description: _____
- C. What is required to be reported? Radioactive materials discharge report
- D. How frequently are reports required? Quarterly
- E. Have reports been on-time, complete & signed by proper person? Yes☒ No☐
- F. If no, explain: _____

32. IS COMPANY UNDER ANY ENVIRONMENTAL ENFORCEMENT ORDERS OR REQUIREMENTS TO SUBMIT COMPLIANCE SCHEDULE REPORTS? Yes☐ No☒

If yes:
- A. Type and date: _____
- B. Have the reports & actions been on-time & complete? Yes☐ No☐
- C. If no, explain: _____

33. ASK COMPANY: IS COMPANY IN COMPLIANCE W/APPLICABLE NESHAP REGULATIONS FOR WW DISCHARGES? Yes☒ No☐
[To see if 40CFR63 applies to MSD plant, per §§63.1580(b) & 63.1582(a). Some MDNR-issued Title V air permits for specific processes allow pre-approved WW discharge. City/County-issued air permits are not NESHAP permits.]

If no:
- A. Describe: _____
- B. Was MDNR Air Pollution Control informed? (must be done) Yes☐ No☐

34. DOES COMPANY RETAIN ALL WASTEWATER RECORDS FOR AT LEAST 5 YEARS? Yes☒ No☐

If no:
- A. How long does company retain records? _____
- B. Was company told to retain for at least 5 years, per ordinance? Yes☐ No☐
- C. Where are they kept? Office files in the Energy Center

35. IS COMPANY CLASSIFIED AS A SIGNIFICANT INDUSTRIAL USER (SIU)? Yes☒ No☐

If yes:
- A. Check & explain applicable criteria:
  - ☐ Process subject to categorical stds under 40 CFR 403.6. Which cat. stds? _____
  - ☒ Process discharge => 25,000 GPD Total process volume: 67,676 gpd
  - ☐ Process discharge => 5% of TP ADW hydraulic capacity TP ADW hydraulic capacity: _____. Percent: _____
  - ☐ Process discharge => 5% of TP ADW organic capacity Which organic pollutant? _____ TP ADW organic capacity: _____. Percent: _____
  - ☐ Reasonable potential for adverse effect on operations Why? _____
  - ☐ Reasonable potential for violating PT std or req't Which ones & why? _____
- B. Does company own its bldg (is it listed as the owner in E-CIS)? Yes☒ No☐

If no:
- C. What is Bldg owner name (use DBA if avail.)? (Bldg owner is Tenet Healthcare Corp) (check E-CIS CAPS Customer Info)
- D: What is Bldg owner mailing address? (Address is the premise address) (check E-CIS CAPS Customer Info)

36. DO MSD CLASSIFICATIONS NEED TO BE REVISED? Yes☐ No☒

If yes: A. Indicate correct classifications:

SIU ☐ Non-Significant CIU ☐ CIU ☐ Surcharge ☐ Non-Toxic Process Water/Wastes ☐

Toxics-Bearing Waste ☐ No Process Discharge ☐ Multi-User ☐ Special Handling/Billing ☐

B. Explain changes: _____

37. IS COMPANY CLASSIFIED AS "Multi-User"? Yes☐ No☒

If yes: A. Is company's discharge segregated from other tenants' discharge? Yes☐ No☐

B. If no to A, does the company own the bldg/receive the MSD bills? Yes☐ No☐

C. If yes to B, was company informed it is responsible for total discharge, or else must provide segregated sample points? Yes☐ No☐

D. If no to B, are any Process/P&E Wash-type wastes discharged? Yes☐ No☐

E. If yes to D, are the wastes completely innocuous? Yes☐ No☐

(And explain why/why not: _____)

F. If yes to D, and no to E, company must accept responsibility or provide segregated SP.

Acceptance letter date: _____ Or write company with requirement ☐

G. If no to D or yes to E, are limits "alert only" on PIMS? Yes☐ No☐

H. Comments: _____

38. IS COMPANY CLASSIFIED AS "Special Handling/Billing"? Yes☐ No☒

If yes: A. Why? _____

B. Are any changes needed to reasons/details? Yes☐ No☐

C. If yes, explain: _____

D. Were company records reviewed & verified for special handling/billing reports? NA☒ Yes☐ No☐

39. SAMPLE POINTS DJ(y/n)

SP #	001	Fed.Reg.		Components:	Sanitary, Hospital waste (includes x-ray & lab waste), Boiler blowdown, NCCW, Kitchen, Storm	No
SP #	002	Fed.Reg.		Components:	Sanitary, Hospital waste (includes x-ray & lab waste), Storm	No
SP #	003	Fed.Reg.		Components:	Sanitary, Hospital waste, Storm	No
SP #	004	Fed.Reg.		Components:	NCCW, Storm	Yes
SP #	005	Fed.Reg.		Components:	Sanitary, Hospital waste, Storm	No

40. ARE ANY SAMPLE POINTS TRAPPED VENTS? Yes☐ No☒

If yes: A. List SPs: _____

B. Was co. informed that T-vents are preferred, and told why? Yes☐ No☐

41. ARE DISCHARGES AT ANY SPs SMALL/IRREGULAR ENOUGH TO ALLOW GRAB SAMPLES? Yes☒ No☐

If yes: A. List SPs and reasons: SP004, low, intermittent flow

42. ARE THERE ANY UNSAMPLED DISCHARGES? (list each lateral separately) Yes☐ No☒

Dummy SP #		Components:	
Dummy SP #		Components:	

43. DO ANY SAMPLE POINTS (including Unsampled/Dummy SPs) RECEIVE STORMWATER? Yes☒ No☐

If yes: A. List Sample Points: 001, 002, 003, 004, 005

44. WERE ALL SAMPLE POINTS (except Dummy SPs) OPENED & INSPECTED? No SPs☐ Yes☒ No☐

A. If any SPs cannot be located or opened, explain: _____

B. If any SP descript's need to be changed, explain: _____

C. Was ANY grease or other problem/debris observed in any SP? Yes☐ No☒

D. If yes to C, list SPs & describe: _____

E. If yes to C, was company directed to take corrective actions? Yes☐ No☐

45. REVIEW THE SAMPLE POINT MAP! Last map revision date: 7/5/12

A. Is the map correct and accurate in all its details? Yes☐ No☒

B If no, what changes are needed: Changed map details, SP001 & 004 location description, DSMH placement.

46. DO INSTRUCTIONS FOR "Contact Prior to Sampling" or FIELD VISIT "Special Instructions" NEED REVISION? Yes☐ No☒

If yes: A. List needed changes: _____

USE THIS SPACE FOR ANY OTHER COMMENTS/OBSERVATIONS PERTINENT TO YOUR INSPECTION OF THIS SITE.

Water usage (incoming) fairly steady over last two years, sum of three water accounts, as follows:
Feb 2010-2011; 58,509 ccf; ~ 119,900 gpd;
Feb 2011-2012; 98,490 ccf; ~ 201,800 gpd;
Feb 2012-2013; 81,142 ccf; ~ 166,300 gpd;
or a two-year average of 89,816 ccf; ~ 184,100 gpd (the two smaller accounts have an RF of 0.68).

Radiology is primarily a digital process; however, liquid processing still on-site, only used rarely as back-up to the digital.

Hospital operations at 3635 Vista (main Hosp), as follow:
1st floor - Rehab, MRI, Food services
2nd floor - Emergency Rm, CT scan, Radiology, Hematology/Oncology, Food services
3rd floor - Surgery
4th floor - Labs, Pathology, Blood bank, Mechanical office
5th floor - Patient care, Dialysis, Neuro, Offices
6th thru 9th floors - Offices, Patient care
10th floor - Endoscopy, Pharmacy, Offices
11th & 12th floors - Offices
13th floor - Cardiac cath labs, Echo (ECG) Lab, Offices
14th floor - Offices
15th floor - Pastoral care, Offices

Hospital operations at 3655 Vista (West Pavilion), as follow:
Basement - Air handling units, Storage
Ground floor - Air handling units, Chillers, Blood donation Lab, CT scan, MRI, Outpatient
1st floor - Outpatient, Labs, Offices
2nd floor - Psych, Outpatient Cancer Center, Bone marrow outpatient treatment facility (opened Oct. 2012)
3rd floor - Offices, Labs
4th floor - Psych

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

INDUSTRIAL USER CLASSIFICATIONS

03/06/1997	SIU
03/06/1997	TOX

WUNNENBERG INFO.

Base Map 20F1
Wun:St. Louis City & Co.
Grid: H 21 Page 38

SIU CRITERIA

PR25 Process Disch => 25,000 GPD

GENERAL INFORMATION

Office Mailing Address
3635 Vista Ave.
St. Louis, MO. 63110-0250

Billing Address
3635 Vista Ave
St Louis, MO. 63110-0250

INSPECTION INFORMATION

Next Due	Insp Rslt	
09/20/2013	RIN	Scott Rehmer

PERMIT INFORMATION

Issue Date: 01/01/2012
Expire Date: 12/31/2016
Extended Date:
Writer Scott Rehmer

IUQ INFORMATION

IUQ Recvd Date: 07/09/2001
Reviewer: Fabian Grabski
IUQ Recvd Date: 07/03/2006
Reviewer: Fabian Grabski
IUQ Recvd Date: 10/24/2011
Reviewer: Mike Kynion

CONTACTS

BILL	Robert Hicks	Maintenance Manager	OFF	(314) 577-8072 Ext.
FLD1	Robert Hicks	Maintenance Manager	OFF	(314) 577-8072 Ext.
	Robert Hicks	Maintenance Manager	CELL	(314) 625-0067 Ext.
FLD2	Mike Jones	Chief Engineer	CELL	(314) 835-7401 Ext.
	Mike Jones	Chief Engineer	OFF	(314) 577-8173 Ext.
FLD3	Janet Dickson	Admin Assistant	OFF	(314) 577-8070 Ext.
OFF1	Robert Hicks	Maintenance Manager	OFF	(314) 577-8072 Ext.
OFF2	Mike Jones	Chief Engineer	OFF	(314) 577-8070 Ext.
OFF3	Janet Dickson	Admin Assistant	OFF	(314) 577-8070 Ext.

OPERATIONAL INFORMATION

Work Days: 7

				S	M	T	W	T	F	S
1	1,884	07:00AM	8.0	Y	Y	Y	Y	Y	Y	Y
2	616	03:00PM	8.0	Y	Y	Y	Y	Y	Y	Y
3	615	11:00PM	8.0	Y	Y	Y	Y	Y	Y	Y

Total Emp: 3,115 Hrs: 24.0

OTHER AGENCIES INFORMATION

09/28/2005	MSD - Billing Account Number	00208066
09/28/2005	MSD - Billing Account Number	00447331
09/28/2005	MSD - Billing Account Number	00208067
10/24/2011	EPA - Hazardous Waste Program	MOR000023663
10/24/2011	MDNR - Hazardous Waste Program	20848

NON-SEWERED WASTE

On-Site Storage N On-Site Disposal N Off-Site Disposal Y

10/24/2011	Infectious Waste	519,896	LBS
10/24/2011	Paints or Paint Sludges	55	GPY
07/03/2006	Kitchen/Food Service Grease	3500	GAL
11/07/2012	Equipment Oils and/or Grease	110	GPY

COMMENTS

RAW MATERIALS

EFF DATE	MATERIAL_DESCRIPTION	QUANTITY	UNIT
12/07/2010	Medical Equipment		
12/07/2010	Medicines		

SIC INFORMATION

SIC	DESCRIPTION
8062	General Medical & Surgical Hospitals
8063	Psychiatric Hospitals

PRODUCTS

EFF DATE	DESCRIPTION	UNIT	AVG_PROD	MAX_PROD
05/07/2004	General hospital service			

Report No. PIMS012A 09/23/2013 2:51:34 pm
Data Date & Time: 09/23/2013 2:51:34 pm

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

SEWER ACCOUNTS

Sewer Accounts
1020548800
1020548700
1045347700

WATER CONSUMPTION AND WASTEWATER DISCHARGE

Start Date = 08/01/2011 12:00:00AM End Date = 12/31/2013 12:59:59PM

Acct. No.			Consumption CCF's	Gallons		Wdays	Cdays	Discharge Gal/ Wday	Gal/ Cday
1020548700			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
1020548700	07/23/2011	11/04/2011	511	511	A	105	105	105	
1020548700	11/05/2011	01/20/2012	21	532		77	77	182	
1020548700	01/21/2012	04/20/2012	107	639		91	91	273	
1020548700	04/21/2012	07/23/2012	101	740		94	94	367	
1020548700	07/24/2012	10/24/2012	34	774		93	93	460	
1020548700	10/25/2012	01/22/2013	25	799		90	90	550	
1020548700	01/23/2013	04/30/2013	34	833		98	98	648	
1020548700	05/01/2013	07/18/2013	488	1,321		79	79	727	
RF 0.68	**Acct. Total**		1,321	988,177		727	727	924	924
1020548800			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
1020548800	07/23/2011	10/25/2011	2,540	2,540	A	95	95	95	
1020548800	10/26/2011	01/20/2012	570	3,110		87	87	182	
1020548800	01/21/2012	04/20/2012	660	3,770		91	91	273	
1020548800	04/21/2012	08/03/2012	1,075	4,845		105	105	378	
1020548800	08/04/2012	10/24/2012	632	5,477		82	82	460	
1020548800	10/25/2012	01/22/2013	540	6,017		90	90	550	
1020548800	01/23/2013	04/30/2013	730	6,747		98	98	648	
1020548800	05/01/2013	07/18/2013	14,443	21,190		79	79	727	
RF 0.68	**Acct. Total**		21,190	15,851,222		727	727	14,826	14,826
1045347700			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
1045347700	07/29/2011	11/07/2011	23,823	23,823	A	102	102	102	
1045347700	11/08/2011	04/04/2012	22,569	46,392		149	149	251	
1045347700	04/05/2012	05/10/2012	7,058	53,450		36	36	287	
1045347700	05/11/2012	07/20/2012	20,394	73,844		71	71	358	
1045347700	07/21/2012	10/30/2012	24,331	98,175		102	102	460	
1045347700	10/31/2012	02/08/2013	13,704	111,879		101	101	561	
1045347700	02/09/2013	05/09/2013	10,078	121,957		90	90	651	
1045347700	05/10/2013	07/18/2013	2,157	124,114		70	70	721	
RF 1.00	**Acct. Total**		124,114	92,843,726		721	721	128,771	128,771
	Facility Total		146,625						

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
01	Sanitary Or Combined	20F3	474C	Trunk Sewer	46 - Rock Springs

Description Multiple lines from W side of hospital and E side of W pavilion to loading drive

Sewer Route W on Vista in 27 pipe to 39th St, then N in trunk to treatment plant

SAMPLE POINT NO. 001 Ordinance **NPDES Outfall No.**

Description MH in driveway W of loading dock, 50' N of Vista, near SW corner of main hospital bldg

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Boiler Blowdown		16,300	GPD		GPD	D	10/24/11
Non Contact Cooling Water	HVAC	11,675	GPD		GPD	D	10/24/11
Sanitary		37,900	GPD		GPD	D	10/24/11
Hospital Waste	including x-ray waste	28,676	GPD		GPD	D	10/24/11
Kitchen Waste		4,100	GPD		GPD	D	10/24/11
	Total Flow Avg =	**98,651**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
02	Sanitary Or Combined	20F3	415C	Trunk Sewer	46 - Rock Springs

Description Line S from S side of building to Vista Ave

Sewer Route W on Vista in 27 pipe to 39th St, then N in trunk to treatment plant

SAMPLE POINT NO. 002 Ordinance **NPDES Outfall No.**

Description MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Sanitary		30,150	GPD		GPD	D	10/24/11
Hospital Waste	including x-ray waste	26,700	GPD		GPD	D	10/24/11
	Total Flow Avg =	**56,850**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
03	Sanitary Or Combined	20F3	424C	Trunk Sewer	46 - Rock Springs

Description Line SE from S side of building at entrance drive to Vista Ave.

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 003 Ordinance **NPDES Outfall No.**

Description MH 54' E of SW corner of West Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Sanitary		2,700	GPD		GPD	D	10/24/11
Hospital Waste		5,750	GPD		GPD	D	10/24/11
	Total Flow Avg =	**8,450**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
04	Sanitary Or Combined	20F3	355C	Trunk Sewer	46 - Rock Springs

Description Line W from SW corner of parking garage to Spring Ave.

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

SAMPLE POINT NO. 004 Ordinance **NPDES Outfall No.**

Description 6" T-vent under W Pavilion parking lot, 10' N, 18' E of SW corner

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Non Contact Cooling Water		400	GPD		GPD	D	10/24/11
	Total Flow Avg =	**400**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
05	Sanitary Or Combined	20F3	348C	Trunk Sewer	46 - Rock Springs

Description Manhole 93' S, 9' W of NW corner of W pavilion building

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 005 Ordinance **NPDES Outfall No.**

Description MH 93 ' S, 9' W of NW corner of W Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Sanitary		2,550	GPD		GPD	D	10/24/11
Hospital Waste		2,450	GPD		GPD	D	10/24/11
	Total Flow Avg =	**5,000**		**Max =**			

PRETREATMENT TYPES

SP	EFF DATE	TYPE	DESCRIPTION
001	06/06/2000	DC28	Grease Trap
001	06/06/2000	DC32	Metallic Replacement
001	06/06/2000	DC20	Electrolysis
002	06/06/2000	DC20	Electrolysis
002	06/06/2000	DC32	Metallic Replacement

PRIORITY POLLUTANTS

Pollutant Description	Status	Pollutant Description	Status	Pollutant Description	Status
Asbestos (Fibrous)	KP	Mercury (Total)	KP	Phenol	SP
Methylene Chloride	KP	Chloroform	KP	Phenanthrene	KP
Naphthalene	SP				

EXTRA STRENGTH SURCHARGE INFORMATION

PIMS FACILITY CONTACTS

For Account Number Selected **1020548800** **ST LOUIS UNIVERSITY HOSPITAL**

Located at 3635 & 3655 Vista Ave.
St. Louis MO 63110

Address Type

Contact Type	Contact Name		Contact Title	Phone Type	Number	Ext.
Billing Address						
Billing Contact	Robert	Hicks	Maintenance Manager	OFF	(314)577-8072	
Office Mailing Address						
Office Contact - Primary	Robert	Hicks	Maintenance Manager	OFF	(314)577-8072	
Office Contact 1st Alt	Mike	Jones	Chief Engineer	OFF	(314)577-8070	
Office Contact 2nd Alt	Janet	Dickson	Admin Assistant	OFF	(314)577-8070	
Premise Address						
Field Contact - Primary	Robert	Hicks	Maintenance Manager	CELL	(314)625-0067	
Field Contact - Primary	Robert	Hicks	Maintenance Manager	OFF	(314)577-8072	
Field Contact 1st Alt	Mike	Jones	Chief Engineer	CELL	(314)835-7401	
Field Contact 1st Alt	Mike	Jones	Chief Engineer	OFF	(314)577-8173	
Field Contact 2nd Alt	Janet	Dickson	Admin Assistant	OFF	(314)577-8070	

PIMS
REPORT OF FIELD SAMPLING REQUIREMENTS
ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **1020548800**

SPN	PREMISE ADDRESS	CITY	ST	ZIP
	3635 & 3655 Vista Ave.	St. Louis	MO	63110

001 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2014
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2014
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2014
	T237000	pH	Once/year	Grab	06/30/2014
	T247000	Temperature	Once/year	Grab	06/30/2014
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2014
	T257000	Total Phenols	Once/year	Grab	06/30/2014
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2014
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2014
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-chloroethyl	Once/year	Grab	06/30/2014

002 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2014
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2014
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2014
	T237000	pH	Once/year	Grab	06/30/2014
	T247000	Temperature	Once/year	Grab	06/30/2014
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2014
	T257000	Total Phenols	Once/year	Grab	06/30/2014
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2014
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2014
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-chloroethyl	Once/year	Grab	06/30/2014

003 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2014
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2014
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2014
	T237000	pH	Once/year	Grab	06/30/2014
	T247000	Temperature	Once/year	Grab	06/30/2014
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2014
	T257000	Total Phenols	Once/year	Grab	06/30/2014
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2014
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-chloroethyl	Once/year	Grab	06/30/2014

004 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Grab (Auth in lieu of composite)	06/30/2014
	T213000	Chemical Oxygen Demand	Once/year	Grab (Auth in lieu of composite)	06/30/2014
	T237000	pH	Once/year	Grab	06/30/2014
	T247000	Temperature	Once/year	Grab	06/30/2014
	T256000	Total Suspended Solids	Once/year	Grab (Auth in lieu of composite)	06/30/2014

005 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2014
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2014
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2014
	T237000	pH	Once/year	Grab	06/30/2014

PIMS
REPORT OF FIELD SAMPLING REQUIREMENTS
ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **1020548800**

SPN	PREMISE ADDRESS		CITY	ST	ZIP	
	T247000	Temperature	Once/year	Grab		06/30/2014
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs		06/30/2014
	T257000	Total Phenols	Once/year	Grab		06/30/2014
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab		06/30/2014
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-chloroethyl	Once/year	Grab		06/30/2014

SR
8/16

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

1020-5488-00

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		07/15-16/2013		07/15-16/2013		07/15-16/2013		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		11:30-11:30		11:00-11:00		12:00-12:00		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			77K		39K		4K	GPD
Biological Oxygen Demand	*********	C	150	C	120	C	140	mg/l
Chemical Oxygen Demand	********	C	190	C	200	C	280	mg/l
Total Suspended Solids	********	C	120	C	44	C	55	mg/l
Total Phenol	21	G	0.078	G	0.094	G	0.39	mg/l
Oil and Grease	200	G	9.6	G	8.1	G	15	mg/l
Silver (total)	0.5	C	0.0040	C	<0.0020			mg/l
pH	5.5-11.5	G	8.27	G	8.16	G	8.32	units
Temperature	60	G	29.1	G	28.8	G	27.4	deg C
Total Toxic Organics ←	5.844	G,C	0.036	G,C	0.037	G,C	0.037	mg/l
*flow provided per pc w/								
R. Hicks on 8/15. SR								

You must complete and sign the certification statements on the second page.

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METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION 1020-5488-00

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		07/15-16/2013		07/15-16/2013				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		12:00-12:00		13:30-13:00				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			600		2500			gpd
Biological Oxygen Demand	*********	C	6.6	C	150			mg/l
Chemical Oxygen Demand	********	C	46	C	250			mg/l
Total Suspended Solids	********	C	7.2	C	45			mg/l
Total Phenol	21	G		G	0.19			mg/l
Oil and Grease	200	G		G	16			mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G	7.40	G	8.53			units
Temperature	60	G	25.3	G	27.9			deg C
Total Toxic Organics ←	5.844	G,C		G,C	0.036			mg/l

You must complete and sign the certification statements on the second page.

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PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hicks
	Title: Plant Operations Manager Telephone: 314-577-8072
	Signature: Robert Hicks Date: 7/30/13

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[illegible] Univ[illegible] Hospital	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED
[illegible]	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS	
[illegible]			MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID	

(FOR LAB USE ONLY)
LOGIN # 2072354
LOGGED BY: HE
LAB PROJ #
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles	Phenol (2 bottle)	REMARKS
MSD 001	7/15-16/13	11:30-11:30		x	WW	H2SO4,4C	X							
(Annual)	↓	↓		x	WW	Cool 4C		x						pH = 8.27
				x	WW	HNO3			x					Temp = 29.1°C
				x	WW	Cool 4C					x			
	7/16/13	11:30	x		WW	H2SO4, 4C				x			x	
	↓	↓	x		WW	HCl, 4C						x		
MSD 003	7/15-16/13	12:00-12:00		x	WW	H2SO4,4C	X							pH = 8.32
(Annual)	↓	↓		x	WW	Cool 4C		x						Temp = 27.4°C
				x	WW	Cool 4C					x			
	7/16/13	12:00	x		WW	H2SO4, 4C				x			x	Field Charge
	↓		x		WW	HCl, 4C						x		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (6 Bus Days) ☐ Fastrak (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/16/13	14:47	Heather Carlisle	7/16/13	14:47
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt SA degrees C
Chill process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle.

MSD 038209

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[illegible]	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
[illegible]	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN #
[illegible]			MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WW/SL-SLUDGE WAS-SOLID		LOGGED BY: LAB PROJ # TEMPLATE PROJ. MGR:

SAMPLE DESCRIPTION AS SHOWN ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles	Phenol (2 bottle)	REMARKS
MSD 002	7/15-16/13	11:00-11:00		X	WW	H2SO4,4C	X							
(Annual)	↓	↓		X	WW	Cool 4C		X						pH = 8.16
				X	WW	HNO3			X					Temp = 28.82
				X	WW	Cool 4C					X			
	7/16/13	11:00	X		WW	H2SO4, 4C				X			X	
	↓	↓	X		WW	HCl, 4C						X		
MSD 005	7/15-16/13	13:30-13:30		X	WW	H2SO4,4C	X							pH = 8.53
(Annual)	7/15-16/13	↓		X	WW	Cool 4C		X						Temp = 27.9°C
	7/15-16/13	↓		X	WW	Cool 4C					X			
	7/16/13	13:30	X		WW	H2SO4, 4C				X			X	Field Charge
	↓	↓	X		WW	HCl, 4C						X		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Expedited (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/16/13	14:47	[signature]	7/16/13	14:47
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt _____ degrees C
COR process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time labels from sample bottle

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[illegible] University Hospital	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
[illegible]	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN # LOGGED BY: LAB PROJ # TEMPLATE: PROJ. MGR:
[illegible]			MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER W/SL-SLUDGE NAS-SOLID		

SAMPLE DESCRIPTION AS YOU WOULD LIKE IT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS						REMARKS
MSD 004	7/15-16/13	12:00-12:00		X	WW	H2SO4,4C	X							
(Annual)	↓	↓		X	WW	Cool 4C		X						pH = 7.40
														Temp = 25.38
														set 12:30
														Field Charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fast (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/16/13	14:47	[signature]	7/16/13	14:47
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	_____ degrees C	
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-01
Sample Description: MSD 001 Comp. Annual

Collect Date: 07/16/13 11:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	150 mg/L		07/17/13 07:00	DAW	SM 5210B 18Ed	04KS
COD	190 mg/L		07/17/13 13:40	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	120 mg/L		07/17/13 14:45	DAW	SM 2540D 18Ed	04KS
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
1,2-Dichlorobenzene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625*	
1,3-Dichlorobenzene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625*	
1,4-Dichlorobenzene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625*	
2,4,5-Trichlorophenol	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625*	
2,4,6-Trichlorophenol	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
2,4-Dichlorophenol	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
2,4-Dimethylphenol	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
2,4-Dinitrophenol	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
2,4-Dinitrotoluene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
2,6-Dimethylaniline	< 5.00 ug/L		07/23/13 00:11	jk	EPA 625*	
2,6-Dinitrotoluene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
2-Chloronaphthalene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
2-Chlorophenol	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
2-Nitrophenol	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
3,3'-Dichlorobenzidine	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
4,6-Dinitro-2-methylphenol	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625*	
4-Bromophenylphenyl ether	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
4-Chloro-3-methylphenol	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
4-Chlorophenylphenyl ether	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
4-Nitrophenol	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Acenaphthene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Acenaphthylene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Anthracene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Azobenzene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625*	
Benzidine	< 10.0 ug/L	Q1	07/23/13 00:11	jk	EPA 625*	
Benzo(a)anthracene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Benzo(a)pyrene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Benzo(b&k)fluoranthene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-01
Sample Description: MSD 001 Comp. Annual

Collect Date: 07/16/13 11:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
Benzo(b)fluoranthene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Benzo(g,h,i)perylene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Benzo(k)fluoranthene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Bis(2-chloroethoxy) methane	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Bis(2-chloroethyl) ether	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Bis(2-chloroisopropyl) ether	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Bis(2-ethylhexyl) phthalate	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Butyl benzyl phthalate	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Chrysene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Dibenzo(a,h)anthracene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Diethyl phthalate	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Dimethyl phthalate	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Di-n-butyl phthalate	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Di-n-octyl phthalate	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Diphenylamine	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Fluoranthene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Fluorene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Hexachlorobenzene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Hexachlorobutadiene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Hexachlorocyclopentadiene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Hexachloroethane	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Indeno(1,2,3-cd)pyrene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Isophorone	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Naphthalene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Nitrobenzene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
N-Nitrosodimethylamine	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
N-Nitrosodi-n-propylamine	10.9 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Pentachlorophenol	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Phenanthrene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Phenol	< 10.0 ug/L	Q1	07/23/13 00:11	jk	EPA 625	04KS
Pyrene	< 10.0 ug/L		07/23/13 00:11	jk	EPA 625	04KS
Surrogate: 2-Fluorophenol	*7 % 10-101*	*X*	*07/23/13 00:11*	*jk*	*EPA 625*	
Surrogate: Phenol- d5	*5 % 10-154*	*Xa*	*07/23/13 00:11*	*jk*	*EPA 625*	

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-01
Sample Description: MSD 001 Comp. Annual

Collect Date: 07/16/13 11:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
Surrogate: Nitrobenzene-d5	*53 % 10-119*		*07/23/13 00:11*	*jk*	*EPA 625*	
Surrogate: 2-Fluorobiphenyl	*54 % 10-98*		*07/23/13 00:11*	*jk*	*EPA 625*	
Surrogate: 2,4,6-Tribromophenol	*13 % 10-89*		*07/23/13 00:11*	*jk*	*EPA 625*	
Surrogate: p-Terphenyl-d14	*75 % 11-97*		*07/23/13 00:11*	*jk*	*EPA 625*	
Total Metals - STL						
Silver	0.0040 mg/L		07/22/13 11:12	WPS	EPA 200.7 R4.4	04KS

Sample No: 3072354-02
Sample Description: MSD 001 Grab Annual

Collect Date: 07/16/13 11:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.27 pH Units		07/16/13 11:30	LLO	SM*	
Temperature, Field Measured	29.1 °C		07/16/13 11:30	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	9.6 mg/L		07/18/13 08:00	mep	EPA 1664A	04KS
Phenol	0.078 mg/L		07/23/13 11:30	DVVM	EPA 420.1	04KS
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
1,1,2-Trichloroethane	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
1,1-Dichloroethane	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
1,1-Dichloroethene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
1,2-Dichlorobenzene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
1,2-Dichloroethane	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
1,2-Dichloropropane	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
1,3-Dichlorobenzene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
1,4-Dichlorobenzene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
2-Chloroethylvinyl ether	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Acrolein	< 25 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Acrylonitrile	< 10 ug/L		07/24/13 19:52	BP	EPA 624	04KS

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Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-02
Sample Description: MSD 001 Grab Annual

Collect Date: 07/16/13 11:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Volatile Organics - STL						
Benzene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Bromodichloromethane	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Bromoform	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Bromomethane	< 10 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Carbon tetrachloride	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Chlorobenzene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Chloroethane	< 10 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Chloroform	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Chloromethane	< 10 ug/L		07/24/13 19:52	BP	EPA 624	04KS
cis-1,3-Dichloropropene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Dibromochloromethane	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Ethylbenzene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
m,p-Xylene	< 10 ug/L		07/24/13 19:52	BP	EPA 624*	
Methylene chloride	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
o-Xylene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624*	
Tetrachloroethene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Toluene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
trans-1,2-Dichloroethene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
trans-1,3-Dichloropropene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Trichloroethene	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Trichlorofluoromethane	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Vinyl chloride	< 5.0 ug/L		07/24/13 19:52	BP	EPA 624	04KS
Surrogate: 1,2-Dichloroethane-d4	*77 % 65.6-134*		*07/24/13 19:52*	*BP*	*EPA 624*	
Surrogate: Toluene-d8	*76 % 76.4-120*		*07/24/13 19:52*	*BP*	*EPA 624*	
Surrogate: Bromofluorobenzene	*77 % 61-140*		*07/24/13 19:52*	*BP*	*EPA 624*	

Sample No: 3072354-03
Sample Description: MSD 003 Comp. Annual

Collect Date: 07/16/13 12:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	140 mg/L		07/17/13 07:00	DAW	SM 5210B 18Ed	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-03
Sample Description: MSD 003 Comp. Annual

Collect Date: 07/16/13 12:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
COD	200 mg/L		07/17/13 13:40	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	55 mg/L		07/17/13 14:45	DAW	SM 2540D 18Ed	04KS
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
1,2-Dichlorobenzene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625*	
1,3-Dichlorobenzene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625*	
1,4-Dichlorobenzene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625*	
2,4,5-Trichlorophenol	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625*	
2,4,6-Trichlorophenol	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
2,4-Dichlorophenol	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
2,4-Dimethylphenol	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
2,4-Dinitrophenol	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
2,4-Dinitrotoluene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
2,6-Dimethylaniline	< 5.00 ug/L		07/23/13 00:58	jk	EPA 625*	
2,6-Dinitrotoluene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
2-Chloronaphthalene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
2-Chlorophenol	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
2-Nitrophenol	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
3,3'-Dichlorobenzidine	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
4,6-Dinitro-2-methylphenol	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625*	
4-Bromophenylphenyl ether	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
4-Chloro-3-methylphenol	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
4-Chlorophenylphenyl ether	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
4-Nitrophenol	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Acenaphthene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Acenaphthylene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Anthracene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Azobenzene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625*	
Benzidine	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625*	
Benzo(a)anthracene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Benzo(a)pyrene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Benzo(b&k)fluoranthene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Benzo(b)fluoranthene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS

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PDC Laboratories, Inc.
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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-03
Sample Description: MSD 003 Comp. Annual

Collect Date: 07/16/13 12:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
Benzo(g,h,i)perylene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Benzo(k)fluoranthene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Bis(2-chloroethoxy) methane	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Bis(2-chloroethyl) ether	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Bis(2-chloroisopropyl) ether	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Bis(2-ethylhexyl) phthalate	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Butyl benzyl phthalate	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Chrysene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Dibenzo(a,h)anthracene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Diethyl phthalate	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Dimethyl phthalate	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Di-n-butyl phthalate	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Di-n-octyl phthalate	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Diphenylamine	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Fluoranthene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Fluorene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Hexachlorobenzene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Hexachlorobutadiene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Hexachlorocyclopentadiene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Hexachloroethane	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Indeno(1,2,3-cd)pyrene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Isophorone	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Naphthalene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Nitrobenzene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
N-Nitrosodimethylamine	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
N-Nitrosodi-n-propylamine	11.9 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Pentachlorophenol	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Phenanthrene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Phenol	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Pyrene	< 10.0 ug/L		07/23/13 00:58	jk	EPA 625	04KS
Surrogate: 2-Fluorophenol	*9 %* *10-101*	*X*	*07/23/13 00:58*	*jk*	*EPA 625*	
Surrogate: Phenol- d5	*8 %* *10-154*	*Xa*	*07/23/13 00:58*	*jk*	*EPA 625*	
Surrogate: Nitrobenzene-d5	*58 %* *10-119*		*07/23/13 00:58*	*jk*	*EPA 625*	

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PDC Laboratories, Inc.
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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-03
Sample Description: MSD 003 Comp. Annual

Collect Date: 07/16/13 12:00
Matrix: Waste Water Composite

Parameters	Result		Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL						
Surrogate: 2-Fluorobiphenyl	53 %	10-98		07/23/13 00:58	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	22 %	10-69		07/23/13 00:58	jk	EPA 625
Surrogate: p-Terphenyl-d14	87 %	11-97		07/23/13 00:58	jk	EPA 625

Sample No: 3072354-04
Sample Description: MSD 003 Grab Annual

Collect Date: 07/16/13 12:00
Matrix: Waste Water Grab

Parameters	Result		Qual	Analysis Date	Analyst	Method	
Field - STL							
pH	8.32	pH Units		07/16/13 12:00	LLO	SM*	
Temperature, Field Measured	27.4	°C		07/16/13 12:00	LLO	SM*	
General Chemistry - STL							
Oil & Grease - total	15	mg/L		07/18/13 08:00	mep	EPA 1664A	04KS
Phenol	0.39	mg/L		07/23/13 11:30	DWM	EPA 420.1	04KS
Volatile Organics - STL							
1,1,1-Trichloroethane	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
1,1,2-Trichloroethane	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
1,1-Dichloroethane	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
1,1-Dichloroethene	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
1,2-Dichlorobenzene	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
1,2-Dichloroethane	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
1,2-Dichloropropane	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
1,3-Dichlorobenzene	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
1,4-Dichlorobenzene	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
2-Chloroethylvinyl ether	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
Acrolein	< 25	ug/L		07/24/13 20:17	BP	EPA 624	04KS
Acrylonitrile	< 10	ug/L		07/24/13 20:17	BP	EPA 624	04KS
Benzene	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
Bromodichloromethane	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS
Bromoform	< 5.0	ug/L		07/24/13 20:17	BP	EPA 624	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-04
Sample Description: MSD 003 Grab Annual

Collect Date: 07/16/13 12:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Volatile Organics - STL						
Bromomethane	< 10 ug/L		07/24/13 20:17	BP	EPA 624	04KS
Carbon tetrachloride	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
Chlorobenzene	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
Chloroethane	< 10 ug/L		07/24/13 20:17	BP	EPA 624	04KS
Chloroform	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
Chloromethane	< 10 ug/L		07/24/13 20:17	BP	EPA 624	04KS
cis-1,3-Dichloropropene	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
Dibromochloromethane	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
Ethylbenzene	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
m,p-Xylene	< 10 ug/L		07/24/13 20:17	BP	EPA 624*	
Methylene chloride	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
o-Xylene	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624*	
Tetrachloroethene	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
Toluene	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
trans-1,2-Dichloroethene	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
trans-1,3-Dichloropropene	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
Trichloroethene	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
Trichlorofluoromethane	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
Vinyl chloride	< 5.0 ug/L		07/24/13 20:17	BP	EPA 624	04KS
Surrogate: 1,2-Dichloroethane-d4	*83 % 65.6-134*		*07/24/13 20:17*	*BP*	*EPA 624*	
Surrogate: Toluene-d8	*73 % 75.4-120*	*T*	*07/24/13 20:17*	*BP*	*EPA 624*	
Surrogate: Bromofluorobenzene	*74 % 61-140*		*07/24/13 20:17*	*BP*	*EPA 624*	

Sample No: 3072354-05
Sample Description: MSD 002 Comp. Annual

Collect Date: 07/16/13 11:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	120 mg/L		07/17/13 07:00	DAW	SM 5210B 18Ed	04KS
COD	200 mg/L		07/17/13 13:40	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	44 mg/L		07/17/13 14:45	DAW	SM 2540D 18Ed	04KS
Semivolatile Organics - STL						

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-05
Sample Description: MSD 002 Comp. Annual

Collect Date: 07/16/13 11:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
1,2-Dichlorobenzene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625*	
1,3-Dichlorobenzene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625*	
1,4-Dichlorobenzene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625*	
2,4,5-Trichlorophenol	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625*	
2,4,6-Trichlorophenol	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
2,4-Dichlorophenol	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
2,4-Dimethylphenol	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
2,4-Dinitrophenol	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
2,4-Dinitrotoluene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
2,6 Dimethylaniline	< 5.00 ug/L		07/23/13 01:46	jk	EPA 625*	
2,6-Dinitrotoluene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
2-Chloronaphthalene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
2-Chlorophenol	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
2-Nitrophenol	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
3,3'-Dichlorobenzidine	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
4,6-Dinitro-2-methylphenol	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625*	
4-Bromophenylphenyl ether	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
4-Chloro-3-methylphenol	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
4-Chlorophenylphenyl ether	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
4-Nitrophenol	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
Acenaphthene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
Acenaphthylene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
Anthracene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
Azobenzene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625*	
Benzidine	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625*	
Benzo(a)anthracene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
Benzo(a)pyrene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
Benzo(b&k)fluoranthene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
Benzo(b)fluoranthene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
Benzo(g,h,i)perylene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
Benzo(k)fluoranthene	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS
Bis(2-chloroethoxy) methane	< 10.0 ug/L		07/23/13 01:46	jk	EPA 625	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-05
Sample Description: MSD 002 Comp. Annual

Collect Date: 07/16/13 11:00
Matrix: Waste Water Composite

Parameters	Result		Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL							
Bis(2-chloroethyl) ether	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Bis(2-chloroisopropyl) ether	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Bis(2-ethylhexyl) phthalate	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Butyl benzyl phthalate	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Chrysene	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Dibenzo(a,h)anthracene	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Diethyl phthalate	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Dimethyl phthalate	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Di-n-butyl phthalate	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Di-n-octyl phthalate	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Diphenylamine	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Fluoranthene	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Fluorene	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Hexachlorobenzene	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Hexachlorobutadiene	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Hexachlorocyclopentadiene	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Hexachloroethane	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Indeno(1,2,3-cd)pyrene	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Isophorone	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Naphthalene	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Nitrobenzene	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
N-Nitrosodimethylamine	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
N-Nitrosodi-n-propylamine	11.5	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Pentachlorophenol	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Phenanthrene	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Phenol	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Pyrene	< 10.0	ug/L		07/23/13 01:46	jk	EPA 625	04KS
Surrogate: 2-Fluorophenol	7 %	10-101	X	07/23/13 01:46	jk	EPA 625	
Surrogate: Phenol- d5	5 %	10-154	Xa	07/23/13 01:46	jk	EPA 625	
Surrogate: Nitrobenzene-d5	55 %	10-119		07/23/13 01:46	jk	EPA 625	
Surrogate: 2-Fluorobiphenyl	55 %	10-98		07/23/13 01:46	jk	EPA 625	
Surrogate: 2,4,6-Tribromophenol	17 %	10-89		07/23/13 01:46	jk	EPA 625	
Surrogate: p-Terphenyl-d14	77 %	11-97		07/23/13 01:46	jk	EPA 625	

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-05
Sample Description: MSD 002 Comp. Annual

Collect Date: 07/16/13 11:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Total Metals - STL						
Silver	< 0.0020 mg/L		07/22/13 11:16	WPS	EPA 200.7 R4.4	04KS

Sample No: 3072354-06
Sample Description: MSD 002 Grab Annual

Collect Date: 07/16/13 11:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.16 pH Units		07/16/13 11:00	LLO	SM*	
Temperature, Field Measured	28.8 °C		07/16/13 11:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	8.1 mg/L		07/18/13 08:00	mep	EPA 1664A	04KS
Phenol	0.094 mg/L		07/23/13 11:30	DWM	EPA 420.1	04KS
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
1,1,2-Trichloroethane	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
1,1-Dichloroethane	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
1,1-Dichloroethene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
1,2-Dichlorobenzene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
1,2-Dichloroethane	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
1,2-Dichloropropane	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
1,3-Dichlorobenzene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
1,4-Dichlorobenzene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
2-Chloroethylvinyl ether	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Acrolein	< 25 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Acrylonitrile	< 10 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Benzene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Bromodichloromethane	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Bromoform	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Bromomethane	< 10 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Carbon tetrachloride	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS

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St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-06
Sample Description: MSD 002 Grab Annual

Collect Date: 07/16/13 11:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Volatile Organics - STL						
Chlorobenzene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Chloroethane	< 10 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Chloroform	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Chloromethane	< 10 ug/L		07/24/13 20:41	BP	EPA 624	04KS
cis-1,3-Dichloropropene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Dibromochloromethane	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Ethylbenzene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
m,p-Xylene	< 10 ug/L		07/24/13 20:41	BP	EPA 624*	
Methylene chloride	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
o-Xylene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624*	
Tetrachloroethene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Toluene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
trans-1,2-Dichloroethene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
trans-1,3-Dichloropropene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Trichloroethene	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Trichlorofluoromethane	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Vinyl chloride	< 5.0 ug/L		07/24/13 20:41	BP	EPA 624	04KS
Surrogate: 1,2-Dichloroethane-d4	*84 % 65.6-134*		*07/24/13 20:41*	*BP*	*EPA 624*	
Surrogate: Toluene-d8	*78 % 75.4-120*		*07/24/13 20:41*	*BP*	*EPA 624*	
Surrogate: Bromofluorobenzene	*74 % 61-140*		*07/24/13 20:41*	*BP*	*EPA 624*	

Sample No: 3072354-07
Sample Description: MSD 005 Comp. Annual

Collect Date: 07/16/13 13:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	150 mg/L		07/17/13 07:00	DAW	SM 5210B 18Ed	04KS
COD	250 mg/L		07/17/13 13:40	DAW	SM 5220D 18Ed	04KS
Solids - total suspendad solids (TSS)	45 mg/L		07/17/13 14:45	DAW	SM 2540D 18Ed	04KS
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
1,2-Dichlorobenzene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625*	

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3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-07
Sample Description: MSD 005 Comp. Annual

Collect Date: 07/16/13 13:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
1,3-Dichlorobenzene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625*	
1,4-Dichlorobenzene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625*	
2,4,5-Trichlorophenol	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625*	
2,4,6-Trichlorophenol	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
2,4-Dichlorophenol	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
2,4-Dimethylphenol	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
2,4-Dinitrophenol	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
2,4-Dinitrotoluene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
2,6-Dimethylaniline	< 5.00 ug/L		07/23/13 02:33	jk	EPA 625*	
2,6-Dinitrotoluene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
2-Chloronaphthalene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
2-Chlorophenol	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
2-Nitrophenol	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
3,3'-Dichlorobenzidine	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
4,6-Dinitro-2-methylphenol	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625*	
4-Bromophenylphenyl ether	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
4-Chloro-3-methylphenol	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
4-Chlorophenylphenyl ether	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
4-Nitrophenol	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
Acenaphthene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
Acenaphthylene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
Anthracene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
Azobenzene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625*	
Benzidine	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625*	
Benzo(a)anthracene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
Benzo(a)pyrene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
Benzo(b&k)fluoranthene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
Benzo(b)fluoranthene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
Benzo(g,h,i)perylene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
Benzo(k)fluoranthene	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
Bis(2-chloroethoxy) methane	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
Bis(2-chloroethyl) ether	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS
Bis(2-chloroisopropyl) ether	< 10.0 ug/L		07/23/13 02:33	jk	EPA 625	04KS

3072354

PDC Laboratories, Inc.
3270 N Highway 67 - Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-07
Sample Description: MSD 005 Comp. Annual

Collect Date: 07/16/13 13:30
Matrix: Waste Water Composite

Parameters	Result		Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL							
Bis(2-ethylhexyl) phthalate	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Butyl benzyl phthalate	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Chrysene	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Dibenzo(a,h)anthracene	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Diethyl phthalate	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Dimethyl phthalate	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Di-n-butyl phthalate	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Di-n-octyl phthalate	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Diphenylamine	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Fluoranthene	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Fluorene	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Hexachlorobenzene	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Hexachlorobutadiene	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Hexachlorocyclopentadiene	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Hexachloroethane	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Indeno(1,2,3-cd)pyrene	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Isophorone	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Naphthalene	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Nitrobenzene	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
N-Nitrosodimethylamine	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
N-Nitrosodi-n-propylamine	10.7	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Pentachlorophenol	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Phenanthrene	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Phenol	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Pyrene	< 10.0	ug/L		07/23/13 02:33	jk	EPA 625	04KS
Surrogate: 2-Fluorophenol	7 %	10-101	X	07/23/13 02:33	jk	EPA 625	
Surrogate: Phenol- d6	5 %	10-154	Xa	07/23/13 02:33	jk	EPA 625	
Surrogate: Nitrobenzene-d5	51 %	10-119		07/23/13 02:33	jk	EPA 625	
Surrogate: 2-Fluorobiphenyl	53 %	10-96		07/23/13 02:33	jk	EPA 625	
Surrogate: 2,4,6-Tribromophenol	17 %	10-69		07/23/13 02:33	jk	EPA 625	
Surrogate: p-Terphenyl d14	88 %	11-97		07/23/13 02:33	jk	EPA 625	

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PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 338-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-08
Sample Description: MSD 005 Grab Annual

Collect Date: 07/16/13 13:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.53 pH Units		07/16/13 13:30	LLO	SM*	
Temperature, Field Measured	27.9 °C		07/16/13 13:30	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	16 mg/L		07/18/13 08:00	mep	EPA 1664A	04KS
Phenol	0.10 mg/L		07/23/13 11:30	DWM	EPA 420.1	04KS
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
1,1,2-Trichloroethane	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
1,1-Dichloroethane	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
1,1-Dichloroethene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
1,2-Dichlorobenzene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
1,2-Dichloroethane	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
1,2-Dichloropropane	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
1,3-Dichlorobenzene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
1,4-Dichlorobenzene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
2-Chloroethylvinyl ether	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Acrolein	< 25 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Acrylonitrile	< 10 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Benzene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Bromodichloromethane	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Bromoform	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Bromomethane	< 10 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Carbon tetrachloride	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Chlorobenzene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Chloroethane	< 10 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Chloroform	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Chloromethane	< 10 ug/L		07/24/13 21:05	BP	EPA 624	04KS
cis-1,3-Dichloropropene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Dibromochloromethane	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Ethylbenzene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
m,p-Xylene	< 10 ug/L		07/24/13 21:05	BP	EPA 624*	
Methylene chloride	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS

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08/16/2013 06:12 3142685563 SLUH BLDG SVCS PAGE 16/18

PDC Laboratories, Inc.
3878 N Highway 67 - Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4077

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Sample No: 3072354-08
Sample Description: MSD 005,Grab Annual

Collect Date: 07/16/13 13:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Volatile Organics - STL						
o-Xylene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624*	
Tetrachloroethene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Toluene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
trans-1,2-Dichloroethene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
trans-1,3-Dichloropropene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Trichloroethene	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Trichlorofluoromethane	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Vinyl chloride	< 5.0 ug/L		07/24/13 21:05	BP	EPA 624	04KS
Surrogate: 1,2-Dichloroethane-d4	*86 % 85.8-134*		*07/24/13 21:05*	*BP*	*EPA 624*	
Surrogate: Toluene-d8	*78 % 75.4-120*		*07/24/13 21:05*	*BP*	*EPA 624*	
Surrogate: Bromofluorobenzene	*78 % 61-140*		*07/24/13 21:05*	*BP*	*EPA 624*	

Sample No: 3072354-09
Sample Description: MSD 004 Comp. Annual

Collect Date: 07/16/13 12:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	7.40 pH Units		07/16/13 12:30	LLO	SM*	
Temperature, Field Measured	25.3 °C		07/16/13 12:30	LLO	SM*	
General Chemistry - STL						
BOD	6.6 mg/L		07/17/13 07:00	DAW	SM 5210B 18Ed	04KS
COD	48 mg/l		07/17/13 13:40	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	7.2 mg/L		07/17/13 14:45	DAW	SM 2540D 18Ed	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 07/16/13 14:52
Report Date: 07/29/13
Customer #: 277382

"Laboratory Results"

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

PIA PDC Laboratories - Peoria, IL
TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
JER PDC Laboratories - Jerseyville, IL
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17521
Drinking Water Certifications: Missouri (430)

* Not a TNI accredited analyte

Xa Low phenolds surrogate, due to matrix.
X Low 2-fluorophenol surrogate low, due to matrix.
T Surrogate recovery failed to meet the required acceptance criteria in the initial analysis. Sample was re-extracted (if applicalble) and re-analyzed, and the surrogate recovery was outside of the required acceptance criteria on the second analysis also.
Q1 MS Failed %R

Barbara G. Pandolfo

Certified by: Barb Pandolfo, Project Manager

3072354

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION 1020-5488-00

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ■(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KF I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 7/23/13

RECEIVED
JUL 23 2013
DEPT. OF ENVIRONMENTAL COMPLIANCE

MSD SR 4/19

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

1020-5488-00

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☑(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analysas Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		04/04-05/2013		04/04-05/2013		04/04-05/2013		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		10:15-10:15		10:00-10:00		10:30-10:30		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			77K		39K		4K	gpd
Biological Oxygen Demand	*********	C	430	C	270	C	180	mg/l
Chemical Oxygen Demand	*********	C	700	C	510	C	330	mg/l
Total Suspended Solids	*********	C	98	C	86	C	36	mg/l
Total Phenol	21	G	0.17	G	0.055	G	0.14	mg/l
Oil and Grease	200	G	33	G	71	G	23	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020			mg/l
pH	5.5-11.5	G	8.35	G	8.01	G	8.31	units
Temperature	60	G	19.2	G	20.2	G	21.0	deg C
Total Toxic Organics	5.844	G,C						mg/l

*provided per pc w/ R. Hicks, 4/19/13, SR

You must complete and sign the certification statements on the second page.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		005			004		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		04/04-05/2013					
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		10:45-10:45					
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)					UNITS
FLOW			2500			600	gpd
Biological Oxygen Demand	*********	C	160				mg/l
Chemical Oxygen Demand	*********	C	360				mg/l
Total Suspended Solids	*********	C	49				mg/l
Total Phenol	21	G	0.15				mg/l
Oil and Grease	200	G	8.3				mg/l
Silver (total)	0.5	C					mg/l
pH	5.5-11.5	G	8.58				units
Temperature	60	G	19.3				deg C
Total Toxic Organics	5.844	G,C					mg/l

You must complete and sign the certification statements on the second page.

1

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hicks
	Title: Plant Operations Manager Telephone: 314-577-8072
	Signature: [signature] Date: 4-19-13

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PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 04/05/13 12:15
Report Date: 04/17/13
Customer #: 277382

"Laboratory Results"

Sample No: 3041016-01
Sample Description: MSD 001 Comp

Collect Date: 04/05/13 10:15
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	430 mg/L		04/05/13 13:00	DAW	SM 5210B 18Ed	04KS
COD	700 mg/L		04/05/13 16:00	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	98 mg/L		04/08/13 13:30	DAW	SM 2540D 18Ed	04KS
Total Metals - STL						
Silver	< 0.0020 mg/L		04/10/13 14:36	WPS	EPA 200.7 R4.4	04KS

Sample No: 3041016-02
Sample Description: MSD 001 Grab

Collect Date: 04/05/13 10:15
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.35 pH Units		04/05/13 10:15	LLO	SM*	
Temperature, Field Measured	19.2 °C		04/05/13 10:15	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	33 mg/L		04/10/13 08:00	mep	EPA 1664A	04KS
Phenol	0.17 mg/L		04/09/13 12:20	DWM	EPA 420.1	04KS

Sample No: 3041016-03
Sample Description: MSD 002 Comp.

Collect Date: 04/05/13 10:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	270 mg/L		04/05/13 13:00	DAW	SM 5210B 18Ed	04KS
COD	510 mg/L		04/05/13 16:00	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	66 mg/L		04/08/13 13:30	DAW	SM 2540D 18Ed	04KS
Total Metals - STL						
Silver	< 0.0020 mg/L		04/10/13 14:40	WPS	EPA 200.7 R4.4	04KS

3041016

PDC Laboratories, Inc.
3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 303-FAST • FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 04/05/13 12:15
Report Date: 04/17/13
Customer #: 277382

"Laboratory Results"

Sample No: 3041016-04
Sample Description: MSD 002 Grab

Collect Date: 04/05/13 10:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.01 pH Units		04/05/13 10:00	LLO	SM*	
Temperature, Field Measured	20.2 °C		04/05/13 10:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	71 mg/L		04/10/13 08:00	mep	EPA 1664A	04KS
Phenol	0.055 mg/L		04/09/13 12:20	DWM	EPA 420.1	04KS

Sample No: 3041016-05
Sample Description: MSD 003 Comp

Collect Date: 04/05/13 10:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	180 mg/L		04/05/13 13:00	DAW	SM 5210B 18Ed	04KS
COD	330 mg/L		04/05/13 16:00	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	30 mg/L		04/08/13 13:30	DAW	SM 2540D 18Ed	04KS

Sample No: 3041016-06
Sample Description: MSD 003 Grab

Collect Date: 04/05/13 10:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.31 pH Units		04/05/13 10:30	LLO	SM*	
Temperature, Field Measured	21.0 °C		04/05/13 10:30	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	23 mg/L		04/10/13 08:00	mep	EPA 1664A	04KS
Phenol	0.14 mg/L		04/09/13 12:20	DWM	EPA 420.1	04KS

3041016

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 04/05/13 12:15
Report Date: 04/17/13
Customer #: 277382

"Laboratory Results"

Sample No: 3041016-07
Sample Description: MSD 005 Comp

Collect Date: 04/05/13 10:45
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	160 mg/L		04/05/13 13:00	DAW	SM 5210B 18Ed	04KS
COD	360 mg/L		04/05/13 16:00	DAW	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	49 mg/L		04/08/13 13:30	DAW	SM 2540D 18Ed	04KS

Sample No: 3041016-08
Sample Description: MSD 005 Grab

Collect Date: 04/05/13 10:45
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.58 pH Units		04/05/13 10:45	LLO	SM*	
Temperature, Field Measured	19.3 °C		04/05/13 10:45	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	8.3 mg/L		04/10/13 08:00	mcp	EPA 1664A	04KS
Phenol	0.15 mg/L		04/09/13 12:20	DWM	EPA 420.1	04KS

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Attn: Mike Jones

Date Received: 04/05/13 12:15
Report Date: 04/17/13
Customer #: 277382

"Laboratory Results"

Notes

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TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10336); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240), Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

* Not a TNI accredited analyte

Barbara G. Pandolfo

Certified by: Barb Pandolfo, Project Manager

3041016

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Florissant, MO 63033
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CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

St. Louis University Hospital	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED
[illegible] Vista Ave	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS	
St. Louis, MO [illegible]	[illegible]		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID	
[illegible]				

(FOR LAB USE ONLY)
LOG # 3041016
LOGGED BY: [illegible]
LAB PROJ #
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	C	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	4/4-5/13	10:15-10:15		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.35
	↓	↓		x	WW	HNO3			x					Temp = 19.2°C
	4/5/13	10:15	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 002	4/4-5/13	10:00-10:00		x	WW	H2SO4,4C	X							pH = 8.01
(Quarterly)	↓	↓		x	WW	Cool 4C		x						Temp = 20.2°C
	↓	↓		x	WW	HNO3			x					
	4/5/13	10:00	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrain (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	4/5/13	12:00	[signature]	4-5-13	1215
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	13.6 degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

SLUH BLDG SVCS
3142685563
04/19/2013 05:12
MSD 038237

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Florissant, MO 63033
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ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[illegible] St. Louis University Hospital	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED
[illegible] Vista Ave	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS	
[illegible] St. Louis, MO [illegible]	[illegible]		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID	
[illegible] Mr. [illegible]				

(FOR LAB USE ONLY)
LOGIN # 304016
LOGGED BY: [illegible]
LAB PROJ #
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	4/4-5/13	10:30-10:30		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.31
	4/5/13	10:30	x		WW	H2SO4, 4C				x				Temp = 21.0°C
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 005	4/4-5/13	10:45-10:45		x	WW	H2SO4,4C	X							pH = 8.58
(Quarterly)	↓	↓		x	WW	Cool 4C		x						Temp = 19.3°C
	4/5/13	10:45	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (3-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	4/5/13	12:00	[signature]	4-5	12:15
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	13.6 degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

04/19/2013 05:12 3142685563 SLUH BLDG SVCS

SR
MSD 4/19

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION 1020-5488-00

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☑(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		01/09-10/2013		01/09-10/2013		01/09-10/2013		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		10:30-10:30		10:00-10:00		11:00-11:00		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			77K		39K		4K	gpd
Biological Oxygen Demand	********	C	130	C	>180	C	92	mg/l
Chemical Oxygen Demand	********	C	350	C	650	C	550	mg/l
Total Suspended Solids	********	C	40	C	82	C	48	mg/l
Total Phenol	21	G	0.10	G	0.094	G	0.20	mg/l
Oil and Grease	200	G	17	G	36	G	11	mg/l
Silver (total)	0.5	C		C	<0.0020			mg/l
pH	5.5-11.5	G	8.42	G	8.68	G	7.99	units
Temperature	60	G	17.7	G	17.8	G	19.1	deg C
Total Toxic Organics	5.844	G,C						mg/l
* flows provided per pc w/								
R. Hicks, 4/19/13, SR								

You must complete and sign the certification statements on the second page.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS			005			004		
DATES ON WHICH SAMPLES WERE COLLECTED			01/09-10/2013					
TIMES AT WHICH SAMPLES WERE COLLECTED			12:00-12:00					
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			2500				600	
Biological Oxygen Demand	********	C	110					mg/l
Chemical Oxygen Demand	********	C	200					mg/l
Total Suspended Solids	********	C	38					mg/l
Total Phenol	21	G	0.10					mg/l
Oil and Grease	200	G	10					mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G	8.58					units
Temperature	60	G	15.3					deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hicks
	Title: Plant Operations Manager Telephone: 314 572 8072
	Signature: [signature] Date: 4-19-13

2

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 01/10/13 15:32
Report Date: 01/23/13
Customer #: 277382

"Laboratory Results"

Sample No: 3011613-01
Sample Description: MSD 001 Comp

Collect Date: 01/10/13 10:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	130 mg/L		01/11/13 11:34	DAW	SM 5210B 18Ed	04KS
COD	350 mg/L		01/14/13 15:42	KAE	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	40 mg/L		01/11/13 16:21	DAW	SM 2540D 18Ed	04KS
Total Metals - STL						
Silver	< 0.0020 mg/L		01/14/13 13:41	WPS	EPA 200.7 R4.4	04KS

Sample No: 3011613-02
Sample Description: MSD 001 Grab

Collect Date: 01/10/13 10:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.42 pH Units		01/10/13 10:30	LLO	SM*	
Temperature, Field Measured	17.7 °C		01/10/13 10:30	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	17 mg/L		01/14/13 08:00	mcp	EPA 1664A	04KS
Phenol	0.10 mg/L		01/23/13 10:56	DWM	EPA 420.1	04KS

Sample No: 3011613-03
Sample Description: MSD 002 Comp.

Collect Date: 01/10/13 10:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	>180 mg/L		01/11/13 11:34	DAW	SM 5210B 18Ed	04KS
COD	650 mg/L		01/14/13 15:42	KAE	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	82 mg/L		01/11/13 16:21	DAW	SM 2540D 18Ed	04KS
Total Metals - STL						
Silver	< 0.0020 mg/L		01/14/13 13:45	WPS	EPA 200.7 R4.4	04KS

3011613

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 01/10/13 15:32
Report Date: 01/23/13
Customer #: 277382

"Laboratory Results"

Sample No: 3011613-04
Sample Description: MSD 002 grab

Collect Date: 01/10/13 10:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.68 pH Units		01/10/13 10:00	LLO	SM*	
Temperature, Field Measured	17.8 °C		01/10/13 10:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	38 mg/L		01/14/13 08:00	mep	EPA 1664A	04KS
Phenol	0.094 mg/L		01/23/13 10:56	DWM	EPA 420.1	04KS

Sample No: 3011613-05
Sample Description: MSD 003 Comp

Collect Date: 01/10/13 11:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	92 mg/L		01/11/13 11:34	DAW	SM 5210B 18Ed	04KS
COD	550 mg/L		01/14/13 15:42	KAE	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	48 mg/L		01/11/13 16:21	DAW	SM 2540D 18Ed	04KS

Sample No: 3011613-06
Sample Description: MSD 003 grab

Collect Date: 01/10/13 11:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	7.99 pH Units		01/10/13 11:00	LLO	SM*	
Temperature, Field Measured	19.1 °C		01/10/13 11:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	11 mg/L		01/14/13 08:00	mep	EPA 1664A	04KS
Phenol	0.20 mg/L		01/23/13 10:56	DWM	EPA 420.1	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 01/10/13 15:32
Report Date: 01/23/13
Customer #: 277382

"Laboratory Results"

Sample No: 3011613-07
Sample Description: MSD 005 Comp

Collect Date: 01/10/13 12:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
BOD	110 mg/L		01/11/13 11:34	DAW	SM 5210B 18Ed	04KS
COD	200 mg/L		01/14/13 15:42	KAE	SM 5220D 18Ed	04KS
Solids - total suspended solids (TSS)	38 mg/L		01/11/13 16:21	DAW	SM 2540D 18Ed	04KS

Sample No: 3011613-08
Sample Description: MSD 005 grab

Collect Date: 01/10/13 12:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Field - STL						
pH	8.58 pH Units		01/10/13 12:00	LLO	SM*	
Temperature, Field Measured	15.3 °C		01/10/13 12:00	LLO	SM*	
General Chemistry - STL						
Oil & Grease - total	10 mg/L		01/14/13 08:00	mep	EPA 1664A	04KS
Phenol	0.10 mg/L		01/23/13 10:56	DWM	EPA 420.1	04KS

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 01/10/13 15:32
Report Date: 01/23/13
Customer #: 277382

"Laboratory Results"

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PIA PDC Laboratories - Peoria, IL
TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

* Not a TNI accredited analyte

Barbara G. Pandolfo

Certified by: Barb Pandolfo, Project Manager

3011613

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PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN # 301613
		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID		LOGGED BY: HG
				LAB PROJ #:
				TEMPLATE:
				PROJ. MGR:

SAMPLE DESCRIPTION AS SHOWN ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	1/9-10/13	10:30-10:30		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.42
				X	WW	HNO3			X					Temp = 17.7°C
	1/10/13	10:30	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
MSD 002	1/9-10/13	10:00-10:00		X	WW	H2SO4,4C	X							pH = 8.68
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 17.8°C
				X	WW	HNO3			X					
	1/10/13	10:00	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak (2 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	1/10/13	15:00	[signature]	1/10/13	15:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	6.8	degrees C
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Exclude typical field parameters)
Date and Time taken (from sample bottle		

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.envirometrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[redacted]	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED
	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS	
[redacted]	[redacted]		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID	

(FOR LAB USE ONLY)
LOT#
LOGGED BY:
LAB PROJ #
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	1/9-10/13	11:00-11:00		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 7.99
	1/10/13	11:00	x		WW	H2SO4, 4C				x				Temp = 19.1°C
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 005	1/9-10/13	12:00-12:00		x	WW	H2SO4,4C	X							pH = 8.58
(Quarterly)	↓	↓		x	WW	Cool 4C		x						Temp = 15.3°C
	1/10/13	12:00	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE
☐ Normal (6-10 Bus Days) ☐ Rush (6 Bus Days) ☐ Flashrm (5 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	1/10/13	15:00	Heather Gallant	1/10/13	15:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt _____ degrees C
Chill process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

SR

MSD

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

1020-5488-00

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ■(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KF I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 4/16/13

RECEIVED
APR 16 2013
DIVISION OF
ENVIRONMENTAL COMPLIANCE

St. Louis University Hospital
10[redacted]548800 MSD

Michael S. Kynion

SR

From: Michael S. Kynion
Sent: Monday, April 08, 2013 10:23 AM
To: 'Hicks, Robert'
Cc: Scott Rehmer
Subject: RE: St. Louis University Hospital Question

Bob,

Thank you for your e-mail requesting discharge approval for Glutaraldehyde. It is the understanding of MSD that Glutaraldehyde is used as a cleaning agent for wands associated with Echocardiogram equipment. We have completed our review of the information you provided. Based on the information you provided, it appears that the addition of this wastewater discharge should result in a total facility discharge that continues to meet federal and MSD discharge standards.

However, there are a number of factors that can affect discharge compliance with federal and MSD standards. The user has responsibility to maintain the facility in compliance with those limits. This e-mail does not allow discharge of any material that would cause a violation of federal standards or the ordinance.

Thank you for your assistance in helping us to comply with state and federal regulations. If you have any questions, please contact me at 314.436.8720.

Thanks,

Mike Kynion
Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 E. Grand Ave.
St. Louis, MO 63147
Phone: 314-436-8720

From: Hicks, Robert [mailto:robert.hicks@tenethealth.com]
Sent: Thursday, April 04, 2013 1:51 PM
To: Michael S. Kynion
Subject: St. Louis University Hospital Question

Mike,

First of all I am working on the answer to the Benzadine and where we use it in the hospital. I am waiting for the lab director to get back to me. My question is we are moving our Echocardiogram unit to a new locale and they have a cleaner for their wands that is cleaned with Glutaraldehyde. The question is does this need to be neutralized before we put it in the drain. Also, is there a limit for this product? I don't know the amount that will be used at this time.

Robert Hicks
Maintenance and Operations Manager
Saint Louis University Hospital
314-577-8072

MSD

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

1020-5488-00

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ■(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KF I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 1/25/13

RECEIVED
JAN 25 2013
DIVISION OF
ENVIRONMENTAL COMPLIANCE

SR

MSD

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL FACILITY INSPECTION REPORT

Company: St. Louis University Hospital — Account #: 1020548800
Premise Address: 3635 & 3655 Vista Avenue — Zip Code: 63110
MSD Classes: SIU ☒ Non-Significant CIU ☐ CIU ☐ Surcharge ☐ Non-Toxic Process Water/Wastes ☐
Toxics-Bearing Waste ☒ No Process Discharge ☐ Multi-User ☐ Special Handling/Billing ☐
Company Representative: Bob Hicks
Title: Maintenance Manager — Phone#: 314-577-8072
Inspector: Mike Kynion
Others Present: None
Inspection Date: **11/7/12** Time: From 08:40 AM To 11:40 AM (Last Insp. 11/8/11)

NOTE: ALL ITEMS ARE TO BE COMPLETED BASED ON EVENTS SINCE LAST INSPECTION. ANSWERS ARE BASED ON INFORMATION OBTAINED OR PROVIDED BY COMPANY DURING INSPECTION, AS WELL AS INFORMATION IN FILE.

***** DATABASE ALSO UPDATED WITH APPROPRIATE CHANGES - see attached database reports *****

1. A. ARE THERE ADDITIONAL NON-STORMWATER ACCOUNT NUMBERS? Yes☒ No☐
   List them, note any changes: Utility Def # 9009153601 has been updated to Premise # 1045347700. Utility Def # 4112195001 has been updated to Premise # 1020548700.
   B. Did all acct no's have water usage on PIMS? Yes☐ No☒
   C. If no to B, explain: DRVR needs to be entered for 1045347700 and 1020548700

2. PROCESSES & CLEANUP/WASHDOWN:

	Cont/ Batch?	Water/Liquids Used?	Frequency of DISCHARGE	Sample pt.
Hospital Care and Surgical Operations	Cont	Yes	Daily	001, 002
In-patient psychiatric care and cancer treatment	Cont	Yes	Daily	001, 002, 003, 005
Clinical and Research Laboratories	Cont	Yes	Daily	001, 002
Kitchen waste	Batch	Yes	Daily	001
	(None)	N/A		
	(None)	N/A		

3. PRETREATMENT (other than grease traps) - describe:

	Sample pt.
Silver recovery (metallic and electrolytic)	001, 002

4. DOES COMPANY HAVE ANY GREASE TRAPS? Yes☒ No☐
   If yes: A. List sample points: SP001
   B. What is the frequency for cleaning & maintenance? Quarterly
   C. Are any additives used in traps? Yes☐ No☒
   D. If yes to C, was company warned MSD will bill them for blockages they cause? Yes☐ No☐
   E. Was company informed that MSD performs separate grease trap inspections? Yes☒ No☐

5. HAS COMPANY CONSTRUCTED NEW BLDGS/ADDITIONS WITH SEWERS SINCE LAST INSPECTION? Yes☐ No☒
   If yes: A. Ask company: Did they notify MSD's Plan Review group? Unknown☐ Yes☐ No☐
   B. If no or unknown, has inspector notified Plan Review group? Yes☐ No☐
   C. Comments: _____

6. HAS COMPANY BEGUN DISCHARGING ANY NEW POLLUTANTS SINCE THE LAST INSPECTION? Yes☐ No☒

If yes: A. List pollutants & process: _____

B. Will MSD STP exceed existing NPDES discharge limit(s)? Yes☐ No☐

C. Will MSD STP's discharge exceed 0.1 mg/l for any new pollutant? Yes☐ No☐
(MSD must notify MDNR if B or C is yes and discharge will continue.)

D. Comments: _____

7. ARE THERE ANY FEDERALLY REGULATED (40 CFR 405-471) OPERATIONS? Yes☒ No☐

If yes: A. List regulation & describe (including any discharge):
40 CFR 460 Sub A (general stds only) - Hospital point source category

B. Is maximum daily categorical discharge ≤ 100 GPD? (includes batch discharges) Yes☐ No☒

If yes to B: C. Batch ☐ or Continuous ☐? Volume verified how? _____

D. Does company ever discharge untreated, concentrated categorical wastewater? Yes☐ No☐

E. Was company in SNC during any part of the previous **24** months? Yes☐ No☐

F. Date of last NSCIU Certification Statement: _____ or not currently NSCIU ☐
(If no to B, yes to D or E, or Cert. Statement not submitted as required, company is not eligible to be an NSCIU)

8. HAS COMPANY CERTIFIED TO THE ABSENCE OF SPECIFIC CATEGORICAL POLLUTANTS? Yes☐ No☒

If yes: A. Certification date: _____

B. List absent pollutants: _____

C. Were all these pollutants non-detect in all monitoring since certification was approved? Yes☐ No☐
(If compared to intake water levels, explain details below)

If no to C: D. Explain: _____

E. Comments: _____

9. DOES CATEGORICAL WASTEWATER COMBINE WITH NON-CATEGORICAL WW PRIOR TO SAMPLING? Yes☐ No☒

If yes: A. At which points? _____

B. Current applied factor: _____ Is it correct? Yes☐ No☐

C. If no, list correct factor/explain? _____

10. IS ANY WASTEWATER SUBJECT TO PRODUCTION ☐ OR MASS ☐ BASED STANDARDS? Yes☐ No☒

If yes: A. At which points? _____

B. Since calculation of the current limits, has the long term avg production rate or discharge volume changed by 20% or more? Yes☐ No☐

C. If yes to B, explain: _____

11. ARE ANY RADIOACTIVE MATERIALS HANDLED? Yes☒ No☐

If yes: A. Describe operations & disposal: Nuclear Medicine isotopes are held for decay then sewered or hauled for disposal

B. Does company have MSD authorization for disposal to sewer? NA☐ Yes☒ No☐

C. Most recent authorization date: 4/2/99

D. Amount discharged in most recent complete calendar year: 0

12. DOES COMPANY GENERATE WASTES/WASTEWATER BY GENETIC ENGINEERING RESEARCH? Yes☐ No☒

If yes: A. Does company render wastes/wastewater innocuous? Yes☐ No☐

B. If yes, describe how: _____

C. Does company have MSD authorization for disposal to sewer? NA☐ Yes☐ No☐

D. Most recent authorization date: _____

13. DOES PROCESS or P&E WASHDOWN WATER USE APPEAR EXCESSIVE? Yes☒ No☐
(IS COMPANY USING DILUTION TO MEET DISCHARGE LIMITATIONS?)

A. Explain how use was verified & any needed changes:
Water usage as explained by the site contact appears normal for the type and size of operation. Water records indicate a slight increase in usage. According to the site contact, water consumption increased during the remodel of the new outpatient facility located on the second floor of the West Pavillion. SLU anticipates water usage returning to normal once the remodel is complete. Additionally, the lawn irrigation system ran more than past years due to this summers drought. No excessive usage was observed at the time of the facility inspection.

14. BASED ON OBSERVATIONS DURING INSPECTION, DOES COMPANY APPEAR TO HAVE SOME WATER THAT IS NOT DISCHARGED TO SEWER? Yes☒ No☐

If yes: A. Describe: Evaporative loss from CT and boiler; Lawn irrigation system

B. Was "Return Factor Program" brochure given to company? Yes☒ No☐
(regardless of whether some water is not discharged to sewer)

15. HAS COMPANY BEEN GRANTED A VARIANCE FROM DISCHARGE LIMITATIONS CONTAINED IN THE SEWER USE ORDINANCE? Yes☐ No☒

If yes: A. Pollutant(s) and variance limit: _____

B. Latest approval date: _____

C. Is the approved variance more than 5 years old? Yes☐ No☐
(If yes to C, a new variance must be requested – write company)

16. HAVE ANY NUMERICAL LIMITATIONS BEEN APPLIED TO COMPANY, IN ADDITION TO THOSE ALREADY CONTAINED IN THE SEWER USE ORDINANCE? Yes☐ No☒

If yes: A. Pollutant(s) and discharge limit: _____

B. Date originally applied: _____, or as part of variance above? ☐

17. HAS COMPANY EXCEEDED ORDINANCE DISCHARGE LIMITS SINCE LAST INSPECTION OR WITHIN THE LAST 12 MONTHS (if last insp <12 months ago)? Yes☐ No☒

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Y/N	Describe
			N/A	
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

18. HAS COMPANY EXCEEDED CATEGORICAL PRETREATMENT LIMITS SINCE THE LAST INSPECTION OR WITHIN LAST 12 MONTHS (if last insp <12 months ago)? NA☒ Yes☐ No☐

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Y/N	Describe
			N/A	
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

19. HAVE THERE BEEN ANY PROBLEM DISCHARGES SINCE LAST INSPECTION? Yes☐ No☒

If yes: A. Upsets? ☐ Bypasses of pretreatment facilities? ☐
Spills? ☐ Slug discharges? ☐ Other? _____

B. Explain any marked: _____

20. COULD SPILLS OR LEAKS OF ANY PROCESS TANKS, OR STORAGE TANKS, OR STORED WASTES, OR STORED CHEMICALS EASILY REACH SANITARY SEWERS OR STORM DRAINS? Yes☐ No☒

If yes: A. What needs to be done?

_____

If no: B. How are they controlled?
Small quantity chemicals, lab reagents, etc. are stored away from drains on shelves or in flammable cabinets. Large quantity oils and liquid wastes are stored in drums/totes on containment pallets in the Energy Center. Spill kits are available to address any spills.

MSD 038253

21. BASED ON OBSERVATIONS DURING INSPECTION, ARE THERE ANY AREAS WHERE COMPANY ACTIVITIES APPEAR TO IMPAIR STORMWATER RUNOFF? Yes☐ No☒

If yes:
A. Describe: _____
B. What needs to be done? _____
C. Was "Illicit Stormwater Discharges" brochure given to company? (regardless of whether there are any problem areas) Yes☒ No☐

22. DOES COMPANY HAVE ANY WRITTEN SLUG DISCHARGE CONTROL (INCLUDES SPILLS) PLANS? Yes☒ No☐

If yes:
A.

	Title (actual title, NOT "SPCCP")	Last Update
1.	Hazardous Chemical Spill Plan	1/1/10
2.		

B. Were Plans reviewed for completeness, especially regarding batch discharges/slugs and Q.17 & 18? (must be done) Yes☒ No☐
C. Are updates needed to existing Plans? (If yes, write company & require) Yes☐ No☒
D. Are any Plans needed (in addition to those listed in Part A)? (If yes, write company & require) Yes☐ No☒
E. Explain why/why not for C or D: Spill plans are reviewed by SLU personnel annually. Spill plan appears to fulfill/cover the facility's needs.

23. DOES COMPANY HAVE ANY MAINTENANCE SHOP PARTS WASHERS? Yes☒ No☐

If yes:
A. Parts washer solvent name: Safety Kleen Premium
B. Priority pollutants (or "none"): Typically BTEX
C. How is spent solvent disposed? Hauled off-site
(These solvents are not included in database's priority pollutants list, nor monitored for unless conditions show potential discharges)

24. ARE ANY ORGANICS OR SOLVENTS USED (OTHER THAN IN PARTS WASHERS)? Yes☒ No☐

If yes:
A.

Solvent name/ components	Used for?	413/433/469 Process?	How disposed?	Priority Pollutant?
Chloroform	Lab testing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Methylene Chloride	Lab testing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Phenanthrene	Lab testing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Phenol	Sanitizing	Yes☐ No☒	Hauled off-site & evaporates	Yes☒ No☐
Alcohol, Xylene, Methanol	Lab testing	Yes☐ No☒	Hauled off-site	Yes☐ No☒
		Yes☐ No☐		Yes☐ No☐

25. DOES COMPANY HAVE A 413/433/469-REGULATORY "SOLVENT MANAGEMENT PLAN"? Yes☐ No☒
(Applies if co. has 413/433/469 processes, whether or not solvents used)

If yes:
A. Is it part of a Spill/Slug Control Plan listed above? Yes[1.☐ 2.☐] No☐
B. If no to A, date of last update for SMP: _____
C. Is there a copy of the Spill/Slug Plan or SMP in the files? Yes☐ No☐
D. Does SMP address all 413/433/469 solvents? (or verify "none" ☐) Yes☐ No☐
(If no to C or D, write company and require submittal and/or update)

26. ARE EMERGENCY NOTIFICATION PROCEDURES POSTED THAT INCLUDE MSD CONTACTS? Yes☒ No☐
A. Was company provided notification cards & told to post where emergency response personnel can locate them? Yes☒ No☐
(Must post if company generates process wastewater or stores chemicals of concern)

27. IS COMPANY REQUIRED TO SELF-MONITOR ANY OF THEIR DISCHARGES? Yes☒ No☐

If yes:
A. Is requirement contained in permit ☒ or other document ☐.
B. If other document, date & description: _____
C. How frequently is sampling required? Quarterly; TTO once per year
D. How frequently are reports required? Quarterly and Annually for SP004
E. Have reports been on-time, complete & signed by proper person? Yes☒ No☐
F. If no, explain: _____

28. DOES COMPANY SELF-MONITOR ITS WASTEWATER DISCHARGE? Yes☒ No☐

If yes:
- A. Does sample collection time period match co's production shifts? Yes☒ No☐
- B. Are representative grab/comp samples collected? Yes☒ No☐
- C. Are EPA-approved 40 CFR 136 wastewater test methods used? Yes☒ No☐
- D. Does company measure pH and/or temperature itself? Yes☐ No☒
- If yes: E. Have the company show equipment and procedure (meters, calibration stds, etc.). Is measurement performed properly? Yes☐ No☐
- F. If no to A,B,C, or E, explain needed changes: _____

29. DOES COMPANY CONTINUOUSLY MONITOR AT SAMPLE POINT AND KEEP A PERMANENT RECORD FOR: pH ☐, TEMP ☐, LEL ☐? Yes☐ No☒

If yes:
- A. At which SPs? _____
- B. Does company submit quarterly summaries? Yes☐ No☐
- C. If no, explain: _____

30. DOES MSD SPLIT SAMPLES WITH THE COMPANY? Yes☐ No☒

If yes:
- A. Is company having the samples analyzed Yes☐ No☐
- B. How does company insure proper preservation, holding times & analytical methods? _____
- C. Has company submitted results of all split sample analyses since the last insp? Yes☐ No☐
- D. Have results been submitted within 28 days of the collection's calendar quarter? Yes☐ No☐
- E. If no to C, or D, explain: _____
- F. Does company still want to split samples? Yes☐ No☐
- G. Comments: _____

31. IS COMPANY REQUIRED TO REGULARLY SUBMIT ANY REPORTS OTHER THAN SELF-MONITORING REPORTS? Yes☐ No☒

If yes:
- A. Is requirement contained in permit ☐ or other document ☐.
- B. If other document, date & description: _____
- C. What is required to be reported? _____
- D. How frequently are reports required? _____
- E. Have reports been on-time, complete & signed by proper person? Yes☐ No☐
- F. If no, explain: _____

32. IS COMPANY UNDER ANY ENVIRONMENTAL ENFORCEMENT ORDERS OR REQUIREMENTS TO SUBMIT COMPLIANCE SCHEDULE REPORTS? Yes☐ No☒

If yes:
- A. Type and date: _____
- B. Have the reports & actions been on-time & complete? Yes☐ No☐
- C. If no, explain: _____

33. ASK COMPANY: IS COMPANY IN COMPLIANCE W/APPLICABLE NESHAP REGULATIONS FOR WW DISCHARGES? Yes☒ No☐
[Some MDNR-issued Title V air permits for specific processes allow pre-approved WW discharge.]
[City/County-issued air permits are not NESHAP permits.]

If no:
- A. Describe: _____
- B. Was MDNR Air Pollution Control informed? (must be done) Yes☐ No☐

34. DOES COMPANY RETAIN ALL WASTEWATER RECORDS FOR AT LEAST 5 YEARS? Yes☒ No☐

If no:
- A. How long does company retain records? _____
- B. Was company told to retain for at least 5 years, per ordinance? Yes☐ No☐
- C. Where are they kept? In the Energy Center's office files

35. IS COMPANY CLASSIFIED AS A SIGNIFICANT INDUSTRIAL USER (SIU)? Yes☒ No☐

If yes: A. Check & explain applicable criteria:

- ☐ Process subject to categorical stds under 40 CFR 403.6. Which cat. stds? _____
- ☒ Process discharge => 25,000 GPD Total process volume: 67,676
- ☐ Process discharge => 5% of TP ADW hydraulic capacity TP ADW hydraulic capacity: _____. Percent: _____
- ☐ Process discharge => 5% of TP ADW organic capacity Which organic pollutant? _____ TP ADW organic capacity: _____. Percent: _____
- ☐ Reasonable potential for adverse effect on operations Why? _____
- ☐ Reasonable potential for violating PT std or req't Which ones & why? _____

36. DO MSD CLASSIFICATIONS NEED TO BE REVISED? Yes☐ No☒

If yes: A. Indicate correct classifications:

SIU ☐ Non-Significant CIU ☐ CIU ☐ Surcharge ☐ Non-Toxic Process Water/Wastes ☐
Toxics-Bearing Waste ☐ No Process Discharge ☐ Multi-User ☐ Special Handling/Billing ☐

B. Explain changes: _____

37. IS COMPANY CLASSIFIED AS "Multi-User"? Yes☐ No☒

If yes:
- A. Is company's discharge segregated from other tenants' discharge? Yes☐ No☐
- B. If no to A, does the company own the bldg/receive the MSD bills? Yes☐ No☐
- C. If yes to B, was company informed it is responsible for total discharge, or else must provide segregated sample points? Yes☐ No☐
- D. If no to B, are any Process/P&E Wash-type wastes discharged? Yes☐ No☐
- E. If yes to D, are the wastes completely innocuous? Yes☐ No☐
  (And explain why/why not: _____)
- F. If yes to D, and no to E, company must accept responsibility or provide segregated SP.
  Acceptance letter date: _____ Or write company with requirement ☐
- G. If no to D or yes to E, are limits "alert only" on PIMS? Yes☐ No☐
- H. Comments: _____

38. IS COMPANY CLASSIFIED AS "Special Handling/Billing"? Yes☐ No☒

If yes:
- A. Why? _____
- B. Are any changes needed to reasons/details? Yes☐ No☐
- C. If yes, explain: _____
- D. Were company records reviewed & verified for special handling/billing reports? NA☒ Yes☐ No☐

39. SAMPLE POINTS

						DJ(y/n)
SP #	001	Fed.Reg.	N/A	Components:	Sanitary + Hospital waste (includes x-ray waste) + Boiler blowdown + NCCW + Kitchen waste + Stormwater	No
SP #	002	Fed.Reg.	N/A	Components:	Sanitary + Hospital waste (includes x-ray waste) + Stormwater	No
SP #	003	Fed.Reg.	N/A	Components:	Sanitary + Hospital waste + Stormwater	No
SP #	004	Fed.Reg.	N/A	Components:	NCCW + Stormwater	Yes
SP #	005	Fed.Reg.	N/A	Components:	Sanitary + Hospital waste + Stormwater	No

40. ARE ANY SAMPLE POINTS TRAPPED VENTS? Yes☐ No☒

If yes:
- A. List SPs: _____
- B. Was co. informed that T-vents are preferred, and told why? Yes☐ No☐

41. ARE DISCHARGES AT ANY SPs SMALL/IRREGULAR ENOUGH TO ALLOW GRAB SAMPLES? Yes☒ No☐

If yes: A. List SPs and reasons: SP004 has low intermittent flow

42. ARE THERE ANY UNSAMPLED DISCHARGES? (list each lateral separately) Yes☐ No☒

Dummy SP #		Components:	
Dummy SP #		Components:	

43. DO ANY SAMPLE POINTS (including Unsampled/Dummy SPs) RECEIVE STORMWATER? Yes☒ No☐

If yes: A. List Sample Points: SP001, SP002, SP003, SP004, SP005

44. WERE ALL SAMPLE POINTS (except Dummy SPs) OPENED & INSPECTED? No SPs☐ Yes☒ No☐

A. If any SPs cannot be located or opened, explain: _____

B. If any SP descript's need to be changed, explain: _____

C. Was ANY grease or other problem/debris observed in any SP? Yes☐ No☒

D. If yes to C, list SPs & describe: _____

E. If yes to C, was company directed to take corrective actions? Yes☐ No☐

45. REVIEW THE SAMPLE POINT MAP! Last map revision date: 7/5/12

A. Is the map correct and accurate in all its details? Yes☒ No☐

B If no, what changes are needed: _____

46. DO INSTRUCTIONS FOR "Contact Prior to Sampling" or FIELD VISIT "Special Instructions" NEED REVISION? Yes☐ No☒

If yes: A. List needed changes: _____

USE THIS SPACE FOR ANY OTHER COMMENTS/OBSERVATIONS PERTINENT TO YOUR INSPECTION OF THIS SITE.

Hospital operations at 3635 Vista consist of:
1st floor - Rehabilitation, MRI, and Food services
2nd floor - Emergency Room, CT scan, Radiology, Hematology, Oncology & food services
3rd floor - Surgery
4th floor - Labs, Pathology, Blood bank, Mechanical office
5th floor - Patient care, Dialysis, Neuro, Offices
6th floor - Offices and Patient Care
7th floor - Offices and Patient Care
8th floor - Offices and Patient Care
9th floor - Offices and Patient Care
10th floor - Endoscopy, Pharmacy, Offices
11th and 12th floors - Offices
13th floor - Cardiac cath labs and Offices
14th floor - Eco Lab and Offices
15th floor - Pastoral care and Offices

3655 Vista - West Pavillion
Basement - Air handlers & Storage
Ground floor - Air handlers, Chillers, Blood Donation Lab, CT scan, MRI, Outpatient
1st floor - Out patient, Labs, Offices
2nd floor - Psychiatric, New bone marrow outpatient treatment facility, Outpatient Cancer Center
3rd floor - Offices, Labs
4th floor - Psychiatric

Radiology is primarily a digital process. However, liquid processing is still on-site and is only used on rare occasions as a back up to the digital process.

Construction/remodel of the new Bone Marrow Outpatient Treatment Center located on the 2nd floor of the West Pavillion is anticipated to be complete and operational by the end of 2012.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

INDUSTRIAL USER CLASSIFICATIONS

03/06/1997	SIU
03/06/1997	TOX

WUNNENBERG INFO.

Base Map 20F1
Wun: St. Louis City & Co.
Grid: H 21 Page 38

SIU CRITERIA

PR25 Process Disch => 25,000 GPD

GENERAL INFORMATION

Office Mailing Address
3635 Vista Ave.
St. Louis, MO. 63110-0250

Billing Address
3635 Vista Ave
St Louis, MO. 63110-0250

INSPECTION INFORMATION

Next Due
Insp Rslt
11/07/2012 RIN Mike Kynion

PERMIT INFORMATION

Issue Date: 01/01/2012
Expire Date: 12/31/2016
Extended Date:
Writer Scott Rehmer

IUQ INFORMATION

IUQ Recvd Date: 07/09/2001
Reviewer: Fabian Grabski
IUQ Recvd Date: 07/03/2006
Reviewer: Fabian Grabski
IUQ Recvd Date: 10/24/2011
Reviewer: Mike Kynion

CONTACTS

BILL	Robert Hicks	Maintenance Manager	OFF	(314) 577-8072 Ext.
FLD1	Robert Hicks	Maintenance Manager	OFF	(314) 577-8072 Ext.
	Robert Hicks	Maintenance Manager	CELL	(314) 625-0067 Ext.
FLD2	Mike Jones	Chief Engineer	CELL	(314) 835-7401 Ext.
	Mike Jones	Chief Engineer	OFF	(314) 577-8173 Ext.
FLD3	Janet Dickson	Admin Assistant	OFF	(314) 577-8070 Ext.
OFF1	Robert Hicks	Maintenance Manager	OFF	(314) 577-8072 Ext.
OFF2	Mike Jones	Chief Engineer	OFF	(314) 577-8070 Ext.
OFF3	Janet Dickson	Admin Assistant	OFF	(314) 577-8070 Ext.

OPERATIONAL INFORMATION

Work Days: 7

				S	M	T	W	T	F	S
1	1,884	07:00AM	8.0	Y	Y	Y	Y	Y	Y	Y
2	616	03:00PM	8.0	Y	Y	Y	Y	Y	Y	Y
3	615	11:00PM	8.0	Y	Y	Y	Y	Y	Y	Y

Total Emp: 3,115 **Hrs:** 24.0

OTHER AGENCIES INFORMATION

09/28/2005	MSD - Billing Account Number	00208066
09/28/2005	MSD - Billing Account Number	00447331
09/28/2005	MSD - Billing Account Number	00208067
10/24/2011	EPA - Hazardous Waste Program	MOR000023663
10/24/2011	MDNR - Hazardous Waste Program	20848

NON-SEWERED WASTE

On-Site Storage N **On-Site Disposal** N **Off-Site Disposal** Y

10/24/2011	Infectious Waste	519,896	LBS
10/24/2011	Paints or Paint Sludges	55	GPY
07/03/2006	Kitchen/Food Service Grease	3500	GAL
11/07/2012	Equipment Oils and/or Grease	110	GPY

COMMENTS

RAW MATERIALS

EFF DATE	MATERIAL_DESCRIPTION	QUANTITY	UNIT
12/07/2010	Medical Equipment		
12/07/2010	Medicines		

SIC INFORMATION

SIC	DESCRIPTION
8062	General Medical & Surgical Hospitals
8063	Psychiatric Hospitals

PRODUCTS

EFF DATE	DESCRIPTION	UNIT	AVG_PROD	MAX_PROD
05/07/2004	General hospital service			

Report No. PIMS012A 11/29/2012 1:03:21 pm
Data Date & Time: 11/29/2012 1:03:21 pm

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

SEWER ACCOUNTS

Sewer Accounts
1020548800
1020548700
1045347700

WATER CONSUMPTION AND WASTEWATER DISCHARGE

Start Date = 01/01/2011 12:00:00AM **End Date =** 12/31/2012 12:59:59PM **Wdays** **Cdays**

Acct. No.			Consumption					Discharge	
1020548800			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
1020548800	10/22/2010	01/31/2011	6,079	6,079	A	102	102	102	
1020548800	02/01/2011	05/03/2011	6,266	12,345		92	92	194	
1020548800	05/04/2011	07/22/2011	9,796	22,141		80	80	274	
1020548800	07/23/2011	10/25/2011	2,540	24,681		95	95	369	
1020548800	10/26/2011	01/20/2012	570	25,251		87	87	456	
1020548800	01/21/2012	04/20/2012	660	25,911		91	91	547	
1020548800	04/21/2012	08/03/2012	1,075	26,986		105	105	652	
RF	0.68	**Acct. Total**	26,986	20,186,931		652	652	21,054	21,054
		Facility Total	26,986						

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
01	Sanitary Or Combined	20F3	350C	Trunk Sewer	46 - Rock Springs

Description Multiple lines from W side of hospital and E side of W pavilion to loading drive

Sewer Route W on Vista in 27 pipe to 39th St, then N in trunk to treatment plant

SAMPLE POINT NO. 001 Ordinance **NPDES Outfall No.**

Description MH in driveway W of loading dock at SW corner of main hospital building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Boiler Blowdown		16,300	GPD		GPD	D	10/24/11
Non Contact Cooling Water/HVAC		11,675	GPD		GPD	D	10/24/11
Sanitary		37,900	GPD		GPD	D	10/24/11
Hospital Waste	including x-ray waste	28,676	GPD		GPD	D	10/24/11
Kitchen Waste		4,100	GPD		GPD	D	10/24/11
	Total Flow Avg =	**98,651**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
02	Sanitary Or Combined	20F3	350C	Trunk Sewer	46 - Rock Springs

Description Line S from S side of building to Vista Ave

Sewer Route W on Vista in 27 pipe to 39th St, then N in trunk to treatment plant

SAMPLE POINT NO. 002 Ordinance **NPDES Outfall No.**

Description MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Sanitary		30,150	GPD		GPD	D	10/24/11
Hospital Waste	including x-ray waste	26,700	GPD		GPD	D	10/24/11
	Total Flow Avg =	**56,850**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
03	Sanitary Or Combined	20F3	350C	Trunk Sewer	46 - Rock Springs

Description Line SE from S side of building at entrance drive to Vista Ave.

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 003 Ordinance **NPDES Outfall No.**

Description MH 54' E of SW corner of West Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Sanitary		2,700	GPD		GPD	D	10/24/11
Hospital Waste		5,750	GPD		GPD	D	10/24/11
	Total Flow Avg =	**8,450**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
04	Sanitary Or Combined	20F3	362C	Trunk Sewer	46 - Rock Springs

Description Line W from SW corner of parking garage to Spring Ave.

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **1020548800**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

SAMPLE POINT NO. 004 Ordinance **NPDES Outfall No.**

Description 6" t-vent inside W Pavilion parking garage 10' N, 18' E of SW corner

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Non Contact Cooling Water		400	GPD		GPD	D	10/24/11
	Total Flow Avg =	**400**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
05	Sanitary Or Combined	20F3	362C	Trunk Sewer	46 - Rock Springs

Description Manhole 93' S, 9' W of NW corner of W pavilion building

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 005 Ordinance **NPDES Outfall No.**

Description MH 93 ' S, 9' W of NW corner of W Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Sanitary		2,550	GPD		GPD	D	10/24/11
Hospital Waste		2,450	GPD		GPD	D	10/24/11
	Total Flow Avg =	**5,000**		**Max =**			

PRETREATMENT TYPES

SP	EFF_DATE	TYPE	DESCRIPTION
001	06/06/2000	DC28	Grease Trap
001	06/06/2000	DC32	Metallic Replacement
001	06/06/2000	DC20	Electrolysis
002	06/06/2000	DC20	Electrolysis
002	06/06/2000	DC32	Metallic Replacement

PRIORITY POLLUTANTS

Pollutant Description	Status	Pollutant Description	Status	Pollutant Description	Status
Asbestos (Fibrous)	KP	Mercury (Total)	KP	Phenol	SP
Methylene Chloride	KP	Chloroform	KP	Phenanthrene	KP
Naphthalene	SP				

EXTRA STRENGTH SURCHARGE INFORMATION

PIMS FACILITY CONTACTS

For Account Number Selected **1020548800 ST LOUIS UNIVERSITY HOSPITAL**
Located at 3635 & 3655 Vista Ave.
St. Louis MO 63110

Address Type / Contact Type	Contact Name		Contact Title	Phone Type	Number	Ext.
Billing Address						
Billing Contact	Robert	Hicks	Maintenance Manager	OFF	(314)577-8072	
Office Mailing Address						
Office Contact - Primary	Robert	Hicks	Maintenance Manager	OFF	(314)577-8072	
Office Contact 1st Alt	Mike	Jones	Chief Engineer	OFF	(314)577-8070	
Office Contact 2nd Alt	Janet	Dickson	Admin Assistant	OFF	(314)577-8070	
Premise Address						
Field Contact - Primary	Robert	Hicks	Maintenance Manager	CELL	(314)625-0067	
Field Contact - Primary	Robert	Hicks	Maintenance Manager	OFF	(314)577-8072	
Field Contact 1st Alt	Mike	Jones	Chief Engineer	CELL	(314)835-7401	
Field Contact 1st Alt	Mike	Jones	Chief Engineer	OFF	(314)577-8173	
Field Contact 2nd Alt	Janet	Dickson	Admin Assistant	OFF	(314)577-8070	

PIMS
REPORT OF FIELD SAMPLING REQUIREMENTS
ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **1020548800**

SPN	PREMISE ADDRESS	CITY	ST	ZIP
	3635 & 3655 Vista Ave.	St. Louis	MO	63110

001 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2013
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2013
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2013
	T237000	pH	Once/year	Grab	06/30/2013
	T247000	Temperature	Once/year	Grab	06/30/2013
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2013
	T257000	Total Phenols	Once/year	Grab	06/30/2013
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2013
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2013
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-chloroethyl	Once/year	Grab	06/30/2013

002 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2013
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2013
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2013
	T237000	pH	Once/year	Grab	06/30/2013
	T247000	Temperature	Once/year	Grab	06/30/2013
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2013
	T257000	Total Phenols	Once/year	Grab	06/30/2013
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2013
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2013
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-chloroethyl	Once/year	Grab	06/30/2013

003 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2013
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2013
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2013
	T237000	pH	Once/year	Grab	06/30/2013
	T247000	Temperature	Once/year	Grab	06/30/2013
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2013
	T257000	Total Phenols	Once/year	Grab	06/30/2013
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2013
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-chloroethyl	Once/year	Grab	06/30/2013

004 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Grab (Auth in lieu of composite)	06/30/2013
	T213000	Chemical Oxygen Demand	Once/year	Grab (Auth in lieu of composite)	06/30/2013
	T237000	pH	Once/year	Grab	06/30/2013
	T247000	Temperature	Once/year	Grab	06/30/2013
	T256000	Total Suspended Solids	Once/year	Grab (Auth in lieu of composite)	06/30/2013

005 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2013
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2013
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2013
	T237000	pH	Once/year	Grab	06/30/2013

PIMS
REPORT OF FIELD SAMPLING REQUIREMENTS
ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **1020548800**

SPN	PREMISE ADDRESS		CITY	ST	ZIP	
	T247000	Temperature	Once/year	Grab		06/30/2013
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs		06/30/2013
	T257000	Total Phenols	Once/year	Grab		06/30/2013
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab		06/30/2013
Volatile Organics	T996000	Volatile Orgs-not incl Acro/Acryl & 2-chloroethyl	Once/year	Grab		06/30/2013

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital** 1020-5488-00
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ■(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

[KF] I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

RECEIVED
NOV 01 2012
DIVISION OF ENVIRONMENTAL COMPLIANCE

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 10/30/12

MSD 038265

MSD SR 10-25 10-31

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

1020-5488-00

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☒(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		10/08-09/2012		10/08-09/2012		10/08-09/2012		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		10:00-10:00		09:30-09:30		10:15-10:15		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			77K		39K		4K	GPD
Biological Oxygen Demand	********	C	100	C	270	C	82	mg/l
Chemical Oxygen Demand	********	C	240	C	740	C	290	mg/l
Total Suspended Solids	********	C	44	C	81	C	38	mg/l
Total Phenol	21	G	0.077	G	<0.050	G	0.18	mg/l
Oil and Grease	200	G	22	G	14	G	11	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020			mg/l
pH	5.5-11.5	G	8.64	G	8.48	G	8.42	units
Temperature	60	G	21.3	G	23.1	G	21.7	deg C
Total Toxic Organics	5.844	G,C						mg/l

*provided per pc w/ B. Hicks, 10-25-12, SR

You must complete and sign the certification statements on the second page.

1

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☒(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨			004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨			10/08-09/2012		10/08-09/2012				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨			10:30-10:30		10:45-10:45				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)							UNITS
FLOW ⇨			600		2,500				GPD
Biological Oxygen Demand	**********	C	<6.0	C	150				mg/l
Chemical Oxygen Demand	**********	C	34	C	370				mg/l
Total Suspended Solids	**********	C	4.0	C	79				mg/l
Total Phenol	21	G		G	0.23				mg/l
Oil and Grease	200	G		G	12				mg/l
Silver (total)	0.5	C							mg/l
pH	5.5-11.5	G		G	8.66				units
Temperature	60	G		G	19.8				deg C
Total Toxic Organics	5.844	G,C							mg/l

You must complete and sign the certification statements on the second page.

1

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hicks
	Title: Plant Operations Manager Telephone: 314-577-8074
	Signature: [signature] Date: 10/30/12

2

10/30/2012 09:52 3142685563 SLUH BLDG SVCS PAGE 04/09

MSD 038268

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-1977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 10/09/12 13:48
Report Date: 10/19/12
Customer #: 277382

"Laboratory Results"

Sample No: 2101407-01
Sample Description: MSD 001 Comp

Collect Date: 10/09/12 10:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date		Analyst	Method
General Chemistry - STL						
BOD	100 mg/L		10/10/12 12:30	04KS	DWM	SM 5210B 18Ed
COD	240 mg/L		10/12/12 08:00	04KS	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	44 mg/L		10/09/12 17:00	04KS	ACV	SM 2540D 18Ed
Total Metals - STL						
Silver	< 0.0020 mg/L		10/10/12 12:30	04KS	WPS	EPA 200.7 R4.4

Sample No: 2101407-02
Sample Description: MSD 001 Grab

Collect Date: 10/09/12 10:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date		Analyst	Method
Field - STL						
pH	8.64 pH Units		10/09/12 10:00		LLO	SM*
Temperature, Field Measured	21.3 °C		10/09/12 10:00		LLO	SM*
General Chemistry - STL						
Oil & Grease - total	22 mg/L		10/10/12 09:30	04KS	mep	EPA 1664A
Phenol	0.077 mg/L		10/17/12 14:30	04KS	DWM	EPA 420.1

Sample No: 2101407-03
Sample Description: MSD 002 Comp.

Collect Date: 10/09/12 09:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date		Analyst	Method
General Chemistry - STL						
BOD	270 mg/L		10/10/12 12:30	04KS	DWM	SM 5210B 18Ed
COD	740 mg/L		10/12/12 08:00	04KS	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	81 mg/L		10/09/12 17:00	04KS	ACV	SM 2540D 18Ed
Total Metals - STL						
Silver	< 0.0020 mg/L		10/10/12 12:41	04KS	WPS	EPA 200.7 R4.4

2101407

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-[illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 10/09/12 13:48
Report Date: 10/19/12
Customer #: 277382

"Laboratory Results"

Sample No: 2101407-04
Sample Description: MSD 002 Grab

Collect Date: 10/09/12 09:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date		Analyst	Method
Field - STL						
pH	8.48 pH Units		10/09/12 09:30		LLO	SM*
Temperature, Field Measured	23.1 °C		10/09/12 09:30		LLO	SM*
General Chemistry - STL						
Oil & Grease - total	14 mg/L		10/10/12 09:30	04KS	mep	EPA 1664A
Phenol	< 0.050 mg/L		10/17/12 14:30	04KS	DWM	EPA 420.1

Sample No: 2101407-06
Sample Description: MSD 003 Comp

Collect Date: 10/09/12 10:15
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date		Analyst	Method
General Chemistry - STL						
BOD	62 mg/L		10/10/12 12:30	04KS	DWM	SM 5210B 18Ed
COD	280 mg/L		10/12/12 08:00	04KS	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	38 mg/L		10/09/12 17:00	04KS	ACV	SM 2540D 18Ed

Sample No: 2101407-08
Sample Description: MSD 003 Grab

Collect Date: 10/09/12 10:15
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date		Analyst	Method
Field - STL						
pH	8.42 pH Units		10/09/12 10:15		LLO	SM*
Temperature, Field Measured	21.7 °C		10/09/12 10:15		LLO	SM*
General Chemistry - STL						
Oil & Grease - total	11 mg/L		10/10/12 09:30	04KS	mep	EPA 1664A
Phenol	0.18 mg/L		10/17/12 14:30	04KS	DWM	EPA 420.1

2101407

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) [illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 10/09/12 13:48
Report Date: 10/19/12
Customer #: 277382

Laboratory Results

Sample No: 2101407-07
Sample Description: MSD 005 Comp

Collect Date: 10/09/12 10:46
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	150 mg/L		10/10/12 12:30 04KS	DWM	SM 5210B 18Ed
COD	370 mg/L		10/12/12 08:00 04KS	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	79 mg/L		10/09/12 17:00 04KS	ACV	SM 2540D 18Ed

Sample No: 2101407-08
Sample Description: MSD 005 Grab

Collect Date: 10/09/12 10:45
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	8.86 pH Units		10/09/12 10:45	LLO	SM*
Temperature, Field Measured	19.8 °C		10/09/12 10:45	LLO	SM*
General Chemistry - STL					
Oil & Grease - total	12 mg/L		10/10/12 08:30 04KS	mep	EPA 1664A
Phenol	0.23 mg/L		10/17/12 14:30 04KS	DWM	EPA 420.1

Sample No: 2101407-09
Sample Description: MSD 004 Comp

Collect Date: 10/09/12 10:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	<8.0 mg/L		10/10/12 12:30 04KS	DWM	SM 5210B 18Ed
COD	34 mg/L		10/12/12 08:00 04KS	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	4.0 mg/L		10/09/12 17:00 04KS	ACV	SM 2540D 18Ed

2101407

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4377

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Mike Jones

Date Received: 10/09/12 13:48
Report Date: 10/19/12
Customer #: 277382

"Laboratory Results"

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

PIA PDC Laboratories - Peoria, Il
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification: Iowa (240)
SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

Barbara G. Pandolfo

Certified by: Barb Pandolfo, Project Manager

2101407

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmatrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-3072	FAX NUMBER	EMAIL ADDRESS		LOGIN # 210408
		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID		LOGGED BY: HE
				LAB PROJ #:
				TEMPLATE:
				PROJ. MGR:

SAMPLE DESCRIPTION AS SHOWN ON SAMPLE	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	10/8-9/12	10:00-10:00		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.64
				X	WW	HNO3			X					Temp = ~~23~~ 21.3°C
	10/9/12	10:00	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
MSD 002	10/8-9/12	9:30-9:30		X	WW	H2SO4,4C	X							pH = 8.48
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 23.1°C
				X	WW	HNO3			X					
	10/9/12	9:30	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fast Rush (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	10/9/12	12:20	Heather Carlson	10/9/12	12:20
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	5.8	degrees C
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN #
		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID		LOGGED BY: LAB PROJ # TEMPLATE: PROJ. MGR:

SAMPLE DESCRIPTION AS IT IS NAME ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	10/8-9/12	10:15-10:15		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.42
	10/9/12	10:15	x		WW	H2SO4, 4C				x				Temp = 21.7°C
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 005	10/8-9/12	10:45-10:45		x	WW	H2SO4,4C	X							pH = 8.66
(Quarterly)	↓	↓		x	WW	Cool 4C		x						Temp = 19.9°C
	10/9/12	10:45	x		WW	H2SO4, 4C				x				
	↓		x		WW	H2SO4, 4C					x			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrek (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	10/9/12	12:20	Heather Eckhart	10/9/12	12:20
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt _____ degrees C
ChR process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN # ____ LOGGED BY: ____ LAB PROJ # TEMPLATE: PROJ. MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

SAMPLE DESCRIPTION (IF FOR CLIENT'S REPORT)	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS						REMARKS
MSD 004	10/8-9/12	10:30-10:30		x	WW	H2SO4,4C	X							
(Annual)	↓	↓		x	WW	Cool 4C		x						pH = 8.06
														Temp = 18.7°C
														Field Charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due ____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. ____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	10/9/12	12:20	Heather Gaibert	10/9/12	12:20
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt: ____ degrees C
Chill process started prior to receipt Y or N
Sample(s) received on ice. Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle ____

MSD SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital** 1020548800
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ■(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

☑ I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 7/24/12

RECEIVED
JUL 30 2012
DIVISION OF ENVIRONMENTAL COMPLIANCE

SR

MSD 8-24

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

1020-5488-00

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED		07/16-17/2012		07/16-17/2012		07/16-17/2012		
TIMES AT WHICH SAMPLES WERE COLLECTED		11:00-11:00		10:30-10:30		11:15-11:15		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			77K		39K		4K	GPD
Biological Oxygen Demand	*********	C	71	C	210	C	36	mg/l
Chemical Oxygen Demand	*********	C	320	C	400	C	110	mg/l
Total Suspended Solids	*********	C	61	C	49	C	23	mg/l
Total Phenol	21	G	0.054	G	<0.050	G	<0.050	mg/l
Oil and Grease	200	G	5.6	G	44	G	<5.0	mg/l
Silver (total)	0.5	C	0.0020	C	<0.0020	C		mg/l
pH	5.5-11.5	G	7.76	G	7.32	G	7.74	units
Temperature	60	G	30.7	G	29.6	G	27.4	deg C
Total Toxic Organics	5.844	G,C	0.125	G,C	0.052	G,C	0.044	mg/l

*provided per pc w/ B.Hicks, 8-10-12. SR

BOD required 1x/4R at 004 since new permit 1-1-12, relayed per pc. SR

You must complete and sign the certification statements on the second page.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

1020548800

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED		07/16-17/2012		07/16-17/2012				
TIMES AT WHICH SAMPLES WERE COLLECTED		11:30-11:30		11:45-11:45				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			600		2500			GPD
Biological Oxygen Demand →	********	C		C	100			mg/l
Chemical Oxygen Demand	********	C	47	C	310			mg/l
Total Suspended Solids	********	C	25	C	110			mg/l
Total Phenol	21	G		G	0.20			mg/l
Oil and Grease	200	G		G	<5.0			mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G	7.18	G	8.50			units
Temperature	60	G	27.0	G	24.3			deg C
Total Toxic Organics	5.844	G,C	0.025	G,C	0.060			mg/l
			1/YR					

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points: 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hick
	Title: Plant Operations Manager Telephone: 314-577-8076
	Signature: Robert Hick Date: 7-28-12

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[illegible]	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED
	PHONE NUMBER: 314-577-8072	FAX NUMBER	EMAIL ADDRESS	

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOUD

(FOR LAB USE ONLY)
LOGIN # 2072223
LOGGED BY: HE
LAB PROJ #
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles	Phenol (2 bottle)	REMARKS
MSD 001	7/16-17/12	11:00-11:00		x	WW	H2SO4,4C	X							
(Annual)	↓	↓		x	WW	Cool 4C		x						pH = 7.76
				x	WW	HNO3			x					Temp = 30.7°C
	↓	↓		x	WW	Cool 4C					x			
	7/17/12	11:00	x		WW	H2SO4, 4C				x			x	
	↓	↓	x		WW	HCl, 4C						x		
MSD 003	7/16-17/12	11:15-11:15		x	WW	H2SO4,4C	X							pH = 7.74
(Annual)	↓	↓		x	WW	Cool 4C		x						Temp = 27.4°C
	↓	↓		x	WW	Cool 4C					x			
	7/17/12	11:15	x		WW	H2SO4, 4C				x			x	Field Charge
	↓	↓	x		WW	HCl, 4C						x		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (6 Bus Days) ☐ Fastrak (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/17/12	16:05	Heather Carlisle	7/17/12	16:05
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt 8.6 degrees C
Chill process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

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CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER: 314-577-8072	FAX NUMBER	EMAIL ADDRESS		LOGIN # LOGGED BY: LAB PROJ # TEMPLATE: PROJ. MGR.

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

SAMPLE DESCRIPTION AS YOU WOULD LIKE IT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles	Phenol (2 bottle)	REMARKS
MSD 002	7/16-17/12	10:30-10:35		X	WW	H2SO4,4C	X							
(Annual)	↓	↓		X	WW	Cool 4C		X						pH = 7.32
				X	WW	HNO3			X					Temp = 29.6°C
				X	WW	Cool 4C					X			
	7/17/12	10:30	X		WW	H2SO4, 4C				X			X	
	↓	↓	X		WW	HCl, 4C						X		
MSD 005	7/16-17/12	11:45-11:45		X	WW	H2SO4,4C	X							pH = 8.50
(Annual)	↓	↓		X	WW	Cool 4C		X						Temp = 24.7°C
				X	WW	Cool 4C					X			
	7/17/12	11:45	X		WW	H2SO4, 4C				X			X	Field Change
	↓	↓	X		WW	HCl, 4C						X		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fast Rush (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/17/12	16:25	Heather Gaulart	7/17/12	16:05
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample temperature upon receipt _____ degrees C
Chill process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

PDC Laboratories, Inc. – St. Louis
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Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[illegible]	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED
[illegible]	PHONE NUMBER 314-577-8072	FAX NUMBER	EMAIL ADDRESS
[illegible]	[illegible]		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID

ANALYSIS REQUESTED

(FOR LAB USE ONLY)
LOG#:
LOGGED BY:
LAB PROJ #:
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS SHOWN ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	TSS	Semivolatiles	Volatiles				REMARKS
MSD 004	7/16-7/12	11:30-11:30		X	WW	H2SO4, 4C	X							
(Annual)	↓	↓		X	WW	Cool 4C		X						pH = 7.18
				X	WW	Cool 4C			X					Temp = 27.0°C
	7/17/12	11:30	X		WW	HCl, 4C				X				
														Field Charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fast Rush (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/17/12	10:05	[signature]	7/17/12	10:05
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	_____	degrees C
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 335-FAST (3278) - FAX [illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-01
Sample Description: MSD 001 Comp

Collect Date: 07/17/12 11:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	71 mg/L		07/18/12 09:30 04KS	JDG	SM 5210B 18Ed
COD	320 mg/L		07/20/12 12:00 04KS	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	61 mg/L		07/18/12 17:00 04KS	ACV	SM 2540D 18Ed
Semivolatile Organics - STL					
1,2,4-Trichlorobenzene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
1,2-Dichlorobenzene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
1,3-Dichlorobenzene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
1,4-Dichlorobenzene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
2,4,5-Trichlorophenol	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
2,4,6-Trichlorophenol	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
2,4-Dichlorophenol	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
2,4-Dimethylphenol	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
2,4-Dinitrophenol	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
2,4-Dinitrotoluene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
2,6-Dimethylaniline	< 5.0 ug/L		07/26/12 11:21 04KS	jk	EPA 625
2,6-Dinitrotoluene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
2-Chloronaphthalene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
2-Chlorophenol	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
2-Nitrophenol	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
3,3'-Dichlorobenzidine	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
4,6-Dinitro-2-methylphenol	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
4-Bromophenylphenyl ether	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
4-Chloro-3-methylphenol	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
4-Chlorophenylphenyl ether	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
4-Nitrophenol	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Acenaphthene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Acenaphthylene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Anthracene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Azobenzene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Benzidine	100 ug/L	Q1	07/26/12 11:21 04KS	jk	EPA 625
Benzo(a)anthracene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Benzo(a)pyrene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Benzo(b&k)fluoranthene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Benzo(b)fluoranthene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Benzo(g,h,i)perylene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Benzo(k)fluoranthene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625

2072223

PDC Laboratories, Inc.
3276 N. Highway 67 • [illegible]
(314) 132-0550 • [illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-01
Sample Description: MSD 001 Comp

Collect Date: 07/17/12 11:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Bis(2-chloroethoxy) methane	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Bis(2-chloroethyl) ether	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Bis(2-chloroisopropyl) ether	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Bis(2-ethylhexyl) phthalate	10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Butyl benzyl phthalate	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Chrysene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Dibenzo(a,h)anthracene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Diethyl phthalate	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Dimethyl phthalate	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Di-n-butyl phthalate	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Di-n-octyl phthalate	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Diphenylamine	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Fluoranthene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Fluorene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Hexachlorobenzene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Hexachlorobutadiene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Hexachlorocyclopentadiene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Hexachloroethane	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Indeno(1,2,3-cd)pyrene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Isophorone	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Naphthalene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Nitrobenzene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
N-Nitrosodimethylamine	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
N-Nitrosodi-n-propylamine	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Pentachlorophenol	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Phenanthrene	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Phenol	< 10 ug/L		07/26/12 11:21 04KS	jk	EPA 625
Pyrene	< 10 ug/l		07/26/12 11:21 04KS	jk	EPA 625
Surrogate: 2-Fluorophenol	*18 %*	*10-44.6*	*07/26/12 11:21*	*jk*	*EPA 625*
Surrogate: Phenol- d5	*12 %*	*10-33.3*	*07/26/12 11:21*	*jk*	*EPA 625*
Surrogate: Nitrobenzene-d5	*62 %*	*28.6-112*	*07/26/12 11:21*	*jk*	*EPA 625*
Surrogate: 2-Fluorobiphenyl	*64 %*	*22.6-107*	*07/26/12 11:21*	*jk*	*EPA 625*
Surrogate: 2,4,6-Tribromophenol	*35 %*	*10-95.1*	*07/26/12 11:21*	*jk*	*EPA 625*
Surrogate: p-Terphenyl-d14	*73 %*	*28-115*	*07/26/12 11:21*	*jk*	*EPA 625*
Total Metals - STL					
Silver	0.0020 mg/L		07/19/12 09:50 04KS	WPS	EPA 200.7 R4.4

2072223

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3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) [illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-02
Sample Description: MSD 001 Grab

Collect Date: 07/17/12 11:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date		Analyst	Method
Field - STL						
pH	7.70 pH Units		07/17/12 11:00		LLO	SM*
Temperature, Field Measured	30.7 °C		07/17/12 11:00		LLO	SM*
General Chemistry - STL						
Oil & Grease - total	5.6 mg/L		07/19/12 08:00	04KS	mep	EPA 1664A
Phenol	0.054 mg/L		07/23/12 08:00	04KS	DWM	EPA 420.1
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
1,1,2-Trichloroethane	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
1,1-Dichloroethane	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
1,1-Dichloroethene	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
1,2-Dichlorobenzene	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
1,2-Dichloroethane	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
1,2-Dichloropropane	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
1,3-Dichlorobenzene	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
1,4-Dichlorobenzene	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
2-Chloroethylvinyl ether	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Acrolein	< 25 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Acrylonitrile	< 10 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Benzene	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Bromodichloromethane	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Bromoform	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Bromomethane	< 10 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Carbon tetrachloride	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Chlorobenzene	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Chloroethane	< 10 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Chloroform	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Chloromethane	< 10 ug/L		07/23/12 16:52	04KS	BP	EPA 624
cis-1,3-Dichloropropene	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Dibromochloromethane	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
Ethylbenzene	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
m,p-Xylene	< 10 ug/L		07/23/12 16:52		BP	EPA 624*
Methylene chloride	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624
o-Xylene	< 5.0 ug/L		07/23/12 16:52		BP	EPA 624*
Tetrachloroethene	< 5.0 ug/L		07/23/12 16:52	04KS	BP	EPA 624

2072223

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 352-0550 - (800) 334-9785 (MO/IL) - Fax: [illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

Laboratory Results

Sample No: 2072223-02
Sample Description: MSD 001 Grab

Collect Date: 07/17/12 11:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Volatile Organics - STL					
Toluene	< 5.0 ug/L		07/23/12 16:52 04KS	BP	EPA 624
trans-1,2-Dichloroethene	< 5.0 ug/L		07/23/12 16:52 04KS	BP	EPA 624
trans-1,3-Dichloropropene	< 5.0 ug/L		07/23/12 16:52 04KS	BP	EPA 624
Trichloroethene	< 5.0 ug/L		07/23/12 16:52 04KS	BP	EPA 624
Trichlorofluoromethane	< 5.0 ug/L		07/23/12 16:52 04KS	BP	EPA 624
Vinyl chloride	< 5.0 ug/L		07/23/12 16:52 04KS	BP	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*94 % 59.1-125*		*07/23/12 16:52*	*BP*	*EPA 624*
Surrogate: Toluene-d8	*97 % 65.8-118*		*07/23/12 16:52*	*BP*	*EPA 624*
Surrogate: Bromofluorobenzene	*103 % 64.1-123*		*07/23/12 16:52*	*BP*	*EPA 624*
1,2-Dichloroethene- Total	< 10 ug/L		07/23/12 16:52	BP	EPA 624*
1,3-Dichloropropene - Total	< 10 ug/L		07/23/12 16:52	BP	EPA 624*

Sample No: 2072223-03
Sample Description: MSD 003 Comp.

Collect Date: 07/17/12 11:15
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	36 mg/L		07/18/12 09:30 04KS	JDG	SM 5210B 18Ed
COD	110 mg/L		07/20/12 12:00 04KS	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	23 mg/L		07/18/12 17:00 04KS	ACV	SM 2540D 18Ed
Semivolatile Organics - STL					
1,2,4-Trichlorobenzene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
1,2-Dichlorobenzene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
1,3-Dichlorobenzene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
1,4-Dichlorobenzene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
2,4,5-Trichlorophenol	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
2,4,6-Trichlorophenol	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
2,4-Dichlorophenol	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
2,4-Dimethylphenol	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
2,4-Dinitrophenol	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
2,4-Dinitrotoluene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
2,6-Dimethylaniline	< 5.0 ug/L		07/26/12 12:57 04KS	jk	EPA 625
2,6-Dinitrotoluene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
2-Chloronaphthalene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625

2072223

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 343-FAST (3278) - FAX (314) [illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-03
Sample Description: MSD 003 Comp.

Collect Date: 07/17/12 11:15
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
2-Chlorophenol	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
2-Nitrophenol	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
3,3'-Dichlorobenzidine	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
4,6-Dinitro-2-methylphenol	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
4-Bromophenylphenyl ether	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
4-Chloro-3-methylphenol	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
4-Chlorophenylphenyl ether	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
4-Nitrophenol	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Acenaphthene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Acenaphthylene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Anthracene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Azobenzene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Benzidine	19 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Benzo(a)anthracene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Benzo(a)pyrene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Benzo(b&k)fluoranthene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Benzo(b)fluoranthene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Benzo(g,h,i)perylene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Benzo(k)fluoranthene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Bis(2-chloroethoxy) methane	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Bis(2-chloroethyl) ether	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Bis(2-chloroisopropyl) ether	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Bis(2-ethylhexyl) phthalate	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Butyl benzyl phthalate	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Chrysene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Dibenzo(a,h)anthracene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Diethyl phthalate	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Dimethyl phthalate	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Di-n-butyl phthalate	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Di-n-octyl phthalate	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Diphenylamine	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Fluoranthene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Fluorene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Hexachlorobenzene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Hexachlorobutadiene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Hexachlorocyclopentadiene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625

2072223

PDC Laboratories, Inc.
3278 N. Highway 67 · Florissant, Missouri
(314) 432-0550 · (800) 333-[illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-03
Sample Description: MSD 003 Comp.

Collect Date: 07/17/12 11:15
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Hexachloroethane	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Indeno(1,2,3-cd)pyrene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Isophorone	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Naphthalene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Nitrobenzene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
N-Nitrosodimethylamine	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
N-Nitrosodi-n-propylamine	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Pentachlorophenol	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Phenanthrene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Phenol	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Pyrene	< 10 ug/L		07/26/12 12:57 04KS	jk	EPA 625
Surrogate: 2-Fluorophenol	*15 % 10-44.6*		*07/26/12 12:57*	*jk*	*EPA 625*
Surrogate: Phenol- d5	*11 % 10-33.3*		*07/26/12 12:57*	*jk*	*EPA 625*
Surrogate: Nitrobenzene-d5	*59 % 28.6-112*		*07/26/12 12:57*	*jk*	*EPA 625*
Surrogate: 2-Fluorobiphenyl	*67 % 22.8-107*		*07/26/12 12:57*	*jk*	*EPA 625*
Surrogate: 2,4,6-Tribromophenol	*36 % 10-95.1*		*07/26/12 12:57*	*jk*	*EPA 625*
Surrogate: p Terphenyl d14	*82 % 28-115*		*07/26/12 12:57*	*jk*	*EPA 625*

Sample No: 2072223-04
Sample Description: MSD 003 grab

Collect Date: 07/17/12 11:15
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	7.74 pH Units		07/17/12 11:15	LLO	SM*
Temperature, Field Measured	27.4 °C		07/17/12 11:15	LLO	SM*
General Chemistry - STL					
Oil & Grease - total	< 5.0 mg/L		07/19/12 08:00 04KS	mep	EPA 1664A
Phenol	< 0.050 mg/L		07/23/12 08:00 04KS	DWM	EPA 420.1
Volatile Organics - STL					
1,1,1-Trichloroethane	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
1,1,2-Trichloroethane	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
1,1-Dichloroethane	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624

2072223

PDC Laboratories, Inc.
3275 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 325-PASTEUR (727-83) - FAX (314) [illegible]

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-04
Sample Description: MSD 003 grab

Collect Date: 07/17/12 11:15
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Volatile Organics - STL					
1,1-Dichloroethene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
1,2-Dichlorobenzene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
1,2-Dichloroethane	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
1,2-Dichloropropane	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
1,3-Dichlorobenzene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
1,4-Dichlorobenzene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
2-Chloroethylvinyl ether	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Acrolein	< 25 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Acrylonitrile	< 10 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Benzene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Bromodichloromethane	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Bromoform	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Bromomethane	< 10 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Carbon tetrachloride	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Chlorobenzene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Chloroethane	< 10 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Chloroform	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Chloromethane	< 10 ug/L		07/23/12 17:21 04KS	BP	EPA 624
cis-1,3-Dichloropropene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Dibromochloromethane	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Ethylbenzene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
m,p-Xylene	< 10 ug/L		07/23/12 17:21	BP	EPA 624*
Methylene chloride	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
o-Xylene	< 5.0 ug/L		07/23/12 17:21	BP	EPA 624*
Tetrachloroethene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Toluene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
trans-1,2-Dichloroethene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
trans-1,3-Dichloropropene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Trichloroethene	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Trichlorofluoromethane	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Vinyl chloride	< 5.0 ug/L		07/23/12 17:21 04KS	BP	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*99 % 59.1-125*		*07/23/12 17:21*	*BP*	*EPA 624*
Surrogate: Toluene-d8	*97 % 65.8-116*		*07/23/12 17:21*	*BP*	*EPA 624*
Surrogate: Bromofluorobenzene	*108 % 64.1-123*		*07/23/12 17:21*	*BP*	*EPA 624*
1,2-Dichloroethene- Total	< 10 ug/L		07/23/12 17:21	BP	EPA 624*
1,3-Dichloropropane - Total	< 10 ug/L		07/23/12 17:21	BP	EPA 624*

2072223

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) ...

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-10
Sample Description: MSD 004 Grab

Collect Date: 07/17/12 11:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	7.18 pH Units		07/17/12 11:30	LLO	SM*
Temperature, Field Measured	27.0 °C		07/17/12 11:30	LLO	SM*
Volatile Organics - STL					
1,1,1-Trichloroethane	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
1,1,2-Trichloroethane	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
1,1-Dichloroethane	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
1,1-Dichloroethene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
1,2-Dichlorobenzene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
1,2-Dichloroethane	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
1,2-Dichloropropane	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
1,3-Dichlorobenzene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
1,4-Dichlorobenzene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
2-Chloroethylvinyl ether	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Acrolein	< 25 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Acrylonitrile	< 10 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Benzene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Bromodichloromethane	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Bromoform	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Bromomethane	< 10 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Carbon tetrachloride	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Chlorobenzene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Chloroethane	< 10 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Chloroform	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Chloromethane	< 10 ug/L		07/23/12 18:48 04KS	BP	EPA 624
cis-1,3-Dichloropropene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Dibromochloromethane	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Ethylbenzene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
m,p-Xylene	< 10 ug/L		07/23/12 18:48	BP	EPA 624*
Methylene chloride	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
o-Xylene	< 5.0 ug/L		07/23/12 18:48	BP	EPA 624*
Tetrachloroethene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Toluene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
trans-1,2-Dichloroethene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
trans-1,3-Dichloropropene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Trichloroethene	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624

2072223

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-PASY (3278) - FAX (314) 43[illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-10
Sample Description: MSD 004 Grab

Collect Date: 07/17/12 11:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Volatile Organics - STL					
Trichlorofluoromethane	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Vinyl chloride	< 5.0 ug/L		07/23/12 18:48 04KS	BP	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*95 % 69.1-126*		*07/23/12 18:48*	*BP*	*EPA 624*
Surrogate: Toluene-d8	*95 % 85.8-116*		*07/23/12 18:48*	*BP*	*EPA 624*
Surrogate: Bromofluorobenzene	*102 % 84.1-123*		*07/23/12 18:48*	*BP*	*EPA 624*
1,2-Dichloroethene- Total	< 10 ug/L		07/23/12 18:48	BP	EPA 624*
1,3-Dichloropropene - Total	< 10 ug/L		07/23/12 18:48	BP	EPA 624*

2072223

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 332-0550 - (800) 334-FAST (3278) - FAX 331-0115

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-05
Sample Description; MSD 002 Comp.

Collect Date: 07/17/12 10:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date		Analyst	Method
General Chemistry - STL						
BOD	210 mg/L		07/18/12 09:30	04KS	JDG	SM 5210B 18Ed
COD	400 mg/L		07/20/12 12:00	04KS	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	49 mg/L		07/18/12 17:00	04KS	ACV	SM 2540D 18Ed
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
1,2-Dichlorobenzene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
1,3-Dichlorobenzene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
1,4-Dichlorobenzene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
2,4,5-Trichlorophenol	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
2,4,6-Trichlorophenol	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
2,4-Dichlorophenol	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
2,4-Dimethylphenol	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
2,4-Dinitrophenol	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
2,4-Dinitrotoluene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
2,6-Dimethylaniline	< 5.0 ug/L		07/26/12 13:45	04KS	jk	EPA 625
2,6-Dinitrotoluene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
2-Chloronaphthalene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
2-Chlorophenol	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
2-Nitrophenol	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
3,3'-Dichlorobenzidine	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
4,6-Dinitro-2-methylphenol	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
4-Bromophenylphenyl ether	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
4-Chloro-3-methylphenol	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
4-Chlorophenylphenyl ether	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
4-Nitrophenol	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
Acenaphthene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
Acenaphthylene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
Anthracene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
Azobenzene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
Benzidine	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
Benzo(a)anthracene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
Benzo(a)pyrene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
Benzo(b&k)fluoranthene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
Benzo(b)fluoranthene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
Benzo(g,h,i)perylene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625
Benzo(k)fluoranthene	< 10 ug/L		07/26/12 13:45	04KS	jk	EPA 625

2072223

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 335-FAST (3278) - FAX (314) [illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-05
Sample Description: MSD 002 Comp.

Collect Date: 07/17/12 10:30
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Bis(2-chloroethoxy) methane	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Bis(2-chloroethyl) ether	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Bis(2-chloroisopropyl) ether	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Bis(2-ethylhexyl) phthalate	27 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Butyl benzyl phthalate	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Chrysene	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Dibenzo(a,h)anthracene	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Diethyl phthalate	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Dimethyl phthalate	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Di-n-butyl phthalate	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Di-n-octyl phthalate	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Diphenylamine	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Fluoranthene	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Fluorene	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Hexachlorobenzene	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Hexachlorobutadiene	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Hexachlorocyclopentadiene	< 10 ug/l		07/26/12 13:45 04KS	jk	EPA 625
Hexachloroethane	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Indeno(1,2,3-cd)pyrene	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Isophorone	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Naphthalene	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Nitrobenzene	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
N-Nitrosodimethylamine	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
N-Nitrosodi-n-propylamine	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Pentachlorophenol	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Phenanthrene	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Phenol	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Pyrene	< 10 ug/L		07/26/12 13:45 04KS	jk	EPA 625
Surrogate: 2-Fluorophenol	*11 % 10-44.6*		*07/26/12 13:45*	*jk*	*EPA 625*
Surrogate: Phenol- d5	*10 % 10-33.3*		*07/26/12 13:45*	*jk*	*EPA 625*
Surrogate: Nitrobenzene-d5	*56 % 28.6-112*		*07/26/12 13:45*	*jk*	*EPA 625*
Surrogate: 2-Fluorobiphenyl	*68 % 22.8-107*		*07/26/12 13:45*	*jk*	*EPA 625*
Surrogate: 2,4,6-Tribromophenol	*34 % 10-95.1*		*07/26/12 13:45*	*jk*	*EPA 625*
Surrogate: p-Terphenyl-d14	*54 % 28-115*		*07/26/12 13:45*	*jk*	*EPA 625*
Total Metals - STL					
Silver	< 0.0020 mg/L		07/19/12 09:54 04KS	WPS	EPA 200.7 R4.4

2072223

PDC Laboratories, Inc.
3278 N. Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST (3278) • FAX (314) [illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-06
Sample Description: MSD 002 grab

Collect Date: 07/17/12 10:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date		Analyst	Method
Field - STL						
pH	7.32 pH Units		07/17/12 10:30		LLO	SM*
Temperature, Field Measured	29.6 °C		07/17/12 10:30		LLO	SM*
General Chemistry - STL						
Oil & Grease - total	44 mg/L		07/19/12 08:00	04KS	mcp	EPA 1664A
Phenol	< 0.050 mg/L		07/23/12 08:00	04KS	DWM	EPA 420.1
Volatile Organics - STL						
1,1,1-Trichloroethane	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0 ug/l		07/23/12 17:50	04KS	BP	EPA 624
1,1,2-Trichloroethane	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
1,1-Dichloroethane	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
1,1-Dichloroethene	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
1,2-Dichlorobenzene	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
1,2-Dichloroethane	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
1,2-Dichloropropane	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
1,3-Dichlorobenzene	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
1,4-Dichlorobenzene	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
2-Chloroethylvinyl ether	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Acrolein	< 25 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Acrylonitrile	< 10 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Benzene	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Bromodichloromethane	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Bromoform	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Bromomethane	< 10 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Carbon tetrachloride	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Chlorobenzene	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Chloroethane	< 10 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Chloroform	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Chloromethane	< 10 ug/L		07/23/12 17:50	04KS	BP	EPA 624
cis-1,3-Dichloropropene	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Dibromochloromethane	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
Ethylbenzene	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
m,p-Xylene	< 10 ug/L		07/23/12 17:50		BP	EPA 624*
Methylene chloride	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624
o-Xylene	< 5.0 ug/L		07/23/12 17:50		BP	EPA 624*
Tetrachloroethene	< 5.0 ug/L		07/23/12 17:50	04KS	BP	EPA 624

2072223

PDC Laboratories, Inc.
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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-06
Sample Description: MSD 002 grab

Collect Date: 07/17/12 10:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Volatile Organics - STL					
Toluene	< 5.0 ug/L		07/23/12 17:50 04KS	BP	EPA 624
trans-1,2-Dichloroethene	< 5.0 ug/L		07/23/12 17:50 04KS	BP	EPA 624
trans-1,3-Dichloropropene	< 5.0 ug/L		07/23/12 17:50 04KS	BP	EPA 624
Trichloroethene	< 5.0 ug/L		07/23/12 17:50 04KS	BP	EPA 624
Trichlorofluoromethane	< 5.0 ug/L		07/23/12 17:50 04KS	BP	EPA 624
Vinyl chloride	< 5.0 ug/L		07/23/12 17:50 04KS	BP	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*98 % 59.1-125*		*07/23/12 17:50*	*BP*	*EPA 624*
Surrogate: Toluene-d8	*98 % 85.6-116*		*07/23/12 17:50*	*BP*	*EPA 624*
Surrogate: Bromofluorobenzene	*104 % 64.1-123*		*07/23/12 17:50*	*BP*	*EPA 624*
1,2-Dichloroethene- Total	< 10 ug/L		07/23/12 17:50	BP	EPA 624*
1,3-Dichloropropene - Total	< 10 ug/L		07/23/12 17:50	BP	EPA 624*

Sample No: 2072223-07
Sample Description: MSD 005 Comp.

Collect Date: 07/17/12 11:45
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	100 mg/L		07/18/12 09:30 04KS	JDG	SM 5210B 18Ed
COD	310 mg/L		07/20/12 12:00 04KS	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	110 mg/L		07/18/12 17:00 04KS	ACV	SM 2540D 18Ed
Semivolatile Organics - STL					
1,2,4-Trichlorobenzene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
1,2-Dichlorobenzene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
1,3-Dichlorobenzene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
1,4-Dichlorobenzene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
2,4,5-Trichlorophenol	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
2,4,6-Trichlorophenol	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
2,4-Dichlorophenol	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
2,4-Dimethylphenol	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
2,4-Dinitrophenol	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
2,4-Dinitrotoluene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
2,6-Dimethylaniline	< 5.0 ug/L		07/26/12 14:34 04KS	jk	EPA 625
2,6-Dinitrotoluene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
2-Chloronaphthalene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625

2072223

PDC Laboratories, Inc.
3278 N. Highway 67 • Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) [illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-07
Sample Description: MSD 005 Comp.

Collect Date: 07/17/12 11:45
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
2-Chlorophenol	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
2-Nitrophenol	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
3,3'-Dichlorobenzidine	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
4,6-Dinitro-2-methylphenol	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
4-Bromophenylphenyl ether	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
4-Chloro-3-methylphenol	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
4-Chlorophenylphenyl ether	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
4-Nitrophenol	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Acenaphthene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Acenaphthylene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Anthracene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Azobenzene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Benzidine	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Benzo(a)anthracene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Benzo(a)pyrene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Benzo(b&k)fluoranthene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Benzo(b)fluoranthene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Benzo(g,h,i)perylene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Benzo(k)fluoranthene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Bis(2-chloroethoxy) methane	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Bis(2-chloroethyl) ether	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Bis(2-chloroisopropyl) ether	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Bis(2-ethylhexyl) phthalate	14 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Butyl benzyl phthalate	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Chrysene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Dibenzo(a,h)anthracene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Diethyl phthalate	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Dimethyl phthalate	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Di-n-butyl phthalate	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Di-n-octyl phthalate	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Diphenylamine	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Fluoranthene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Fluorene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Hexachlorobenzene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Hexachlorobutadiene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Hexachlorocyclopentadiene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625

2072223

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST [illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-07
Sample Description: MSD 005 Comp.

Collect Date: 07/17/12 11:45
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Hexachloroethane	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Indeno(1,2,3-cd)pyrene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Isophorone	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Naphthalene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Nitrobenzene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
N-Nitrosodimethylamine	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
N-Nitrosodi-n-propylamine	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Pentachlorophenol	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Phenanthrene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Phenol	21 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Pyrene	< 10 ug/L		07/26/12 14:34 04KS	jk	EPA 625
Surrogate: 2-Fluorophenol	*11 % 10-44.6*		*07/26/12 14:34*	*jk*	*EPA 625*
Surrogate: Phenol- d5	*10 % 10-33.3*		*07/26/12 14:34*	*jk*	*EPA 625*
Surrogate: Nitrobenzene-d5	*51 % 28.6-112*		*07/26/12 14:34*	*jk*	*EPA 625*
Surrogate: 2-Fluorobiphenyl	*57 % 22.8-107*		*07/26/12 14:34*	*jk*	*EPA 625*
Surrogate: 2,4,6-Tribromophenol	*24 % 10-95.1*		*07/26/12 14:34*	*jk*	*EPA 625*
Surrogate: p-Terphenyl-d14	*70 % 28-115*		*07/26/12 14:34*	*jk*	*EPA 625*

Sample No: 2072223-08
Sample Description: MSD 005 grab

Collect Date: 07/17/12 11:45
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	8.50 pH Units		07/17/12 11:45	LLO	SM*
Temperature, Field Measured	24.3 °C		07/17/12 11:45	LLO	SM*
General Chemistry - STL					
Oil & Grease - total	< 5.0 mg/L		07/19/12 08:00 04KS	mcp	EPA 1664A
Phenol	0.20 mg/L		07/23/12 08:00 04KS	DWM	EPA 420.1
Volatile Organics - STL					
1,1,1-Trichloroethane	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
1,1,2-Trichloroethane	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
1,1-Dichloroethane	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624

2072223

PDC Laboratories, Inc.
4278 N. Highway 67 Florissant, MO 63033
(314) 232-0550 - (800) 333-FAST (3278) - FAX (314) [illegible]

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Robert Hicks

Date Received: 07/17/12 16:43
Report Date: 07/27/12
Customer #: 277382

"Laboratory Results"

Sample No: 2072223-08
Sample Description: MSD 005 grab

Collect Date: 07/17/12 11:45
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Volatile Organics - STL					
1,1-Dichloroethene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
1,2-Dichlorobenzene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
1,2-Dichloroethane	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
1,2-Dichloropropane	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
1,3-Dichlorobenzene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
1,4-Dichlorobenzene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
2-Chloroethylvinyl ether	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Acrolein	< 25 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Acrylonitrile	< 10 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Benzene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Bromodichloromethane	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Bromoform	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Bromomethane	< 10 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Carbon tetrachloride	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Chlorobenzene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Chloroethane	< 10 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Chloroform	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Chloromethane	< 10 ug/L		07/23/12 18:19 04KS	BP	EPA 624
cis-1,3-Dichloropropene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Dibromochloromethane	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Ethylbenzene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
m,p-Xylene	< 10 ug/L		07/23/12 18:19	BP	EPA 624*
Methylene chloride	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
o-Xylene	< 5.0 ug/L		07/23/12 18:19	BP	EPA 624*
Tetrachloroethene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Toluene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
trans-1,2-Dichloroethene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
trans-1,3-Dichloropropene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Trichloroethene	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Trichlorofluoromethane	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Vinyl chloride	< 5.0 ug/L		07/23/12 18:19 04KS	BP	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*97 % 59.1-125*		*07/23/12 18:19*	*BP*	*EPA 624*
Surrogate: Toluene-d8	*98 % 85.8-116*		*07/23/12 18:19*	*BP*	*EPA 624*
Surrogate: Bromofluorobenzene	*104 % 64.1-123*		*07/23/12 18:19*	*BP*	*EPA 624*
1,2-Dichloroethene- Total	< 10 ug/L		07/23/12 18:19	BP	EPA 624*
1,3-Dichloropropene - Total	< 10 ug/L		07/23/12 18:19	BP	EPA 624*

2072223

Metropolitan St. Louis Sewer District

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

MSD

July 16, 2012

Robert Hicks
ST LOUIS UNIVERSITY HOSPITAL
3635 Vista Ave.
P.O. Box 15250
St. Louis, MO 63110

Re: Change in compliance charge rate
For premise at: **3635 & 3655 Vista Ave.**
St. Louis, MO 63110

Dear Robert Hicks:

As you probably are aware, citizens in the Metropolitan St. Louis Sewer District's boundaries voted on June 5, 2012 to revise the rate structure for MSD customers. This revised rate structure affects more than the charge for volume. It also changes the compliance charge that is assessed for commercial accounts. This charge is a separate line item on your monthly bill.

Previously, the compliance charge was a flat rate for all non-residential accounts. It is now a tiered rate, more accurately reflecting the actual costs involved for federal regulatory requirements to inspect and sample companies. In addition to changing to a more equitable tiered rate, MSD has also re-evaluated the costs involved and program requirements, and has been able to make changes to greatly reduce the overall impact of the compliance charge.

For the vast majority of non-residential accounts, the compliance charge will decrease. However, certain companies that federal regulations require to be inspected or have their wastewater sampled will see their compliance charge increase, due to the costs involved in conducting the inspections and sampling. Your facility is one of the companies that these federal regulations encompass.

Barring any recent changes at your facility, the new compliance charge for your MSD sewer account will be **$163.75** per month. Please note also that the tier, and associated compliance charge, can change as conditions change at your facility.

Please note that MSD recognizes that many companies receive more than one MSD bill, because they have more than one incoming water account. The above compliance charge will apply to only one MSD account for each premise, with any other accounts receiving the minimum compliance charge of $23.00 per month. In addition, the minimum compliance charge for those additional accounts will further reduce to $2.15 per month by July 1, 2015.

An insert explaining the compliance charge in more detail will be included with the August bill for all non-residential accounts. This will help insure that the person or department actually paying the bill will also be aware of the changes.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Douglas M. Mendoza, P.E.
Manager of Industrial Pretreatment

Industry: ST LOUIS UNIVERSITY HOSPITAL [1020548800]

From: S. REHMER

Date: 07/05/12

Re: Change in Account Number

The account number for this company has been changed from: 4112195100

to: 1020548800

The change is due to the need to have all industry account numbers conform to the billing premise # - based system, so that the correct "compliance fee tier" charge can be automatically added to the sewer bill each month.

SR

MSD

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		04/04-05/2012		04/04-05/2012		04/04-05/2012		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		14:15-14:15		14:00-14:00		14:30-14:30		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW								
Biological Oxygen Demand	********	C	56	C	290	C	110	mg/l
Chemical Oxygen Demand	********	C	770	C	320	C	140	mg/l
Total Suspended Solids	********	C	22	C	63	C	24	mg/l
Total Phenol	21	G	<0.050	G	0.10	G	0.16	mg/l
Oil and Grease	200	G	6.2	G	110	G	8.9	mg/l
Silver (total)	0.5	C	0.0041	C	<0.0020	C		mg/l
pH	5.5-11.5	G	8.39	G	9.14	G	8.36	units
Temperature	60	G	22.7	G	24.0	G	19.8	deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨			005						
DATES ON WHICH SAMPLES WERE COLLECTED ⇨			04/04-05/2012						
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨			15:00-15:00						
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)							UNITS
FLOW									
Biological Oxygen Demand	********	C	120						mg/l
Chemical Oxygen Demand	********	C	180						mg/l
Total Suspended Solids	********	C	34						mg/l
Total Phenol	21	G	0.11						mg/l
Oil and Grease	200	G	13						mg/l
Silver (total)	0.5	C							mg/l
pH	5.5-11.5	G	8.33						units
Temperature	60	G	18.6						deg C
Total Toxic Organics	5.844	G,C							mg/l

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	RH I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: Robert Hich
	Title: Maintenance Manager Telephone: 314-577-2026
	Signature: [signature] Date: 5-2-12

Scott,

Our estimates of usage are as follows:

Sample Point 001= 77,000 gallons per day
Sample Point 002 = 39,000 gallons per day
Sample Point 003 = 4,000 gallons per day
Sample Point 004 = 600 gallons per day
Sample Point 005 = 2,500 gallons per day

Thank You

Robert Hicks
Operations and Maintenance Manager
St. Louis University Hospital
314-577-8072

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	
P.O. NUMBER	
MEANS SHIPPED	
PHONE NUMBER	314-577-8070
FAX NUMBER	
EMAIL ADDRESS	

MATRIX TYPES:
WW-WASTEWATER
DW-DRINKING WATER
GW-GROUND WATER
WW-SL-SLUDGE
NAS-SOLID

ANALYSIS REQUESTED

(FOR LAB USE ONLY)
LOGIN #: 20120901
LOGGED BY: HE
LAB PROJ #:
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT IT REPORTED	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 001	4/4-5/12	14:15-14:15		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8,39
	↓	↓		X	WW	HNO3			X					Temp = 22,7°C
	4/5/12	14:15	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			
MSD 002	4/4-5/12	14:00-14:00		X	WW	H2SO4,4C	X							pH = 9,14
(Quarterly)	↓	↓		X	WW	Cool 4C		X						Temp = 24,0°C
	↓	↓		X	WW	HNO3			X					
	4/5/12	14:00	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	H2SO4, 4C					X			Field charge.

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fast Track (2 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	4/5/12	15:55	Heather Coulter	4/5/12	15:55
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	4.6	degrees C
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8070	FAX NUMBER	EMAIL ADDRESS		LOGIN # ____ LOGGED BY: ____ LAB PROJ # TEMPLATE: PROJ. MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED			MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	4/4-5/12	14:30-14:30		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.36
	4/5/12	14:30	x		WW	H2SO4, 4C				x				Temp = 19.8°C
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 005	4/4-5/12	15:00-15:00		x	WW	H2SO4,4C	X							pH = 8.33
(Quarterly)	↓	↓		x	WW	Cool 4C		x						Temp = 18.6°C
	4/5/12	15:00	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (6 Bus Days) ☐ Fastrak (5 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	4/5/12	15:55	[signature]	4/5/12	15:55
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt _____ degrees C
Chill process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

MSD

03 4-30

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ■(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KJ I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 4/24/12

RECEIVED

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

MSD
CB
2-13

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ■(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

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

RECEIVED
FEB 01 2012
DIVISION OF ENVIRONMENTAL COMPLIANCE

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 1/27/12

MSD
SR
2/8

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **ST LOUIS UNIVERSITY HOSPITAL**

Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016

Premise Address: 3635 & 3655 Vista Avenue, 63110

Monitoring Period: ☒(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		01/11-12/2012		01/11-12/2012		01/11-12/2012		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		10:30-10:30		10:00-10:00		11:00-11:00		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW ←								
Biological Oxygen Demand	*********	C	140	C	300	C	240	mg/l
Chemical Oxygen Demand	********	C	200	C	340	C	250	mg/l
Total Suspended Solids	********	C	41	C	100	C	98	mg/l
Total Phenol	21	G	<0.050	G	0.058	G	<0.050	mg/l
Oil and Grease	200	G	<5.0	G	38	G	<5.0	mg/l
Silver (total)	0.5	C	<0.0020	C	<0.0020			mg/l
pH	5.5-11.5	G	8.58	G	7.84	→		units
Temperature	60	G	14.5	G	17.6	→		deg C
Total Toxic Organics	5.844	G,C						mg/l
Provided pH + Temp for								
SP 003, and flow estimate								
for all SP's on attached								
fax received 2/7/12.								
	SR							

You must complete and sign the certification statements on the second page.

RECEIVED
FEB 0 2 2012
DIVISION OF
ENVIRONMENTAL COMPLIANCE

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

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MSD SAMPLE POINT REFERENCE NUMBERS ⇨		005		004				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		01/11-12/2012						
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		11:30-11:30						
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW								
Biological Oxygen Demand	*********	C	260					mg/l
Chemical Oxygen Demand	********	C	280					mg/l
Total Suspended Solids	********	C	14					mg/l
Total Phenol	21	G	0.12					mg/l
Oil and Grease	200	G	<5.0					mg/l
Silver (total)	0.5	C						mg/l
pH	5.5-11.5	G	9.05					units
Temperature	60	G	10.3					deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

RECEIVED
FEB 0 2 2012
DIVISION OF
ENVIRONMENTAL COMPLIANCE

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived: RH I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur: _____ I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below: I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Print or type name of signing official: Robert Hicks Title: Maintenance Manager Telephone: 314-577-8072 Signature: [signature] Date: 1/31/12

2

RECEIVED
FEB 02 2012
DIVISION OF
ENVIRONMENTAL COMPLIANCE

MSD 038311

Scott,

Our estimates of usage are as follows:

Sample Point 001= 77,000 gallons per day
Sample Point 002 = 39,000 gallons per day
Sample Point 003 = 4,000 gallons per day
Sample Point 004 = 600 gallons per day
Sample Point 005 = 2,500 gallons per day

Thank You

Robert Hicks
Operations and Maintenance Manager
St. Louis University Hospital
314-577-8072

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8070	FAX NUMBER	EMAIL ADDRESS		LOG N # ____ LOGGED BY: ____ LAB PROJ # TEMPLATE: PROJ. MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Phenol (2 bottle)			REMARKS
MSD 003	1/11-12/12	11:00-11:00		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.21
	1/12/12	11:00	x		WW	H2SO4, 4C				x				Temp = 16.9°C
	↓	↓	x		WW	H2SO4, 4C					x			
MSD 005	1/11-12/12	11:30-11:30		x	WW	H2SO4,4C	X							pH = 9.05
(Quarterly)	↓	↓		x	WW	Cool 4C		x						Temp = 10.3°C
	1/12/12	11:30	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	H2SO4, 4C					x			
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	1/12/12	15:00	Heather Earhart	1/12/12	15:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	____ degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

MSD

SR

DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
MEMORANDUM

MEMO TO: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

FROM: Mike Kynion MK

DATE: 1-23-12

SUBJECT: **Telephone call and email regarding change to contact information**

On 1/23/12 I received a telephone call and email from Mike Jones with St. Louis University Hospital regarding a change to the contact information. Mr. Robert Hicks (Maintenance Manager) is now the primary contact at St. Louis University Hospital [4112195100]. PIMS has been update to reflect the change.

Michael S. Kynion

From: Jones, Michael [MICHAEL.Jones@tenethealth.com]
Sent: Monday, January 23, 2012 12:59 PM
To: Michael S. Kynion
Subject: SLU Hospital point of contact update

Mike

We now have a manager in place so please update the contact information:

Robert Hicks
314-577-8072
Hicks-Robert2@aramark.com

MSD

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL FACILITY REINSPECTION REPORT

Company: St. Louis University Hospital Account #: 4112195100
Premise Address: 3635 & 3655 Vista Avenue Zip Code: 63110
MSD Classes: SIU ☒ CIU ☐ Surch ☐ Potential Toxic Waste ☒ Non-Toxic Proc Waste ☐
No Process Flow ☐ Multi-User ☐ Special Handling/Billing ☐
Company Representative: Mike Jones
Title: Chief Engineer Phone#: 314-577-8173
Inspector: Mike Kynion
Others Present: Bob Hicks - Maintenance
Inspection Date: 11/8/11 Time: From 08:30 AM To 10:55 AM (Last Insp. 12/7/10)

NOTE: ALL ITEMS ARE TO BE COMPLETED BASED ON EVENTS SINCE LAST INSPECTION. ANSWERS ARE BASED ON INFORMATION OBTAINED OR PROVIDED BY COMPANY DURING INSPECTION, AS WELL AS INFORMATION IN FILE.

***** DATABASE ALSO UPDATED WITH APPROPRIATE CHANGES - see attached database reports *****

1. A. ARE THERE ADDITIONAL NON-STORMWATER ACCOUNT NUMBERS? Yes☒ No☐
   List them, note any changes: 4112195001, 9009153601
   B. Did all acct no's have water usage on PIMS? Yes☒ No☐
   C. If no to B, explain: _____

2. PROCESSES & CLEANUP/WASHDOWN:

	Cont/ Batch		Water Used?	Frequency of discharge	Sample pt.
Hospital Care and surgical operations	Cont		Yes	Daily	001, 002
Clinical & Research laboratories	Cont		Yes	Daily	001, 002
In-patient psychiatric care & caner treatment	Cont		Yes	Daily	001,002,003, 005
Kitchen waste	Batch		Yes	Daily	001
	(None)		N/A		
	(None)		N/A		

3. PRETREATMENT (other than grease traps) - describe:

	Sample pt.
Silver Recovery (electrolytic & Metallic replacement)	001,002

4. DOES COMPANY HAVE ANY GREASE TRAPS? Yes☒ No☐
If yes: A. List sample points: 001
B. What is the frequency for cleaning & maintenance? Quarterly
C. Are any additives used in traps? Yes☐ No☒
D. If yes to C, was co. warned MSD will bill them for blockages they cause? Yes☐ No☐
E. Was co. informed that MSD performs separate grease trap inspections? Yes☒ No☐

5. HAS COMPANY CONSTRUCTED NEW BLDGS/ADDITIONS WITH SEWERS SINCE LAST INSP? Yes☐ No☒
If yes: A. Ask company: Did they notify MSD's Plan Review group? Unknown☐ Yes☐ No☐
B. If no or unknown, has inspector notified Plan Review group? Yes☐ No☐
C. Comments: _____

6. HAS COMPANY BEGUN DISCHARGING ANY NEW POLLUTANTS SINCE THE LAST INSP? Yes☐ No☒
If yes: A. List pollutants & process: _____
B. Will MSD STP exceed existing NPDES discharge limit(s)? Yes☐ No☐
C. Will MSD STP's discharge exceed 0.1 mg/l for any new pollutant? Yes☐ No☐
(MSD must notify MDNR if B or C is yes and discharge will continue.)
D. Comments: _____

7. ARE THERE ANY FEDERALLY REGULATED (40 CFR 405-471) OPERATIONS? Yes☒ No☐

If yes: A. List reg. & describe (including any discharge):
40 CFR 460 Sub A (general stds only) - Hosptial point source category

8. DOES CATEGORICAL WASTEWATER COMBINE WITH NON-CAT. WW PRIOR TO SAMPLING? Yes☐ No☒

If yes: A. At which points? _____
B. Current applied factor: _____ Is it correct? Yes☐ No☐
C. If no, list correct factor/explain? _____

9. IS ANY WASTEWATER SUBJECT TO PRODUCTION OR MASS BASED STANDARDS? Yes☐ No☒

If yes: A. At which points? _____
B. Since calculation of the current limits, has the long term avg production rate or discharge volume changed by 20% or more? Yes☐ No☐
C. If yes to B, explain: _____

10. ARE ANY RADIOACTIVE MATERIALS HANDLED? Yes☒ No☐

If yes: A. Describe operations & disposal: Nuc Med isotopes are held for decay then sewered or hauled for disposal
B. Does company have MSD authorization for disposal to sewer? NA☐ Yes☒ No☐
C. Most recent authorization date: 4/2/99
D. Amount discharged in most recent complete calendar year: 0

11. DOES PROCESS or P&E WASHDOWN WATER USE APPEAR EXCESSIVE? Yes☐ No☒

A. Explain how use was verified & any needed changes:
No excessive water usage was observed at the time of the facility inspection. According to information provided by the site contact and a review of water records, the large volume usage appears normal for the type and size of operation.

12. BASED ON OBSERVATIONS DURING INSPECTION, DOES COMPANY APPEAR TO HAVE SOME WATER THAT IS NOT DISCHARGED TO SEWER? Yes☒ No☐

If yes: A. Describe: Evaporative loss from boiler and cooling tower; lawn irrigation system
B. Was "Return Factor Program" brochure given to company? Yes☒ No☐
(regardless of whether some water is not discharged to sewer)

13. HAS COMPANY EXCEEDED ORDINANCE DISCHARGE LIMITS SINCE LAST INSPECTION OR WITHIN THE LAST 12 MONTHS (if last insp <12 months ago)? Yes☐ No☒

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Y/N	Describe
			N/A	
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

14. HAS COMPANY EXCEEDED CATEGORICAL PRETREATMENT LIMITS SINCE THE LAST INSPECTION OR WITHIN LAST 12 MONTHS (if last insp <12 months ago)? NA☒ Yes☐ No☐

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Y/N	Describe
			N/A	
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

15. HAVE THERE BEEN ANY PROBLEM DISCHARGES SINCE LAST INSPECTION? Yes☐ No☒

If yes: A. Upsets? ☐ Bypasses of pretreatment facilities?☐
Spills? ☐ Slug discharges? ☐ Other? _____
B. Explain any marked: _____

16. COULD SPILLS OR LEAKS OF PROCESS TANKS, STORED WASTES, OR STORED CHEMICALS EASILY REACH SANITARY SEWERS OR STORM DRAINS? Yes☐ No☒

If yes: A. What needs to be done?
_____

If no: B. How are they controlled?
Small quantity chemicals and flammables are stored away from drains on shelves or in flammable cabinets where applicable. Large quantity oils and liquid wastes are stored in drums/totes on containment pallets. Spill kits are available throughout the facility where the potential for spills exsist.

17. BASED ON OBSERVATIONS DURING INSPECTION, ARE THERE ANY AREAS WHERE COMPANY ACTIVITIES APPEAR TO IMPAIR STORMWATER RUNOFF? Yes☐ No☒

If yes: A. Describe: _____
B. What needs to be done? _____
C. Was "Illicit Stormwater Discharges" brochure given to company? Yes☒ No☐
(regardless of whether there are any problem areas)

18. DOES COMPANY HAVE ANY SPILL CONTROL OR SLUG DISCHARGE CONTROL PLANS? Yes☒ No☐

If yes: A.

	Title	Last Update	Update needed? Explain if yes
1.	Hazardous Chemical Spill Plan	1/1/10	No
2.			N/A

B. Are any Plans needed (in addition to those listed in Part A)? Yes☐ No☒
(If yes, write company and request)

19. DOES COMPANY HAVE ANY MAINTENANCE SHOP PARTS WASHERS? Yes☒ No☐

If yes: A. Parts washer solvent name: Safety Kleen Premium
B. Priority pollutants (or "none"): Typically BTEX
C. How is spent solvent disposed? Hauled off-site
(Parts washer solvents are not included in database's priority pollutants list, nor monitored for unless conditions show potential discharges)

20. ARE ANY ORGANICS OR SOLVENTS USED (OTHER THAN IN PARTS WASHERS)? Yes☒ No☐

If yes: A.

Solvent name/ components	Used for?	413/433/469 Process?	How disposed?	Priority Pollutant?
Phenol	Sanitizing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Chloroform	Lab testing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Methylene Chloride	Lab testing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Phenanthrene	Lab testing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Alcohol	Lab testing	Yes☐ No☒	Hauled off-site	Yes☐ No☒
		Yes☐ No☐		Yes☐ No☐

21. DOES COMPANY HAVE A 413/433/469-REGULATORY "SOLVENT MANAGEMENT PLAN"? Yes☐ No☒
(only applies if company uses solvents in 413/433/469 processes)

If yes: A. Is it part of a Spill/Slug Control Plan listed above? Yes[1.☐ 2.☐] No☐
B. If no to A, date of last update for SMP: _____
C. Is there a copy of the Spill/Slug Plan or SMP in the files? Yes☐ No☐
D. Does SMP address all 413/433/469 solvents? Yes☐ No☐
(If no to C or D, write company and require submittal and/or update)

22. ARE EMERGENCY NOTIFICATION PROCEDURES POSTED THAT INCLUDE MSD CONTACTS? Yes☒ No☐
A. Was company provided notification cards & told to post where emergency response personnel can locate them? Yes☒ No☐
(Must post if co. generates process wastewater or stores chemicals of concern)

23. IS COMPANY REQUIRED TO SELF-MONITOR ANY OF THEIR DISCHARGES? Yes☒ No☐

If yes: A. Is requirement contained in permit ☒ or other document ☐.

B. If other document, date & description: _____

C. How frequently is sampling required? Quarterly

D. How frequently are reports required? Quarterly and Annually at SP004

E. Have reports been on-time, complete & signed by proper person? Yes☐ No☒

F. If no, explain: SLU failed to submit the 1st Quarter 2011 SMR.

24. DOES COMPANY SELF-MONITOR ITS WASTEWATER DISCHARGE? Yes☒ No☐

If yes: A. Is the self-monitoring required by MSD? Yes☒ No☐

B. Does sample collection time period match co's production shifts? Yes☒ No☐

C. Are representative grab/comp samples collected? Yes☒ No☐

D. Are EPA-approved 40 CFR 136 wastewater test methods used? Yes☒ No☐

E. If no to B, C, or D, explain needed changes: _____

25. DOES CO. CONTINUOUSLY MONITOR AT SAMPLE POINT AND KEEP A PERMANENT RECORD FOR: pH ☐, TEMP ☐, LEL ☐? Yes☐ No☒

If yes: A. At which SPs? _____

B. Does company submit quarterly summaries? Yes☐ No☐

C. If no, explain: _____

26. DOES MSD SPLIT SAMPLES WITH THE COMPANY? Yes☐ No☒

If yes: A. Is company having the samples analyzed Yes☐ No☐

B. How does company insure proper preservation, holding times & analytical methods? _____

C. Has company submitted results of all split sample analyses since the last insp? Yes☐ No☐

D. Have results been submitted within 28 days of the collection's calendar quarter? Yes☐ No☐

E. If no to C, or D, explain: _____

F. Does company still want to split samples? Yes☐ No☐

G. Comments: _____

27. IS COMPANY UNDER ANY ENVIRONMENTAL ENFORCEMENT ORDERS OR REQUIREMENTS TO SUBMIT COMPLIANCE SCHEDULE REPORTS? Yes☐ No☒

If yes: A. Type and date: _____

B. Have the reports & actions been on-time & complete? Yes☐ No☐

C. If no, explain: _____

28. ASK COMPANY: IS CO. IN COMPLIANCE W/APPLICABLE NESHAP REGS FOR WW DISCHARGES? Yes☒ No☐

[Some MDNR-issued Title V air permits for specific processes allow pre-approved WW discharge.] [City/County-issued air permits are not NESHAP permits.]

If no: A. Describe: _____

B. Was MDNR Air Pollution Control informed? (must be done) Yes☐ No☐

29. DOES COMPANY RETAIN ALL WASTEWATER RECORDS FOR AT LEAST 5 YEARS? Yes☒ No☐

If no: A. How long does company retain records? _____

B. Was company told to retain for at least 5 years, per ordinance? Yes☐ No☐

C. Where are they kept? In the Energy Center's office files

30. DO MSD CLASSIFICATIONS NEED TO BE REVISED? Yes☐ No☒

If yes: A. Indicate correct classifications:

SIU ☐ CIU ☐ Surch. ☐ Potential Toxic Waste ☐ Non-Toxic Proc Waste ☐

No Process Discharge ☐ Multi-User ☐ Special Handling/Billing ☐

B. Explain changes: _____

31. IS COMPANY CLASSIFIED AS "Multi-User"? Yes☐ No☒

If yes: A. Is company's discharge segregated from other tenants' discharge? Yes☐ No☐

B. If no to A, does the company own the bldg/receive the MSD bills? Yes☐ No☐

C. If yes to B, was company informed it is responsible for total discharge, or else must provide segregated sample points? Yes☐ No☐

D. If no to B, are any Process/P&E Wash-type wastes discharged? Yes☐ No☐

E. If yes to D, are the wastes completely innocuous? Yes☐ No☐
(Explain why: _____)

F. If yes to D, and no to E, company must accept responsibility or provide segregated SP. Acceptance letter date: _____ Or write co. w/requirement ☐

G. If no to D or yes to E, are limits "alert only" on PIMS? Yes☐ No☐

H. Comments: _____

32. IS COMPANY CLASSIFIED AS "Special Handling/Billing"? Yes☐ No☒

If yes: A. Why? _____

B. Are any changes needed to reasons/details? Yes☐ No☐

C. If yes, explain: _____

D. Were company records reviewed & verified for special handling/billing reports? NA☒ Yes☐ No☐

33. SAMPLE POINTS

						DJ(y/n)
SP #	001	Fed.Reg.	N/A	Components:	Sanitary + Hospital waste (including x-ray waste) + Kitchen waste + Boiler blowdown + NCCW + Stormwater	No
SP #	002	Fed.Reg.	N/A	Components:	Sanitary + Hospital waste (including x-ray waste) + Stormwater	No
SP #	003	Fed.Reg.	N/A	Components:	Sanitary + Hospital waste + Stormwater	No
SP #	004	Fed.Reg.	N/A	Components:	NCCW + Stormwater	Yes
SP #	005	Fed.Reg.	N/A	Components:	Sanitary + Hosptial waste + Stormwater	No

34. ARE ANY SAMPLE POINTS TRAPPED VENTS? Yes☐ No☒

If yes: A. List SPs: _____

B. Was co. informed that T-vents are preferred, and told why? Yes☐ No☐

35. ARE DISCHARGES AT ANY SPs SMALL/IRREGULAR ENOUGH TO ALLOW GRAB SAMPLES? Yes☒ No☐

If yes: A. List SPs and reasons: SP004 has low intermittent flow

36. ARE THERE ANY UNSAMPLED DISCHARGES? (list each lateral separately) Yes☐ No☒

Dummy SP #		Components:	
Dummy SP #		Components:	

37. DO ANY SAMPLE POINTS (including Unsampled/Dummy SPs) RECEIVE STORMWATER? Yes☒ No☐

If yes: A. List Sample Points: 001,002,003,004,005

38. WERE ALL SAMPLE POINTS (except Dummy SPs) OPENED & INSPECTED? No SPs☐ Yes☒ No☐

A. If any SPs cannot be located or opened, explain: _____

B. If any SP descript's need to be changed, explain: _____

C. Was ANY grease or other problem/debris observed in any SP? Yes☐ No☒

D. If yes to C, list SPs & describe: _____

E. If yes to C, was company directed to take corrective actions? Yes☐ No☐

39. REVIEW THE SAMPLE POINT MAP! Last map revision date: 6/6/07

A. Is the map correct and accurate in all its details? Yes☒ No☐

B If no, what changes are needed: _____

40. DO INSTRUCTIONS FOR "Contact Prior to Sampling" OR FIELD VISIT "Special Instructions" NEED REVISION? Yes☐ No☒

If yes: A. List needed changes: _____

USE THIS SPACE FOR ANY OTHER COMMENTS/OBSERVATIONS PERTINENT TO YOUR INSPECTION OF THIS SITE.

Hospital operations at 3635 Vista consist of:
1st floor - Rehabilitation & food services
2nd floor - Radiology, Hematology, Oncology & food services
3rd floor - Surgery

Radiology is primarily a digital process. However, liquid processing is still on-site and is only used on rare occasions as a back up to the digital process.

SLU Hospital recently submitted an IUQ in October of 2011 for permit renewal. All components of PIMS have been updated with the current IUQ information.

Skip Bowders the Energy Center Supervisor is no longer with SLU. Representatives of SLU are currently in the process of looking for a replacement for Mr. Bowders. Mike Jones the Chief Engineer is currently acting as the temporary contact for facility until a replacement has been hired. PIMS has been updated to reflect this change.

Monitoring requirements were updated in PIMS to include phenols and volatile organics for SP003 and SP005 since hospital wastes discharge to both points.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **4112195100**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

INDUSTRIAL USER CLASSIFICATIONS

03/06/1997	SIU
03/06/1997	PTW

WUNNENBERG INFO.

Base Map 20F1
Wun: St. Louis City & Co.
Grid: H 21 Page 38

SIU CRITERIA

POTM Reasonable potential for adverse affect on

GENERAL INFORMATION

Office Mailing Address
3635 Vista Ave.
St. Louis, MO. 63110-0250

Billing Address
3635 Vista Ave
St Louis, MO. 63110-0250

INSPECTION INFORMATION

Next Due	Insp Rslt	
11/08/2011	RIN	Mike Kynion

PERMIT INFORMATION

Issue Date:	01/01/2007
Expire Date:	12/31/2011
Extended Date:	12/31/2007
Writer	Fabian Grabski
Issue Date:	01/01/2012
Expire Date:	12/31/2016
Extended Date:	
Writer	Scott Rehmer
Issue Date:	01/01/2008
Expire Date:	12/31/2011
Extended Date:	12/31/2011
Writer	Scott Rehmer

IUQ INFORMATION

IUQ Recvd Date:	07/09/2001
Reviewer:	Fabian Grabski
IUQ Recvd Date:	07/03/2006
Reviewer:	Fabian Grabski
IUQ Recvd Date:	10/24/2011
Reviewer:	Mike Kynion

CONTACTS

BILL	Mike Jones	Chief Engineer	OFF	(314) 577-8070 Ext.
FLD1	Mike Jones	Chief Engineer	OFF	(314) 577-8173 Ext.
	Mike Jones	Chief Engineer	CELL	(314) 835-7401 Ext.
FLD2	Janet Dickson	Admin Assistant	OFF	(314) 577-8070 Ext.
FLD3	Bob Hicks	Maintenance	OFF	(314) 577-8070 Ext.
OFF1	Mike Jones	Chief Engineer	OFF	(314) 577-8070 Ext.
OFF2	Janet Dickson	Admin Assistant	OFF	(314) 577-8070 Ext.

OPERATIONAL INFORMATION

Work Days: 7

				S	M	T	W	T	F	S
1	1,884	07:00AM	8.0	Y	Y	Y	Y	Y	Y	Y
2	616	03:00PM	8.0	Y	Y	Y	Y	Y	Y	Y
3	615	11:00PM	8.0	Y	Y	Y	Y	Y	Y	Y

Total Emp: 3,115 **Hrs:** 24.0

OTHER AGENCIES INFORMATION

09/28/2005	MSD - Billing Account Number	00208066
09/28/2005	MSD - Billing Account Number	00447331
09/28/2005	MSD - Billing Account Number	00208067
10/24/2011	MDNR - Hazardous Waste Program	20848
10/24/2011	EPA - Hazardous Waste Program	MOR000023663

NON-SEWERED WASTE

On-Site Storage N **On-Site Disposal** N **Off-Site Disposal** Y

10/24/2011	Infectious Waste	519,896	LBS
10/24/2011	Equipment Oils and/or Grease	55	GPY
10/24/2011	Paints or Paint Sludges		GPY
07/03/2006	Kitchen/Food Service Grease	3500	GAL

COMMENTS

RAW MATERIALS

EFF DATE	MATERIAL_DESCRIPTION	QUANTITY	UNIT
12/07/2010	Medical Equipment		
12/07/2010	Medicines		

SIC INFORMATION

SIC	DESCRIPTION
8062	General Medical & Surgical Hospitals
8063	Psychiatric Hospitals

PRODUCTS

EFF DATE	DESCRIPTION	UNIT	AVG_PROD	MAX_PROD
05/07/2004	General hospital service			

Report No. PIMS012A 11/15/2011 2:26:04 pm
Data Date & Time: 11/15/2011 2:26:04 pm

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **4112195100**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

SEWER ACCOUNTS

Sewer Accounts
- 4112195100
- 4112195001
- 9009153601

WATER CONSUMPTION AND WASTEWATER DISCHARGE

Start Date = 01/01/2010 12:00:00AM **End Date =** 12/31/2011 12:59:59PM **Wdays** **Cdays**

Acct. No.			Consumption					Discharge	
4112195001			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
4112195001	10/24/2009	02/08/2010	30	30	A	108	108	108	
4112195001	02/09/2010	04/16/2010	24	54		67	67	175	
4112195001	04/17/2010	07/21/2010	643	697		96	96	271	
4112195001	07/22/2010	10/21/2010	550	1,247		92	92	363	
4112195001	10/22/2010	01/26/2011	303	1,550		97	97	460	
4112195001	01/27/2011	04/20/2011	20	1,570		84	84	544	
4112195001	04/21/2011	07/22/2011	777	2,347		93	93	637	
RF	0.68	**Acct. Total**	2,347	1,755,678		637	637	1,874	1,874
4112195100			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
4112195100	10/23/2009	01/26/2010	15,040	15,040	A	96	96	96	
4112195100	01/27/2010	04/16/2010	12,250	27,290		80	80	176	
4112195100	04/17/2010	07/21/2010	24,400	51,690		96	96	272	
4112195100	07/22/2010	10/21/2010	10,660	62,350		92	92	364	
4112195100	10/22/2010	01/31/2011	6,079	68,429		102	102	466	
4112195100	02/01/2011	05/03/2011	6,266	74,695		92	92	558	
4112195100	05/04/2011	07/22/2011	9,796	84,491		80	80	638	
RF	0.68	**Acct. Total**	84,491	63,203,662		638	638	67,364	67,364
9009153601			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
9009153601	10/21/2009	02/08/2010	880	880	A	111	111	111	
9009153601	02/09/2010	05/06/2010	900	1,780		87	87	198	
9009153601	05/07/2010	08/10/2010	900	2,680		96	96	294	
9009153601	08/11/2010	11/10/2010	1,000	3,680		92	92	386	
9009153601	11/11/2010	02/16/2011	800	4,480		98	98	484	
9009153601	02/17/2011	05/12/2011	800	5,280		85	85	569	
9009153601	05/13/2011	07/28/2011	43,258	48,538		77	77	646	
RF	1.00	**Acct. Total**	48,538	36,308,948		646	646	56,206	56,206
		Facility Total	135,376						

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **4112195100**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
01	Sanitary Or Combined	20F3	350C	Trunk Sewer	Rock Springs

Description Multiple lines from W side of hospital and E side of W pavilion to loading drive

Sewer Route W on Vista in 27 pipe to 39th St, then N in trunk to treatment plant

SAMPLE POINT NO. 001 Ordinance **NPDES Outfall No.**

Description MH in driveway W of loading dock at SW corner of main hospital building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Boiler Blowdown		16,300	GPD		GPD	D	10/24/11
Kitchen Waste		4,100	GPD		GPD	D	10/24/11
Sanitary		37,900	GPD		GPD	D	10/24/11
Hospital Waste	including x-ray waste	28,676	GPD		GPD	D	10/24/11
Non Contact Cooling Water	HVAC	11,675	GPD		GPD	D	10/24/11
	Total Flow Avg =	**98,651**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
02	Sanitary Or Combined	20F3	350C	Trunk Sewer	Rock Springs

Description Line S from S side of building to Vista Ave

Sewer Route W on Vista in 27 pipe to 39th St, then N in trunk to treatment plant

SAMPLE POINT NO. 002 Ordinance **NPDES Outfall No.**

Description MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Hospital Waste	including x-ray waste	26,700	GPD		GPD	D	10/24/11
Sanitary		30,150	GPD		GPD	D	10/24/11
	Total Flow Avg =	**56,850**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
03	Sanitary Or Combined	20F3	350C	Trunk Sewer	Rock Springs

Description Line SE from S side of building at entrance drive to Vista Ave.

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 003 Ordinance **NPDES Outfall No.**

Description MH 54' E of SW corner of West Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Hospital Waste		5,750	GPD		GPD	D	10/24/11
Sanitary		2,700	GPD		GPD	D	10/24/11
	Total Flow Avg =	**8,450**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
04	Sanitary Or Combined	20F3	362C	Trunk Sewer	Rock Springs

Description Line W from SW corner of parking garage to Spring Ave.

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 004 Ordinance **NPDES Outfall No.**

Description 6" t-vent inside W Pavilion parking garage 10' N, 18' E of SW corner

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **4112195100**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

Storm Water	0	GPD		GPD	D	9/19/07
Non Contact Cooling Water	400	GPD		GPD	D	10/24/11
Total Flow Avg =	**400**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
05	Sanitary Or Combined	20F3	362C	Trunk Sewer	Rock Springs

Description Manhole 93' S, 9' W of NW corner of W pavilion building

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 005 Ordinance **NPDES Outfall No.**

Description MH 93 ' S, 9' W of NW corner of W Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Hospital Waste		2,450	GPD		GPD	D	10/24/11
Sanitary		2,550	GPD		GPD	D	10/24/11
	Total Flow Avg =	**5,000**		**Max =**			

PRETREATMENT TYPES

SP	EFF_DATE	TYPE	DESCRIPTION
001	06/06/2000	DC28	Grease Trap
001	06/06/2000	DC32	Metallic Replacement
001	06/06/2000	DC20	Electrolysis
002	06/06/2000	DC20	Electrolysis
002	06/06/2000	DC32	Metallic Replacement

PRIORITY POLLUTANTS

Pollutant Description	Status	Pollutant Description	Status	Pollutant Description	Status
Phenanthrene	KP	Naphthalene	SP	Asbestos (Fibrous)	KP
Mercury (Total)	KP	Phenol	SP	Methylene Chloride	KP
Chloroform	KP				

EXTRA STRENGTH SURCHARGE INFORMATION

PIMS FACILITY CONTACTS
ST LOUIS UNIVERSITY HOSPITAL

For Account Number Selecte **4112195100**
Located at 3635 & 3655 Vista Ave.
St. Louis MO 63110

Address Type

Contact Type	Contact Name		Contact Title	Phone Type	Number	Ext.
Billing Address						
Billing Contact	Mike	Jones	Chief Engineer	OFF	(314)577-8070	
Office Mailing Address						
Office Contact - Primary	Mike	Jones	Chief Engineer	OFF	(314)577-8070	
Office Contact 1st Alt	Janet	Dickson	Admin Assistant	OFF	(314)577-8070	
Premise Address						
Field Contact - Primary	Mike	Jones	Chief Engineer	CELL	(314)835-7401	
Field Contact - Primary	Mike	Jones	Chief Engineer	OFF	(314)577-8173	
Field Contact 1st Alt	Janet	Dickson	Admin Assistant	OFF	(314)577-8070	
Field Contact 2nd Alt	Bob	Hicks	Maintenance	OFF	(314)577-8070	

PIMS
REPORT OF FIELD SAMPLING REQUIREMENTS
ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **4112195100**

SPN	PREMISE ADDRESS	CITY	ST	ZIP
	3635 & 3655 Vista Ave.	St. Louis	MO	63110

001 Project Code: IM = IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2012
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2012
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2012
	T237000	pH	Once/year	Grab	06/30/2012
	T247000	Temperature	Once/year	Grab	06/30/2012
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2012
	T257000	Total Phenols	Once/year	Grab	06/30/2012
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2012
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2012
Volatile Organics	T996000	Volatile Organics	Once/year	Grab	06/30/2012

002 Project Code: IM = IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2012
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2012
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2012
	T237000	pH	Once/year	Grab	06/30/2012
	T247000	Temperature	Once/year	Grab	06/30/2012
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2012
	T257000	Total Phenols	Once/year	Grab	06/30/2012
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2012
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2012
Volatile Organics	T996000	Volatile Organics	Once/year	Grab	06/30/2012

003 Project Code: IM = IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2012
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2012
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2012
	T237000	pH	Once/year	Grab	06/30/2012
	T247000	Temperature	Once/year	Grab	06/30/2012
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2012
	T257000	Total Phenols	Once/year	Grab	06/30/2012
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab	06/30/2012
Volatile Organics	T996000	Volatile Organics	Once/year	Grab	06/30/2012

004 Project Code: IM = IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Grab (Auth in lieu of composite)	06/30/2012
	T213000	Chemical Oxygen Demand	Once/year	Grab (Auth in lieu of composite)	06/30/2012
	T237000	pH	Once/year	Grab	06/30/2012
	T247000	Temperature	Once/year	Grab	06/30/2012
	T256000	Total Suspended Solids	Once/year	Grab (Auth in lieu of composite)	06/30/2012

005 Project Code: IM = IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2012
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2012
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2012
	T237000	pH	Once/year	Grab	06/30/2012
	T247000	Temperature	Once/year	Grab	06/30/2012

PIMS
REPORT OF FIELD SAMPLING REQUIREMENTS
ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **4112195100**

SPN	PREMISE ADDRESS		CITY	ST	ZIP	
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs		06/30/2012
	T257000	Total Phenols	Once/year	Grab		06/30/2012
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Grab		06/30/2012
Volatile Organics	T996000	Volatile Organics	Once/year	Grab		06/30/2012

MSD SR 10-28

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

Premise Address: 3635 & 3655 Vista Ave., St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨			001		002		003	
DATES ON WHICH SAMPLES WERE COLLECTED ⇨			07/21-22/2011		07/21-22/2011		07/21-22/2011	
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨			11:30-11:30		11:00-11:00		12:00-12:00	
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			77279		38639		4000	gpd
Biological Oxygen Demand	******	C	81		43		10	mg/l
Chemical Oxygen Demand	******	C	320		160		56	mg/l
Total Suspended Solids	******	C	120		33		26	mg/l
Oil and Grease	200	G	12		6.6		15	mg/l
Total Silver	0.5	C	0.14		<0.002			mg/l
pH value	5.5-11.5	G	8.31		7.82		8.01	units
Temperature	60	G	30.9		29.6		28.1	Deg C
Total Toxic Organics	5.844	G,C	<0.025		0.049		<0.025	mg/l

You must complete and sign the certification statements on the second page.

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METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

Premise Address: 3635 & 3655 Vista Ave., St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨			004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨			07/21-22/2011		07/21-22/2011				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨			12:30-12:30		13:00-13:00				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)							UNITS
FLOW			612		2500				gpd
Biological Oxygen Demand	*******	C			130				mg/l
Chemical Oxygen Demand	*******	C	39		390				mg/l
Total Suspended Solids	*******	C	8		180				mg/l
Oil and Grease	200	G			24				mg/l
pH value	5.5-11.5	G	7.03		8.24				units
Temperature	60	G	25.2		27.4				Deg C
Total Toxic Organics	5.844	G,C	<0.025		0.046				mg/l

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

N/A

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	mg I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point(s) 004.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: MICHAEL JONES
	Title: Chief Engineer Telephone: 314-577-8173
	Signature: Michael Jones Date: 10-27-11

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: 1072706-01
Sample Description: MSD 001

Collect Date: 07/22/11 11:30
Matrix: Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	81 mg/L	X	07/22/11 11:49	DWM	SM 5210B 18Ed
COD	320 mg/L		07/25/11 09:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	120 mg/L		07/25/11 17:00	ACV	SM 2540D 18Ed
Semivolatile Organics - STL					
1,2,4-Trichlorobenzene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
1,2-Dichlorobenzene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
1,3-Dichlorobenzene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
1,4-Dichlorobenzene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
2,4,5-Trichlorophenol	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	*41 % 10-93*		*07/26/11 22:04*	*jk*	*EPA 625*
2,4,6-Trichlorophenol	< 10 ug/L		07/26/11 22:04	jk	EPA 625
2,4-Dichlorophenol	< 10 ug/L		07/26/11 22:04	jk	EPA 625
2,4-Dimethylphenol	< 10 ug/L		07/26/11 22:04	jk	EPA 625
2,4-Dinitrophenol	< 10 ug/L		07/26/11 22:04	jk	EPA 625
2,4-Dinitrotoluene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
2,6-Dimethylaniline	< 5.0 ug/L		07/26/11 22:04	jk	EPA 625
2,6-Dinitrotoluene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
2-Chloronaphthalene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
2-Chlorophenol	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	*50 % 10-110*		*07/26/11 22:04*	*jk*	*EPA 625*
Surrogate: 2-Fluorophenol	*16 % 10-46.4*		*07/26/11 22:04*	*jk*	*EPA 625*
2-Nitrophenol	< 10 ug/L		07/26/11 22:04	jk	EPA 625
3,3'-Dichlorobenzidine	< 10 ug/L		07/26/11 22:04	jk	EPA 625
4,6-Dinitro-2-methylphenol	< 10 ug/L		07/26/11 22:04	jk	EPA 625
4-Bromophenylphenyl ether	< 10 ug/L		07/26/11 22:04	jk	EPA 625
4-Chloro-3-methylphenol	< 10 ug/L		07/26/11 22:04	jk	EPA 625
4-Chlorophenylphenyl ether	< 10 ug/L		07/26/11 22:04	jk	EPA 625
4-Nitrophenol	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Acenaphthene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Acenaphthylene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Anthracene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Azobenzene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Benzidine	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Benzo(a)anthracene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Benzo(a)pyrene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Benzo(b&k)fluoranthene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Benzo(b)fluoranthene	< 10 ug/L		07/26/11 22:04	jk	EPA 625

1072708

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PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333 FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: **1072706-01**
Sample Description: **MSD 001**

Collect Date: **07/22/11 11:30**
Matrix: **Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Benzo(g,h,i)perylene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Benzo(k)fluoranthene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Bis(2-chloroethoxy) methane	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Bis(2-chloroethyl) ether	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Bis(2-chloroisopropyl) ether	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Bis(2-ethylhexyl) phthalate	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Butyl benzyl phthalate	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Chrysene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Dibenzo(a,h)anthracene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Diethyl phthalate	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Dimethyl phthalate	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Di-n-butyl phthalate	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Di-n-octyl phthalate	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Diphenylamine	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Fluoranthene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Fluorene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Hexachlorobenzene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Hexachlorobutadiene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Hexachlorocyclopentadiene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Hexachloroethane	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Indeno(1,2,3-cd)pyrene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Isophorone	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Naphthalene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Nitrobenzene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Surrogate: Nitrobenzene-d5	*50 % 10.1-104*		*07/26/11 22:04*	*jk*	*EPA 625*
N-Nitrosodimethylamine	< 10 ug/L		07/26/11 22:04	jk	EPA 625
N-Nitrosodi-n-propylamine	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Pentachlorophenol	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Phenanthrene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Phenol	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Surrogate: Phenol- d6	*13 % 10-42.9*		*07/26/11 06:04*	*jk*	*EPA 625*
Surrogate: p-Terphenyl-d14	*52 % 10-111*		*07/26/11 22:04*	*jk*	*EPA 625*
Pyrene	< 10 ug/L		07/26/11 22:04	jk	EPA 625
Total Metals - STL					
Silver	0.14 mg/L		07/28/11 11:12	WPS	EPA 200.7 R4.4

1072706

10/27/2011 13:42 3142685563 SLUH BLDG SVCS PAGE 02/33

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: 1072706-02
Sample Description: MSD 001 Grab

Collect Date: 07/22/11 11:30
Matrix: Waste Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	6.31 pH Units		07/22/11 11:30	BGP	SM
Temperature, Field Measured	30.0 °C		07/22/11 11:30	BGP	SM
General Chemistry - STL					
Oil & Grease - total	12 mg/L		07/26/11 09:35	MCP	EPA 1664A
Volatile Organics - STL					
1,1,1-Trichloroethane	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
1,1,2-Trichloroethane	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
1,1-Dichloroethane	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
1,1-Dichloroethene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
1,2-Dichlorobenzene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
1,2-Dichloroethane	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*89 % 64.1-106*		*07/27/11 14:46*	*BP*	*EPA 624*
1,2-Dichloropropane	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
1,3-Dichlorobenzene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
1,4-Dichlorobenzene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
2-Chloroethylvinyl ether	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Acrolein	< 25 ug/L		07/27/11 14:46	BP	EPA 624
Acrylonitrile	< 10 ug/L		07/27/11 14:46	BP	EPA 624
Benzene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Bromodichloromethane	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Surrogate: Bromofluorobenzene	*81 % 82.4-111*		*07/27/11 14:46*	*BP*	*EPA 624*
Bromoform	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Bromomethane	< 10 ug/L		07/27/11 14:46	BP	EPA 624
Carbon tetrachloride	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Chlorobenzene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Chloroethane	< 10 ug/L		07/27/11 14:46	BP	EPA 624
Chloroform	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Chloromethane	< 10 ug/L		07/27/11 14:46	BP	EPA 624
cis-1,3-Dichloropropene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Dibromochloromethane	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Ethylbenzene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
m,p-Xylene	< 10 ug/L		07/27/11 14:46	BP	EPA 624
Methylene chloride	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
o-Xylene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Tetrachloroethene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Toluene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624

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PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-1977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: 1072706-02
Sample Description: MSD 001 Grab

Collect Date: 07/22/11 11:30
Matrix: Waste Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Volatile Organics - STL					
Surrogate: Toluene-d8	*88 % 69-98.1*		*07/27/11 14:46*	*BP*	*EPA 624*
trans-1,2-Dichloroethene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
trans-1,3-Dichloropropene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Trichloroethene	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Trichlorofluoromethane	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624
Vinyl chloride	< 5.0 ug/L		07/27/11 14:46	BP	EPA 624

Sample No: 1072706-03
Sample Description: MSD 003

Collect Date: 07/22/11 12:00
Matrix: Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	10 mg/L	X	07/22/11 14:00	DWM	SM 5210B 18Ed
COD	58 mg/L		07/25/11 09:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	26 mg/L		07/25/11 17:00	ACV	SM 2540D 18Ed
Semivolatile Organics - STL					
1,2,4-Trichlorobenzene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
1,2-Dichlorobenzene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
1,3-Dichlorobenzene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
1,4-Dichlorobenzene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
2,4,5-Trichlorophenol	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	*46 % 10-93*		*07/26/11 22:51*	*jk*	*EPA 625*
2,4,6-Trichlorophenol	< 10 ug/L		07/26/11 22:51	jk	EPA 625
2,4-Dichlorophenol	< 10 ug/L		07/26/11 22:51	jk	EPA 625
2,4-Dimethylphenol	< 10 ug/L		07/26/11 22:51	jk	EPA 625
2,4-Dinitrophenol	< 10 ug/L		07/26/11 22:51	jk	EPA 625
2,4-Dinitrotoluene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
2,6-Dimethylaniline	< 5.0 ug/L		07/26/11 22:51	jk	EPA 625
2,6-Dinitrotoluene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
2-Chloronaphthalene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
2-Chlorophenol	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	*61 % 10-110*		*07/26/11 22:51*	*jk*	*EPA 625*
Surrogate: 2-Fluorophenol	*19 % 10-46.4*		*07/26/11 22:51*	*jk*	*EPA 625*
2-Nitrophenol	< 10 ug/L		07/26/11 22:51	jk	EPA 625
3,3'-Dichlorobenzidine	< 10 ug/L		07/26/11 22:51	jk	EPA 625

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PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-1977

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: 1072706-03
Sample Description: MSD 003

Collect Date: 07/22/11 12:00
Matrix: Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
4,6-Dinitro-2-methylphenol	< 10 ug/L		07/26/11 22:51	jk	EPA 625
4-Bromophenylphenyl ether	< 10 ug/L		07/26/11 22:51	jk	EPA 625
4-Chloro-3-methylphenol	< 10 ug/L		07/26/11 22:51	jk	EPA 625
4-Chlorophenylphenyl ether	< 10 ug/L		07/26/11 22:51	jk	EPA 625
4-Nitrophenol	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Acenaphthene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Acenaphthylene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Anthracene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Azobenzene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Benzidine	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Benzo(a)anthracene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Benzo(a)pyrene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Benzo(b&k)fluoranthene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Benzo(b)fluoranthene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Benzo(g,h,i)perylene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Benzo(k)fluoranthene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Bis(2-chloroethoxy) methane	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Bis(2-chloroethyl) ether	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Bis(2-chloroisopropyl) ether	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Bis(2-ethylhexyl) phthalate	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Butyl benzyl phthalate	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Chrysene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Dibenzo(a,h)anthracene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Diethyl phthalate	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Dimethyl phthalate	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Di-n-butyl phthalate	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Di-n-octyl phthalate	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Diphenylamine	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Fluoranthene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Fluorene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Hexachlorobenzene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Hexachlorobutadiene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Hexachlorocyclopentadiene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Hexachloroethane	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Indeno(1,2,3-cd)pyrene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Isophorone	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Naphthalene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Nitrobenzene	< 10 ug/L		07/26/11 22:51	jk	EPA 625

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PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-1977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: **1072706-03**
Sample Description: **MSD 003**

Collect Date: **07/22/11 12:00**
Matrix: **Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Surrogate: Nitrobenzene-d5	*60 % 10.1-104*		*07/26/11 22:51*	*jk*	*EPA 625*
N-Nitrosodimethylamine	< 10 ug/L		07/26/11 22:51	jk	EPA 625
N-Nitrosodi-n-propylamine	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Pentachlorophenol	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Phenanthrene	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Phenol	< 10 ug/L		07/26/11 22:51	jk	EPA 625
Surrogate: Phenol- d5	*14 % 10-42.9*		*07/26/11 22:51*	*jk*	*EPA 625*
Surrogate: p-Terphenyl-d14	*61 % 10-111*		*07/26/11 22:51*	*jk*	*EPA 625*
Pyrene	< 10 ug/L		07/26/11 22:51	jk	EPA 625

Sample No: **1072706-04**
Sample Description: **MSD 003 grab**

Collect Date: **07/22/11 12:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	8.01 pH Units		07/22/11 12:00	LLO	SM
Temperature, Field Measured	28.1 °C		07/22/11 12:00	LLO	SM
General Chemistry - STL					
Oil & Grease - total	15 mg/L		07/26/11 09:35	MEP	EPA 1664A
Volatile Organics - STL					
1,1,1-Trichloroethane	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
1,1,2-Trichloroethane	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
1,1-Dichloroethane	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
1,1-Dichloroethene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
1,2-Dichlorobenzene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
1,2-Dichloroethane	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*88 % 64.1-106*		*07/27/11 15:21*	*BP*	*EPA 624*
1,2-Dichloropropane	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
1,3-Dichlorobenzene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
1,4-Dichlorobenzene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
2-Chloroethylvinyl ether	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Acrolein	< 25 ug/L		07/27/11 15:21	BP	EPA 624
Acrylonitrile	< 10 ug/L		07/27/11 15:21	BP	EPA 624
Benzene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624

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PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: **1072706-04**
Sample Description: **MSD 003 grab**

Collect Date: **07/22/11 12:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Volatile Organics - STL					
Bromodichloromethane	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Surrogate: Bromofluorobenzene	*83 % 62.4-111*		*07/27/11 15:21*	*BP*	*EPA 624*
Bromoform	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Bromomethane	< 10 ug/L		07/27/11 15:21	BP	EPA 624
Carbon tetrachloride	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Chlorobenzene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Chloroethane	< 10 ug/L		07/27/11 15:21	BP	EPA 624
Chloroform	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Chloromethane	< 10 ug/L		07/27/11 15:21	BP	EPA 624
cis-1,3-Dichloropropene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Dibromochloromethane	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Ethylbenzene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
m,p-Xylene	< 10 ug/L		07/27/11 15:21	BP	EPA 624
Methylene chloride	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
o-Xylene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Tetrachloroethene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Toluene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Surrogate: Toluene-d8	*86 % 69-98.1*		*07/27/11 15:21*	*BP*	*EPA 624*
trans-1,2-Dichloroethene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
trans-1,3-Dichloropropene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Trichloroethene	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Trichlorofluoromethane	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624
Vinyl chloride	< 5.0 ug/L		07/27/11 15:21	BP	EPA 624

Sample No: **1072706-05**
Sample Description: **MSD 004**

Collect Date: **07/22/11 12:30**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
COD	39 mg/L		07/25/11 09:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	8.0 mg/L		07/25/11 17:00	ACV	SM 2540D 18Ed
Semivolatile Organics - STL					
1,2,4-Trichlorobenzene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
1,2-Dichlorobenzene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
1,3-Dichlorobenzene	< 10 ug/L		07/26/11 20:31	jk	EPA 625

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PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-0977

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: 1072706-05
Sample Description: MSD 004

Collect Date: 07/22/11 12:30
Matrix: Waste Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
1,4-Dichlorobenzene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
2,4,5-Trichlorophenol	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	*54 % 10-93*		*07/26/11 20:31*	*jk*	*EPA 625*
2,4,6-Trichlorophenol	< 10 ug/L		07/26/11 20:31	jk	EPA 625
2,4-Dichlorophenol	< 10 ug/L		07/26/11 20:31	jk	EPA 625
2,4-Dimethylphenol	< 10 ug/L		07/26/11 20:31	jk	EPA 625
2,4-Dinitrophenol	< 10 ug/L		07/26/11 20:31	jk	EPA 625
2,4-Dinitrotoluene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
2,6-Dimethylaniline	< 5.0 ug/L		07/26/11 20:31	jk	EPA 625
2,6-Dinitrotoluene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
2-Chloronaphthalene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
2-Chlorophenol	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	*58 % 10-110*		*07/26/11 20:31*	*jk*	*EPA 625*
Surrogate: 2-Fluorophenol	*21 % 10-45.4*		*07/26/11 20:31*	*jk*	*EPA 625*
2-Nitrophenol	< 10 ug/L		07/26/11 20:31	jk	EPA 625
3,3'-Dichlorobenzidine	< 10 ug/L		07/26/11 20:31	jk	EPA 625
4,6-Dinitro-2-methylphenol	< 10 ug/L		07/26/11 20:31	jk	EPA 625
4-Bromophenylphenyl ether	< 10 ug/L		07/26/11 20:31	jk	EPA 625
4-Chloro-3-methylphenol	< 10 ug/L		07/26/11 20:31	jk	EPA 625
4-Chlorophenylphenyl ether	< 10 ug/L		07/26/11 20:31	jk	EPA 625
4-Nitrophenol	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Acenaphthene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Acenaphthylene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Anthracene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Azobenzene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Benzidine	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Benzo(a)anthracene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Benzo(a)pyrene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Benzo(b&k)fluoranthene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Benzo(b)fluoranthene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Benzo(g,h,i)perylene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Benzo(k)fluoranthene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Bis(2-chloroethoxy) methane	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Bis(2-chloroethyl) ether	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Bis(2-chloroisopropyl) ether	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Bis(2-ethylhexyl) phthalate	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Butyl benzyl phthalate	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Chrysene	< 10 ug/L		07/26/11 20:31	jk	EPA 625

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PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: 1072706-05
Sample Description: MSD 004

Collect Date: 07/22/11 12:30
Matrix: Waste Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Dibenzo(a,h)anthracene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Diethyl phthalate	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Dimethyl phthalate	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Di-n-butyl phthalate	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Di-n-octyl phthalate	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Diphenylamine	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Fluoranthene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Fluorene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Hexachlorobenzene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Hexachlorobutadiene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Hexachlorocyclopentadiene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Hexachloroethane	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Indeno(1,2,3-cd)pyrene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Isophorone	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Naphthalene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Nitrobenzene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Surrogate: Nitrobenzene-d5	*55 % 10.1-104*		*07/26/11 20:31*	*jk*	*EPA 625*
N-Nitrosodimethylamine	< 10 ug/L		07/26/11 20:31	jk	EPA 625
N-Nitrosodi-n-propylamine	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Pentachlorophenol	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Phenanthrene	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Phenol	< 10 ug/L		07/26/11 20:31	jk	EPA 625
Surrogate: Phenol- d6	*15 % 10-42.9*		*07/26/11 20:31*	*jk*	*EPA 625*
Surrogate: p-Terphenyl-d14	*60 % 10-111*		*07/26/11 20:31*	*jk*	*EPA 625*
Pyrene	< 10 ug/L		07/26/11 20:31	jk	EPA 625

Sample No: 1072706-06
Sample Description: MSD 004 grab

Collect Date: 07/22/11 12:30
Matrix: Waste Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	7.03 pH Units		07/22/11 12:30	LLO	SM
Temperature, Field Measured	25.2 °C		07/22/11 12:30	LLO	SM
Volatile Organics - STL					
1,1,1-Trichloroethane	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624

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3278 N. Highway 67 - Florissant, MO 63033
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ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: 1072706-06
Sample Description: MSD 004 grab

Collect Date: 07/22/11 12:30
Matrix: Waste Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Volatile Organics - STL					
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
1,1,2-Trichloroethane	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
1,1-Dichloroethane	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
1,1-Dichloroethene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
1,2-Dichlorobenzene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
1,2-Dichloroethane	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*87 % 64.1-106*		*07/27/11 20:37*	*BP*	*EPA 624*
1,2-Dichloropropane	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
1,3-Dichlorobenzene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
1,4-Dichlorobenzene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
2-Chloroethylvinyl ether	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Acrolein	< 25 ug/L		07/27/11 20:37	BP	EPA 624
Acrylonitrile	< 10 ug/L		07/27/11 20:37	BP	EPA 624
Benzene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Bromodichloromethane	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Surrogate: Bromofluorobenzene	*88 % 62.4-111*		*07/27/11 20:37*	*BP*	*EPA 624*
Bromoform	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Bromomethane	< 10 ug/L		07/27/11 20:37	BP	EPA 624
Carbon tetrachloride	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Chlorobenzene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Chloroethane	< 10 ug/L		07/27/11 20:37	BP	EPA 624
Chloroform	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Chloromethane	< 10 ug/L		07/27/11 20:37	BP	EPA 624
cis-1,3-Dichloropropene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Dibromochloromethane	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Ethylbenzene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
m,p-Xylene	< 10 ug/L		07/27/11 20:37	BP	EPA 624
Methylene chloride	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
o-Xylene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Tetrachloroethene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Toluene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Surrogate: Toluene-d8	*85 % 69-98.1*		*07/27/11 20:37*	*BP*	*EPA 624*
trans-1,2-Dichloroethene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
trans-1,3-Dichloropropene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Trichloroethene	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Trichlorofluoromethane	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624
Vinyl chloride	< 5.0 ug/L		07/27/11 20:37	BP	EPA 624

1072706

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: 1072706-07
Sample Description: MSD 002

Collect Date: 07/22/11 11:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	43 mg/L	X	07/22/11 11:49	DWM	SM 5210B 18Ed
COD	160 mg/L		07/25/11 09:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	33 mg/L		07/25/11 17:00	ACV	SM 2540D 18Ed
Semivolatile Organics - STL					
1,2,4-Trichlorobenzene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
1,2-Dichlorobenzene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
1,3-Dichlorobenzene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
1,4-Dichlorobenzene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
2,4,5-Trichlorophenol	< 10 ug/L		07/27/11 01:10	jk	EPA 626
Surrogate: 2,4,6-Tribromophenol	*67 % 10-93*		*07/27/11 01:10*	*jk*	*EPA 625*
2,4,6-Trichlorophenol	< 10 ug/L		07/27/11 01:10	jk	EPA 625
2,4-Dichlorophenol	< 10 ug/L		07/27/11 01:10	jk	EPA 625
2,4-Dimethylphenol	< 10 ug/L		07/27/11 01:10	jk	EPA 625
2,4-Dinitrophenol	< 10 ug/L		07/27/11 01:10	jk	EPA 625
2,4-Dinitrotoluene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
2,6-Dimethylaniline	< 5.0 ug/L		07/27/11 01:10	jk	EPA 625
2,6-Dinitrotoluene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
2-Chloronaphthalene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
2-Chlorophenol	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	*63 % 10-110*		*07/27/11 01:10*	*jk*	*EPA 625*
Surrogate: 2-Fluorophenol	*18 % 10-46.4*		*07/27/11 01:10*	*jk*	*EPA 625*
2-Nitrophenol	< 10 ug/L		07/27/11 01:10	jk	EPA 625
3,3'-Dichlorobenzidine	< 10 ug/L		07/27/11 01:10	jk	EPA 625
4,6-Dinitro-2-methylphenol	< 10 ug/L		07/27/11 01:10	jk	EPA 625
4-Bromophenylphenyl ether	< 10 ug/L		07/27/11 01:10	jk	EPA 625
4-Chloro-3-methylphenol	< 10 ug/L		07/27/11 01:10	jk	EPA 625
4-Chlorophenylphenyl ether	< 10 ug/L		07/27/11 01:10	jk	EPA 625
4-Nitrophenol	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Acenaphthene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Acenaphthylene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Anthracene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Azobenzene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Benzidine	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Benzo(a)anthracene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Benzo(a)pyrene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Benzo(b&k)fluoranthene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Benzo(b)fluoranthene	< 10 ug/L		07/27/11 01:10	jk	EPA 625

1072706

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3278 N. Highway 67 - Florissant, MO 63033
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ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3635 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: **1072706-07**
Sample Description: **MSD 002**

Collect Date: **07/22/11 11:00**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Benzo(g,h,i)perylene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Benzo(k)fluoranthene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Bis(2-chloroethoxy) methane	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Bis(2-chloroethyl) ether	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Bis(2-chloroisopropyl) ether	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Bis(2-ethylhexyl) phthalate	24 ug/L		07/27/11 01:10	jk	EPA 625
Butyl benzyl phthalate	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Chrysene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Dibenzo(a,h)anthracene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Diethyl phthalate	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Dimethyl phthalate	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Di-n-butyl phthalate	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Di-n-octyl phthalate	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Diphenylamine	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Fluoranthene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Fluorene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Hexachlorobenzene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Hexachlorobutadiene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Hexachlorocyclopentadiene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Hexachloroethane	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Indeno(1,2,3-cd)pyrene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Isophorone	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Naphthalene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Nitrobenzene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Surrogate: Nitrobenzene-d5	*64 % 10.1-104*		*07/27/11 01:10*	*jk*	*EPA 625*
N-Nitrosodimethylamine	< 10 ug/L		07/27/11 01:10	jk	EPA 625
N-Nitrosodi-n-propylamine	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Pentachlorophenol	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Phenanthrene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Phenol	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Surrogate: Phenol- d5	*17 % 10-42.9*		*07/27/11 01:10*	*jk*	*EPA 625*
Surrogate: p-Terphenyl-d14	*60 % 10-111*		*07/27/11 01:10*	*jk*	*EPA 625*
Pyrene	< 10 ug/L		07/27/11 01:10	jk	EPA 625
Total Metals - STL					
Silver	< 0.0020 mg/L		07/28/11 11:15	WPS	EPA 200.7 R4.4

1072706

PDC Laboratories, Inc.
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St. Louis University Hospital
3635 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: 1072706-09
Sample Description: MSD 002 grab

Collect Date: 07/22/11 11:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	7.62 pH Units		07/22/11 11:00	LLO	SM
Temperature, Field Measured	29.6 °C		07/22/11 11:60	LLO	SM
General Chemistry - STL					
Oil & Grease - total	6.6 mg/L		07/28/11 09:35	MEP	EPA 1664A
Volatile Organics - STL					
1,1,1-Trichloroethane	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
1,1,2-Trichloroethane	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
1,1-Dichloroethane	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
1,1-Dichloroethene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
1,2-Dichlorobenzene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
1,2-Dichloroethane	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*88 % 64.1-106*		*07/27/11 16:31*	*BP*	*EPA 624*
1,2-Dichloropropane	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
1,3-Dichlorobenzene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
1,4-Dichlorobenzene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
2 Chloroethylvinyl ether	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Acrolein	< 25 ug/L		07/27/11 16:31	BP	EPA 624
Acrylonitrile	< 10 ug/L		07/27/11 16:31	BP	EPA 624
Benzene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Bromodichloromethane	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Surrogate: Bromofluorobenzene	*88 % 62.4-111*		*07/27/11 16:31*	*BP*	*EPA 624*
Bromoform	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Bromomethane	< 10 ug/L		07/27/11 16:31	BP	EPA 624
Carbon tetrachloride	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Chlorobenzene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Chloroethane	< 10 ug/L		07/27/11 16:31	BP	EPA 624
Chloroform	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Chloromethane	< 10 ug/L		07/27/11 16:31	BP	EPA 624
cis-1,3 Dichloropropene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Dibromochloromethane	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Ethylbenzene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
m,p-Xylene	< 10 ug/L		07/27/11 16:31	BP	EPA 624
Methylene chloride	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
o-Xylene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Tetrachloroethene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Toluene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624

1072708

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: **1072706-08**
Sample Description: **MSD 002 grab**

Collect Date: **07/22/11 11:00**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Volatile Organics - STL					
Surrogate: Toluene-d8	*85 % 69-98.1*		*07/27/11 16:31*	*BP*	*EPA 624*
trans-1,2-Dichloroethene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
trans-1,3-Dichloropropene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Trichloroethene	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Trichlorofluoromethane	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624
Vinyl chloride	< 5.0 ug/L		07/27/11 16:31	BP	EPA 624

Sample No: **1072706-09**
Sample Description: **MSD 003**

Collect Date: **07/22/11 13:00**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	130 mg/L	X	07/22/11 14:00	DWM	SM 5210B 18Ed
COD	390 mg/L		07/25/11 09:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	180 mg/L		07/25/11 17:00	ACV	SM 2540D 18Ed
Semivolatile Organics - STL					
1,2,4-Trichlorobenzene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
1,2-Dichlorobenzene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
1,3-Dichlorobenzene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
1,4-Dichlorobenzene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
2,4,5-Trichlorophenol	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	*30 % 10-93*		*07/27/11 02:43*	*jk*	*EPA 625*
2,4,6-Trichlorophenol	< 10 ug/L		07/27/11 02:43	jk	EPA 625
2,4-Dichlorophenol	< 10 ug/L		07/27/11 02:43	jk	EPA 625
2,4-Dimethylphenol	< 10 ug/L		07/27/11 02:43	jk	EPA 625
2,4-Dinitrophenol	< 10 ug/L		07/27/11 02:43	jk	EPA 625
2,4-Dinitrotoluene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
2,6-Dimethylaniline	< 5.0 ug/L		07/27/11 02:43	jk	EPA 625
2,6-Dinitrotoluene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
2-Chloronaphthalene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
2-Chlorophenol	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	*48 % 10-110*		*07/27/11 02:43*	*jk*	*EPA 625*
Surrogate: 2-Fluorophenol	*12 % 10-46.4*		*07/27/11 02:43*	*jk*	*EPA 625*
2-Nitrophenol	< 10 ug/L		07/27/11 02:43	jk	EPA 625
3,3'-Dichlorobenzidine	< 10 ug/L		07/27/11 02:43	jk	EPA 625

1072706

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382.

Sample No: **1072706-09**
Sample Description: **MSD 005**

Collect Date: **07/22/11 13:00**
Matrix: **Waste Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
4,6-Dinitro-2-methylphenol	< 10 ug/L		07/27/11 02:43	jk	EPA 625
4-Bromophenylphenyl ether	< 10 ug/L		07/27/11 02:43	jk	EPA 625
4-Chloro-3-methylphenol	< 10 ug/L		07/27/11 02:43	jk	EPA 625
4-Chlorophenylphenyl ether	< 10 ug/L		07/27/11 02:43	jk	EPA 625
4-Nitrophenol	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Acenaphthene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Acenaphthylene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Anthracene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Azobenzene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Benzidine	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Benzo(a)anthracene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Benzo(a)pyrene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Benzo(b&k)fluoranthene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Benzo(b)fluoranthene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Benzo(g,h,i)perylene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Benzo(k)fluoranthene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Bis(2-chloroethoxy) methane	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Bis(2-chloroethyl) ether	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Bis(2-chloroisopropyl) ether	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Bis(2-ethylhexyl) phthalate	11 ug/L		07/27/11 02:43	jk	EPA 625
Butyl benzyl phthalate	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Chrysene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Dibenzo(a,h)anthracene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Diethyl phthalate	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Dimethyl phthalate	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Di-n-butyl phthalate	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Di-n-octyl phthalate	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Diphenylamine	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Fluoranthene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Fluorene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Hexachlorobenzene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Hexachlorobutadiene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Hexachlorocyclopentadiene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Hexachloroethane	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Indeno(1,2,3-cd)pyrene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Isophorone	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Naphthalene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Nitrobenzene	< 10 ug/L		07/27/11 02:43	jk	EPA 625

1072706

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: 1072706-09
Sample Description: MSD 005

Collect Date: 07/22/11 13:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Surrogate: Nitrobenzene-d5	*46 % 10.1-104*		*07/27/11 02:43*	*jk*	*EPA 625*
N-Nitrosodimethylamine	< 10 ug/L		07/27/11 02:43	jk	EPA 625
N-Nitrosodi-n-propylamine	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Pentachlorophenol	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Phenanthrene	< 10 ug/L		07/27/11 02:43	jk	EPA 625
Phenol	10 ug/L		07/27/11 02:43	jk	EPA 625
Surrogate: Phenol- d5	*10 % 10-42.9*		*07/28/11 12:21*	*jk*	*EPA 625*
Surrogate: p-Terphenyl-d14	*39 % 10-111*		*07/27/11 02:43*	*jk*	*EPA 625*
Pyrene	< 10 ug/L		07/27/11 02:43	jk	EPA 625

Sample No: 1072706-10
Sample Description: MSD 005 grab

Collect Date: 07/22/11 12:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	8.24 pH Units		07/22/11 13:00	LLO	SM
Temperature, Field Measured	27.4 °C		07/22/11 13:00	LLO	SM
General Chemistry - STL					
Oil & Grease - total	24 mg/L		07/26/11 09:35	MEP	EPA 1664A
Volatile Organics - STL					
1,1,1-Trichloroethane	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
1,1,2-Trichloroethane	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
1,1-Dichloroethane	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
1,1-Dichloroethene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
1,2-Dichlorobenzene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
1,2-Dichloroethane	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Surrogate: 1,2-Dichloroethane-d4	*98 % 64.1-106*		*07/27/11 17:10*	*BP*	*EPA 624*
1,2-Dichloropropane	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
1,3-Dichlorobenzene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
1,4-Dichlorobenzene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
2-Chloroethylvinyl ether	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Acrolein	< 25 ug/L		07/27/11 17:10	BP	EPA 624
Acrylonitrile	< 10 ug/L		07/27/11 17:10	BP	EPA 624
Benzene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624

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(314) 432-0550 - (800) 333-FAST (3278) FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Sample No: **1072706-10**
Sample Description: **MSD 005 grab**

Collect Date: **07/22/11 12:00**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Volatile Organics - STL					
Bromodichloromethane	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Surrogate: Bromofluorobenzene	*86 % 62.4-111*		*07/27/11 17:10*	*BP*	*EPA 624*
Bromoform	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Bromomethane	< 10 ug/L		07/27/11 17:10	BP	EPA 624
Carbon tetrachloride	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Chlorobenzene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Chloroethane	< 10 ug/L		07/27/11 17:10	BP	EPA 624
Chloroform	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Chloromethane	< 10 ug/L		07/27/11 17:10	BP	EPA 624
cis-1,3-Dichloropropene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Dibromochloromethane	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Ethylbenzene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
m,p-Xylene	< 10 ug/L		07/27/11 17:10	BP	EPA 624
Methylene chloride	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
o-Xylene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Tetrachloroethene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Toluene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Surrogate: Toluene-d8	*88 % 69-98.1*		*07/27/11 17:10*	*BP*	*EPA 624*
trans-1,2-Dichloroethene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
trans-1,3-Dichloropropene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Trichloroethene	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Trichlorofluoromethane	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624
Vinyl chloride	< 5.0 ug/L		07/27/11 17:10	BP	EPA 624

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(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 07/22/11 15:13
Report Date: 08/04/11
Customer #: 277382

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS EPA Lab No. E-10389

X Blank Correction (High)

Barbara G. Pandolfo

Certified by: Barb Pandolfo, Project Manager

1072706

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmatrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8070	FAX NUMBER	EMAIL ADDRESS		LOGIN # 1072706
		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUNDWATER, WWSL-SLUDGE, NAS-SOLID		LOGGED BY: BD
				LAB PROJ #
				TEMPLATE:
				PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles		REMARKS
MSD 001	7/21-22/11	11:30-11:30		X	WW	H2SO4,4C	X							
(Arnual)	↓	↓		X	WW	Cool 4C		X						pH = 8.31
				X	WW	HNO3			X					Temp = 30.9°C
				X	WW	Cool 4C					X			
	7/22/11	11:30	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	HCl, 4C						X		
MSD 003	7/21-22/11	12:00-12:00		X	WW	H2SO4,4C	X							pH = 8.01
(Annual)	↓	↓		X	WW	Cool 4C		X						Temp = 28.0°C
				X	WW	Cool 4C					X			
	7/22/11	12:00	X		WW	H2SO4, 4C				X				Field Charge
	↓	↓	X		WW	HCl, 4C						X		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/22/11	15:13	[signature]	7/22/11	15:13
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt 21.8 degrees C
Chill process started prior to receipt Y or N
Sample(s) received on ice Y or N
Proper bottles received in good condition Y or N
Bottles filled with adequate volume Y or N
Samples received within hold time(s) Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8070	FAX NUMBER	EMAIL ADDRESS		LOGIN # 1072706
		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID		LOGGED BY: BB; LAB PROJ #; TEMPLATE:; PROJ. MGR:

SAMPLE DESCRIPTION AS SHOWN ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles		REMARKS
MSD 002	7/21-22/11	11:00-11:00		X	WW	H2SO4,4C	X							
(Annual)	↓	↓		X	WW	Cool 4C		X						pH = 7.82
				X	WW	HNO3			X					Temp = 29.6°C
	↓	↓		X	WW	Cool 4C					X			
	7/22/11	11:00	X		WW	H2SO4, 4C				X				
	↓	↓	X		WW	HCl, 4C						X		
MSD 005	7/21-22/11	13:00-13:00		X	WW	H2SO4,4C	X							pH = 8.24
(Annual)	↓	↓		X	WW	Cool 4C		X						Temp = 27.4°C
	↓	↓		X	WW	Cool 4C					X			
	7/22/11	13:00	X		WW	H2SO4, 4C				X				Field Charge
	↓	↓	X		WW	HCl, 4C						X		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Data Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/22/11	15:13	[signature]	7/22/11	18:15
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	_____ degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8070	FAX NUMBER	EMAIL ADDRESS		LOGIN # 1072706
		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID		LOGGED BY: Bgf LAB PROJ # TEMPLATE: PROJ. MGR:

SAMPLE DESCRIPTION (AS YOU WANT IT DESIGNED)	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	TSS	Semivolatiles	Volatiles				REMARKS
MSD 004	7/21-22/11	12:30-12:30		X	WW	H2SO4,4C	X							
(Annual)	↓	↓		X	WW	Cool 4C		X						pH = 7.03
				X	WW	Cool 4C			X					Temp = 25.2C
	7/22/11	12:30	X		WW	HCl, 4C				X				
														Field Charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	7/22/11	15:13	[signature]	7/22/11	15:13
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	_____ degrees C
Chill process started prior to receip:	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

SR
10-26
10-31

MSD

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

Premise Address: 3635 & 3655 Vista Ave., St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☒(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		10/10-11/2011		10/10-11/2011		10/10-11/2011		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		10:15-10:15		10:00-10:00		10:30-10:30		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			77279		38639		4000	gpd
Biological Oxygen Demand	******	C	84		130		100	mg/l
Chemical Oxygen Demand	******	C	240		310		220	mg/l
Total Suspended Solids	******	C	82		120		49	mg/l
Oil and Grease	200	G	8.5		17		13	mg/l
Total Silver	0.5	C	0.0041		<0.0020			mg/l
pH value	5.5-11.5	G	8.69		8.04		8.29	units
Temperature	60	G	25.2		24.9		23.5	Deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

1

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10/25/2011 14:57 3142685563 SLUH BLDG SVCS PAGE 05/13

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

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Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☒(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨				10/10-11/2011				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨				10:45-10:45				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			612		2500			gpd
Biological Oxygen Demand	*******	C			120			mg/l
Chemical Oxygen Demand	*******	C			310			mg/l
Total Suspended Solids	*******	C			67			mg/l
Oil and Grease	200	G			17			mg/l
pH value	5.5-11.5	G			8.64			units
Temperature	60	G			21.4			Deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED

For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:

mj I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point(s) 004.

PART IV: GENERAL CERTIFICATION STATEMENTS

B DISCHARGE MONITORING REPORT CERTIFICATION

All permittees must sign and complete the information below:

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

Print or type name of signing official: MICHAEL JONES

Title: Chief Engineer Telephone: 314-577-8177

Signature: Michael Jones Date: 10-25-11

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0530 - (800) 333-FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 10/11/11 15:14
Report Date: 10/24/11
Customer #: 277382

Sample No: 1101077-01
Sample Description: MSD 001 Comp

Collect Date: 10/11/11 10:15
Matrix: Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	84 mg/L		10/12/11 12:21	DWM	SM 5210B 18Ed
COD	240 mg/L		10/17/11 10:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	82 mg/L		10/12/11 17:00	ACV	SM 2540D 18Ed
Total Metals - STL					
Silver	0.0041 mg/L		10/14/11 20:12	WPS	EPA 200.7 R4.4

Sample No: 1101077-02
Sample Description: MSD 001 Grab

Collect Date: 10/11/11 10:15
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	8.69 pH Units		10/11/11 10:15	LLO	SM
Temperature, Field Measured	25.2 °C		10/11/11 10:15	LLO	SM
General Chemistry - STL					
Oil & Grease - total	8.5 mg/L		10/18/11 10:00	MEP	EPA 1664A

Sample No: 1101077-03
Sample Description: MSD 002 Comp.

Collect Date: 10/11/11 10:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	130 mg/L		10/12/11 12:21	DWM	SM 5210B 18Ed
COD	310 mg/L		10/17/11 10:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	120 mg/L		10/12/11 17:00	ACV	SM 2540D 18Ed
Total Metals - STL					
Silver	< 0.0020 mg/L		10/14/11 20:17	WPS	EPA 200.7 R4.4

1101077

10/25/2011 14:57 3142685563 SLUH BLDG SVCS PAGE 01/13

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 10/11/11 15:14
Report Date: 10/24/11
Customer #: 277382

Sample No: 1101077-04
Sample Description: MSD 002 grab

Collect Date: 10/11/11 10:00
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	8.04 pH Units		10/11/11 10:00	LLO	SM
Temperature, Field Measured	24.9 °C		10/11/11 10:00	LLO	SM
General Chemistry - STL					
Oil & Grease - total	17 mg/L		10/18/11 10:00	MEP	EPA 1664A

Sample No: 1101077-05
Sample Description: MSD 003 Comp.

Collect Date: 10/11/11 10:30
Matrix: Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	100 mg/L		10/12/11 12:21	DWM	SM 5210B 18Ed
COD	220 mg/L		10/17/11 10:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	40 mg/L		10/12/11 17:00	ACV	SM 2540D 18Ed

Sample No: 1101077-06
Sample Description: MSD 003 grab

Collect Date: 10/11/11 10:30
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	8.29 pH Units		10/11/11 10:30	LLO	SM
Temperature, Field Measured	23.5 °C		10/11/11 10:30	LLO	SM
General Chemistry - STL					
Oil & Grease - total	13 mg/L		10/18/11 10:00	MEP	EPA 1664A

Sample No: 1101077-07
Sample Description: MSD 005 Comp.

Collect Date: 10/11/11 10:45
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	120 mg/L		10/12/11 12:21	DWM	SM 5210B 18Ed

1101077

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ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 10/11/11 15:14
Report Date: 10/24/11
Customer #: 277382

Sample No: 1101077-07
Sample Description: MSD 005 Comp.

Collect Date: 10/11/11 10:45
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
COD	310 mg/L		10/17/11 10:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	67 mg/L		10/12/11 17:00	ACV	SM 2540D 18Ed

Sample No: 1101077-08
Sample Description: MSD 005 grab

Collect Date: 10/11/11 10:45
Matrix: Waste Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	8.64 pH Units		10/11/11 10:45	LLO	SM
Temperature, Field Measured	21.4 °C		10/11/11 10:45	LLO	SM
General Chemistry - STL					
Oil & Grease - total	17 mg/L		10/18/11 10:00	MEP	EPA 1664A

Sample No: 1101077-09
Sample Description: ABI MSD 001

Collect Date: 10/11/11 11:00
Matrix: Waste Water Composite

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
COD	300 mg/L		10/17/11 10:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	68 mg/L		10/12/11 17:00	ACV	SM 2540D 18Ed
Total Metals - STL					
Chromium	< 0.0020 mg/L		10/14/11 20:23	WPS	EPA 200.7 R4.4
Silver	< 0.0020 mg/L		10/14/11 20:23	WPS	EPA 200.7 R4.4

1101077

10/25/2011 14:57 3142685563 SLUH BLDG SVCS PAGE 03/13

PDC Laboratories, Inc.
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(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 10/11/11 15:14
Report Date: 10/24/11
Customer #: 277382

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
Wastewater Certifications: Arkansas (88-0877); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0877); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification: Iowa (240)
SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS EPA Lab No. E-10389

Barbara G. Pandolfo

Certified by: Barb Pandolfo, Project Manager

1101077

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER 314-577-8070	FAX NUMBER	EMAIL ADDRESS		LOGIN # 1101077
		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID		LOGGED BY: HE
				LAB PROJ #
				TEMPLATE:
				PROJ. MGR:

SAMPLE DESCRIPTION AS SUBMITTED ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease				REMARKS
MSD 001	10/10-11/11	10:15-10:15		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.69
				x	WW	HNO3			x					Temp = 25.2°C
	10/11/11	10:15	x		WW	H2SO4, 4C				x				
MSD 002	10/10-11/11	10:00-10:00		x	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		x	WW	Cool 4C		x						pH = 8.04
				x	WW	HNO3			x					Temp = 24.9°C
	10/11/11	10:00	x		WW	H2SO4, 4C				x				
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (5-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fast Rush (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Data Due: _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	10/11/11	15:00	Heather Earhart	10/11/11	15:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt: 3.9 degrees C
Chill process started prior to receipt: Y or N
Sample(s) received on ice: Y or N
Proper bottles received in good condition: Y or N
Bottles filled with adequate volume: Y or N
Samples received within hold time(s): Y or N
Date and Time taken from sample bottle: Y or N (Excludes typical field parameters)

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
PHONE NUMBER: 314-577-8070	FAX NUMBER	EMAIL / ADDRESS		LOGIN #: LOGGED BY: LAB PROJ #: TEMPLATE: PROJ. MGR:

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WMSL-SLUDGE, NAS-SOLID

SAMPLE DESCRIPTION (15 CHARACTERS OR LESS)	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease				REMARKS
MSD 003	10/10-11/11	10:30-10:30		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.29
	10/11/11	10:30	X		WW	H2SO4, 4C				X				Temp = 23.58
MSD 005	10/10-11/11	10:45-10:45		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.64
	10/11/11	10:45	X		WW	H2SO4, 4C				X				Temp = 21.49C
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
☐ Normal (4-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Expedited (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day
Data Due: _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at this lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-8.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date: 10/11/11	Time: 15:00	RECEIVED BY: Heather Eaton	Date: 10/11/11	Time: 15:00
RELINQUISHED BY: (Signature)	Date:	Time:	RECEIVED BY:	Date:	Time:
RELINQUISHED BY: (Signature)	Date:	Time:	RECEIVED BY:	Date:	Time:
RELINQUISHED BY: (Signature)	Date:	Time:	RECEIVED BY:	Date:	Time:

COMMENTS: (FOR LAB USE ONLY):

Sample Temperature upon receipt		degrees C
Chill process started prior to receipt	Y or N	
Sample(s) received on ice	Y or N	
Proper bottles received in good condition	Y or N	
Bottles filled with adequate volume	Y or N	
Samples received within hold time(s)	Y or N	(Excludes typical field parameters)
Date and Time taken from sample bottle		

MSD
Caroline Building - Room C305
1402 South Grand Blvd.
St. Louis, MO 63104-1085
Fax 314-977-5560
www.slu.edu

SAINT LOUIS
UNIVERSITY

Office of Environmental Safety & Service
Environmental Safety: 314-977-8608
Radiation Safety: 314-977-8609

October 21, 2011

411219510 0

Douglas M. Mendoza
Industrial Waste Engineer
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(FAX #: 436-8753)

SUBJECT: Quarterly Reports Of Radionuclide Discharge For The Period July - September 2011

Dear Mr. Mendoza:

Attached you will find copies of the MSD Industrial User Radioactive Materials Discharge Reports for all Saint Louis University and affiliated facilities. Copies of some of these reports for which wastewater permits are held have been forwarded to Mr. Todd Stirewalt (Anheuser Busch Institute, Saint Louis University Hospital).

In order to avoid confusion, any discharges from the laboratories in Cardinal Glennon Hospital's basement (which had at one time been reported to you by Cardinal Glennon) will be incorporated into this report.

If you have any questions regarding these reports, please contact me at 977-6896.

Sincerely,

Kevin Ferguson
Health Physicist

RECEIVED
OCT 2[illegible] 20[illegible]
DIVISION OF
ENVIRONMENTAL COMP[illegible]

M[illegible]ROPOLITAN ST. LOUIS SEWER DISTI[illegible]T
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ■(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

[illegible] I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

RECEIVED
OCT 2 6 20[illegible]
DIVISION OF
ENVIRONMENTAL [illegible]

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: [illegible] Date: 10/21/1[illegible]

Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

MSD

May 4, 2011

Skip Bowders
Energy Center Supervisor
ST. LOUIS UNIVERSITY HOSPITAL
3635 Vista Avenue
P.O. Box 15250
St. Louis, MO 63110-0250

Re: Discharge Permit No: 4112195100 - 2
For premise at: 3635 & 3655 Vista Avenue
St. Louis, MO 63110

Dear Mr. Bowders:

The Metropolitan St. Louis Sewer District Wastewater Discharge permit for the above premise expires on December 31, 2011. Under the terms of the permit, you must apply for renewal at least 180 days prior to the expiration date.

We have enclosed an Industrial User Questionnaire form and instructions. You also may download an electronic version from MSD's website at www.stlmsd.com. This questionnaire serves as your permit application. Please complete and return the questionnaire to us no later than July 1, 2011. You may skip Section G of the questionnaire. Please retain a copy for your files.

We will use the questionnaire and our records on your facility to prepare a draft permit. The draft permit will be sent to you for comment, prior to sending a final permit.

We appreciate your cooperation and support in helping us to comply with the federal regulations. If you have any questions or need assistance in completing the questionnaire, please contact me at 314.436.8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

SM Rehmer

Scott M. Rehmer
Assistant Engineer

Enclosures: IUQ form, instructions

cc: Doug Mendoza
Mike Kynion

SAINT LOUIS
UNIVERSITY

Caroline Building - Room C305
1402 South Grand Blvd.
St. Louis, MO 63104-1085
Fax 314-977-5560
www.slu.edu

Office of Environmental Safety & Services
Environmental Safety: 314-977-8608
Radiation Safety: 314-977-8609

MSD SR

April 27, 2011

Douglas M. Mendoza
Industrial Waste Engineer
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(FAX #: 436-8753)

SUBJECT: Quarterly Reports Of Radionuclide Discharge For The Period Jan. - March 2011

Dear Mr. Mendoza:

Attached you will find copies of the MSD Industrial User Radioactive Materials Discharge Reports for all Saint Louis University and affiliated facilities. Copies of some of these reports for which wastewater permits are held have been forwarded to Mr. Todd Stirewalt (Anheuser Busch Institute, Saint Louis University Hospital).

In order to avoid confusion, any discharges from the laboratories in Cardinal Glennon Hospital's basement (which had at one time been reported to you by Cardinal Glennon) will be incorporated into this report.

If you have any questions regarding these reports, please contact me at 977-6896.

Sincerely,

Kevin Ferguson
Health Physicist

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MAY 04 2011
DIVISION OF
ENVIRONMENTAL COMPLIANCE

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ■(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

☒ I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

RECEIVED
MAY 04 2011
DIVISION OF ENVIRONMENTAL COMPLIANCE

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 4/27/11

MSD

SR 4-22

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

Premise Address: 3635 & 3655 Vista Ave., St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨			001		002		003	
DATES ON WHICH SAMPLES WERE COLLECTED ⇨			04/06-07/2011		04/06-07/2011		04/06-07/2011	
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨			13:00-13:00		14:00-14:00		13:15-13:15	
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab. C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			77279		38639		4000	gpd
Biological Oxygen Demand	******	C	130		100		340	mg/l
Chemical Oxygen Demand	******	C	290		210		680	mg/l
Total Suspended Solids	*******	C	81		41		97	mg/l
Oil and Grease	200	G	11		14		28	mg/l
Total Silver	0.5	C	0.018		<0.002			mg/l
pH value	5.5-11.5	G	7.92		7.85		7.69	units
Temperature	60	G	20.2		21.2		19.2	Deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

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APR 22 2011

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ENVIRONMENTAL COMPLIANCE

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

Premise Address: 3635 & 3655 Vista Ave., St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨				04/06-07/2011				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨				13:30-13:30				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			612		2500			gpd
Biological Oxygen Demand	*******	C			100			mg/l
Chemical Oxygen Demand	*******	C			260			mg/l
Total Suspended Solids	*******	C			33			mg/l
Oil and Grease	200	G			21			mg/l
pH value	5.5-11.5	G			8.67			units
Temperature	60	G			11.7			Deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	____ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point(s) 004.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: ____
	Title: ____ Telephone: ____
	Signature: ____ Date: 4/12/2011

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DIVISION OF
ENVIRONMENTAL COMPLIANCE

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 04/07/11 16:50
Report Date: 04/21/11
Customer #: 277382

Sample No: **1040897-01**
Sample Description: **MSD 001**

Collect Date: **04/07/11 13:00**
Matrix: **Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	130 mg/L		04/08/11 08:54	DWM	SM 5210B 18Ed
COD	290 mg/L		04/11/11 09:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	81 mg/L		04/12/11 17:00	ACV	SM 2540D 18Ed
Total Metals - STL					
Silver	0.018 mg/L		04/11/11 12:39	WPS	EPA 200.7 R4.4

Sample No: **1040897-02**
Sample Description: **MSD 001**

Collect Date: **04/07/11 13:00**
Matrix: **Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	7.92 pH Units		04/07/11 13:00	FIELD	SM
Temperature, Field Measured	20.2 °C		04/07/11 13:00	FIELD	SM
General Chemistry - STL					
Oil & Grease - total	11 mg/L		04/13/11 08:04	MEP	EPA 1664A

Sample No: **1040897-03**
Sample Description: **MSD 002**

Collect Date: **04/07/11 14:00**
Matrix: **Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	100 mg/L		04/08/11 08:54	DWM	SM 5210B 18Ed
COD	210 mg/L		04/11/11 09:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	41 mg/L		04/12/11 17:00	ACV	SM 2540D 18Ed
Total Metals - STL					
Silver	< 0.0020 mg/L		04/11/11 12:43	WPS	EPA 200.7 R4.4

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DIVISION OF
ENVIRONMENTAL COMPLIANCE

1040897

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 04/07/11 16:50
Report Date: 04/21/11
Customer #: 277382

Sample No: **1040897-04**
Sample Description: **MSD 002**

Collect Date: **04/07/11 14:00**
Matrix: **Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	7.85 pH Units		04/07/11 14:00	LLO	SM
Temperature, Field Measured	21.2 °C		04/07/11 14:00	LLO	SM
General Chemistry - STL					
Oil & Grease - total	14 mg/L		04/13/11 08:04	MEP	EPA 1664A

Sample No: **1040897-05**
Sample Description: **MSD 003**

Collect Date: **04/07/11 13:15**
Matrix: **Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	340 mg/L		04/08/11 08:54	DWM	SM 5210B 18Ed
COD	680 mg/L		04/11/11 09:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	97 mg/L		04/12/11 17:00	ACV	SM 2540D 18Ed

Sample No: **1040897-06**
Sample Description: **MSD 003**

Collect Date: **04/07/11 13:15**
Matrix: **Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	7.69 pH Units		04/07/11 13:15	LLO	SM
Temperature, Field Measured	19.2 °C		04/07/11 13:15	LLO	SM
General Chemistry - STL					
Oil & Grease - total	28 mg/L		04/13/11 08:04	MEP	EPA 1664A

Sample No: **1040897-07**
Sample Description: **MSD 005**

Collect Date: **04/07/11 13:30**
Matrix: **Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	100 mg/L		04/08/11 08:54	DWM	SM 5210B 18Ed

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 04/07/11 16:50
Report Date: 04/21/11
Customer #: 277382

Sample No: **1040897-07**
Sample Description: **MSD 005**

Collect Date: **04/07/11 13:30**
Matrix: **Water Composite**

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
COD	260 mg/L		04/11/11 09:00	ACV	SM 5220D 18Ed
Solids - total suspended solids (TSS)	33 mg/L		04/12/11 17:00	ACV	SM 2540D 18Ed

Sample No: **1040897-08**
Sample Description: **MSD 005**

Collect Date: **04/07/11 13:30**
Matrix: **Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Field - STL					
pH	8.67 pH Units		04/07/11 13:30	LLO	SM
Temperature, Field Measured	11.7 °C		04/07/11 13:30	LLO	SM
General Chemistry - STL					
Oil & Grease - total	21 mg/L		04/13/11 08:04	MEP	EPA 1664A

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St. Louis University Hospital
3655 Vista Ave
St. Louis, MO 63110
Attn: Skip Bowders

Date Received: 04/07/11 16:50
Report Date: 04/21/11
Customer #: 277382

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing

Barbara G. Pandolfo

Certified by: Barb Pandolfo, Project Manager

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED
PHONE NUMBER 314-577-8070	FAX NUMBER	EMAIL ADDRESS

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

(FOR LAB USE ONLY)
LOGIN # 1040897
LOGGED BY: KH
LAB PROJ #
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease				REMARKS
MSD 001	4/6-7/11	13:00-13:00		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 7.92
				X	WW	HNO3			X					Temp = 20.2°C
	4/7/11	13:00	X		WW	H2SO4, 4C				X				
MSD 002	4/6-7/11	14:00-14:00		X	WW	H2SO4,4C	X							
(Quarterly)	↓	14:00-14:00		X	WW	Cool 4C		X						pH = 7.85
	↓	↓		X	WW	HNO3			X					Temp = 21.2°C
	4/7/11	14:00	X		WW	H2SO4, 4C				X				
														Field charge

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DIVISION OF ENVIRONMENTAL COMPLIANCE

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ *Fastrak*™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	4/7/11	16:50	[signature]	4/8/11	9:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	4.0 degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

PDC Laboratories, Inc. – St. Louis
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Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[redacted]	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED
	PHONE NUMBER 314-577-8070	FAX NUMBER	EMAIL ADDRESS
	[redacted]		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID

ANALYSIS REQUESTED

(FOR LAB USE ONLY)
LOGIN # 164089
LOGGED BY: KH
LAB PROJ #
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	C	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease				REMARKS
MSD 003	4/6-7/11	13:15-13:15		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 7.69
	4/7/11	13:15	X		WW	H2SO4, 4C				X				Temp = 19.2°C
MSD 005	4/6-7/11	13:30-13:30		X	WW	H2SO4,4C	X							
(Quarterly)	↓	↓		X	WW	Cool 4C		X						pH = 8.67
	4/7/11	13:30	X		WW	H2SO4, 4C				X				Temp = 11.7°C
														Field charge

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ *Fastrak*™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	4/7/11	16:50	[signature]	4/8/11	9:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	4.0 degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

MSD

SR
2-1

Caroline Building - Room C305
1402 South Grand Blvd.
St. Louis, MO 63104-1085
Fax 314-977-5560
www.slu.edu

SAINT LOUIS
UNIVERSITY

Office of Environmental Safety & Service
Environmental Safety: 314-977-8608
Radiation Safety: 314-977-8609

January 26, 2011

Douglas M. Mendoza
Industrial Waste Engineer
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(FAX #: 436-8753)

SUBJECT: Quarterly Reports Of Radionuclide Discharge For The Period Oct. - Dec. 2010

Dear Mr. Mendoza:

Attached you will find copies of the MSD Industrial User Radioactive Materials Discharge Reports for all Saint Louis University and affiliated facilities. Copies of some of these reports for which wastewater permits are held have been forwarded to Mr. Todd Stirewalt (Anheuser Busch Institute, Saint Louis University Hospital).

In order to avoid confusion, any discharges from the laboratories in Cardinal Glennon Hospital's basement (which had at one time been reported to you by Cardinal Glennon) will be incorporated into this report.

If you have any questions regarding these reports, please contact me at 977-6896.

Sincerely,

Kevin Ferguson
Health Physicist

RECEIVED
JAN 31
DIVISION OF
ENVIRONMENTAL CONTROL

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ■(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

☑ I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

RECEIVED
JAN 2[illegible]
DIVISION OF ENVIRONMENTAL COMPLIANCE

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 1/26/[illegible]

MSD

SR
1-18

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

Premise Address: 3635 & 3655 Vista Ave., St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☒(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED		12/08-09/2010		12/08-09/2010		12/08-09/2010		
TIMES AT WHICH SAMPLES WERE COLLECTED		12:30-12:30		12:00-12:00		13:00-13:00		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			77 K		38 K		4 K	GPD
Biological Oxygen Demand	******	C	80	C	230	C	99	mg/l
Chemical Oxygen Demand	*******	C	250	C	730	C	390	mg/l
Total Suspended Solids	*******	C	48	C	100	C	50	mg/l
Oil and Grease	200	G	8.4	G	85	G	19	mg/l
Total Silver	0.5	C	0.021	C	<0.0015	G		mg/l
pH value	5.5-11.5	G	8.48	G	7.33	G	9.23	units
Temperature	60	G	15.2	G	20.3	G	16.6	Deg C
Total Toxic Organics	5.844	G,C						mg/l

*flows provided per fax from P. Bowders on 1-18-11. SR

You must complete and sign the certification statements on the second page.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

Premise Address: 3635 & 3655 Vista Ave., St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☒(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨				12/08-09/2010				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨				13:30-13:30				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			600		2,500			GPD
Biological Oxygen Demand	*******	C		C	210			mg/l
Chemical Oxygen Demand	*******	C		C	370			mg/l
Total Suspended Solids	*******	C		C	45			mg/l
Oil and Grease	200	G		G	25			mg/l
pH value	5.5-11.5	G		G	8.65			units
Temperature	60	G		G	12.8			Deg C
Total Toxic Organics	5.844	G,C						mg/l

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	_____ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point(s) 004.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: _____
	Title: _____ Telephone: _____
	Signature: _____ Date: 1/12/2010

METROPOLITAN ST. LOUIS SEWER DISTRICT **MSD**
INDUSTRIAL FACILITY REINSPECTION REPORT

Company: St. Louis University Hospital Account #: 4112195100
Premise Address: 3635 & 3655 Vista Avenue Zip Code: 63110
MSD Classes: SIU ☒ CIU ☐ Surch ☐ Potential Toxic Waste ☒ Non-Toxic Proc Waste ☐
No Process Flow ☐ Multi-User ☐ Special Handling/Billing ☐
Company Representative: Skip Bowders
Title: Energy Center Supervisor Phone#: 314-577-8070
Inspector: Mike Kynion
Others Present: None
Inspection Date: 12/7/10 Time: From 8:45 AM To 10:15 AM (Last Insp. 9/28/09)

NOTE: ALL ITEMS ARE TO BE COMPLETED BASED ON EVENTS SINCE LAST INSPECTION. ANSWERS ARE BASED ON INFORMATION OBTAINED OR PROVIDED BY COMPANY DURING INSPECTION, AS WELL AS INFORMATION IN FILE.

***** DATABASE ALSO UPDATED WITH APPROPRIATE CHANGES - see attached database reports *****

1. A. ARE THERE ADDITIONAL NON-STORMWATER ACCOUNT NUMBERS? Yes☒ No☐
   List them, note any changes: 41121950-01, 9001536-01
   B. Did all acct no's have water usage on PIMS? Yes☒ No☐
   C. If no to B, explain: _____

2. PROCESSES & CLEANUP/WASHDOWN:

	Cont/ Batch		Water Used?	Frequency of discharge	Sample pt.
Hospital care/surgical operations	Cont		Yes	Daily	001, 002
Clinical & research labs	Cont		Yes	Daily	001, 002
In-patient psychiatric care & cancer treatment	Cont		Yes	Daily	001,002,003, 005
Kitchen waste	Batch		Yes	Daily	001
	(None)		N/A		
	(None)		N/A		

3. PRETREATMENT (other than grease traps) - describe:

	Sample pt.
Silver recovery (electrolytic & metallic replacement	001,002

4. DOES COMPANY HAVE ANY GREASE TRAPS? Yes☒ No☐
If yes: A. List sample points: SP001
B. What is the frequency for cleaning & maintenance? Quarterly
C. Are any additives used in traps? Yes☐ No☒
D. If yes to C, was co. warned MSD will bill them for blockages they cause? Yes☐ No☐
E. Was co. informed that MSD performs separate grease trap inspections? Yes☒ No☐

5. HAS COMPANY CONSTRUCTED NEW BLDGS/ADDITIONS WITH SEWERS SINCE LAST INSP? Yes☐ No☒
If yes: A. Ask company: Did they notify MSD's Plan Review group? Unknown☐ Yes☐ No☐
B. If no or unknown, has inspector notified Plan Review group? Yes☐ No☐
C. Comments: _____

6. HAS COMPANY BEGUN DISCHARGING ANY NEW POLLUTANTS SINCE THE LAST INSP? Yes☐ No☒
If yes: A. List pollutants & process: _____
B. Will MSD STP exceed existing NPDES discharge limit(s)? Yes☐ No☐
C. Will MSD STP's discharge exceed 0.1 mg/l for any new pollutant? Yes☐ No☐
(MSD must notify MDNR if B or C is yes and discharge will continue.)
D. Comments: _____

7. ARE THERE ANY FEDERALLY REGULATED (40 CFR 405-471) OPERATIONS? Yes☒ No☐
If yes: A. List reg. & describe (including any discharge):
40 CFR 460 Sub A (gen standards only) - Hospital point source category

8. DOES CATEGORICAL WASTEWATER COMBINE WITH NON-CAT. WW PRIOR TO SAMPLING? Yes☐ No☒

If yes: A. At which points? _____

B. Current applied factor: _____ Is it correct? Yes☐ No☐

C. If no, list correct factor/explain? _____

9. IS ANY WASTEWATER SUBJECT TO PRODUCTION OR MASS BASED STANDARDS? Yes☐ No☒

If yes: A. At which points? _____

B. Since calculation of the current limits, has the long term avg production rate or discharge volume changed by 20% or more? Yes☐ No☐

C. If yes to B, explain: _____

10. ARE ANY RADIOACTIVE MATERIALS HANDLED? Yes☒ No☐

If yes: A. Describe operations & disposal: Nuclear Medicine isotopes are held for decay then sewered or hauled off-site for disposal

B. Does company have MSD authorization for disposal to sewer? NA☐ Yes☒ No☐

C. Most recent authorization date: 4/2/99

D. Amount discharged in most recent complete calendar year: 0

11. DOES PROCESS or P&E WASHDOWN WATER USE APPEAR EXCESSIVE? Yes☐ No☒

A. Explain how use was verified & any needed changes:
Based on observations during the facility inspection as well as the type and size of operations conducted at the facility, the high volume water use appears normal in order to maintain sanitary conditions.

12. BASED ON OBSERVATIONS DURING INSPECTION, DOES COMPANY APPEAR TO HAVE SOME WATER THAT IS NOT DISCHARGED TO SEWER? Yes☒ No☐

If yes: A. Describe: Evaporative loss from the cooling towers and boilers.

B. Was "Return Factor Program" brochure given to company? Yes☒ No☐
(regardless of whether some water is not discharged to sewer)

13. HAS COMPANY EXCEEDED ORDINANCE DISCHARGE LIMITS SINCE LAST INSPECTION OR WITHIN THE LAST 12 MONTHS (if last insp <12 months ago)? Yes☒ No☐

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Yes/No	Describe
O&G	9-3-09	002	Yes	Grease trap cleaning frequency was increased and employees were trained on proper disposal of grease.
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

14. HAS COMPANY EXCEEDED CATEGORICAL PRETREATMENT LIMITS SINCE THE LAST INSPECTION OR WITHIN THE LAST 12 MONTHS? NA☒ Yes☐ No☐

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Yes/No	Describe
			N/A	
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

15. HAVE THERE BEEN ANY PROBLEM DISCHARGES SINCE LAST INSPECTION? Yes☐ No☒

If yes: A. Upsets? ☐ Bypasses of pretreatment facilities? ☐
Spills? ☐ Slug discharges? ☐ Other? _____

B. Explain any marked: _____

16. COULD SPILLS OR LEAKS OF PROCESS TANKS, STORED WASTES, OR STORED CHEMICALS EASILY REACH SANITARY SEWERS OR STORM DRAINS? Yes☐ No☒

If yes: A. What needs to be done?

If no: B. How are they controlled?
Flammables are stored in containment units and/or flammable fire cabinets. Other stored liquids are kept away from floor drains.

17. BASED ON OBSERVATIONS DURING INSPECTION, ARE THERE ANY AREAS WHERE COMPANY ACTIVITIES APPEAR TO IMPAIR STORMWATER RUNOFF? Yes☐ No☒

If yes: A. Describe:
B. What needs to be done?
C. Was "Illicit Stormwater Discharges" brochure given to company? Yes☒ No☐
(regardless of whether there are any problem areas)

18. DOES COMPANY HAVE ANY SPILL CONTROL OR SLUG DISCHARGE CONTROL PLANS? Yes☒ No☐

If yes: A.

	Title	Last Update	Update needed? Explain if yes
1.	Hazardous Chemical Spill Plan	1/1/98	No
2.			N/A

B. Are any Plans needed (in addition to those listed in Part A)? Yes☐ No☒
(If yes, write company and request)

19. DOES COMPANY HAVE ANY MAINTENANCE SHOP PARTS WASHERS? Yes☒ No☐

If yes: A. Parts washer solvent name: Safety Kleen Premium
B. Priority pollutants (or "none"): BTEX
C. How is spent solvent disposed? hauled off-site
(Parts washer solvents are not included in database's priority pollutants list, nor monitored for unless conditions show potential discharges)

20. ARE ANY ORGANICS OR SOLVENTS USED (OTHER THAN IN PARTS WASHERS)? Yes☒ No☐

If yes: A.

Solvent name/ components	Used for?	413/433/469 Process?	How disposed?	Priority Pollutant?
Phenol	Sanitizing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Chloroform	Lab testing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Methylene Chloride	Lab testing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Phenanthrene	Lab testing	Yes☐ No☒	Hauled off-site	Yes☒ No☐
Alcohol	Lab testing	Yes☐ No☒	Hauled off-site	Yes☐ No☒
		Yes☐ No☐		Yes☐ No☐

21. DOES COMPANY HAVE A 413/433/469 SOLVENT MANAGEMENT PLAN? Yes☐ No☒

If yes: A. Is it part of a Spill/Slug Control Plan listed above? Yes[1.☐ 2.☐] No☐
B. If no to A, date of last update for SMP:
C. Is there a copy of the Spill/Slug Plan or SMP in the files? Yes☐ No☐
D. Does SMP address all 413/433/469 solvents? Yes☐ No☐
(If no to C or D, write company and require submittal and/or update)

22. ARE EMERGENCY NOTIFICATION PROCEDURES POSTED THAT INCLUDE MSD CONTACTS? Yes☒ No☐
A. Was company provided notification cards & told to post where emergency response personnel can locate them? Yes☒ No☐
(Must post if co. generates process wastewater or stores chemicals of concern)

23. IS COMPANY REQUIRED TO SELF-MONITOR ANY OF THEIR DISCHARGES? Yes☒ No☐

If yes: A. Is requirement contained in permit ☒ or other document ☐.
B. If other document, date & description:
C. How frequently is sampling required? Quarterly
D. How frequently are reports required? Quarterly; Annual at SP004
E. Have reports been on-time, complete & signed by proper person? Yes☐ No☒
F. If no, explain: SMR for 3rd QTR 2009, 4th QTR 2009 and 2nd QTR 2010 were late.

24. DOES COMPANY SELF-MONITOR ITS WASTEWATER DISCHARGE? Yes☒ No☐

If yes: A. Is the self-monitoring required by MSD? Yes☒ No☐

B. Does sample collection time period match co's production shifts? Yes☒ No☐

C. Are representative grab/comp samples collected? Yes☒ No☐

D. Are EPA-approved 40 CFR 136 wastewater test methods used? Yes☒ No☐

E. If no to B, C, or D, explain needed changes: _____

25. DOES CO. CONTINUOUSLY MONITOR AT SAMPLE POINT AND KEEP A PERMANENT RECORD FOR: pH ☐, TEMP ☐, LEL ☐? Yes☐ No☒

If yes: A. At which SPs? _____

B. Does company submit quarterly summaries? Yes☐ No☐

C. If no, explain: _____

26. DOES MSD SPLIT SAMPLES WITH THE COMPANY? Yes☐ No☒

If yes: A. Is company having the samples analyzed Yes☐ No☐

B. How does company insure proper preservation, holding times & analytical methods? _____

C. Has company submitted results of all split sample analyses since the last insp? Yes☐ No☐

D. Have results been submitted within 28 days of the collection's calendar quarter? Yes☐ No☐

E. If no to C, or D, explain: _____

F. Does company still want to split samples? Yes☐ No☐

G. Comments: _____

27. IS COMPANY UNDER ANY ENVIRONMENTAL ENFORCEMENT ORDERS OR REQUIREMENTS TO SUBMIT COMPLIANCE SCHEDULE REPORTS? Yes☐ No☒

If yes: A. Type and date: _____

B. Have the reports & actions been on-time & complete? Yes☐ No☐

C. If no, explain: _____

28. ASK COMPANY: IS CO. IN COMPLIANCE W/APPLICABLE NESHAP REGS FOR WW DISCHARGES? Yes☒ No☐

[Some MDNR-issued Title V air permits for specific processes allow pre-approved WW discharge.] [City/County-issued air permits are not NESHAP permits.]

If no: A. Describe: _____

B. Was MDNR Air Pollution Control informed? (must be done) Yes☐ No☐

29. DOES COMPANY RETAIN ALL WASTEWATER RECORDS FOR AT LEAST 5 YEARS? Yes☒ No☐

If no: A. How long does company retain records? _____

B. Was company told to retain for at least 5 years, per ordinance? Yes☐ No☐

C. Where are they kept? Site contact's office in the Energy Center.

30. DO MSD CLASSIFICATIONS NEED TO BE REVISED? Yes☐ No☒

If yes: A. Indicate correct classifications:

SIU ☐ CIU ☐ Surch. ☐ Potential Toxic Waste ☐ Non-Toxic Proc Waste ☐

No Process Discharge ☐ Multi-User ☐ Special Handling/Billing ☐

B. Explain changes: _____

31. SAMPLE POINTS

						DJ(y/n)
SP #.	001	Fed.Reg.	N/A	Components:	Sanitary + hospital waste + NCCW + boiler blowdown + x-ray + kitchen waste + stormwater	No
SP #	002	Fed.Reg.	N/A	Components:	Sanitary + hospital waste + x-ray + stormwater	No
SP #	003	Fed.Reg.	N/A	Components:	Sanitary + hospital waste + stormwater	No
SP #	004	Fed.Reg.	N/A	Components:	NCCW + stormwater	Yes
SP #	005	Fed.Reg.	N/A	Components:	Sanitary + hospital waste + stormwater	No

32. ARE ANY SAMPLE POINTS TRAPPED VENTS? Yes☐ No☒
If yes: A. List SPs: _____
B. Was co. informed that T-vents are preferred, and told why? Yes☐ No☐

33. ARE DISCHARGES AT ANY SPs SMALL/IRREGULAR ENOUGH TO ALLOW GRAB SAMPLES? Yes☒ No☐
If yes: A. List SPs and reasons: SP004 & SP005 have low intermittent flows

34. ARE THERE ANY UNSAMPLED DISCHARGES? (list each lateral separately) Yes☐ No☒

Dummy SP #		Components:	
Dummy SP #		Components:	

35. DO ANY SAMPLE POINTS (including Unsampled/Dummy SPs) RECEIVE STORMWATER? Yes☒ No☐
If yes: A. List Sample Points: 001,002,003,004,005

36. WERE ALL SAMPLE POINTS (except Dummy SPs) OPENED & INSPECTED? No SPs☐ Yes☒ No☐
A. If any SPs cannot be located or opened, explain: _____
B. If any SP descript's need to be changed, explain: _____
C. Was ANY grease or other problem/debris observed in any SP? Yes☐ No☒
D. If yes to C, list SPs & describe: _____
E. If yes to C, was company directed to take corrective actions? Yes☐ No☐

37. REVIEW THE SAMPLE POINT MAP! Last map revision date: 6/6/07
A. Is the map correct and accurate in all its details? Yes☒ No☐
B If no, what changes are needed: _____

38. DO INSTRUCTIONS FOR "Contact Prior to Sampling" OR FIELD VISIT "Special Instructions" NEED REVISION? Yes☐ No☒
If yes: A. List needed changes: _____

USE THIS SPACE FOR ANY OTHER COMMENTS/OBSERVATIONS PERTINENT TO YOUR INSPECTION OF THIS SITE.
Radiology is primarily a digital process. However, liquid processing is still on site. The liquid process is rarely used.

Hospital operations at 3635 Vista consist of:
1st floor - Rehabilitation & food service
2nd floor - Radiology & food service
3rd floor - Surgery

There have been no significant changes to the facility or the facility's wastewater discharge since the last inspection on 9/28/09.

MSD 038385

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **4112195100**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

INDUSTRIAL USER CLASSIFICATIONS

03/06/1997	SIU
03/06/1997	PTW

WUNNENBERG INFO.

Base Map 20F1
Wun: St. Louis City & Co.
Grid: H 21 Page 38

SIU CRITERIA

POTM Reasonable potential for adverse affect on

GENERAL INFORMATION

Office Mailing Address
3635 Vista Ave.
St. Louis, MO. 63110-0250

Billing Address
3635 Vista Ave
St Louis, MO. 63110-0250

INSPECTION INFORMATION

Next Due	Insp Rslt	
12/07/2010	RIN	Mike Kynion

PERMIT INFORMATION

Issue Date:	01/01/2007
Expire Date:	12/31/2011
Extended Date:	12/31/2007
Writer	Fabian Grabski
Issue Date:	01/01/2008
Expire Date:	12/31/2011
Extended Date:	
Writer	Scott Rehmer

IUQ INFORMATION

IUQ Recvd Date:	07/09/2001
Reviewer:	Fabian Grabski
IUQ Recvd Date:	07/03/2006
Reviewer:	Fabian Grabski

CONTACTS

BILL	Skip Bowders	Energy Center Supervisor	OFF	(314) 577-8070 Ext.
FLD1	Skip Bowders	Energy Center Supervisor	OFF	(314) 577-8070 Ext.
FLD2	Janet Dickson	Admin Assistant	OFF	(314) 577-8070 Ext.
OFF1	Skip Bowders	Energy Center Supervisor	OFF	(314) 577-8070 Ext.
OFF2	Janet Dickson	Admin Assistant	OFF	(314) 577-8070 Ext.

OPERATIONAL INFORMATION

Work Days: 7

				S	M	T	W	T	F	S
1	1,884	07:00AM	8.0	Y	Y	Y	Y	Y	Y	Y
2	616	03:00PM	8.0	Y	Y	Y	Y	Y	Y	Y
3	615	11:00PM	8.0	Y	Y	Y	Y	Y	Y	Y

Total Emp: 3,115 **Hrs:** 24.0

OTHER AGENCIES INFORMATION

11/25/1996	MDNR - Hazardous Waste Program	01721
09/28/2005	MSD - Billing Account Number	00208066
09/28/2005	MSD - Billing Account Number	00208067
09/28/2005	MSD - Billing Account Number	00447331

NON-SEWERED WASTE

On-Site Storage N **On-Site Disposal** N **Off-Site Disposal** Y

07/03/2006	Infectious Waste	720000	LBS
07/03/2006	Kitchen/Food Service Grease	3500	GAL

COMMENTS

RAW MATERIALS

EFF DATE	MATERIAL_DESCRIPTION	QUANTITY	UNIT
12/07/2010	Medical Equipment		
12/07/2010	Medicines		

SIC INFORMATION

SIC	DESCRIPTION
8062	General Medical & Surgical Hospitals
8063	Psychiatric Hospitals

PRODUCTS

EFF DATE	DESCRIPTION	UNIT	AVG_PROD	MAX_PROD
05/07/2004	General hospital service			

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **4112195100**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

SEWER ACCOUNTS

Sewer Accounts
- 4112195100
- 4112195001
- 9009153601

WATER CONSUMPTION AND WASTEWATER DISCHARGE

Start Date = 01/01/2009 12:00:00AM **End Date =** 12/31/2010 12:59:59PM **Wdays** **Cdays**

Acct. No.			Consumption					Discharge	
4112195001			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
4112195001	10/28/2008	01/26/2009	10	10	A	91	91	91	
4112195001	01/27/2009	04/17/2009	91	101		81	81	172	
4112195001	04/18/2009	07/30/2009	80	181		104	104	276	
4112195001	07/31/2009	10/23/2009	464	645		85	85	361	
4112195001	10/24/2009	02/08/2010	30	675		108	108	469	
4112195001	02/09/2010	04/16/2010	24	699		67	67	536	
4112195001	04/17/2010	07/21/2010	643	1,342		96	96	632	
RF	0.68	**Acct. Total**	1,342	1,003,886		632	632	1,080	1,080
4112195100			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
4112195100	10/28/2008	01/30/2009	12,830	12,830	A	95	95	95	
4112195100	01/31/2009	04/17/2009	10,800	23,630		77	77	172	
4112195100	04/18/2009	07/30/2009	23,940	47,570		104	104	276	
4112195100	07/31/2009	10/22/2009	17,850	65,420		84	84	360	
4112195100	10/23/2009	01/26/2010	15,040	80,460		96	96	456	
4112195100	01/27/2010	04/16/2010	12,250	92,710		80	80	536	
4112195100	04/17/2010	07/21/2010	24,400	117,110		96	96	632	
RF	0.68	**Acct. Total**	117,110	87,604,370		632	632	94,258	94,258
9009153601			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
9009153601	11/06/2008	02/10/2009	1,500	1,500	A	97	97	97	
9009153601	02/11/2009	04/22/2009	573	2,073		71	71	168	
9009153601	04/23/2009	07/29/2009	1,813	3,886		98	98	266	
9009153601	07/30/2009	10/20/2009	1,466	5,352		83	83	349	
9009153601	10/21/2009	02/08/2010	880	6,232		111	111	460	
9009153601	02/09/2010	05/06/2010	900	7,132		87	87	547	
9009153601	05/07/2010	08/10/2010	900	8,032		96	96	643	
RF	1.00	**Acct. Total**	8,032	6,008,354		643	643	9,344	9,344
		Facility Total	126,484						

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **4112195100**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
01	Sanitary Or Combined	20F3	350C	Trunk Sewer	Rock Springs

Description Multiple lines from W side of hospital and E side of W pavilion to loading drive

Sewer Route W on Vista in 27 pipe to 39th St, then N in trunk to treatment plant

SAMPLE POINT NO. 001 Ordinance **NPDES Outfall No.**

Description MH in driveway W of loading dock at SW corner of main hospital building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Non Contact Cooling Water	HVAC	10,000	GPD		GPD	D	7/3/06
Sanitary		25,525	GPD		GPD	D	9/19/07
Kitchen Waste		3,600	GPD		GPD	D	9/19/07
Storm Water		0	GPD		GPD	D	9/19/07
Hospital Waste	including x-ray waste	21,354	GPD		GPD	D	9/19/07
Boiler Blowdown		16,800	GPD		GPD	D	9/19/07
	Total Flow Avg =	**77,279**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
02	Sanitary Or Combined	20F3	350C	Trunk Sewer	Rock Springs

Description Line S from S side of building to Vista Ave

Sewer Route W on Vista in 27 pipe to 39th St, then N in trunk to treatment plant

SAMPLE POINT NO. 002 Ordinance **NPDES Outfall No.**

Description MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Sanitary		21,200	GPD		GPD	D	9/19/07
Hospital Waste	including x-ray waste	17,439	GPD		GPD	D	9/19/07
Storm Water		0	GPD		GPD	D	9/19/07
	Total Flow Avg =	**38,639**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
03	Sanitary Or Combined	20F3	350C	Trunk Sewer	Rock Springs

Description Line SE from S side of building at entrance drive to Vista Ave.

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 003 Ordinance **NPDES Outfall No.**

Description MH 54' E of SW corner of West Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Hospital Waste		2,750	GPD		GPD	D	9/28/09
Sanitary		1,250	GPD		GPD	D	9/28/09
	Total Flow Avg =	**4,000**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
04	Sanitary Or Combined	20F3	362C	Trunk Sewer	Rock Springs

Description Line W from SW corner of parking garage to Spring Ave.

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 004 Ordinance **NPDES Outfall No.**

Description 6" t-vent inside W Pavilion parking garage 10' N, 18' E of SW corner

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **4112195100**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

Non Contact Cooling Water	612	GPD		GPD	D	7/3/06
Storm Water	0	GPD		GPD	D	9/19/07
Total Flow Avg =	**612**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
05	Sanitary Or Combined	20F3	362C	Trunk Sewer	Rock Springs

Description Manhole 93' S, 9' W of NW corner of W pavilion building

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 005 Ordinance **NPDES Outfall No.**

Description MH 93 ' S, 9' W of NW corner of W Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Sanitary		1,050	GPD		GPD	D	9/19/07
Hospital Waste		1,450	GPD		GPD	D	9/19/07
Storm Water		0	GPD		GPD	D	9/19/07
Total Flow Avg =		**2,500**		**Max =**			

PRETREATMENT TYPES

SP	EFF_DATE	TYPE	DESCRIPTION
001	06/06/2000	DC28	Grease Trap
001	06/06/2000	DC32	Metallic Replacement
001	06/06/2000	DC20	Electrolysis
002	06/06/2000	DC20	Electrolysis
002	06/06/2000	DC32	Metallic Replacement

PRIORITY POLLUTANTS

Pollutant Description	Status	Pollutant Description	Status	Pollutant Description	Status
Phenanthrene	KP	Asbestos (Fibrous)	SP	Mercury (Total)	SP
Phenol	SP	Methylene Chloride	KP	Chloroform	KP

EXTRA STRENGTH SURCHARGE INFORMATION

PIMS FACILITY CONTACTS

For Account Number Selecte **4112195100** **ST LOUIS UNIVERSITY HOSPITAL**

Located at 3635 & 3655 Vista Ave.
St. Louis MO 63110

Address Type

Contact Type	Contact Name		Contact Title	Phone Type	Number	Ext.
Billing Address						
Billing Contact	Skip	Bowders	Energy Center Supervisor	OFF	(314)577-8070	
Office Mailing Address						
Office Contact - Primary	Skip	Bowders	Energy Center Supervisor	OFF	(314)577-8070	
Office Contact 1st Alt	Janet	Dickson	Admin Assistant	OFF	(314)577-8070	
Premise Address						
Field Contact - Primary	Skip	Bowders	Energy Center Supervisor	OFF	(314)577-8070	
Field Contact 1st Alt	Janet	Dickson	Admin Assistant	OFF	(314)577-8070	

PIMS

REPORT OF FIELD SAMPLING REQUIREMENTS
ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **4112195100**

SPN	PREMISE ADDRESS	CITY	ST	ZIP
	3635 & 3655 Vista Ave.	St. Louis	MO	63110

001 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2011
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2011
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2011
	T237000	pH	Once/year	Grab	06/30/2011
	T247000	Temperature	Once/year	Grab	06/30/2011
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2011
	T257000	Total Phenols	Once/year	Grab	06/30/2011
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2011
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Comp-Time 04 Hrs	06/30/2011
Volatile Organics	T996000	Volatile Organics	Once/year	Grab	06/30/2011

002 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2011
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2011
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2011
	T237000	pH	Once/year	Grab	06/30/2011
	T247000	Temperature	Once/year	Grab	06/30/2011
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2011
	T257000	Total Phenols	Once/year	Grab	06/30/2011
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2011
Phenolic Organics - Acids	T991000	Phenolic Organics - Acids	Once/year	Comp-Time 04 Hrs	06/30/2011
Volatile Organics	T996000	Volatile Organics	Once/year	Grab	06/30/2011

003 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2011
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2011
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2011
	T237000	pH	Once/year	Grab	06/30/2011
	T247000	Temperature	Once/year	Grab	06/30/2011
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2011

004 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Grab (Auth in lieu of composite)	06/30/2011
	T213000	Chemical Oxygen Demand	Once/year	Grab (Auth in lieu of composite)	06/30/2011
	T237000	pH	Once/year	Grab	06/30/2011
	T247000	Temperature	Once/year	Grab	06/30/2011
	T256000	Total Suspended Solids	Once/year	Grab (Auth in lieu of composite)	06/30/2011

005 Project Code: IM= IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Grab (Auth in lieu of composite)	06/30/2011
	T213000	Chemical Oxygen Demand	Once/year	Grab (Auth in lieu of composite)	06/30/2011
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2011
	T237000	pH	Once/year	Grab	06/30/2011
	T247000	Temperature	Once/year	Grab	06/30/2011
	T256000	Total Suspended Solids	Once/year	Grab (Auth in lieu of composite)	06/30/2011

PIMS
RE[illegible]T OF FIELD SAMPLING REQUIREMEN[illegible]
ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **4112195100**

SPN	PREMISE ADDRESS	CITY	ST	ZIP

ACCOUNT NUMBER: 41121951-00

COMPANY NAME: ST LOUIS UNIVERSITY HOSPITAL

MAPS

FROM 04-19-99 THRU 12-24-03

IUQ's

FROM 07-04-83 THRU 07-03-06

X	CORRESPONDANCE LOCATED IN OVERFLOW FILE

MSD-DEC INDUSTRY SAMPLING MAP

MSD

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Premise Address: 3635 VISTA AV

Zip Code: 63110

Nearest Intersection: VISTA

Wunnenberg: H21-38 Base Map: 20F3

MSD Account No.: 41121951-00

Total No. of Active Sample Points: 4

Active SP Nos: 001,002,003,005

Field Contact: TIM HILL (577-8072)

Alternate Contact: H.C. ABBOTT

Must contact prior to sampling: Yes ____ No X

Reason: ____

Company wants to split samples: Yes ____ No X

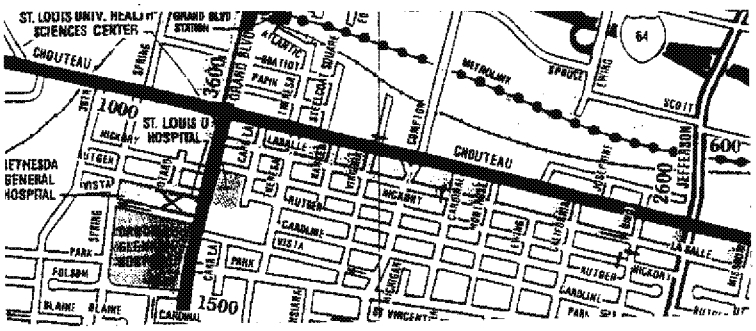
Special Sampling Requirements or Instructions:
Contact needed to access SP004
Page 1 - 3635 Vista Ave.
Page 2 - 3655 Vista Ave.

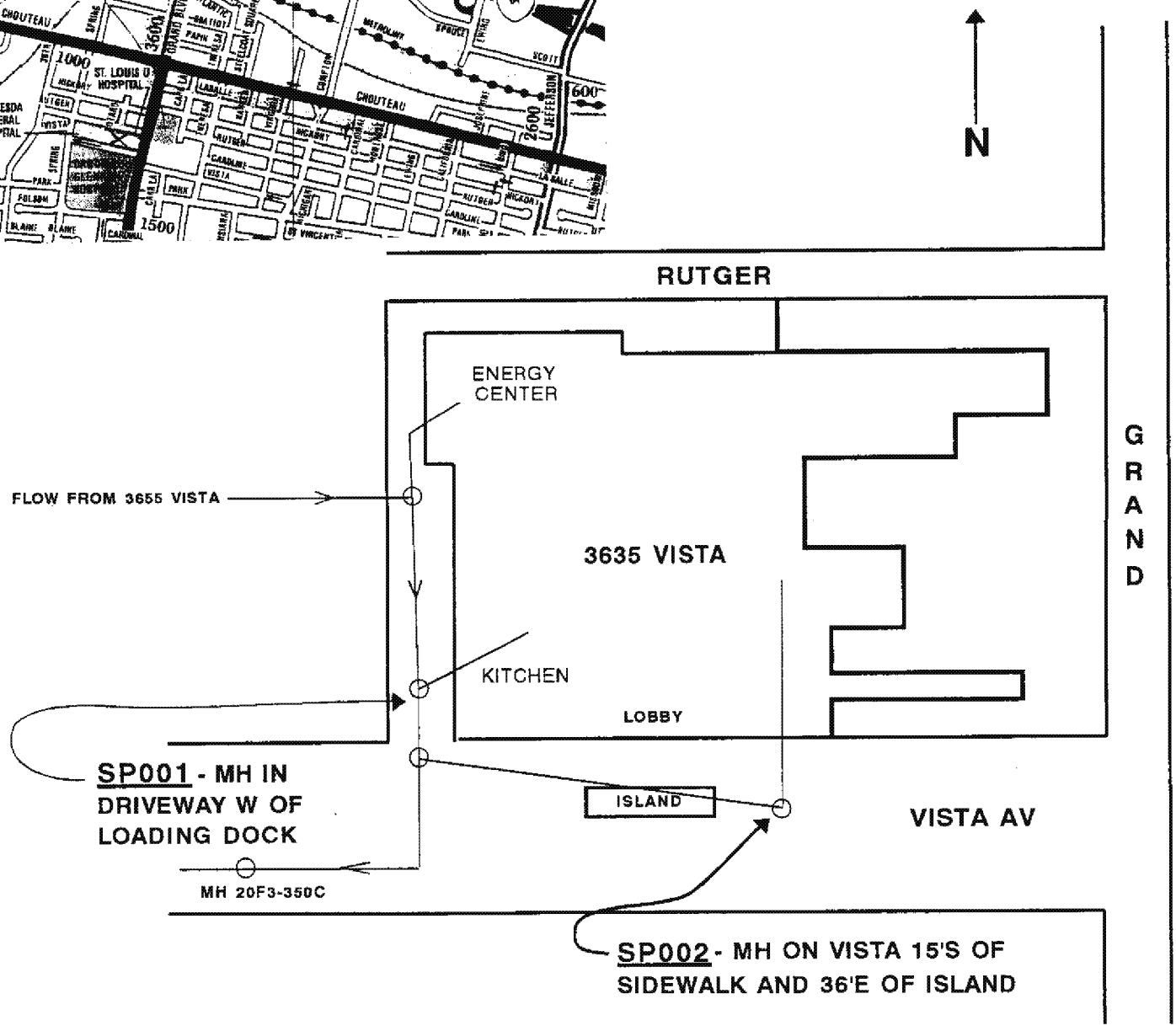
Map Effective Date: 12-24-03 By: JEG

Map Revision Date: 01-03-05 By: JEG

Map Revision Date: ____ By: ____

Map Void Date: 11/30/06 By: JEG





SP MAP DMM-10/98-1

MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

MSD-DEC INDUSTRY SAMPLING MAP

Company Name: STL UNIV HOSP-W PAVILION

Premise Address: 3655 VISTA AV

Zip Code: 63110

MSD Account No.: 41121951-00

Use this sheet only for page 2 and following pages.

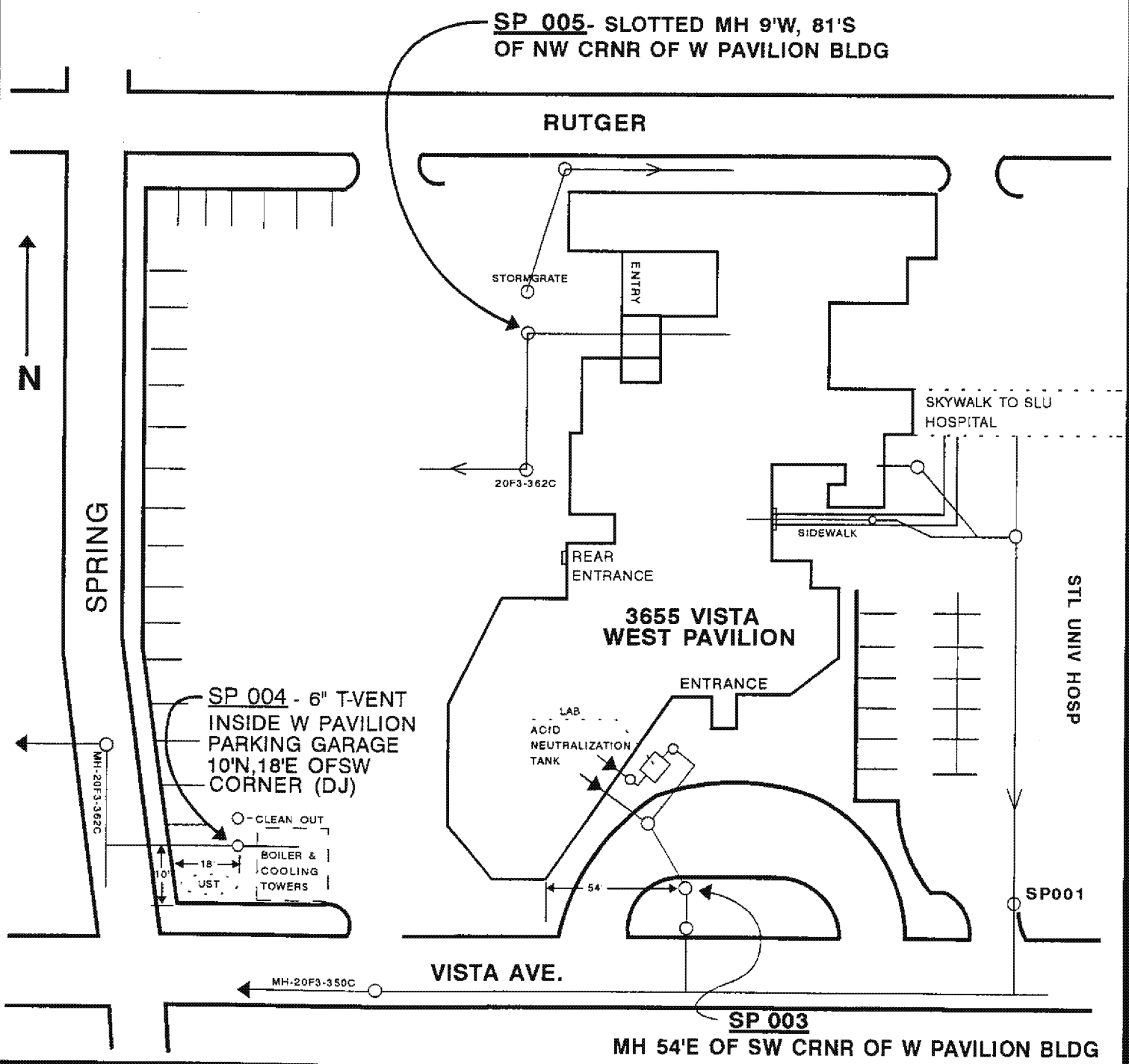
This page is not valid unless a page 1 using the proper form is attached.

Map Effective Date: 12-24-03 By: JEG

Map Revision Date: 01-03-05 By: JEG

Map Revision Date: By:

Map Void Date: 11/30/06 By: JEG



SP MAP DMM-1/95-1

MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

MSD-DEC INDUSTRY SAMPLING MAP

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Premise Address: 3635 VISTA AV

Zip Code: 63110

Nearest Intersection: VISTA

Wunnenberg: H21-38 Base Map: 20F3

MSD Account No.: 41121951-00

Total No. of Active Sample Points: 4

Active SP Nos: 001,002,003,005

Field Contact: TIM HILL (577-8072)

Alternate Contact: H.C. ABBOTT

Must contact prior to sampling: Yes ____ No X

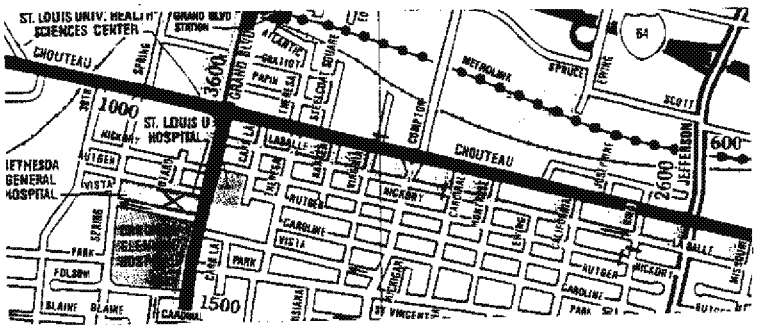
Reason: ____

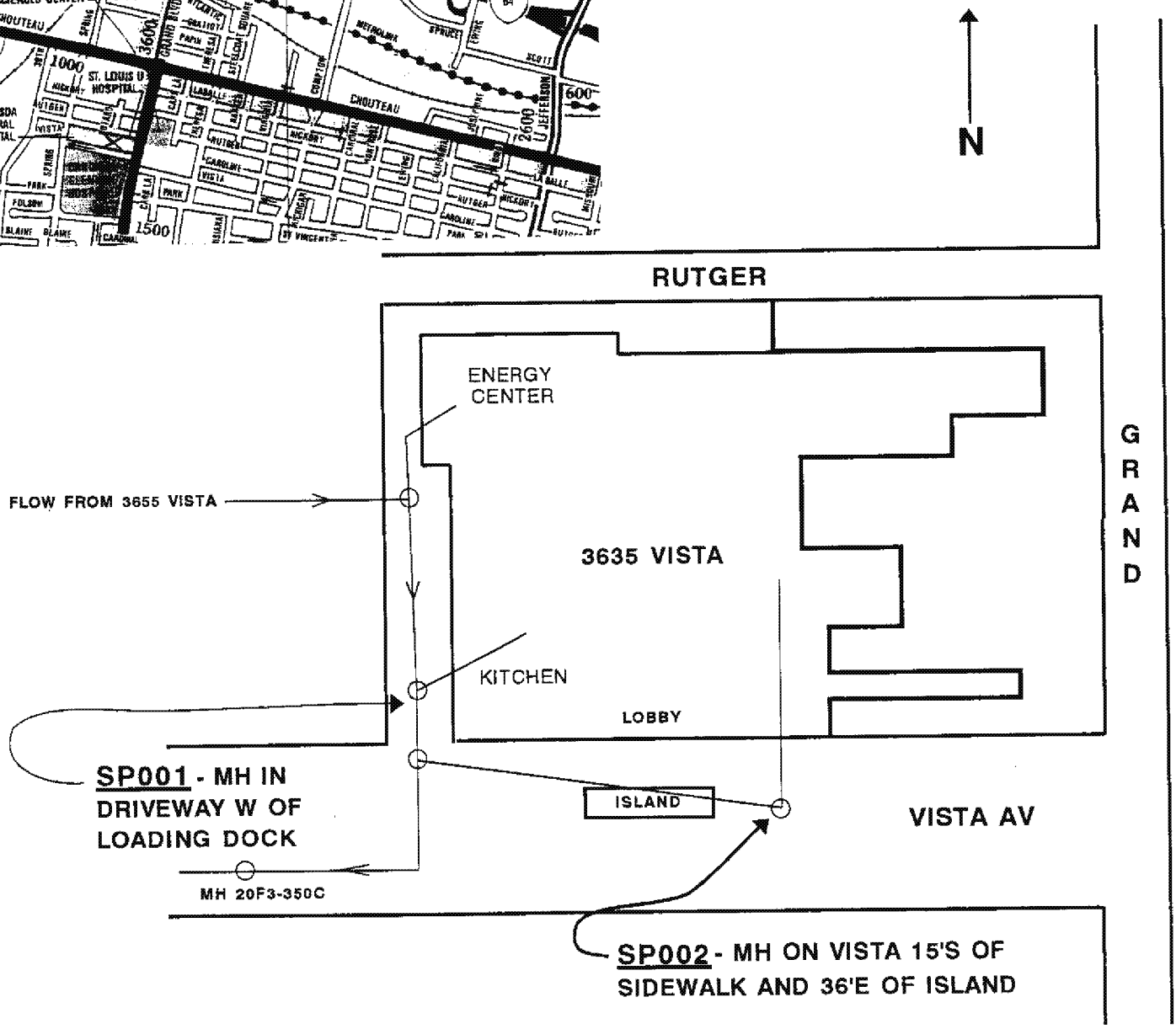
Company wants to split samples: Yes ____ No X

Special Sampling Requirements or Instructions:
Contact needed to access SP004
Page 1 - 3635 Vista Ave.
Page 2 - 3655 Vista Ave.

Map Effective Date: 12-24-03 By: JEG Map Revision Date: ____ By: ____

Map Revision Date: 01-03-05 By: JEG Map Void Date: ____ By: ____





SP MAP DMM-10/98-1

MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

MSD-DEC INDUSTRY SAMPLING MAP

Company Name: STL UNIV HOSP-W PAVILION

Premise Address: 3655 VISTA AV

Zip Code: 63110

MSD Account No.: 41121951-00

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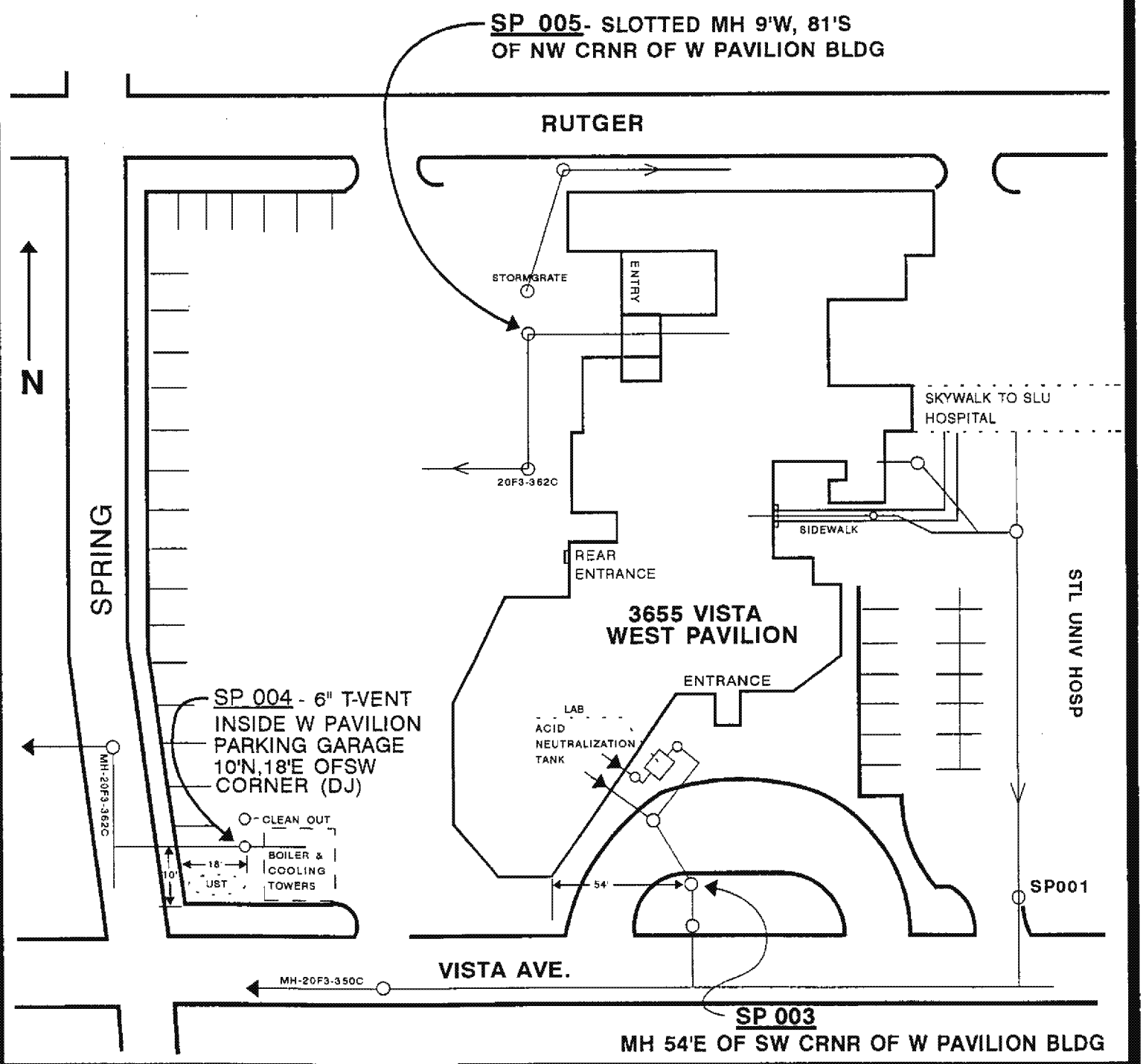
Map Revision Date: 01-03-05 By: JEG

Map Revision Date: _____ By: _____

Map Void Date: _____ By: _____



SP MAP DMM-1/95-1

MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

MSD-DEC INDUSTRY SAMPLING MAP

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Premise Address: 3635 VISTA AV

Zip Code: 63110

Nearest Intersection: VISTA

Wunnenberg: H21-38 Base Map: 20F3

MSD Account No.: 41121951-00

Total No. of Active Sample Points: 4

Active SP Nos: 001,002,003,005

Field Contact: PHIL VAN CLEAVE

Alternate Contact: H.C. ABBOTT

Must contact prior to sampling: Yes _____ No X

Reason: _____

Company wants to split samples: Yes _____ No X

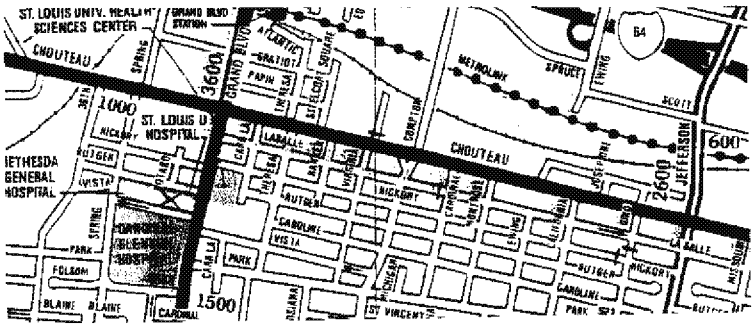
Special Sampling Requirements or Instructions:
Contact needed to access SP004
Page 1 - 3635 Vista Ave.
Page 2 - 3655 Vista Ave.

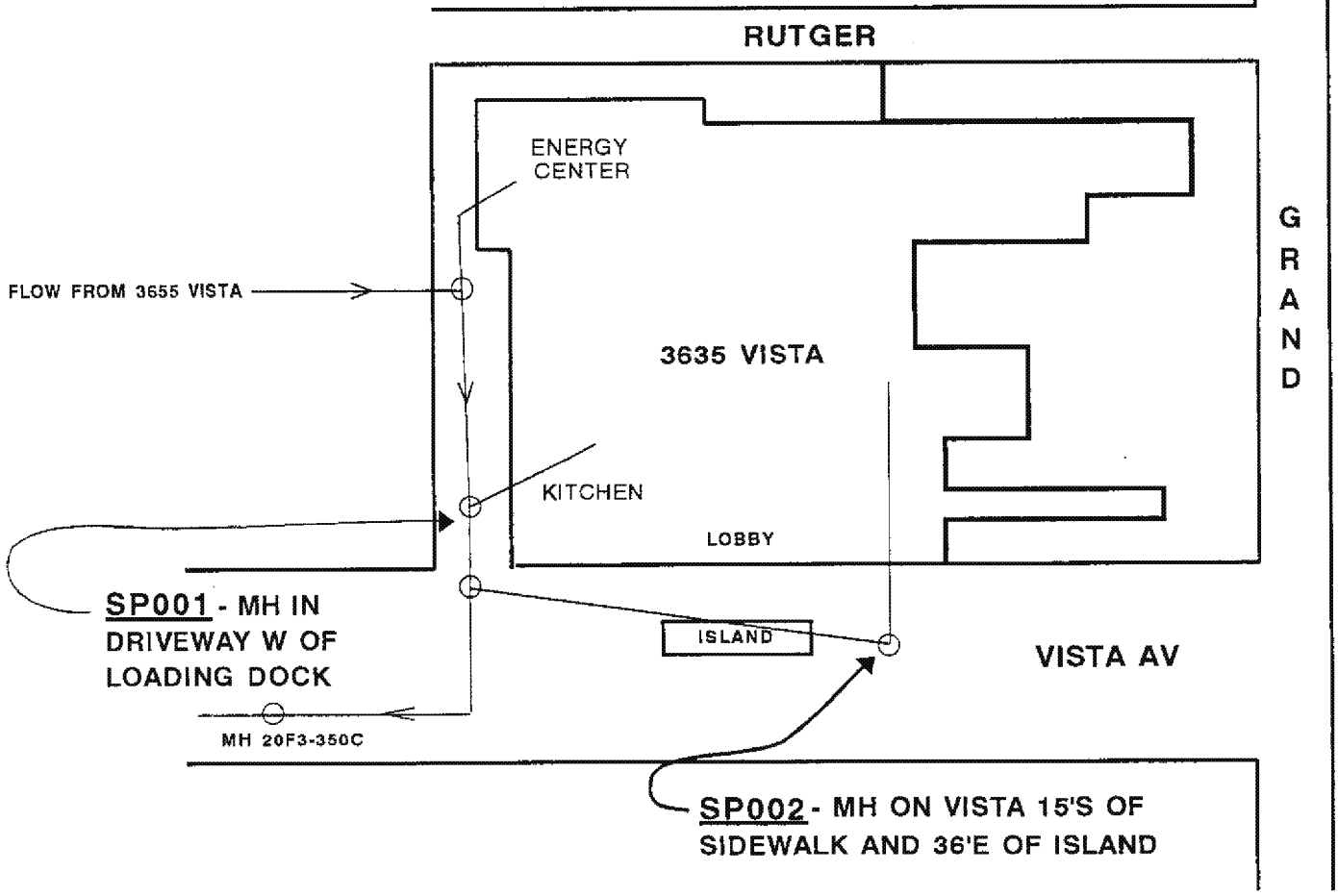
Map Effective Date: 12-24-03 By: JEG

Map Revision Date: _____ By: _____

Map Revision Date: _____ By: _____

Map Void Date: 1/3/05 By: JEG





SP MAP DMM-10/98-1

MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

MSD-DEC INDUSTRY SAMPLING MAP

Company Name: STL UNIV HOSP-W PAVILION

Premise Address: 3655 VISTA AV

Zip Code: 63110

MSD Account No.: 41121951-00

Use this sheet only for page 2 and following pages.

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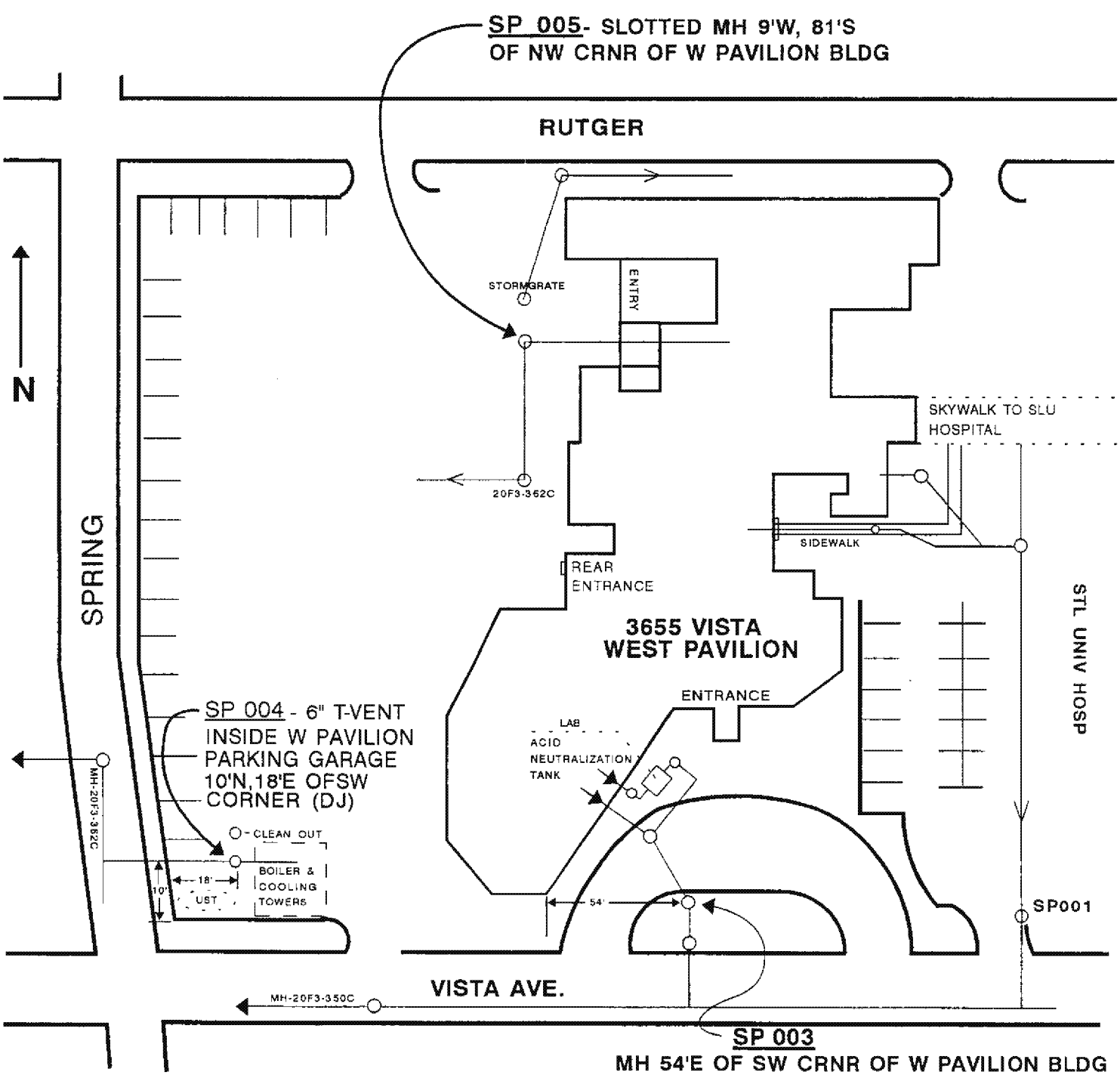
Map Effective Date: 12-24-03 By: JEG

Map Revision Date: By:

Map Revision Date: By:

Map Void Date: 1/3/05 By:



SP MAP DMM-1/95-1

MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

MSD-DEC INDUSTRY SAMPLING MAP

Company Name: ST. LOUIS UNIVERSITY HOSPITAL

Premise Address: 1315 — 1341 S. GRAND BLVD

Zip Code: 63104

Nearest Intersection: VISTA

Wunnenberg: 38-H21 Base Map: 20-F1

MSD Account No.: 4112 1951-00

Total No. of Active Sample Points: 2

Active SP Nos: 001, 002

Facility Contact: GARY RAUSCHENBACH

Secondary Contact: H.C. ABBOTT

Must contact prior to sampling: Yes ____ No ✓

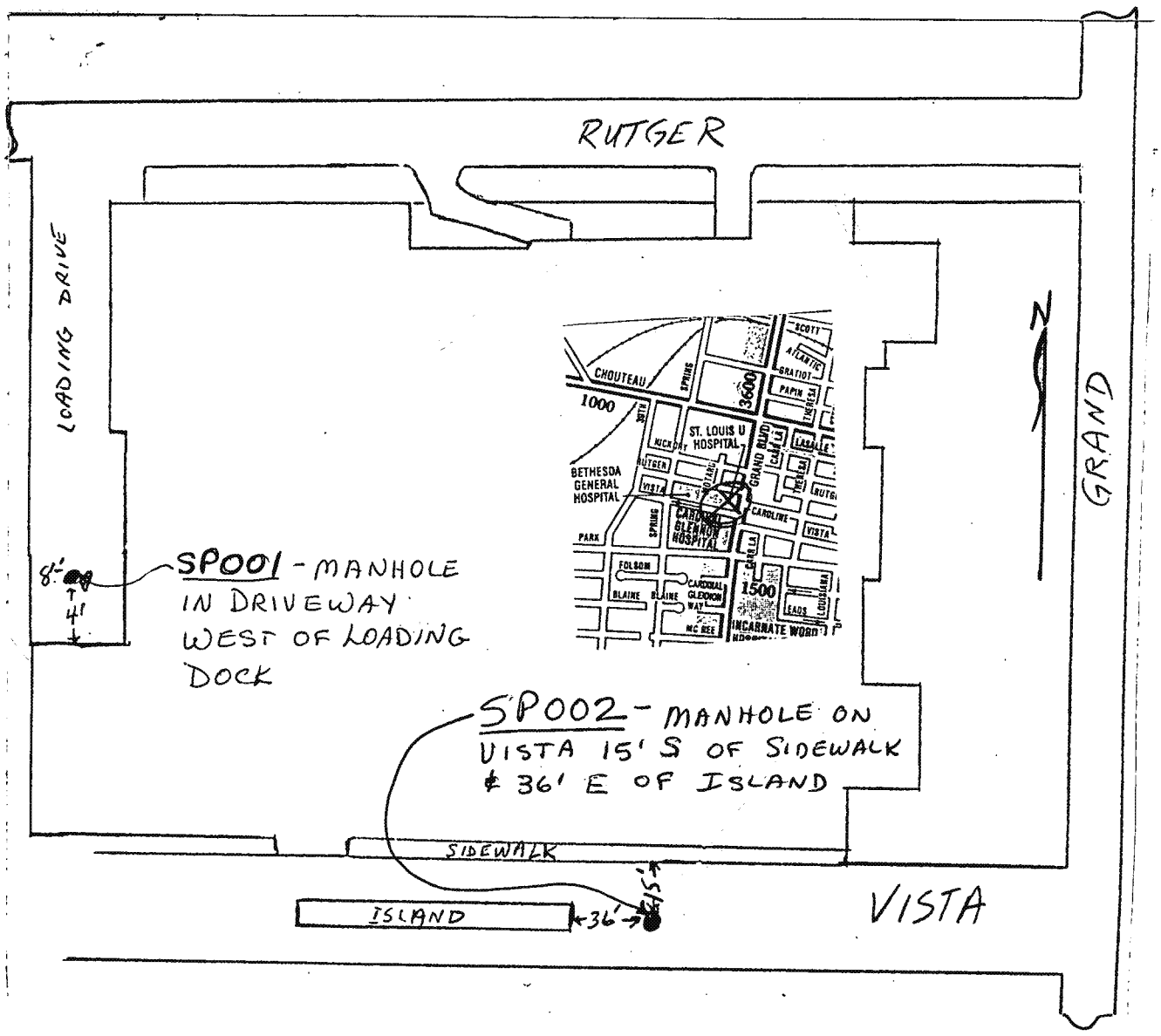
Reason: ____

Company wants to split samples: Yes ____ No ✓

Special Sampling Requirements or Instructions: ____

Map Effective Date: 7-31-95 By: JAS DMM 8-1-95 Map Revision Date: ____ By: ____

Map Revision Date: ____ By: ____ Map Void Date: 4/10/99 By: DHB



SP MAP DMM-1/95-1

MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

MSD-DEC INDUSTRY SAMPLING MAP

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Premise Address: 3635 VISTA AV

Zip Code: 63110

Nearest Intersection: VISTA

Wunnenberg: H21-38 Base Map: 20F3

MSD Account No.: 41121951-00

Total No. of Active Sample Points: 4

Active SP Nos: 001,002,003,005

Field Contact: PHIL VAN CLEAVE

Alternate Contact: H.C. ABBOTT

Must contact prior to sampling: Yes ____ No X

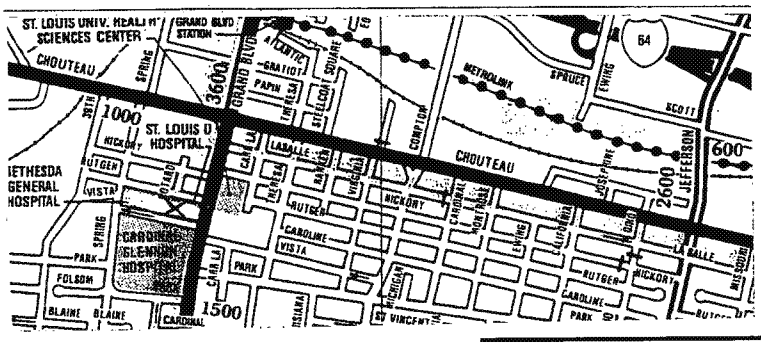
Reason: ____

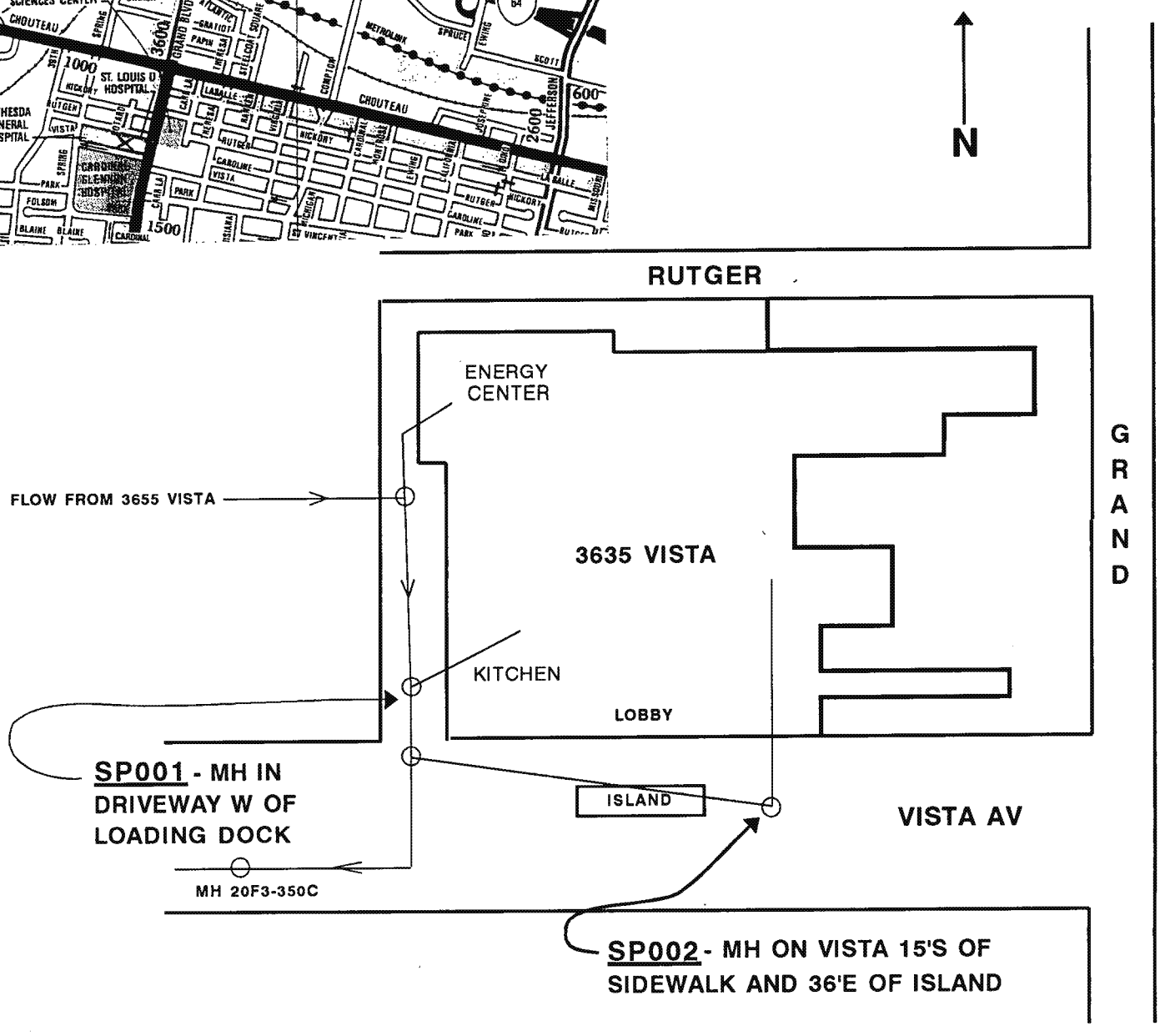
Company wants to split samples: Yes ____ No X

Special Sampling Requirements or Instructions:
Contact needed to access SP004
Page 1 - 3635 Vista Ave.
Page 2 - 3655 Vista Ave.

Map Effective Date: 12-24-03 By: JEG DMM Map Revision Date: ____ By: ____

Map Revision Date: ____ By: ____ Map Void Date: ____ By: ____





SP MAP DMM-10/98-1 MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

MSD-DEC INDUSTRY SAMPLING MAP

Company Name: STL UNIV HOSP-W PAVILION

Premise Address: 3655 VISTA AV

Zip Code: 63110

MSD Account No.: 41121951-00

Use this sheet only for page 2 and following pages.

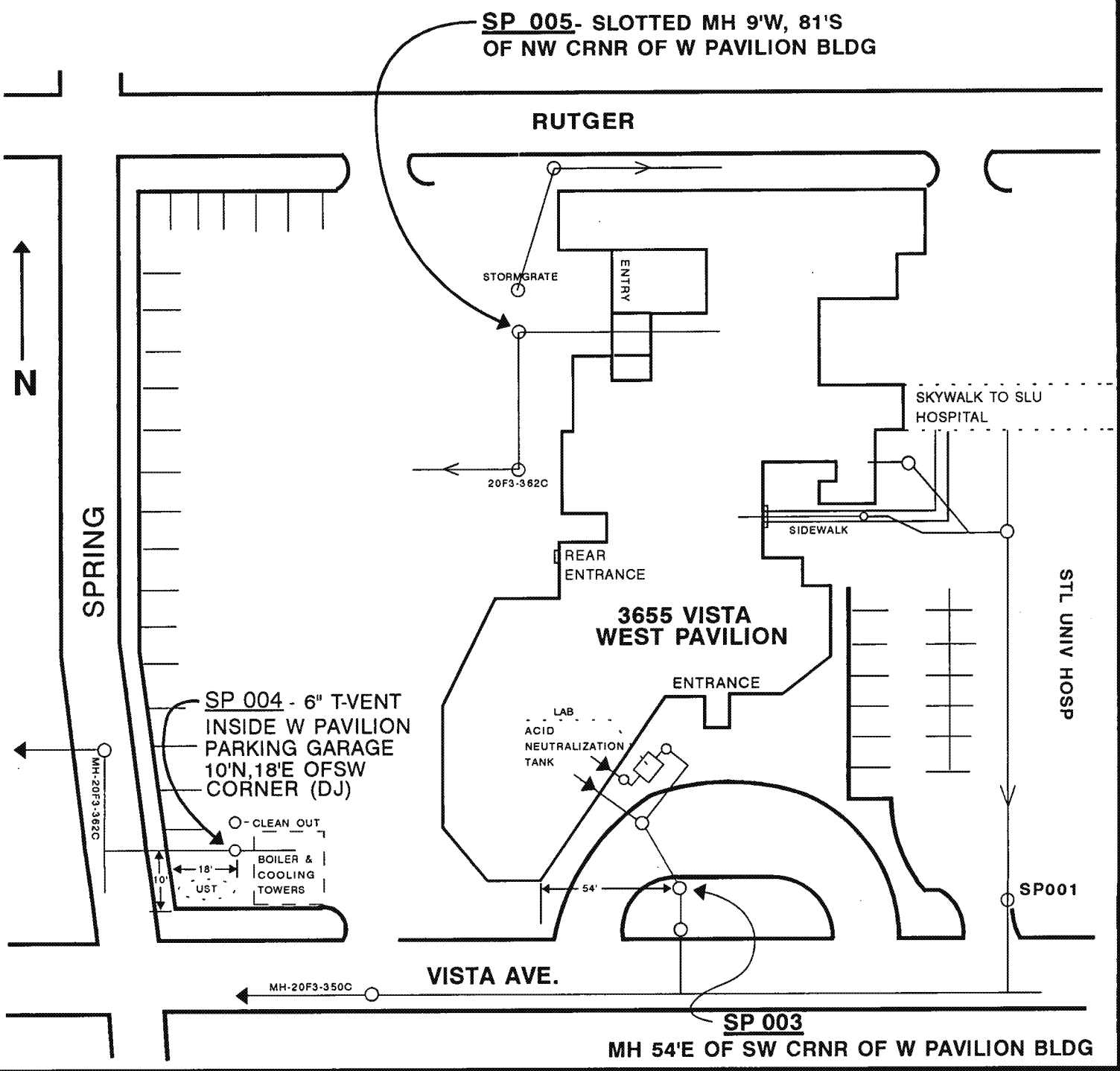
This page is not valid unless a page 1 using the proper form is attached.

Map Effective Date: 12-24-03 By: JEG

Map Revision Date: By:

Map Revision Date: By:

Map Void Date: By:



SP MAP DMM-1/95-1 MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

MSD-DEC INDUSTRY SAMPLING MAP

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Premise Address: 3635 VISTA AV

Zip Code: 63110

Nearest Intersection: VISTA

Wunnenberg: H21-38 Base Map: 20F3

MSD Account No.: 41121951-00

Total No. of Active Sample Points: 4

Active SP Nos: 001,002,003,005

Field Contact: PHIL VAN CLEAVE

Alternate Contact: H.C. ABBOTT

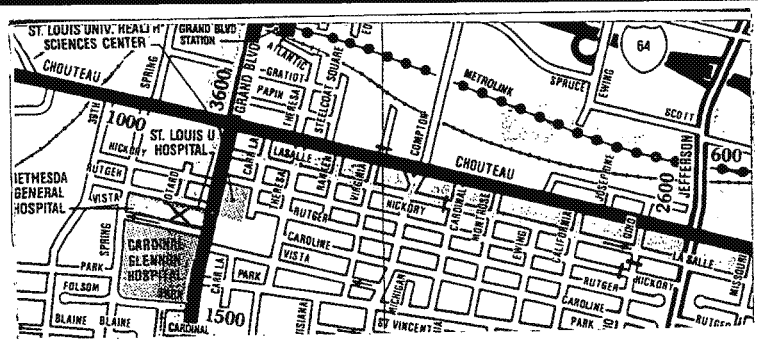
Must contact prior to sampling: Yes ____ No X

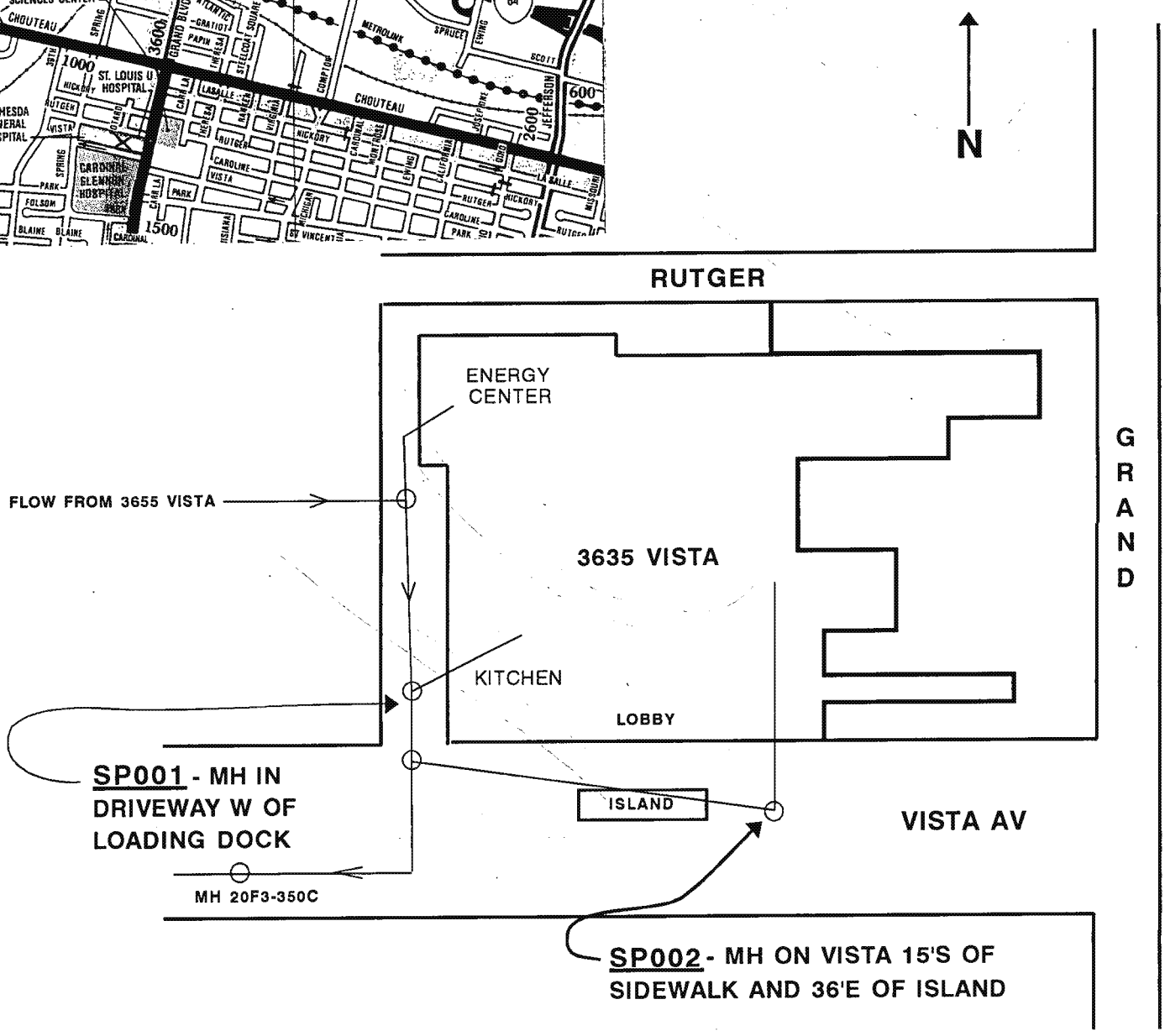
Reason: ____

Company wants to split samples: Yes ____ No X

Special Sampling Requirements or Instructions:
Contact needed to access SP004
Page 1 - 3635 Vista Ave.
Page 2 - 3655 Vista Ave.

Map Effective Date: 4-19-99 By: DAB Map Revision Date: 07-01-02 By: JEG
Map Revision Date: 06-06-00 By: JEG Map Void Date: 12-24-03 By: JEG





MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

MSD-DEC INDUSTRY SAMPLING MAP

Company Name: STL UNIV HOSP-W PAVILION

Premise Address: 3655 VISTA AV

Zip Code: 63110

MSD Account No.: 41121951-00

Use this sheet only for page 2 and following pages.

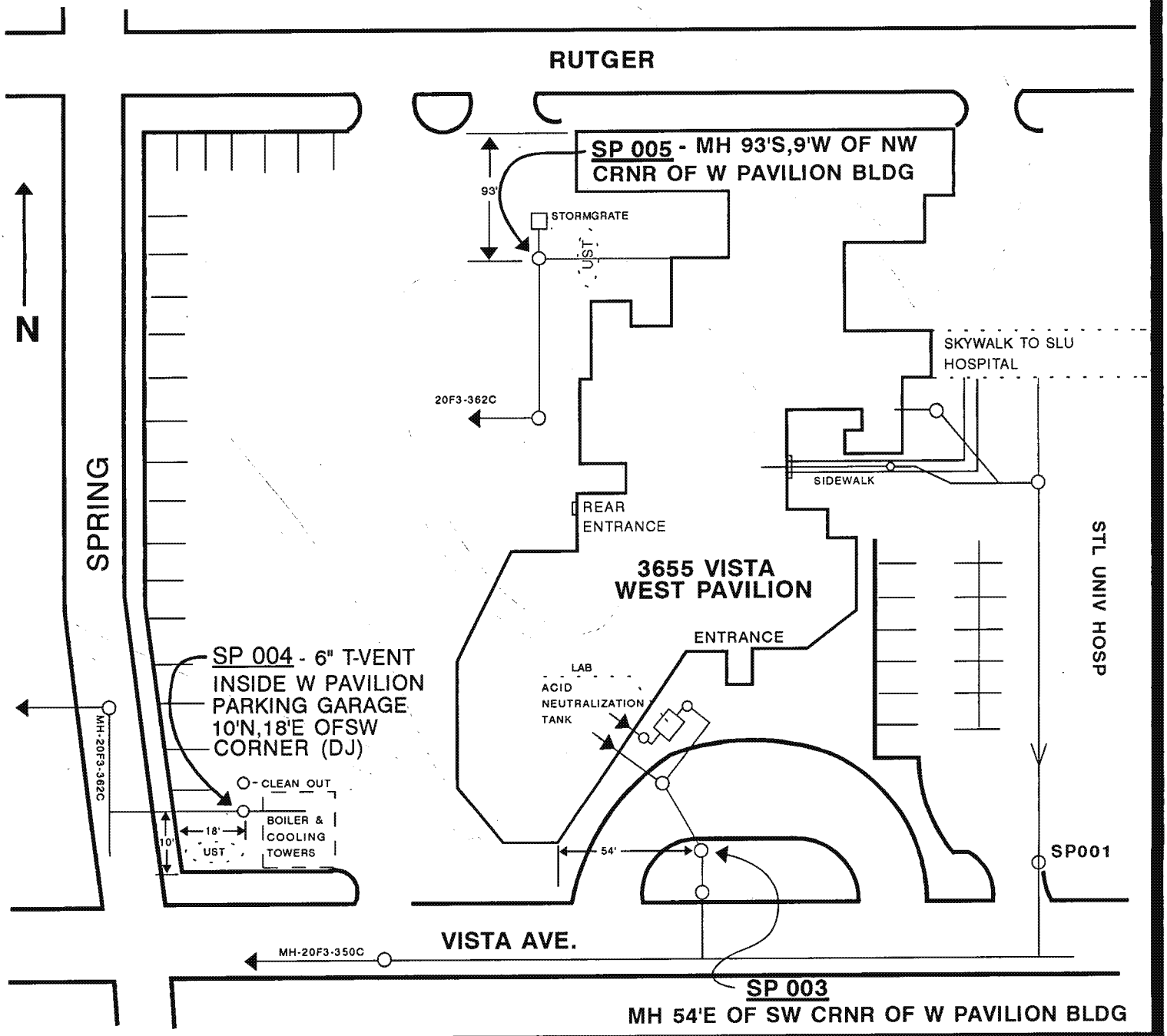
This page is not valid unless a page 1 using the proper form is attached.

Map Effective Date: 07-01-02 By: JEG

Map Revision Date: By:

Map Revision Date: By:

Map Void Date: 12-24-03 By: JEG



SP MAP DMM-1/95-1

MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

MSD-DEC INDUSTRY SAMPLING MAP

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Premise Address: 3635 VISTA AV

Zip Code: 63104

Nearest Intersection: VISTA

Wunnenberg: H21-38 Base Map: 20F3

MSD Account No.: 41121951-00

Total No. of Active Sample Points: 2

Active SP Nos: 001,002

Field Contact: PHIL VAN CLEAVE

Alternate Contact: H.C. ABBOTT

Must contact prior to sampling: Yes ____ No X

Reason: ____

Company wants to split samples: Yes ____ No X

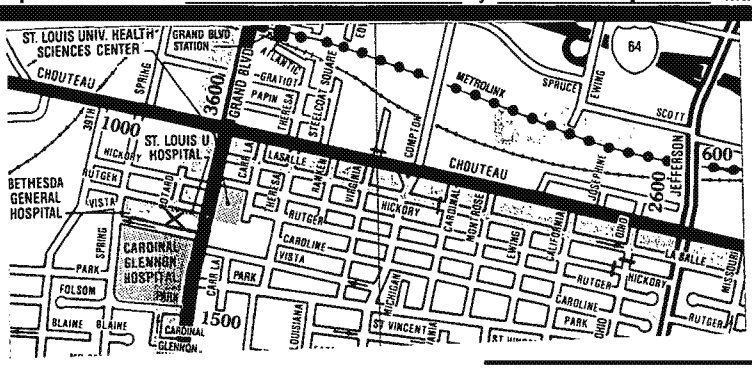
Special Sampling Requirements or Instructions: ____

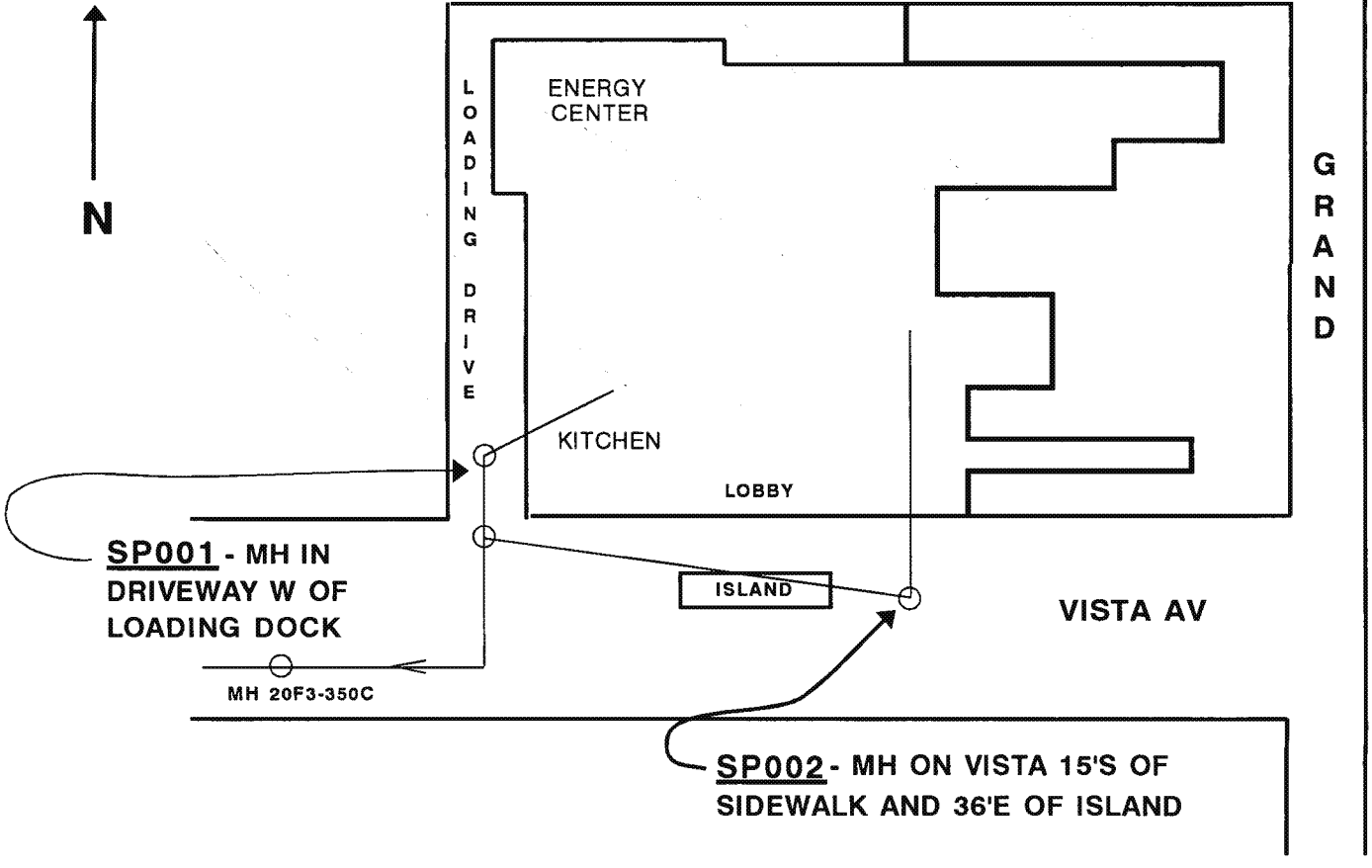
Map Effective Date: 4-19-99 By: DAB

Map Revision Date: 06-06-00 By: JEG DAM

Map Revision Date: ____ By: ____

Map Void Date: 7/1/02 By: JEG





SP MAP DMM-10/98-1

MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

MSD-DEC INDUSTRY SAMPLING MAP

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Premise Address: 1315-1341 S. GRAND

Zip Code: 63104

Nearest Intersection: VISTA

Wunnenberg: 38-H21 Base Map: 20-F1

MSD Account No.: 41121951-00

Total No. of Active Sample Points: 2

Active SP Nos: 001,002

Field Contact: PHIL VAN CLEAVE

Alternate Contact: H.C. ABBOTT

Must contact prior to sampling: Yes ____ No X

Reason: ____

Company wants to split samples: Yes ____ No X

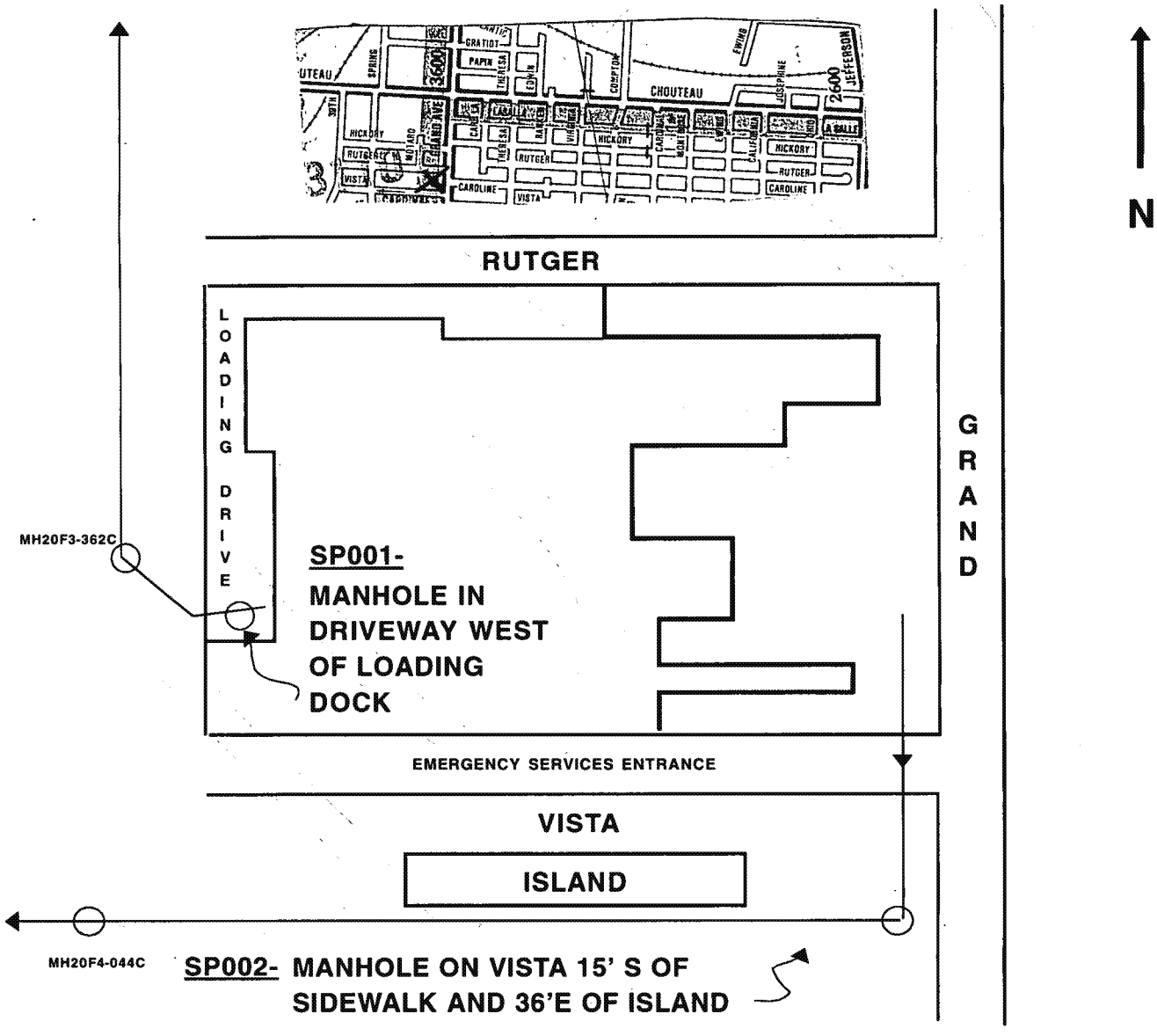
Special Sampling Requirements or Instructions: ____

Map Effective Date: 4-19-99 By: DAB

Map Revision Date: ____ By: ____

Map Revision Date: ____ By: ____

Map Void Date: 6/6/00 By: JEG



SP MAP DMM-10/98-1

MAP IS INVALID IF NOT DATED AND INITIALED OR IF VOID DATE IS FILLED IN

ACCOUNT NUMBER: 41121951-00

COMPANY NAME: ST LOUIS UNIVERSITY HOSPITAL

CORRESPONDENCE

FROM 01-20-09 THRU 10-25-10

X	CORRESPONDANCE LOCATED IN OVERFLOW FILE

1402 South Grand Blvd.
St. Louis, MO 63104-1085
Fax: 314-977-5560
www.slu.edu

SAINT LOUIS
UNIVERSITY

Office of Environmental Safety & Services
Environmental Safety Office (C307)
314-977-8608

Radiation Safety Office (RB5)
314-977-8609

October 25, 2010

Douglas M. Mendoza
Industrial Waste Engineer
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(FAX #: 436-8753)

SUBJECT: Quarterly Reports Of Radionuclide Discharge For The Period July - Sept. 2010

Dear Mr. Mendoza:

Attached you will find copies of the MSD Industrial User Radioactive Materials Discharge Reports for all Saint Louis University and affiliated facilities. Copies of some of these reports for which wastewater permits are held have been forwarded to Mr. Todd Stirewalt (Anheuser Busch Institute, Saint Louis University Hospital).

In order to avoid confusion, any discharges from the laboratories in Cardinal Glennon Hospital's basement (which had at one time been reported to you by Cardinal Glennon) will be incorporated into this report.

If you have any questions regarding these reports, please contact me at 977-6896.

Sincerely,

Kevin Ferguson
Health Physicist

RECEIVED
OCT 28 2010
DIVISION OF
ENVIRONMENTAL COMPLIANCE

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ■(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

RECEIVED
OCT 28 2010
DIVISION OF ENVIRONMENTAL COMPLIANCE

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 10/25/10

SR
10-29

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

Premise Address: 3635 & 3655 Vista Ave., St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨			001		002		003	
DATES ON WHICH SAMPLES WERE COLLECTED ⇨			09/15-16/2010		09/15-16/2010		09/15-16/2010	
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨			11:00-11:00		10:30-10:30		11:30-11:30	
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab. C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW *			77,000		38,000		4,000	GPD
Biological Oxygen Demand	******	C	38		170		160	mg/l
Chemical Oxygen Demand	******	C	130		320		420	mg/l
Total Suspended Solids	*******	C	25		150		220	mg/l
Oil and Grease	200	G	9.4		20		6	mg/l
Total Silver	0.5	C	0.0042		0.0028			mg/l
pH value	5.5-11.5	G	8.38		7.27		8.17	units
Temperature	60	G	27.3		28.5		24.6	Deg C
Total Toxic Organics	5.844	G,C	0.228		0.241		0.180	mg/l

*flows provided per pc w/
S. Bowders on 10-28-10. SR

You must complete and sign the certification statements on the second page.

RECEIVED
OCT 22 2010
DIVISION OF
ENVIRONMENTAL COMPLIANCE

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

Premise Address: 3635 & 3655 Vista Ave., St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☒(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: Larry Oliver, PDC Laboratories, Inc.

Analyses Performed By: PDC Laboratories, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		09/15-16/2010		09/15-16/2010				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		12:00-12:00		12:30-12:30				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			600		2,500			
Biological Oxygen Demand	*******	C			18			mg/l
Chemical Oxygen Demand	*******	C	31		120			mg/l
Total Suspended Solids	*******	C	12		43			mg/l
Oil and Grease	200	G			7.2			mg/l
pH value	5.5-11.5	G	7.78		8.25			units
Temperature	60	G	23.6		26.0			Deg C
Total Toxic Organics	5.844	G,C	0.100		0.100			mg/l

You must complete and sign the certification statements on the second page.

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INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	04 I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point(s) 004.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official:
	Title: Telephone:
	Signature: Date: 9/30/2010

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-1** Collect Date **09/16/10 11:00**
Client ID : **MSD 001 ANNUAL** Site : Locator : **COMP. 9/15-9/16/10**

Parameter	Qualifier	Result	Analysis Date	Analyst	Lab
EPA 200.7					STL
Sample Preparation			09/17/10 14:00	JS	
EPA 200.7 R4.4					STL
Silver		0.0042 mg/l	09/20/10 16:23	WPS	
EPA 625					STL
1,2,4-Trichlorobenzene	<	10 ug/l	09/23/10 15:45	JK	
1,2-Dichlorobenzene	<	10 ug/l	09/23/10 15:45	JK	
1,2-Diphenylhydrazine	<	10 ug/l	09/23/10 15:45	JK	
1,3-Dichlorobenzene	<	10 ug/l	09/23/10 15:45	JK	
1,4-Dichlorobenzene	<	10 ug/l	09/23/10 15:45	JK	
2,2'-oxybis(1-Chloropropane)	<	10 ug/l	09/23/10 15:45	JK	
2,4,6-Trichlorophenol	C,<	10 ug/l	09/23/10 15:45	JK	
2,4-Dichlorophenol	C,<	10 ug/l	09/23/10 15:45	JK	
2,4-Dimethylphenol	<	10 ug/l	09/23/10 15:45	JK	
2,4-Dinitrophenol	<	10 ug/l	09/23/10 15:45	JK	
2,4-Dinitrotoluene	<	10 ug/l	09/23/10 15:45	JK	
2,6-Dinitrotoluene	<	10 ug/l	09/23/10 15:45	JK	
2-Chloronaphthalene	<	10 ug/l	09/23/10 15:45	JK	
2-Chlorophenol	C,<	10 ug/l	09/23/10 15:45	JK	
2-Nitrophenol	<	10 ug/l	09/23/10 15:45	JK	
3,3'-Dichlorobenzidine	<	10 ug/l	09/23/10 15:45	JK	
4,6-Dinitro-2-methylphenol	<	10 ug/l	09/23/10 15:45	JK	
4-Bromophenyl-phenylether	<	10 ug/l	09/23/10 15:45	JK	
4-Chloro-3-methylphenol	<	10 ug/l	09/23/10 15:45	JK	
4-Chlorophenyl-phenyl Ether	<	10 ug/l	09/23/10 15:45	JK	
4-Nitrophenol	<	10 ug/l	09/23/10 15:45	JK	
Acenaphthene	<	10 ug/l	09/23/10 15:45	JK	
Acenaphthylene	<	10 ug/l	09/23/10 15:45	JK	
Anthracene	<	10 ug/l	09/23/10 15:45	JK	
Benzidine		18 ug/l	09/23/10 15:45	JK	
Benzo(a)anthracene	<	10 ug/l	09/23/10 15:45	JK	
Benzo(a)pyrene	<	10 ug/l	09/23/10 15:45	JK	
Benzo(b)fluoranthene	<	10 ug/l	09/23/10 15:45	JK	
Benzo(g,h,i)perylene	<	10 ug/l	09/23/10 15:45	JK	
Benzo(k)fluoranthene	<	10 ug/l	09/23/10 15:45	JK	
bis(2-Chloroethoxy)methane	C,<	10 ug/l	09/23/10 15:45	JK	
bis(2-Chloroethyl) Ether	<	10 ug/l	09/23/10 15:45	JK	
bis(2-Ethylhexyl)phthalate		110 ug/l	09/23/10 15:45	JK	
Butylbenzylphthalate	J	2.1 ug/l	09/23/10 15:45	JK	
Chrysene	<	10 ug/l	09/23/10 15:45	JK	
Di-n-butylphthalate	<	10 ug/l	09/23/10 15:45	JK	
Di-n-octylphthalate	<	10 ug/l	09/23/10 15:45	JK	
Dibenzo(a,h)anthracene	<	10 ug/l	09/23/10 15:45	JK	
Diethylphthalate	<	10 ug/l	09/23/10 15:45	JK	
Dimethylphthalate	C,<	10 ug/l	09/23/10 15:45	JK	

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3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH nelac

Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-1** Collect Date **09/16/10 11:00**
Client ID : **MSD 001 ANNUAL** Site : Locator : **COMP. 9/15-9/16/10**

Parameter	Qualifier	Result	Analysis Date	Analyst	
EPA 625					
Fluoranthene	<	10 ug/l	09/23/10 15:45	JK	
Fluorene	<	10 ug/l	09/23/10 15:45	JK	
Hexachlorobenzene	<	10 ug/l	09/23/10 15:45	JK	
Hexachlorobutadiene	<	10 ug/l	09/23/10 15:45	JK	
Hexachlorocyclopentadiene	<	10 ug/l	09/23/10 15:45	JK	
Hexachloroethane	<	10 ug/l	09/23/10 15:45	JK	
Indeno(1,2,3-cd)pyrene	<	10 ug/l	09/23/10 15:45	JK	
Isophorone	<	10 ug/l	09/23/10 15:45	JK	
N-Nitroso-di-n-propylamine	<	10 ug/l	09/23/10 15:45	JK	
N-Nitrosodimethylamine	<	10 ug/l	09/23/10 15:45	JK	
Naphthalene	<	10 ug/l	09/23/10 15:45	JK	
Nitrobenzene	<	10 ug/l	09/23/10 15:45	JK	
Pentachlorophenol	<	10 ug/l	09/23/10 15:45	JK	
Phenanthrene	<	10 ug/l	09/23/10 15:45	JK	
Phenol	<	10 ug/l	09/23/10 15:45	JK	
Pyrene	<	10 ug/l	09/23/10 15:45	JK	
SM (18) 2540D					STL
Solids, Total Suspended		25 mg/l	09/22/10 17:00	ACV	
SM (18) 5210B					STL
Biochemical Oxygen Demand		38 mg/l	09/17/10 12:56	DM	
SM (18) 5220D					STL
Chemical Oxygen Demand		130 mg/l	09/21/10 10:00	AV	

PDC Laboratories, Inc.

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Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-2** Collect Date **09/16/10 11:00**
Client ID : **MSD 001 ANNUAL** Site : Locator : **GRAB**

Parameter	Qualifier	Result	Analysis Date	Analyst	Lab
EPA 1664 REV 2/99					STL
Hexane Ext. Material (HEM) by SPE		9.4 mg/l	09/20/10 15:00	MEP	
EPA 624					PIA
1,1,1-Trichloroethane	<	5 ug/l	09/28/10 16:23	JMB	
1,1,2,2-Tetrachloroethane	<	5 ug/l	09/28/10 16:23	JMB	
1,1,2-Trichloroethane	<	5 ug/l	09/28/10 16:23	JMB	
1,1-Dichloroethane	<	5 ug/l	09/28/10 16:23	JMB	
1,1-Dichloroethene	<	5 ug/l	09/28/10 16:23	JMB	
1,2-Dichlorobenzene	<	5 ug/l	09/28/10 16:23	JMB	
1,2-Dichloroethane	<	5 ug/l	09/28/10 16:23	JMB	
1,2-Dichloropropane	<	5 ug/l	09/28/10 16:23	JMB	
1,3-Dichlorobenzene	<	5 ug/l	09/28/10 16:23	JMB	
1,4-Dichlorobenzene	<	5 ug/l	09/28/10 16:23	JMB	
2-Chloroethyl Vinyl Ether	<	5 ug/l	09/28/10 16:23	JMB	
Acrolein	<	50 ug/l	09/28/10 16:23	JMB	
Acrylonitrile	<	50 ug/l	09/28/10 16:23	JMB	
Benzene	<	5 ug/l	09/28/10 16:23	JMB	
Bromodichloromethane	<	5 ug/l	09/28/10 16:23	JMB	
Bromoform	<	5 ug/l	09/28/10 16:23	JMB	
Bromomethane	<	10 ug/l	09/28/10 16:23	JMB	
Carbon Tetrachloride	<	5 ug/l	09/28/10 16:23	JMB	
Chlorobenzene	<	5 ug/l	09/28/10 16:23	JMB	
Chloroethane	<	10 ug/l	09/28/10 16:23	JMB	
Chloroform	<	5 ug/l	09/28/10 16:23	JMB	
Chloromethane	<	10 ug/l	09/28/10 16:23	JMB	
cis-1,3-Dichloropropene	<	5 ug/l	09/28/10 16:23	JMB	
Dibromochloromethane	<	5 ug/l	09/28/10 16:23	JMB	
Ethylbenzene	<	5 ug/l	09/28/10 16:23	JMB	
Methylene Chloride	<	5 ug/l	09/28/10 16:23	JMB	
Tetrachloroethene	<	5 ug/l	09/28/10 16:23	JMB	
Toluene	<	5 ug/l	09/28/10 16:23	JMB	
trans-1,2-Dichloroethene	<	5 ug/l	09/28/10 16:23	JMB	
trans-1,3-Dichloropropene	<	5 ug/l	09/28/10 16:23	JMB	
Trichloroethene	<	5 ug/l	09/28/10 16:23	JMB	
Trichlorofluoromethane	<	10 ug/l	09/28/10 16:23	JMB	
Vinyl Chloride	<	10 ug/l	09/28/10 16:23	JMB	

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Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-3** Collect Date **09/16/10 11:30**
Client ID : **MSD 003 ANNUAL** Site : Locator : **COMP. 9/15-9/16/10**

Parameter	Qualifier	Result	Analysis Date	Analyst	Lab
EPA 625					STL
1,2,4-Trichlorobenzene	<	10 ug/l	09/23/10 18:38	JK	
1,2-Dichlorobenzene	<	10 ug/l	09/23/10 18:38	JK	
1,2-Diphenylhydrazine	<	10 ug/l	09/23/10 18:38	JK	
1,3-Dichlorobenzene	<	10 ug/l	09/23/10 18:38	JK	
1,4-Dichlorobenzene	<	10 ug/l	09/23/10 18:38	JK	
2,2'-oxybis(1-Chloropropane)	<	10 ug/l	09/23/10 18:38	JK	
2,4,6-Trichlorophenol	C,<	10 ug/l	09/23/10 18:38	JK	
2,4-Dichlorophenol	C,<	10 ug/l	09/23/10 18:38	JK	
2,4-Dimethylphenol	<	10 ug/l	09/23/10 18:38	JK	
2,4-Dinitrophenol	<	10 ug/l	09/23/10 18:38	JK	
2,4-Dinitrotoluene	<	10 ug/l	09/23/10 18:38	JK	
2,6-Dinitrotoluene	<	10 ug/l	09/23/10 18:38	JK	
2-Chloronaphthalene	<	10 ug/l	09/23/10 18:38	JK	
2-Chlorophenol	C,<	10 ug/l	09/23/10 18:38	JK	
2-Nitrophenol	<	10 ug/l	09/23/10 18:38	JK	
3,3'-Dichlorobenzidine	<	10 ug/l	09/23/10 18:38	JK	
4,6-Dinitro-2-methylphenol	<	10 ug/l	09/23/10 18:38	JK	
4-Bromophenyl-phenylether	<	10 ug/l	09/23/10 18:38	JK	
4-Chloro-3-methylphenol	<	10 ug/l	09/23/10 18:38	JK	
4-Chlorophenyl-phenyl Ether	<	10 ug/l	09/23/10 18:38	JK	
4-Nitrophenol	<	10 ug/l	09/23/10 18:38	JK	
Acenaphthene	<	10 ug/l	09/23/10 18:38	JK	
Acenaphthylene	<	10 ug/l	09/23/10 18:38	JK	
Anthracene	<	10 ug/l	09/23/10 18:38	JK	
Benzidine		60 ug/l	09/23/10 18:38	JK	
Benzo(a)anthracene	<	10 ug/l	09/23/10 18:38	JK	
Benzo(a)pyrene	<	10 ug/l	09/23/10 18:38	JK	
Benzo(b)fluoranthene	<	10 ug/l	09/23/10 18:38	JK	
Benzo(g,h,i)perylene	<	10 ug/l	09/23/10 18:38	JK	
Benzo(k)fluoranthene	<	10 ug/l	09/23/10 18:38	JK	
bis(2-Chloroethoxy)methane	C,<	10 ug/l	09/23/10 18:38	JK	
bis(2-Chloroethyl) Ether	<	10 ug/l	09/23/10 18:38	JK	
bis(2-Ethylhexyl)phthalate		20 ug/l	09/23/10 18:38	JK	
Butylbenzylphthalate	J	2.5 ug/l	09/23/10 18:38	JK	
Chrysene	<	10 ug/l	09/23/10 18:38	JK	
Di-n-butylphthalate	<	10 ug/l	09/23/10 18:38	JK	
Di-n-octylphthalate	<	10 ug/l	09/23/10 18:38	JK	
Dibenzo(a,h)anthracene	<	10 ug/l	09/23/10 18:38	JK	
Diethylphthalate	<	10 ug/l	09/23/10 18:38	JK	
Dimethylphthalate	C,<	10 ug/l	09/23/10 18:38	JK	
Fluoranthene	<	10 ug/l	09/23/10 18:38	JK	
Fluorene	<	10 ug/l	09/23/10 18:38	JK	
Hexachlorobenzene	<	10 ug/l	09/23/10 18:38	JK	
Hexachlorobutadiene	<	10 ug/l	09/23/10 18:38	JK	
Hexachlorocyclopentadiene	<	10 ug/l	09/23/10 18:38	JK	
Hexachloroethane	<	10 ug/l	09/23/10 18:38	JK	

PDC Laboratories, Inc.

3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

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Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-3** Collect Date **09/16/10 11:30**
Client ID : **MSD 003 ANNUAL** Site : Locator : **COMP. 9/15-9/16/10**

Parameter	Qualifier	Result	Analysis Date	Analyst	
EPA 625					
Indeno(1,2,3-cd)pyrene	<	10 ug/l	09/23/10 18:38	JK	
Isophorone	<	10 ug/l	09/23/10 18:38	JK	
N-Nitroso-di-n-propylamine	<	10 ug/l	09/23/10 18:38	JK	
N-Nitrosodimethylamine	<	10 ug/l	09/23/10 18:38	JK	
Naphthalene	<	10 ug/l	09/23/10 18:38	JK	
Nitrobenzene	<	10 ug/l	09/23/10 18:38	JK	
Pentachlorophenol	<	10 ug/l	09/23/10 18:38	JK	
Phenanthrene	<	10 ug/l	09/23/10 18:38	JK	
Phenol	J	3.2 ug/l	09/23/10 18:38	JK	
Pyrene	<	10 ug/l	09/23/10 18:38	JK	
SM (18) 2540D					STL
Solids, Total Suspended		220 mg/l	09/22/10 17:00	ACV	
SM (18) 5210B					STL
Biochemical Oxygen Demand		160 mg/l	09/17/10 12:56	DM	
SM (18) 5220D					STL
Chemical Oxygen Demand		420 mg/l	09/21/10 10:00	AV	

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Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-4** Collect Date **09/16/10 11:30**
Client ID : **MSD 003 ANNUAL** Site : Locator : **GRAB**

Parameter	Qualifier	Result	Analysis Date	Analyst	Lab
EPA 1664 REV 2/99					STL
Hexane Ext. Material (HEM) by SPE		6 mg/l	09/20/10 15:00	MEP	
EPA 624					PIA
1,1,1-Trichloroethane	<	5 ug/l	09/28/10 16:55	JMB	
1,1,2,2-Tetrachloroethane	<	5 ug/l	09/28/10 16:55	JMB	
1,1,2-Trichloroethane	<	5 ug/l	09/28/10 16:55	JMB	
1,1-Dichloroethane	<	5 ug/l	09/28/10 16:55	JMB	
1,1-Dichloroethene	<	5 ug/l	09/28/10 16:55	JMB	
1,2-Dichlorobenzene	<	5 ug/l	09/28/10 16:55	JMB	
1,2-Dichloroethane	<	5 ug/l	09/28/10 16:55	JMB	
1,2-Dichloropropane	<	5 ug/l	09/28/10 16:55	JMB	
1,3-Dichlorobenzene	<	5 ug/l	09/28/10 16:55	JMB	
1,4-Dichlorobenzene	<	5 ug/l	09/28/10 16:55	JMB	
2-Chloroethyl Vinyl Ether	<	5 ug/l	09/28/10 16:55	JMB	
Acrolein	<	50 ug/l	09/28/10 16:55	JMB	
Acrylonitrile	<	50 ug/l	09/28/10 16:55	JMB	
Benzene	<	5 ug/l	09/28/10 16:55	JMB	
Bromodichloromethane	<	5 ug/l	09/28/10 16:55	JMB	
Bromoform	<	5 ug/l	09/28/10 16:55	JMB	
Bromomethane	<	10 ug/l	09/28/10 16:55	JMB	
Carbon Tetrachloride	<	5 ug/l	09/28/10 16:55	JMB	
Chlorobenzene	<	5 ug/l	09/28/10 16:55	JMB	
Chloroethane	<	10 ug/l	09/28/10 16:55	JMB	
Chloroform	<	5 ug/l	09/28/10 16:55	JMB	
Chloromethane	<	10 ug/l	09/28/10 16:55	JMB	
cis-1,3-Dichloropropene	<	5 ug/l	09/28/10 16:55	JMB	
Dibromochloromethane	<	5 ug/l	09/28/10 16:55	JMB	
Ethylbenzene	<	5 ug/l	09/28/10 16:55	JMB	
Methylene Chloride	<	5 ug/l	09/28/10 16:55	JMB	
Tetrachloroethene	<	5 ug/l	09/28/10 16:55	JMB	
Toluene	<	5 ug/l	09/28/10 16:55	JMB	
trans-1,2-Dichloroethene	<	5 ug/l	09/28/10 16:55	JMB	
trans-1,3-Dichloropropene	<	5 ug/l	09/28/10 16:55	JMB	
Trichloroethene	<	5 ug/l	09/28/10 16:55	JMB	
Trichlorofluoromethane	<	10 ug/l	09/28/10 16:55	JMB	
Vinyl Chloride	<	10 ug/l	09/28/10 16:55	JMB	

PDC Laboratories, Inc.

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Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-5** Collect Date **09/16/10 10:30**
Client ID : **MSD 002 ANNUAL** Site : Locator : **COMP. 9/15-9/16/10**

Parameter	Qualifier	Result	Analysis Date	Analyst	Lab
EPA 200.7					STL
Sample Preparation			09/17/10 14:00	JS	
EPA 200.7 R4.4					STL
Silver		0.0028 mg/l	09/20/10 16:27	WPS	
EPA 625					STL
1,2,4-Trichlorobenzene	<	10 ug/l	09/23/10 21:30	JK	
1,2-Dichlorobenzene	<	10 ug/l	09/23/10 21:30	JK	
1,2-Diphenylhydrazine	<	10 ug/l	09/23/10 21:30	JK	
1,3-Dichlorobenzene	<	10 ug/l	09/23/10 21:30	JK	
1,4-Dichlorobenzene	<	10 ug/l	09/23/10 21:30	JK	
2,2'-oxybis(1-Chloropropane)	<	10 ug/l	09/23/10 21:30	JK	
2,4,6-Trichlorophenol	C,<	10 ug/l	09/23/10 21:30	JK	
2,4-Dichlorophenol	C,<	10 ug/l	09/23/10 21:30	JK	
2,4-Dimethylphenol	<	10 ug/l	09/23/10 21:30	JK	
2,4-Dinitrophenol	<	10 ug/l	09/23/10 21:30	JK	
2,4-Dinitrotoluene	<	10 ug/l	09/23/10 21:30	JK	
2,6-Dinitrotoluene	<	10 ug/l	09/23/10 21:30	JK	
2-Chloronaphthalene	<	10 ug/l	09/23/10 21:30	JK	
2-Chlorophenol	C,<	10 ug/l	09/23/10 21:30	JK	
2-Nitrophenol	<	10 ug/l	09/23/10 21:30	JK	
3,3'-Dichlorobenzidine	<	10 ug/l	09/23/10 21:30	JK	
4,6-Dinitro-2-methylphenol	<	10 ug/l	09/23/10 21:30	JK	
4-Bromophenyl-phenylether	<	10 ug/l	09/23/10 21:30	JK	
4-Chloro-3-methylphenol	<	10 ug/l	09/23/10 21:30	JK	
4-Chlorophenyl-phenyl Ether	<	10 ug/l	09/23/10 21:30	JK	
4-Nitrophenol	<	10 ug/l	09/23/10 21:30	JK	
Acenaphthene	<	10 ug/l	09/23/10 21:30	JK	
Acenaphthylene	<	10 ug/l	09/23/10 21:30	JK	
Anthracene	<	10 ug/l	09/23/10 21:30	JK	
Benzidine		34 ug/l	09/23/10 21:30	JK	
Benzo(a)anthracene	<	10 ug/l	09/23/10 21:30	JK	
Benzo(a)pyrene	<	10 ug/l	09/23/10 21:30	JK	
Benzo(b)fluoranthene	<	10 ug/l	09/23/10 21:30	JK	
Benzo(g,h,i)perylene	<	10 ug/l	09/23/10 21:30	JK	
Benzo(k)fluoranthene	<	10 ug/l	09/23/10 21:30	JK	
bis(2-Chloroethoxy)methane	C,<	10 ug/l	09/23/10 21:30	JK	
bis(2-Chloroethyl) Ether	<	10 ug/l	09/23/10 21:30	JK	
bis(2-Ethylhexyl)phthalate		48 ug/l	09/23/10 21:30	JK	
Butylbenzylphthalate	J	3.3 ug/l	09/23/10 21:30	JK	
Chrysene	<	10 ug/l	09/23/10 21:30	JK	
Di-n-butylphthalate	<	10 ug/l	09/23/10 21:30	JK	
Di-n-octylphthalate	<	10 ug/l	09/23/10 21:30	JK	
Dibenzo(a,h)anthracene	<	10 ug/l	09/23/10 21:30	JK	
Diethylphthalate	<	10 ug/l	09/23/10 21:30	JK	
Dimethylphthalate	C,<	10 ug/l	09/23/10 21:30	JK	

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PDC Laboratories, Inc.

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ACCREDITED IN ACCORDANCE WITH nelac

Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-5** Collect Date **09/16/10 10:30**
Client ID : **MSD 002 ANNUAL** Site : Locator : **COMP. 9/15-9/16/10**

Parameter	Qualifier	Result	Analysis Date	Analyst	
EPA 625					
Fluoranthene	<	10 ug/l	09/23/10 21:30	JK	
Fluorene	<	10 ug/l	09/23/10 21:30	JK	
Hexachlorobenzene	<	10 ug/l	09/23/10 21:30	JK	
Hexachlorobutadiene	<	10 ug/l	09/23/10 21:30	JK	
Hexachlorocyclopentadiene	<	10 ug/l	09/23/10 21:30	JK	
Hexachloroethane	<	10 ug/l	09/23/10 21:30	JK	
Indeno(1,2,3-cd)pyrene	<	10 ug/l	09/23/10 21:30	JK	
Isophorone	<	10 ug/l	09/23/10 21:30	JK	
N-Nitroso-di-n-propylamine	<	10 ug/l	09/23/10 21:30	JK	
N-Nitrosodimethylamine	<	10 ug/l	09/23/10 21:30	JK	
Naphthalene	<	10 ug/l	09/23/10 21:30	JK	
Nitrobenzene	<	10 ug/l	09/23/10 21:30	JK	
Pentachlorophenol	<	10 ug/l	09/23/10 21:30	JK	
Phenanthrene	<	10 ug/l	09/23/10 21:30	JK	
Phenol	J	2.2 ug/l	09/23/10 21:30	JK	
Pyrene	<	10 ug/l	09/23/10 21:30	JK	
SM (18) 2540D					STL
Solids, Total Suspended		150 mg/l	09/22/10 17:00	ACV	
SM (18) 5210B					STL
Biochemical Oxygen Demand		170 mg/l	09/17/10 12:56	DM	
SM (18) 5220D					STL
Chemical Oxygen Demand		320 mg/l	09/21/10 10:00	AV	

PDC Laboratories, Inc.

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Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-6** Collect Date **09/16/10 10:30**
Client ID : **MSD 002 ANNUAL** Site : Locator : **GRAB**

Parameter	Qualifier	Result	Analysis Date	Analyst	Lab
EPA 1664 REV 2/99					STL
Hexane Ext. Material (HEM) by SPE		20 mg/l	09/20/10 15:00	MEP	
EPA 624					PIA
1,1,1-Trichloroethane	<	5 ug/l	09/28/10 17:26	JMB	
1,1,2,2-Tetrachloroethane	<	5 ug/l	09/28/10 17:26	JMB	
1,1,2-Trichloroethane	<	5 ug/l	09/28/10 17:26	JMB	
1,1-Dichloroethane	<	5 ug/l	09/28/10 17:26	JMB	
1,1-Dichloroethene	<	5 ug/l	09/28/10 17:26	JMB	
1,2-Dichlorobenzene	<	5 ug/l	09/28/10 17:26	JMB	
1,2-Dichloroethane	<	5 ug/l	09/28/10 17:26	JMB	
1,2-Dichloropropane	<	5 ug/l	09/28/10 17:26	JMB	
1,3-Dichlorobenzene	<	5 ug/l	09/28/10 17:26	JMB	
1,4-Dichlorobenzene		6 ug/l	09/28/10 17:26	JMB	
2-Chloroethyl Vinyl Ether	<	5 ug/l	09/28/10 17:26	JMB	
Acrolein	<	50 ug/l	09/28/10 17:26	JMB	
Acrylonitrile	<	50 ug/l	09/28/10 17:26	JMB	
Benzene	<	5 ug/l	09/28/10 17:26	JMB	
Bromodichloromethane	<	5 ug/l	09/28/10 17:26	JMB	
Bromoform	<	5 ug/l	09/28/10 17:26	JMB	
Bromomethane	<	10 ug/l	09/28/10 17:26	JMB	
Carbon Tetrachloride	<	5 ug/l	09/28/10 17:26	JMB	
Chlorobenzene	<	5 ug/l	09/28/10 17:26	JMB	
Chloroethane	<	10 ug/l	09/28/10 17:26	JMB	
Chloroform		13 ug/l	09/28/10 17:26	JMB	
Chloromethane	<	10 ug/l	09/28/10 17:26	JMB	
cis-1,3-Dichloropropene	<	5 ug/l	09/28/10 17:26	JMB	
Dibromochloromethane	<	5 ug/l	09/28/10 17:26	JMB	
Ethylbenzene		46 ug/l	09/28/10 17:26	JMB	
Methylene Chloride	<	5 ug/l	09/28/10 17:26	JMB	
Tetrachloroethene	<	5 ug/l	09/28/10 17:26	JMB	
Toluene	<	5 ug/l	09/28/10 17:26	JMB	
trans-1,2-Dichloroethene	<	5 ug/l	09/28/10 17:26	JMB	
trans-1,3-Dichloropropene	<	5 ug/l	09/28/10 17:26	JMB	
Trichloroethene	<	5 ug/l	09/28/10 17:26	JMB	
Trichlorofluoromethane	<	10 ug/l	09/28/10 17:26	JMB	
Vinyl Chloride	<	10 ug/l	09/28/10 17:26	JMB	

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Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-7** Collect Date **09/16/10 12:30**
Client ID : **MSD 005 ANNUAL** Site : Locator : **COMP. 9/15-9/16/10**

Parameter	Qualifier	Result	Analysis Date	Analyst	Lab
EPA 625					STL
1,2,4-Trichlorobenzene	<	10 ug/l	09/23/10 17:55	JK	
1,2-Dichlorobenzene	<	10 ug/l	09/23/10 17:55	JK	
1,2-Diphenylhydrazine	<	10 ug/l	09/23/10 17:55	JK	
1,3-Dichlorobenzene	<	10 ug/l	09/23/10 17:55	JK	
1,4-Dichlorobenzene	<	10 ug/l	09/23/10 17:55	JK	
2,2'-oxybis(1-Chloropropane)	<	10 ug/l	09/23/10 17:55	JK	
2,4,6-Trichlorophenol	C,<	10 ug/l	09/23/10 17:55	JK	
2,4-Dichlorophenol	C,<	10 ug/l	09/23/10 17:55	JK	
2,4-Dimethylphenol	<	10 ug/l	09/23/10 17:55	JK	
2,4-Dinitrophenol	<	10 ug/l	09/23/10 17:55	JK	
2,4-Dinitrotoluene	<	10 ug/l	09/23/10 17:55	JK	
2,6-Dinitrotoluene	<	10 ug/l	09/23/10 17:55	JK	
2-Chloronaphthalene	<	10 ug/l	09/23/10 17:55	JK	
2-Chlorophenol	C,<	10 ug/l	09/23/10 17:55	JK	
2-Nitrophenol	<	10 ug/l	09/23/10 17:55	JK	
3,3'-Dichlorobenzidine	<	10 ug/l	09/23/10 17:55	JK	
4,6-Dinitro-2-methylphenol	<	10 ug/l	09/23/10 17:55	JK	
4-Bromophenyl-phenylether	<	10 ug/l	09/23/10 17:55	JK	
4-Chloro-3-methylphenol	<	10 ug/l	09/23/10 17:55	JK	
4-Chlorophenyl-phenyl Ether	<	10 ug/l	09/23/10 17:55	JK	
4-Nitrophenol	<	10 ug/l	09/23/10 17:55	JK	
Acenaphthene	<	10 ug/l	09/23/10 17:55	JK	
Acenaphthylene	<	10 ug/l	09/23/10 17:55	JK	
Anthracene	<	10 ug/l	09/23/10 17:55	JK	
Benzidine	<	10 ug/l	09/23/10 17:55	JK	
Benzo(a)anthracene	<	10 ug/l	09/23/10 17:55	JK	
Benzo(a)pyrene	<	10 ug/l	09/23/10 17:55	JK	
Benzo(b)fluoranthene	<	10 ug/l	09/23/10 17:55	JK	
Benzo(g,h,i)perylene	<	10 ug/l	09/23/10 17:55	JK	
Benzo(k)fluoranthene	<	10 ug/l	09/23/10 17:55	JK	
bis(2-Chloroethoxy)methane	C,<	10 ug/l	09/23/10 17:55	JK	
bis(2-Chloroethyl) Ether	<	10 ug/l	09/23/10 17:55	JK	
bis(2-Ethylhexyl)phthalate	<	10 ug/l	09/23/10 17:55	JK	
Butylbenzylphthalate	<	10 ug/l	09/23/10 17:55	JK	
Chrysene	<	10 ug/l	09/23/10 17:55	JK	
Di-n-butylphthalate	<	10 ug/l	09/23/10 17:55	JK	
Di-n-octylphthalate	<	10 ug/l	09/23/10 17:55	JK	
Dibenzo(a,h)anthracene	<	10 ug/l	09/23/10 17:55	JK	
Diethylphthalate	<	10 ug/l	09/23/10 17:55	JK	
Dimethylphthalate	C,<	10 ug/l	09/23/10 17:55	JK	
Fluoranthene	<	10 ug/l	09/23/10 17:55	JK	
Fluorene	<	10 ug/l	09/23/10 17:55	JK	
Hexachlorobenzene	<	10 ug/l	09/23/10 17:55	JK	
Hexachlorobutadiene	<	10 ug/l	09/23/10 17:55	JK	
Hexachlorocyclopentadiene	<	10 ug/l	09/23/10 17:55	JK	
Hexachloroethane	<	10 ug/l	09/23/10 17:55	JK	

PDC Laboratories, Inc.

3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

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Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-7** Collect Date **09/16/10 12:30**
Client ID : **MSD 005 ANNUAL** Site : Locator : **COMP. 9/15-9/16/10**

Parameter	Qualifier	Result	Analysis Date	Analyst	
EPA 625					
Indeno(1,2,3-cd)pyrene	<	10 ug/l	09/23/10 17:55	JK	
Isophorone	<	10 ug/l	09/23/10 17:55	JK	
N-Nitroso-di-n-propylamine	<	10 ug/l	09/23/10 17:55	JK	
N-Nitrosodimethylamine	<	10 ug/l	09/23/10 17:55	JK	
Naphthalene	<	10 ug/l	09/23/10 17:55	JK	
Nitrobenzene	<	10 ug/l	09/23/10 17:55	JK	
Pentachlorophenol	<	10 ug/l	09/23/10 17:55	JK	
Phenanthrene	<	10 ug/l	09/23/10 17:55	JK	
Phenol	<	10 ug/l	09/23/10 17:55	JK	
Pyrene	<	10 ug/l	09/23/10 17:55	JK	
					STL
SM (18) 2540D					
Solids, Total Suspended		43 mg/l	09/22/10 17:00	ACV	
					STL
SM (18) 5210B					
Biochemical Oxygen Demand		18 mg/l	09/17/10 12:56	DM	
					STL
SM (18) 5220D					
Chemical Oxygen Demand		120 mg/l	09/21/10 10:00	AV	

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Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-8** Collect Date **09/16/10 12:30**
Client ID : **MSD 005 ANNUAL** Site : Locator : **GRAB**

Parameter	Qualifier	Result	Analysis Date	Analyst	Lab
EPA 1664 REV 2/99					STL
Hexane Ext. Material (HEM) by SPE		7.2 mg/l	09/20/10 15:00	MEP	
EPA 624					PIA
1,1,1-Trichloroethane	<	5 ug/l	09/28/10 17:59	JMB	
1,1,2,2-Tetrachloroethane	<	5 ug/l	09/28/10 17:59	JMB	
1,1,2-Trichloroethane	<	5 ug/l	09/28/10 17:59	JMB	
1,1-Dichloroethane	<	5 ug/l	09/28/10 17:59	JMB	
1,1-Dichloroethene	<	5 ug/l	09/28/10 17:59	JMB	
1,2-Dichlorobenzene	<	5 ug/l	09/28/10 17:59	JMB	
1,2-Dichloroethane	<	5 ug/l	09/28/10 17:59	JMB	
1,2-Dichloropropane	<	5 ug/l	09/28/10 17:59	JMB	
1,3-Dichlorobenzene	<	5 ug/l	09/28/10 17:59	JMB	
1,4-Dichlorobenzene	<	5 ug/l	09/28/10 17:59	JMB	
2-Chloroethyl Vinyl Ether	<	5 ug/l	09/28/10 17:59	JMB	
Acrolein	<	50 ug/l	09/28/10 17:59	JMB	
Acrylonitrile	<	50 ug/l	09/28/10 17:59	JMB	
Benzene	<	5 ug/l	09/28/10 17:59	JMB	
Bromodichloromethane	<	5 ug/l	09/28/10 17:59	JMB	
Bromoform	<	5 ug/l	09/28/10 17:59	JMB	
Bromomethane	<	10 ug/l	09/28/10 17:59	JMB	
Carbon Tetrachloride	<	5 ug/l	09/28/10 17:59	JMB	
Chlorobenzene	<	5 ug/l	09/28/10 17:59	JMB	
Chloroethane	<	10 ug/l	09/28/10 17:59	JMB	
Chloroform	<	5 ug/l	09/28/10 17:59	JMB	
Chloromethane	<	10 ug/l	09/28/10 17:59	JMB	
cis-1,3-Dichloropropene	<	5 ug/l	09/28/10 17:59	JMB	
Dibromochloromethane	<	5 ug/l	09/28/10 17:59	JMB	
Ethylbenzene	<	5 ug/l	09/28/10 17:59	JMB	
Methylene Chloride	<	5 ug/l	09/28/10 17:59	JMB	
Tetrachloroethene	<	5 ug/l	09/28/10 17:59	JMB	
Toluene	<	5 ug/l	09/28/10 17:59	JMB	
trans-1,2-Dichloroethene	<	5 ug/l	09/28/10 17:59	JMB	
trans-1,3-Dichloropropene	<	5 ug/l	09/28/10 17:59	JMB	
Trichloroethene	<	5 ug/l	09/28/10 17:59	JMB	
Trichlorofluoromethane	<	10 ug/l	09/28/10 17:59	JMB	
Vinyl Chloride	<	10 ug/l	09/28/10 17:59	JMB	

PDC Laboratories, Inc.

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Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-9** Collect Date **09/16/10 12:00**
Client ID : **MSD 004 ANNUAL** Site : Locator : **COMP. 9/15-9/16/10**

Parameter	Qualifier	Result	Analysis Date	Analyst	Lab
EPA 625					STL
1,2,4-Trichlorobenzene	<	10 ug/l	09/23/10 20:47	JK	
1,2-Dichlorobenzene	<	10 ug/l	09/23/10 20:47	JK	
1,2-Diphenylhydrazine	<	10 ug/l	09/23/10 20:47	JK	
1,3-Dichlorobenzene	<	10 ug/l	09/23/10 20:47	JK	
1,4-Dichlorobenzene	<	10 ug/l	09/23/10 20:47	JK	
2,2'-oxybis(1-Chloropropane)	<	10 ug/l	09/23/10 20:47	JK	
2,4,6-Trichlorophenol	C,<	10 ug/l	09/23/10 20:47	JK	
2,4-Dichlorophenol	C,<	10 ug/l	09/23/10 20:47	JK	
2,4-Dimethylphenol	<	10 ug/l	09/23/10 20:47	JK	
2,4-Dinitrophenol	<	10 ug/l	09/23/10 20:47	JK	
2,4-Dinitrotoluene	<	10 ug/l	09/23/10 20:47	JK	
2,6-Dinitrotoluene	<	10 ug/l	09/23/10 20:47	JK	
2-Chloronaphthalene	<	10 ug/l	09/23/10 20:47	JK	
2-Chlorophenol	C,<	10 ug/l	09/23/10 20:47	JK	
2-Nitrophenol	<	10 ug/l	09/23/10 20:47	JK	
3,3'-Dichlorobenzidine	<	10 ug/l	09/23/10 20:47	JK	
4,6-Dinitro-2-methylphenol	<	10 ug/l	09/23/10 20:47	JK	
4-Bromophenyl-phenylether	<	10 ug/l	09/23/10 20:47	JK	
4-Chloro-3-methylphenol	<	10 ug/l	09/23/10 20:47	JK	
4-Chlorophenyl-phenyl Ether	<	10 ug/l	09/23/10 20:47	JK	
4-Nitrophenol	<	10 ug/l	09/23/10 20:47	JK	
Acenaphthene	<	10 ug/l	09/23/10 20:47	JK	
Acenaphthylene	<	10 ug/l	09/23/10 20:47	JK	
Anthracene	<	10 ug/l	09/23/10 20:47	JK	
Benzidine	<	10 ug/l	09/23/10 20:47	JK	
Benzo(a)anthracene	<	10 ug/l	09/23/10 20:47	JK	
Benzo(a)pyrene	<	10 ug/l	09/23/10 20:47	JK	
Benzo(b)fluoranthene	<	10 ug/l	09/23/10 20:47	JK	
Benzo(g,h,i)perylene	<	10 ug/l	09/23/10 20:47	JK	
Benzo(k)fluoranthene	<	10 ug/l	09/23/10 20:47	JK	
bis(2-Chloroethoxy)methane	C,<	10 ug/l	09/23/10 20:47	JK	
bis(2-Chloroethyl) Ether	<	10 ug/l	09/23/10 20:47	JK	
bis(2-Ethylhexyl)phthalate	<	10 ug/l	09/23/10 20:47	JK	
Butylbenzylphthalate	<	10 ug/l	09/23/10 20:47	JK	
Chrysene	<	10 ug/l	09/23/10 20:47	JK	
Di-n-butylphthalate	<	10 ug/l	09/23/10 20:47	JK	
Di-n-octylphthalate	<	10 ug/l	09/23/10 20:47	JK	
Dibenzo(a,h)anthracene	<	10 ug/l	09/23/10 20:47	JK	
Diethylphthalate	<	10 ug/l	09/23/10 20:47	JK	
Dimethylphthalate	C,<	10 ug/l	09/23/10 20:47	JK	
Fluoranthene	<	10 ug/l	09/23/10 20:47	JK	
Fluorene	<	10 ug/l	09/23/10 20:47	JK	
Hexachlorobenzene	<	10 ug/l	09/23/10 20:47	JK	
Hexachlorobutadiene	<	10 ug/l	09/23/10 20:47	JK	
Hexachlorocyclopentadiene	<	10 ug/l	09/23/10 20:47	JK	
Hexachloroethane	<	10 ug/l	09/23/10 20:47	JK	

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Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-9** Collect Date **09/16/10 12:00**
Client ID : **MSD 004 ANNUAL** Site : Locator : **COMP. 9/15-9/16/10**

Parameter	Qualifier	Result	Analysis Date	Analyst	
EPA 625					
Indeno(1,2,3-cd)pyrene	<	10 ug/l	09/23/10 20:47	JK	
Isophorone	<	10 ug/l	09/23/10 20:47	JK	
N-Nitroso-di-n-propylamine	<	10 ug/l	09/23/10 20:47	JK	
N-Nitrosodimethylamine	<	10 ug/l	09/23/10 20:47	JK	
Naphthalene	<	10 ug/l	09/23/10 20:47	JK	
Nitrobenzene	<	10 ug/l	09/23/10 20:47	JK	
Pentachlorophenol	<	10 ug/l	09/23/10 20:47	JK	
Phenanthrene	<	10 ug/l	09/23/10 20:47	JK	
Phenol	<	10 ug/l	09/23/10 20:47	JK	
Pyrene	<	10 ug/l	09/23/10 20:47	JK	
SM (18) 2540D					STL
Solids, Total Suspended		12 mg/l	09/22/10 17:00	ACV	
SM (18) 5220D					STL
Chemical Oxygen Demand		31 mg/l	09/21/10 10:00	AV	

PDC Laboratories, Inc.
3278 N. Highway 67 - Florissant, MO 63033
(314) 432-0550 - (800) 333-FAST (3278) - FAX (314) 432-4977

ACCREDITED IN ACCORDANCE WITH ilac-lab

Laboratory Results

St. Louis University Hospital
3655 Vista Ave

St. Louis, MO 63110
Attn : Mr. Skip Bowders

Date Received : 09/16/10 12:36
Report Date 09/30/10
Customer # : 277382
P.O. Number :
Facility :

Sample No: **10098350-10** Collect Date **09/16/10 12:00**
Client ID : **MSD 004 ANNUAL** Site : Locator : **GRAB**

Parameter	Qualifier	Result	Analysis Date	Analyst	Lab
EPA 624					PIA
1,1,1-Trichloroethane	<	5 ug/l	09/28/10 18:31	JMB	
1,1,2,2-Tetrachloroethane	<	5 ug/l	09/28/10 18:31	JMB	
1,1,2-Trichloroethane	<	5 ug/l	09/28/10 18:31	JMB	
1,1-Dichloroethane	<	5 ug/l	09/28/10 18:31	JMB	
1,1-Dichloroethene	<	5 ug/l	09/28/10 18:31	JMB	
1,2-Dichlorobenzene	<	5 ug/l	09/28/10 18:31	JMB	
1,2-Dichloroethane	<	5 ug/l	09/28/10 18:31	JMB	
1,2-Dichloropropane	<	5 ug/l	09/28/10 18:31	JMB	
1,3-Dichlorobenzene	<	5 ug/l	09/28/10 18:31	JMB	
1,4-Dichlorobenzene	<	5 ug/l	09/28/10 18:31	JMB	
2-Chloroethyl Vinyl Ether	<	5 ug/l	09/28/10 18:31	JMB	
Acrolein	<	50 ug/l	09/28/10 18:31	JMB	
Acrylonitrile	<	50 ug/l	09/28/10 18:31	JMB	
Benzene	<	5 ug/l	09/28/10 18:31	JMB	
Bromodichloromethane	<	5 ug/l	09/28/10 18:31	JMB	
Bromoform	<	5 ug/l	09/28/10 18:31	JMB	
Bromomethane	<	10 ug/l	09/28/10 18:31	JMB	
Carbon Tetrachloride	<	5 ug/l	09/28/10 18:31	JMB	
Chlorobenzene	<	5 ug/l	09/28/10 18:31	JMB	
Chloroethane	<	10 ug/l	09/28/10 18:31	JMB	
Chloroform	<	5 ug/l	09/28/10 18:31	JMB	
Chloromethane	<	10 ug/l	09/28/10 18:31	JMB	
cis-1,3-Dichloropropene	<	5 ug/l	09/28/10 18:31	JMB	
Dibromochloromethane	<	5 ug/l	09/28/10 18:31	JMB	
Ethylbenzene	<	5 ug/l	09/28/10 18:31	JMB	
Methylene Chloride	<	5 ug/l	09/28/10 18:31	JMB	
Tetrachloroethene	<	5 ug/l	09/28/10 18:31	JMB	
Toluene	<	5 ug/l	09/28/10 18:31	JMB	
trans-1,2-Dichloroethene	<	5 ug/l	09/28/10 18:31	JMB	
trans-1,3-Dichloropropene	<	5 ug/l	09/28/10 18:31	JMB	
Trichloroethene	<	5 ug/l	09/28/10 18:31	JMB	
Trichlorofluoromethane	<	10 ug/l	09/28/10 18:31	JMB	
Vinyl Chloride	<	10 ug/l	09/28/10 18:31	JMB	

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OCT 22 2010
DIVISION OF
ENVIRONMENTAL COMPLIANCE

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

CLIENT: St. Louis University Hospital	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED
ADDRESS: 3635 Vista Ave.	PHONE NUMBER: 314-577-8070	FAX NUMBER	EMAIL ADDRESS	
CITY, STATE: St. Louis, MO 63110	SAMPLER: Lawrence Olive		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID	
CONTACT PERSON: Mr. Skip Bowders	SAMPLER'S SIGNATURE: [signature]			

(FOR LAB USE ONLY)
LOGIN # 10098350
LOGGED BY: HE
LAB PROJ #
TEMPLATE:
PROJ. MGR:

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles	REMARKS
MSD 001	9/15-16/10	11:00-11:00		x	WW	H2SO4,4C	X						
(Annual)	↓	↓		x	WW	Cool 4C		x					pH = 8.38
				x	WW	HNO3			x				Temp = 27.3°C
				x	WW	Cool 4C					x		
	9/16/10	11:00	x		WW	H2SO4, 4C				x			
	↓	11:00	x		WW	HCl, 4C						x	
MSD 003	9/15-16/10	11:30-11:30		x	WW	H2SO4,4C	X						pH = 8.17
(Annual)	↓	↓		x	WW	Cool 4C		x					Temp = 24.6°C
				x	WW	Cool 4C					x		
	9/16/10	11:30	x		WW	H2SO4, 4C				x			field charges
	↓	11:30	x		WW	HCl, 4C						x	

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OCT 22 2010
DIVISION OF ENVIRONMENTAL COMPLIANCE

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ Fastrak™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	9/16/10	15:00	Heather Kaplan	9/16/10	15:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	2.9 degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

MSD 038428

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

CLIENT: St. Louis University Hospital	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED / (FOR LAB USE ONLY)
ADDRESS: 3635 Vista Ave.	PHONE NUMBER: 314-577-8070	FAX NUMBER	EMAIL ADDRESS	LOGIN # ____ LOGGED BY: ____ LAB PROJ # TEMPLATE: PROJ. MGR:
CITY, STATE, ZIP: St. Louis, MO 63110	SAMPLER: [signature]		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID	
CONTACT PERSON: Mr. Skip Bowders	SAMPLER'S SIGNATURE: [signature]			

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	BOD, TSS	Silver	Oil & Grease	Semivolatiles	Volatiles		REMARKS
MSD 002	9/15-16/10	10:30-10:30		x	WW	H2SO4,4C	X							
(Annual)	↓	↓		x	WW	Cool 4C		x						pH = 7.27
				x	WW	HNO3			x					Temp = 28.5°C
				x	WW	Cool 4C					x			
	9/16/10	10:30	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	HCl, 4C						x		
MSD 005	9/15-16/10	12:30-12:30		x	WW	H2SO4,4C	X							pH = 8.25
(Annual)	↓	↓		x	WW	Cool 4C		x						Temp = 26.0°C
				x	WW	Cool 4C					x			
	9/16/10	12:30	x		WW	H2SO4, 4C				x				
	↓	↓	x		WW	HCl, 4C						x		

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ *Featrak*™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	9/16/10	15:00	Heather Caulkett	9/16/10	15:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	____ degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

MSD 038429

PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67
Florissant, MO 63033
www.pdclab.com www.environmetrics.net

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488
Fax (314) 432-4977 or (314) 921-4494

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

St. Louis University Hospital	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	ANALYSIS REQUESTED	(FOR LAB USE ONLY)
3635 Vista Ave	PHONE NUMBER 314-577-8070	FAX NUMBER	EMAIL ADDRESS		LOGIN #
St. Louis MO 63110	SAMPLE LOCATION: Chemical Plant		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID		LOGGED BY: LAB PROJ # TEMPLATE: PROJ. MGR:
SAMPLE PERSON: Mr. Skip Bowders					

SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	G	C	MATRIX	PRESERVATIVE	COD	TSS	Semivolatiles	Volatiles				REMARKS
MSD 004	9/15-16/10	12:00-12:00		x	WW	H2SO4,4C	X							
(Annual)	↓	↓		x	WW	Cool 4C		x						pH = 7.78
				x	WW	Cool 4C			x					Temp = 23.68
	9/16/10	12:00	x		WW	HCl, 4C				x				

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TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APROVAL AND SURCHARGE)
☐ Normal (8-10 Bus Days) ☐ Rush (5 Bus Days) ☐ *Fastrak*™ (3 Bus Days) ☐ 1-2 Business Days ☐ Same Day

Date Due _____ Results by: ☐ E-Mail ☐ FAX ☐ Phone Call

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____

RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
[signature]	9/16/10	15:00	Heather Gaebert	9/16/10	15:00
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time
RELINQUISHED BY: (Signature)	Date	Time	RECEIVED BY:	Date	Time

COMMENTS: (FOR LAB USE ONLY)

Sample Temperature upon receipt	_____ degrees C
Chill process started prior to receipt	Y or N
Sample(s) received on ice	Y or N
Proper bottles received in good condition	Y or N
Bottles filled with adequate volume	Y or N
Samples received within hold time(s)	Y or N (Excludes typical field parameters)
Date and Time taken from sample bottle	

MSD 038430

Metropolitan St. Louis Sewer District

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

August 19, 2010

Skip Bowders, Energy Center Supervisor
ST. LOUIS UNIVERSITY HOSPITAL
3635 Vista Avenue
Post Office Box 15250
St. Louis, MO 63110

RE: NOTICE OF VIOLATION – WASTEWATER DISCHARGE PERMIT NO. 4112195100
For premise at: 3635 Vista Avenue, 63110

Dear Mr. Bowders:

Thank you for your second quarter 2010 report, including your sampling results and certifications. Your facility is regulated under the permit above, which requires you to self-monitor the discharge at each of the identified sampling points. Monitoring must occur for the parameters and frequency specified in your permit, and the results must be reported quarterly.

VIOLATION OF PERMIT TERMS/CONDITIONS:

Permit Standard Condition I.A.1 – requires sampling and analyses for all regulated substances at the frequencies specified in the permit.

- The report did not include measurement results for pH at all five sample points (001, 002, 003, 004, and 005).
- Your permit specifies a self-monitoring frequency of once per three months for pH at all five sample points listed above.

REQUIRED ACTION/RESPONSE:

No further action or response is required. Please remember that both pH and temperature measurements must be taken immediately when the sample is collected, and not after transporting to a laboratory for analysis.

Thank you for helping us to comply with state and federal regulations. If you have any questions, please contact me at 314.436.8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

SM Rehmer

Scott M. Rehmer
Assistant Engineer

cc: Doug Mendoza
Mike Kynion

SR
8-18

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

Premise Address: 3635 & 3655 Vista Ave., St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: MMA

Analyses Performed By: TEKLAB, INC

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		002		001		004		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		06/15/2010		06/15/2010		06/15/2010		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		2:30 Am		2:45 Am		3:00 AM		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW		E	12334	E	12490	E	12221	
pH (*)	5.5-11.5							
O/G	200	C	15	C	9			Mg/L
Ag	0.24	C	0.0031	C	0.0114			"
COD	600	C	239	C	211	C	41	"
TSS	350	C	69	C	31	C	8	"
BOD	300	C	92	C	25			"
TEMPERATURE		G	1.6	G	1.6	G	1.6	C
			8:30 A		8:45 A		9:00 A	
For comp times, used								
Typical composites were								
19-hR previous SMR's.								
SR								
(*) To follow as an addendum								

You must complete and sign the certification statements on the second page.

08/18/2010 06:20 3142685563 SLUH BLDG SVCS PAGE 02/07

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

Premise Address: 3836 & 3655 Vista Ave., St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☒(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: MMA

Analyses Performed By: TEKLAB, INC

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS		003		005				
DATES ON WHICH SAMPLES WERE COLLECTED		06/15/2010		06/15/2010				
TIMES AT WHICH SAMPLES WERE COLLECTED		3:15 Am		3:30 Am				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW		E	12290	E	12305			
pH (*)	6.5-11.5							
O/G	200	G	8	G	22			mg/L
COD	600	C	215	C	202			"
TSS	350	C	132	C	106			"
BOD	300	C	14	C	62			"
TEMPERATURE		G	1.6	G	1.6			C
			9:15 A		9:30 A			
(*) TO FOLLOW AS AN ADDENDUM								

You must complete and sign the certification statements on the second page.

08/18/2010 06:20 3142685563 SLUH BLDG SVCS PAGE 03/07

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	GM I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point(s) 004.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: PAUL V. BOWDERS
	Title: SUPERVISOR Telephone: 314-577-8036
	Signature: [signature] Date: 8/15/2010

08/18/2010 06:20 3142685563 SLUH BLDG SVCS PAGE 04/07

Metropolitan St. Louis Sewer District

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

August 17, 2010

Skip Bowders, Energy Center Supervisor
ST. LOUIS UNIVERSITY HOSPITAL
3635 Vista Avenue
Post Office Box 15250
St. Louis, MO 63110

RE: NOTICE OF VIOLATION – WASTEWATER DISCHARGE PERMIT NO. 4112195100
For premise at: 3635 Vista Avenue, 63110

Dear Mr. Bowders:

Your facility's wastewater discharge is regulated under the permit above. The permit requires you to self-monitor the discharge at each of the identified sampling points. Monitoring must occur for the parameters and frequency specified in your permit. You must report the results quarterly. Your report for the second quarter 2010 was due by July 28, 2010.

VIOLATION OF PERMIT TERMS/CONDITIONS:

Permit Standard Condition I.A.9 – requires that self-monitoring reports be completed and submitted no later than 28 days after the end of each quarter. MSD has not received the quarterly report.

Failure to perform the reporting requirements of your permit will place your company in Significant Noncompliance (SNC), as defined in District ordinance 12559 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by MSD.

REQUIRED ACTION/RESPONSE:

You must submit the first quarter 2010 report not later than August 28. In the report, the requirements include sampling and the completion of all applicable certifications.

Please note that for reports submitted more than 30 days past the due date of July 28, the late report is considered to be Significant Noncompliance (SNC). MSD is then required to include the company in its annual newspaper listing of SNC companies, and to initiate additional enforcement action to secure submittal of the report, if necessary.

Thank you for helping us to comply with state and federal regulations. If you have any questions, please contact me at 314.436.8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

SM Rehmer

Scott Rehmer, Assistant Engineer

cc: Doug Mendoza
Mike Kynion

1402 South Grand Blvd.
St. Louis, MO 63104-1085
Fax: 314-977-5560
www.slu.edu

SAINT LOUIS
UNIVERSITY

Office of Environmental Safety & Services
Environmental Safety Office (C307)
314-977-8608

Radiation Safety Office (RB5)
314-977-8609

July 27, 2010

Douglas M. Mendoza
Industrial Waste Engineer
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(FAX #: 436-8753)

SUBJECT: Quarterly Reports Of Radionuclide Discharge For The Period April - June 2010

Dear Mr. Mendoza:

Attached you will find copies of the MSD Industrial User Radioactive Materials Discharge Reports for all Saint Louis University and affiliated facilities. Copies of some of these reports for which wastewater permits are held have been forwarded to Mr. Todd Stirewalt (Anheuser Busch Institute, Saint Louis University Hospital).

In order to avoid confusion, any discharges from the laboratories in Cardinal Glennon Hospital's basement (which had at one time been reported to you by Cardinal Glennon) will be incorporated into this report.

If you have any questions regarding these reports, please contact me at 977-6896.

Sincerely,

Kevin Ferguson
Health Physicist

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ENVIRONMENTAL COMPLIANCE

SR
8-2

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ■(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

☑ I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

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Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 7/27/10

1402 South Grand Blvd.
St. Louis, MO 63104-1085
Fax: 314-977-5560
www.slu.edu

SAINT LOUIS
UNIVERSITY

Office of Environmental Safety & Services
Environmental Safety Office (C307)
314-977-8608

Radiation Safety Office (RB5)
314-977-8609

April 29, 2010

Douglas M. Mendoza
Industrial Waste Engineer
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(FAX #: 436-8753)

SUBJECT: Quarterly Reports Of Radionuclide Discharge For The Period Jan. - March 2010

Dear Mr. Mendoza:

Attached you will find copies of the MSD Industrial User Radioactive Materials Discharge Reports for all Saint Louis University and affiliated facilities. Copies of some of these reports for which wastewater permits are held have been forwarded to Mr. Todd Stirewalt (Anheuser Busch Institute, Saint Louis University Hospital).

In order to avoid confusion, any discharges from the laboratories in Cardinal Glennon Hospital's basement (which had at one time been reported to you by Cardinal Glennon) will be incorporated into this report.

If you have any questions regarding these reports, please contact me at 977-6896.

Sincerely,

Kevin Ferguson
Health Physicist

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SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ■(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

☑ I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

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DIVISION OF
ENVIRONMENTAL COMPLIANCE

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 4/29/10

SR
4-23

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: St. Louis University Hospital

Permit No: 41121951-00 Effective Date: Expiration Date:

Premise Address: 3635 Vista Avenue

Monitoring Period: X (JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐ (OCT-DEC)

Samples Collected By: Metropolitan Manufacturers' Association

Analyses Performed By: Teklab, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨			001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨			03/30/10		03/30/10		03/30/10		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨			8:15a-2:15A		8:00a-2:00A		8:30a-2:30a		
PARAMETER		LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			E	92000	E	56000	E	5000	
pH		5.5-11.5	G	7.4	G	7.3	G	7.4	
Temp			G	65.3/18.5	G	69.8/21.0	G	68.36/20.2	F/C
BOD		300	C	95	C	152	C	79	Mg/L
COD		600	C	348	C	412	C	297	Mg/L
TSS		350	C	84	C	90	C	138	Mg/L
O/G		200	G	30	G	36	G	7	Mg/L
Ag		0.5	C	0.0151	C	<0.010	C		Mg/L

You must complete and sign the certification statements on the second page.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: St. Louis University Hospital

Permit No: 41121951-00 Effective Date: Expiration Date:

Premise Address: 3635 Vista Avenue

Monitoring Period: x(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐ (OCT-DEC)

Samples Collected By: Metropolitan Manufacturers' Association

Analyses Performed By: Teklab, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨			004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨			N/A		03/30/10				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨					8:45a-2:45a				
	PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW			E	936	E	5000			
pH		5.5-11.5	G		G	7.6			
Temp			G		G	60.26 F =	15.7 C		F
BOD		300			C	142			Mg/L
COD		600	C		C	549			Mg/L
TSS		350	C		C	200			Mg/L
O/G		200	G		G	19			Mg/L
TTO		5.52	G		G				Mg/L

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	004 I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point(s) 004.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: PAUL BOWDEN
	Title: _____ Telephone: _____
	Signature: _____ Date: 4/23/10

SR
2-26

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: St. Louis University Hospital

Permit No: 41121951-00 Effective Date: 1-1-08 Expiration Date: 12-31-2011

Premise Address: 3635 Vista Avenue

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) x(OCT-DEC)

Samples Collected By: Metropolitan Manufacturers' Association

Analyses Performed By: Teklab, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		002		002				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		10/27/09		11/17/09				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		10:45 a		9:15a				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW		E	56000	E	56000			
O/G	200	G	22	G	62			

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You must complete and sign the certification statements on the second page.

MSD 038443

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: St. Louis University Hospital

Permit No: 41121951-00 Effective Date: Expiration Date:

Premise Address: 3635 Vista Avenue

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) x(OCT-DEC)

Samples Collected By: Metropolitan Manufacturers' Association

Analyses Performed By: Teklab, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		001		002		003		
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		12/14/09		12/14/09		12/14/09		
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		10:15a-1:15p		9:45a-12:45p		8:45a-11:45a		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW		E	92000	E	56000	E	5000	
pH	5.5-11.5	G	8.5	G	8.3	G	8.1	
Temp		G	60.62/15.9	G	60.26/15.7	G	61.16/16.2	F/C
BOD	300	C	196	C	142	C	154	Mg/L
COD	600	C	424	C	365	C	445	Mg/L
TSS	350	C	110	C	59	C	131	Mg/L
O/G	200	G	22	G	14	G	16	Mg/L
Ag	0.5	C	0.0089	C	0.0041	C		Mg/L
TTO (collected 12/30/09)	5.52	G	0.0025	G	0.005	G	0.0026	Mg/L

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You must complete and sign the certification statements on the second page.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: St. Louis University Hospital

Permit No: 41121951-00 Effective Date: Expiration Date:

Premise Address: 3635 Vista Avenue

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) x(OCT-DEC)

Samples Collected By: Metropolitan Manufacturers' Association

Analyses Performed By: Teklab, Inc.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨		004		005				
DATES ON WHICH SAMPLES WERE COLLECTED ⇨		12/14/09		12/14/09				
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨		8:15a-11:15a		9:15a-12:15pm				
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW		E	936	E	5000			
pH	5.5-11.5	G	8.2	G	8.4			
Temp		G	54.86/12.7	G	59.18/15.1			F/C
BOD	300			C	120			Mg/L
COD	600	C	<50	C	310			Mg/L
TSS	350	C	5	C	95			Mg/L
O/G	200	G		G	28			Mg/L
TTO (collected 12/30/09)	5.52	G		G	0.0031			Mg/L

You must complete and sign the certification statements on the second page.

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MSD 038445

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS**.

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived: SM I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point(s) 004.
B	NO CHANGE IN WASTEWATER DISCHARGE AT ACTIVE CONNECTIONS WITHOUT SAMPLE POINTS For permit special conditions that waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification: _____ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C	NO CHANGE IN STATUS OF INACTIVE CONNECTIONS For permit special conditions that waive monitoring at inactive connection points, you are required to make the following certification: _____ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur: _____ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
E	NO DISCHARGE OF CATEGORICAL WASTE For permit special conditions that prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification: _____ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
F	CYANIDE NOT USED OR GENERATED IN 40 CFR 439 OPERATIONS Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) _____ subject to the following certification: _____ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G	NO DISCHARGE OF TOXIC ORGANICS AT 40 CFR 413, 40 CFR 433, OR 40 CFR 469 SAMPLE POINTS Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) _____ subject to the following certification: _____ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
H	PHARMACEUTICAL POLLUTANTS NOT USED OR GENERATED IN 40 CFR 439 OPERATIONS Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from monitoring for certain 40 CFR 439-regulated pollutants at the Pharmaceutical sample point(s) _____ subject to the following certification: _____ I certify, since the last discharge monitoring report, the 40 CFR 439-regulated pollutants, as determined in permittee's report dated _____ have not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439. In addition, the above-referenced report remains valid.
I	SURROGATE MONITORING ALLOWED FOR 40 CFR 439 OPERATIONS Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from monitoring for certain 40 CFR 439-regulated pollutants, and replaced by monitoring for surrogate pollutant(s), at the Pharmaceutical sample point(s) _____ subject to the following certification: _____ I certify, since the last discharge monitoring report, the 40 CFR 439-regulated pollutants, as determined in permittee's report

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	dated _____ continue to receive the same degree of treatment as the surrogate pollutant(s). In addition, the above-referenced report remains valid.
J	MULTIPLE WASTE SUBPART ALLOWED FOR 40 CFR 437 OPERATIONS
	Discharges subject to Centralized Waste Treatment Standards (40 CFR 437) can be exempted from regulation under separate 40 CFR 437 Subparts, and replaced by from limitations and monitoring under 40 CFR Subpart D (Multiple Waste Subcategory) at the Combined Waste Treatment sample point(s) _____ subject to the following certification: _____ I certify, since the last discharge monitoring report, the treatment systems for 40 CFR 437-regulated waste streams as described in permittee's report dated _____ continue to provide equivalent treatment. In addition, the above-referenced report remains valid.
K	POLLUTION PREVENTION DISCHARGE ALLOWED FOR 40 CFR 455 OPERATIONS
	Discharges subject to Pesticide Chemicals Categorical Standards (40 CFR 455) may occur for pollution prevention allowable waste streams at the Pesticide Chemicals sample point(s) _____ subject to the following certification: _____ I certify, since the last discharge monitoring report, the pollution prevention program for 40 CFR 437-regulated waste streams as described in permittee's report dated _____ continues to be properly implemented.
L	CYANIDE NOT USED IN 40 CFR 465 OPERATIONS
	Discharges subject to Coil Coating Categorical Standards (40 CFR 465) can be exempted from more frequent than once/year monitoring for Cyanide at the Coil Coating sample point(s) _____ subject to the following certification: _____ I certify, since the last discharge monitoring report, cyanide has not been used in the coil coating processes subject to Categorical Standards in 40 CFR 465.
M	==========NON-STANDARD SPECIAL CERTIFICATION==========
	[Describe non-standard special condition requiring certification] _____ I certify, since the last discharge monitoring report, ----------.
N	BIOCIDES NOT USED IN 40 CFR 430 OPERATIONS
	Discharges subject to Pulp, Paper, and Paperboard Standards (40 CFR 430, Subpart ----------) can be exempted from limitations and monitoring for pentachlorophenol and trichlorophenol at the Pulp, Paper, and Paperboard sample point ---------- subject to the following certification: _____ I certify, since the last discharge monitoring report, pentachlorophenol and trichlorophenol have not been used in any pulp, paper, and paperboard process subject to Categorical Standards in 40 CFR 430, Subpart ----------.
O	NO DISCHARGE OF HAZARDOUS HAULED WASTE
	For permit special conditions that prohibit discharge of hazardous waste to the District, you are required to make the following certification: _____ I certify, since the last discharge monitoring report, there has been no discharge of hazardous waste to the District.

PART IV: GENERAL CERTIFICATION STATEMENTS

A	NO DISCHARGE OF TOXIC ORGANICS AT ORDINANCE SAMPLE POINTS
	If sample points subject only to MSD Ordinance limits are subject to TTO monitoring, and your premise neither uses or discharges toxic organics, you can be exempted from TTO monitoring subject to the following certification: _____ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.
B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below: I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Print or type name of signing official: PAUL V. BOWDEN Title: SUPERVISOR Telephone: 314-577-8076 Signature: [signature] Date: 12/1/10

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TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09120598
Lab ID: 09120598-001
Report Date: 21-Dec-09

Client Project: SLUH 001, 002, 003, 004, 005
Client Sample ID: 001
Collection Date: 12/14/2009 2:00:00 PM
Matrix: WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		**22**	mg/L	1	12/14/2009 5:30:00 PM	HMH
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Silver	NELAP	0.0100	J	**0.0089**	mg/L	1	12/16/2009 5:12:30 PM	LAL
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		**424**	mg/L	1	12/17/2009 11:00:00 AM	BSJ
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		**110**	mg/L	1	12/15/2009 1:45:00 PM	HMH
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		**196**	mg/L	1	12/16/2009 1:40:00 PM	JMT

Sample Narrative

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TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09120598
Lab ID: 09120598-002
Report Date: 21-Dec-09

Client Project: SLUH 001, 002, 003, 004, 005
Client Sample ID: 002
Collection Date: 12/14/2009 2:00:00 PM
Matrix: WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		**14**	mg/L	1	12/14/2009 5:30:00 PM	HMH
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Silver	NELAP	0.0100	J	**0.0041**	mg/L	1	12/16/2009 5:19:07 PM	LAL
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		**365**	mg/L	1	12/17/2009 11:00:00 AM	BSJ
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		**59**	mg/L	1	12/15/2009 1:45:00 PM	HMH
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		**142**	mg/L	1	12/16/2009 1:40:00 PM	JMT

Sample Narrative

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IL ELAP and NELAP Accredited - Accreditation #100226

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09120598
Lab ID: 09120598-003
Report Date: 21-Dec-09

Client Project: SLUH 001, 002, 003, 004, 005
Client Sample ID: 003
Collection Date: 12/14/2009 2:00:00 PM
Matrix: WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		**16**	mg/L	1	12/14/2009 5:30:00 PM	HMH
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		**445**	mg/L	1	12/17/2009 11:00:00 AM	BSJ
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		**131**	mg/L	1	12/15/2009 1:45:00 PM	HMH
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		**154**	mg/L	1	12/16/2009 1:40:00 PM	JMT

Sample Narrative

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IL ELAP and NELAP Accredited - Accreditation #100226

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09120598
Lab ID: 09120598-004
Report Date: 21-Dec-09

Client Project: SLUH 001, 002, 003, 004, 005
Client Sample ID: 004
Collection Date: 12/14/2009 2:00:00 PM
Matrix: WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		**< 50**	mg/L	1	12/17/2009 11:00:00 AM	BSJ
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6	J	**5**	mg/L	1	12/15/2009 1:45:00 PM	HMH

Sample Narrative

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ENVIRONMENTAL COMPLIANCE

IL ELAP and NELAP Accredited - Accreditation #100226

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09120598
Lab ID: 09120598-005
Report Date: 21-Dec-09

Client Project: SLUH 001, 002, 003, 004, 005
Client Sample ID: 005
Collection Date: 12/14/2009 2:00:00 PM
Matrix: WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		**28**	mg/L	1	12/14/2009 5:30:00 PM	HMH
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		**310**	mg/L	1	12/17/2009 11:00:00 AM	BSJ
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		**95**	mg/L	1	12/15/2009 1:45:00 PM	HMH
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		**120**	mg/L	1	12/16/2009 2:00:00 PM	JMT

Sample Narrative

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CHAIN OF CUSTODY

pg. 1 of 1 Work Order # 09120558

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: MMA
Address: 100 Weaver Ct. Ste. A
City / State / Zip: Festus, MO 63028
Contact: Becky Dix Phone: (314) 966-1006
E-Mail: Fax:

Samples on: ☒ Ice ☐ Blue Ice ☐ No Ice 1.1 °C
Preserved in: ☐ Lab ☒ Field
FOR LAB USE ONLY
Lab Notes: Teklab, Inc. SAH 12/14/09
Courier Pick Up
Comments: Headspace in 001/4 (2), 003/4 (1) and 005/4 (2). SAH 12/14/09. SAH 12/14/09
002/4 VOA vials not filled/empty upon arrival. SAH

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. ☐ Yes ☐ No
- Are these samples known to be hazardous? ☐ Yes ☐ No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. ☐ Yes ☐ No

Project Name / Number: SLUH 004 003 005 002 004
Sample Collector's Name: Dave Althage
Results Requested: ☑ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other_____ ☐ 3 Day (50% Surcharge)
Billing Instructions:

Lab Use Only	Sample Identification	Date/Time Sampled	UNPRES	HNO_3	NaOH	H_2SO_4	HCL	MeOH	$NaHSO_4$	Other	Water	Drinking Water	Soil	Sludge	Sp. Waste	BOD	COD	O/G	TSS	TTO *	AG	VOA (S)	VOA					
09120558-01	001	12-14-9 2:00P	9	2		9	8				X					X	X	X	X		X							
-002	002	12-14-9 2:00P														X	X	X	X	X	X	X	X					
-003	003	"														X	X	X	X	X								
-004	004	"															X		X	X								
-005	005	"														X	X	X	X	X								

Per Becky Dix, TTO not required for 004. Cancel TTO's for 001, 002, 003 and 005 due to sampling errors.
SAH 12/15/09

* No TTO containers received for 004/4 - received for 001/4 instead.
SAH 12/14/09

Relinquished By	Date / Time	Received By	Date / Time
[signature]	12/14/09 1400	Marvin A. Dalling II	12/14/09 1400
Marvin A. Dalling II	12/14/09 1630	[signature]	12/14/09 1630

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE & YELLOW – LAB PINK – SAMPLER'S COPY

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MSD 038453

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09121160
Lab ID: 09121160-001
Report Date: 11-Jan-10

Client Project: SLUH 001, 2, 3, 5/4
Client Sample ID: SLUH 001/4
Collection Date: 12/30/2009 9:45:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 624, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	1/7/2010 3:54:00 PM	CCF
Chloroform	NELAP	5.0	J	**2.5**	µg/L	1	1/7/2010 3:54:00 PM	CCF
Methylene chloride	NELAP	5.0		**ND**	µg/L	1	1/7/2010 3:54:00 PM	CCF
Toluene	NELAP	5.0		**ND**	µg/L	1	1/7/2010 3:54:00 PM	CCF
Surr: 1,2-Dichloroethane-d4		74.7-129		**95.5**	%REC	1	1/7/2010 3:54:00 PM	CCF
Surr: 4-Bromofluorobenzene		86-119		**106.1**	%REC	1	1/7/2010 3:54:00 PM	CCF
Surr: Dibromofluoromethane		81.7-123		**97.5**	%REC	1	1/7/2010 3:54:00 PM	CCF
Surr: Toluene-d8		84.3-114		**98.2**	%REC	1	1/7/2010 3:54:00 PM	CCF
EPA 600 625, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
2,4-Dinitrophenol	NELAP	0.200	H	**ND**	mg/L	10	1/7/2010 5:52:00 PM	DMH
Bis(2-chloroethoxy)methane	NELAP	0.100	H	**ND**	mg/L	10	1/7/2010 5:52:00 PM	DMH
Phenol	NELAP	0.050	H	**ND**	mg/L	10	1/7/2010 5:52:00 PM	DMH
Surr: 2,4,6-Tribromophenol		27.7-149	H	**72.0**	%REC	10	1/7/2010 5:52:00 PM	DMH
Surr: 2-Fluorophenol		10.6-78.7	H	**35.6**	%REC	10	1/7/2010 5:52:00 PM	DMH
Surr: Phenol-d5		9.04-52.9	H	**24.2**	%REC	10	1/7/2010 5:52:00 PM	DMH

Sample Narrative

EPA 600 625, Semi-Volatile Organic Compounds by GC/MS

Sample analysis did not meet hold time requirements.

Elevated reporting limit due to high levels of target and/or non-target analytes.

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TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09121160
Lab ID: 09121160-002
Report Date: 11-Jan-10

Client Project: SLUH 001, 2, 3, 5/4
Client Sample ID: SLUH 002/4
Collection Date: 12/30/2009 9:30:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 624, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	1/7/2010 4:25:00 PM	CCF
Chloroform	NELAP	5.0		**5.0**	µg/L	1	1/7/2010 4:25:00 PM	CCF
Methylene chloride	NELAP	5.0		**ND**	µg/L	1	1/7/2010 4:25:00 PM	CCF
Toluene	NELAP	5.0		**ND**	µg/L	1	1/7/2010 4:25:00 PM	CCF
Surr: 1,2-Dichloroethane-d4		74.7-129		**95.8**	%REC	1	1/7/2010 4:25:00 PM	CCF
Surr: 4-Bromofluorobenzene		86-119		**103.2**	%REC	1	1/7/2010 4:25:00 PM	CCF
Surr: Dibromofluoromethane		81.7-123		**99.2**	%REC	1	1/7/2010 4:25:00 PM	CCF
Surr: Toluene-d8		84.3-114		**98.6**	%REC	1	1/7/2010 4:25:00 PM	CCF
EPA 600 625, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
2,4-Dinitrophenol	NELAP	0.200	H	**ND**	mg/L	10	1/7/2010 6:21:00 PM	DMH
Bis(2-chloroethoxy)methane	NELAP	0.100	H	**ND**	mg/L	10	1/7/2010 6:21:00 PM	DMH
Phenol	NELAP	0.050	H	**ND**	mg/L	10	1/7/2010 6:21:00 PM	DMH
Surr: 2,4,6-Tribromophenol		27.7-149	H	**78.2**	%REC	10	1/7/2010 6:21:00 PM	DMH
Surr: 2-Fluorophenol		10.6-78.7	H	**38.2**	%REC	10	1/7/2010 6:21:00 PM	DMH
Surr: Phenol-d5		9.04-52.9	H	**26.0**	%REC	10	1/7/2010 6:21:00 PM	DMH

Sample Narrative

EPA 600 625, Semi-Volatile Organic Compounds by GC/MS

Sample analysis did not meet hold time requirements.

Elevated reporting limit due to high levels of target and/or non-target analytes.

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TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09121160
Lab ID: 09121160-003
Report Date: 11-Jan-10

Client Project: SLUH 001, 2, 3, 5/4
Client Sample ID: SLUH 003/4
Collection Date: 12/30/2009 10:10:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 624, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	1/7/2010 4:56:00 PM	CCF
Chloroform	NELAP	5.0	J	**2.6**	µg/L	1	1/7/2010 4:56:00 PM	CCF
Methylene chloride	NELAP	5.0		**ND**	µg/L	1	1/7/2010 4:56:00 PM	CCF
Toluene	NELAP	5.0		**ND**	µg/L	1	1/7/2010 4:56:00 PM	CCF
Surr: 1,2-Dichloroethane-d4		74.7-129		**96.5**	%REC	1	1/7/2010 4:56:00 PM	CCF
Surr: 4-Bromofluorobenzene		86-119		**102.2**	%REC	1	1/7/2010 4:56:00 PM	CCF
Surr: Dibromofluoromethane		81.7-123		**96.7**	%REC	1	1/7/2010 4:56:00 PM	CCF
Surr: Toluene-d8		84.3-114		**98.4**	%REC	1	1/7/2010 4:56:00 PM	CCF
EPA 600 625, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
2,4-Dinitrophenol	NELAP	0.200	H	**ND**	mg/L	10	1/7/2010 6:50:00 PM	DMH
Bis(2-chloroethoxy)methane	NELAP	0.100	H	**ND**	mg/L	10	1/7/2010 6:50:00 PM	DMH
Phenol	NELAP	0.050	H	**ND**	mg/L	10	1/7/2010 6:50:00 PM	DMH
Surr: 2,4,6-Tribromophenol		27.7-149	H	**75.8**	%REC	10	1/7/2010 6:50:00 PM	DMH
Surr: 2-Fluorophenol		10.6-78.7	H	**38.2**	%REC	10	1/7/2010 6:50:00 PM	DMH
Surr: Phenol-d5		9.04-52.9	H	**24.4**	%REC	10	1/7/2010 6:50:00 PM	DMH

Sample Narrative

EPA 600 625, Semi-Volatile Organic Compounds by GC/MS

Sample analysis did not meet hold time requirements.

Elevated reporting limit due to high levels of target and/or non-target analytes.

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TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09121160
Lab ID: 09121160-004
Report Date: 11-Jan-10

Client Project: SLUH 001, 2, 3, 5/4
Client Sample ID: SLUH 005/4
Collection Date: 12/30/2009 10:20:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 624, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	1/7/2010 5:26:00 PM	CCF
Chloroform	NELAP	5.0	J	**1.2**	µg/L	1	1/7/2010 5:26:00 PM	CCF
Methylene chloride	NELAP	5.0		**ND**	µg/L	1	1/7/2010 5:26:00 PM	CCF
Toluene	NELAP	5.0	J	**1.9**	µg/L	1	1/7/2010 5:26:00 PM	CCF
Surr: 1,2-Dichloroethane-d4		74.7-129		**94.4**	%REC	1	1/7/2010 5:26:00 PM	CCF
Surr: 4-Bromofluorobenzene		86-119		**101.5**	%REC	1	1/7/2010 5:26:00 PM	CCF
Surr: Dibromofluoromethane		81.7-123		**96.6**	%REC	1	1/7/2010 5:26:00 PM	CCF
Surr: Toluene-d8		84.3-114		**100.1**	%REC	1	1/7/2010 5:26:00 PM	CCF
EPA 600 625, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
2,4-Dinitrophenol	NELAP	0.200	H	**ND**	mg/L	10	1/7/2010 7:19:00 PM	DMH
Bis(2-chloroethoxy)methane	NELAP	0.100	H	**ND**	mg/L	10	1/7/2010 7:19:00 PM	DMH
Phenol	NELAP	0.050	H	**ND**	mg/L	10	1/7/2010 7:19:00 PM	DMH
Surr: 2,4,6-Tribromophenol		27.7-149	H	**86.0**	%REC	10	1/7/2010 7:19:00 PM	DMH
Surr: 2-Fluorophenol		10.6-78.7	H	**40.8**	%REC	10	1/7/2010 7:19:00 PM	DMH
Surr: Phenol-d5		9.04-52.9	H	**25.8**	%REC	10	1/7/2010 7:19:00 PM	DMH

Sample Narrative

EPA 600 625, Semi-Volatile Organic Compounds by GC/MS

Sample analysis did not meet hold time requirements.

Elevated reporting limit due to high levels of target and/or non-target analytes.

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CHAIN OF CUSTODY

pg. 1 of 1 Work Order # 09121160

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: MMA
Address: 100 Weaver Ct. Ste. A
City / State / Zip: Festus MO 63028
Contact: Becky Dix Phone (314) 966-1006
E-Mail: Fax:

Samples on: ☒ Ice ☐ Blue Ice ☐ No Ice 11.6 °C
Preserved in: ☐ Lab ☐ Field
FOR LAB USE ONLY
Lab Notes: Teklab, Inc. Courier Pick Up

Comments: 002 - 4 qt. VOA, 32 oz VOA
001 - " " "

*Only SVOC/VOC containers received for all samples. SAH 12/30/09

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- Are these samples known to be involved in litigation? If yes, a surcharge will apply. ☐ Yes ☒ No
- Are these samples known to be hazardous? ☐ Yes ☒ No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. ☐ Yes ☒ No

Project Name / Number: SLUH 001,2,3,5/4
Sample Collector's Name: Dave Althage
Results Requested: ☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other_____ ☐ 3 Day (50% Surcharge)
Billing Instructions:

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	Other	MATRIX: Water	Drinking Water	Soil	Sludge	Sp. Waste	BOD	COD	O/G	TSS	TTO	AG
09121160 001	SLUH 001/4	12-30-09 9:45A	A				8				X					X	X	X	X		X
002	" 002/4	" 9:30A														X	X	X	X		X
003	" 003/4	" 10:10A														X	X	X	X	X	
004	" 005/4	" 10:20A														X	X	X	X	X	

INDICATE ANALYSIS REQUESTED SAH 12/30/09

Headspace in one vial each: 002/4 and 003/4. SAH 12/30/09

Relinquished By	Date / Time	Received By	Date / Time
Dave Althage	12-30-09 / 1249	[signature]	12-30-09 1249
[signature]	12-30-09 1440	[signature]	12-30-09 1440

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE & YELLOW – LAB PINK – SAMPLER'S COPY

MSD 038458

Metropolitan St. Louis Sewer District

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

February 12, 2010

Skip Bowders, Maintenance Supervisor
ST. LOUIS UNIVERSITY HOSPITAL
3635 Vista Avenue, Post Office Box 15250
St. Louis, MO 63110

RE: NOTICE OF VIOLATION – WASTEWATER DISCHARGE PERMIT NO. 4112195100
For premise at: 3635 & 3655 Vista Avenue, 63110

Dear Mr. Bowders:

Your facility's wastewater discharge is regulated under the permit above. The permit requires you to self-monitor the discharge at each of the identified sampling points. Monitoring must occur for the parameters and frequency specified in your permit. You must report the results quarterly. Your report for the fourth quarter 2009 was due by January 28, 2010.

VIOLATION OF PERMIT TERMS/CONDITIONS:

Permit Standard Condition I.A.9 – requires that self-monitoring reports be completed and submitted no later than 28 days after the end of each quarter. MSD has not received the fourth quarter 2009 report.

Failure to perform the reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 12559 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by MSD.

REQUIRED ACTION/RESPONSE:

You must submit the fourth quarter 2009 report not later than February 27. In the report, the requirements are for sampling, analytical, and the completion of all applicable certifications.

Please note that for reports submitted more than 30 days past the due date of January 28, the late report is considered to be Significant Noncompliance (SNC). MSD is then required to include the company in its annual newspaper listing of SNC companies, and to initiate additional enforcement action to secure submittal of the report, if necessary.

Thank you for helping us to comply with state and federal regulations. If you have any questions, please contact me at 314.436.8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

SM Rehmer

Scott M. Rehmer, Assistant Engineer

cc: Doug Mendoza
Jim Goodall

1402 South Grand Blvd.
St. Louis, MO 63104-1085
Fax: 314-977-5560
www.slu.edu

SAINT LOUIS
UNIVERSITY

Office of Environmental Safety & Services
Environmental Safety Office (C307)
314-977-8608

Radiation Safety Office (RB5)
314-977-8609

January 25, 2010

Douglas M. Mendoza
Industrial Waste Engineer
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(FAX #: 436-8753)

SUBJECT: Quarterly Reports Of Radionuclide Discharge For The Period Oct. - Dec. 2009

Dear Mr. Mendoza:

Attached you will find copies of the MSD Industrial User Radioactive Materials Discharge Reports for all Saint Louis University and affiliated facilities. Copies of some of these reports for which wastewater permits are held have been forwarded to Mr. Todd Stirewalt (Anheuser Busch Institute, Saint Louis University Hospital).

In order to avoid confusion, any discharges from the laboratories in Cardinal Glennon Hospital's basement (which had at one time been reported to you by Cardinal Glennon) will be incorporated into this report.

If you have any questions regarding these reports, please contact me at 977-6896.

Sincerely,

Kevin Ferguson
Health Physicist

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JAN 28 2010
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ENVIRONMENTAL COMPLIANCE

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ■(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KF I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 1/25/10

RECEIVED
JAN 28 2010
DIVISION OF
ENVIRONMENTAL COMPLIANCE

Metropolitan St. Louis Sewer District

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

December 17, 2009

Skip Bowders
ST. LOUIS UNIVERSITY HOSPITAL
3635 Vista Ave.
P.O. Box 15250
St. Louis, MO 63110-0250

Dear Mr. Bowders:

As the owner of an Industrial Wastewater Discharge Permit from MSD, you are required to submit quarterly self-monitoring reports to MSD. As part of the reporting requirements, all permittees must complete general certification B on the self-monitoring report. Most permittees also must initial certain other general or special certifications on the report. Failure to complete the required certifications is a violation of the permit conditions.

The self-monitoring report forms currently contain all potential certifications, regardless of whether they apply to a particular permittee. Sometimes, the permittee will not initial the correct certifications. MSD realizes that it can be difficult for the permittee to correctly determine the applicable certifications that must be initialed. Therefore, to help eliminate confusion, we have developed a customized self-monitoring report form for you to use.

The attached self-monitoring report form contains only those certifications required by your Industrial Wastewater Discharge Permit. Please begin using this new form immediately.

Each certification on your customized report form should be initialed, or signed for general certification B. We realize that special certifications A and D sometimes do not have to be initialed for each report. However, it also is not inappropriate to initial them for each report.

Thank you for helping us to comply with federal and state regulations. If you have any questions, please contact me at 314.436.8717.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Douglas M. Mendoza, P.E.
Manager of Industrial Pretreatment

Enclosure: permit-customized self-monitoring report form

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: ST LOUIS UNIVERSITY HOSPITAL [4112195100]

Permit No: 4112195100-1 Effective Date: 1/1/2008 Expiration Date: 12/31/2011

Premise Address: 3635 & 3655 Vista Ave., St. Louis, MO 63110

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: _____

Analyses Performed By: _____

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨								
DATES ON WHICH SAMPLES WERE COLLECTED ⇨								
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨								
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW								

You must complete and sign the certification statements on the second page.

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS**.

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived: _____ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point(s) 004.

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below: I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Print or type name of signing official: _____ Title: _____ Telephone: _____ Signature: _____ Date: _____

Metropolitan Saint Louis Sewer District
2350 Market Street
Saint Louis, Missouri 63103-2555

ST. LOUIS UNIVERSITY HOSPITAL
3635 Vista Ave.
St. Louis, MO 63110

Attn: Skip Bowders
Energy Center Supervisor

INDUSTRIAL WASTEWATER DISCHARGE PERMIT NUMBER 4112195100.

ANNUAL PERMIT FEE NOTICE

For permits in effect as of 10/01/2009.

Fee will be included in a **separate bill** from the Metropolitan St. Louis Sewer District.

Explanation of Charges

Fee for Pretreatment Program Discharge Permit covering the period October 1, 2009 through September 30, 2010 issued in accordance with the Metropolitan St. Louis District Ordinance #12413 for the location at **3635 & 3655 Vista Ave.**

Base charge @ $150.00 per permit			$150.00
Volume charge @ $0.72 per average daily Ccf	142.86	Ccf(s)	$102.86
Sample Point Charge @ $100.00 per sample point	5	Point(s)	$500.00
		Total Fee Due:	**$752.86**

For inquiries about the Annual Permit Fee, please call 314-436-8756. For inquiries about payment of the fee, which will appear on your upcoming monthly bill, please call 1-866-281-5737.

THIS IS NOT A BILL

DO NOT PAY NOW

FEE WILL BE INCLUDED IN A SEPARATE BILL

ENVIRONMENTAL COMPLIANCE

DEPARTMENT MEMO

TO: St Louis University Hospital

ACCT#: 41121951-00

FROM: Jim Goodall JEG

DATE: 12/4/09

RE: NOV SNC call

I phoned Skip Bowders and informed him that 3 good resamples for Oil & Grease are needed prior to December 31, 2009 to avoid Significant Noncompliance.

SR
11-09
2-26

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART ONE

ST. LOUIS UNIVERSITY HOSPITAL
3635 VISTA AVE.
ST. LOUIS, MO. 63110

PERMIT NUMBER 41121951-00

MONITORING PERIOD JAN/MAR APR/JUN X JUL/SEP OCT/DEC
Samples collected by...Metropolitan Manufacturers' Association 314-966-1006
Samples analyzed by... TEKLAB, INC.

PART II ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT		# 001	# 002	# 003
SAMPLING DATES		09-08-09	09-08-09	09-08-09
FLOW (GPD) E/M		92,000 EST.	56,000 EST.	5,000 EST.
PARAMETER	G/C LIMIT	ANALYTICAL RESULTS		
TEMP C	g 60@C.	30.0	26.7	25.0
PH	g 5.5 TO 11.5	8.7	9.4	8.6
BOD	c 300 mg/l	115 mg/l	77 mg/l	188 mg/l
COD	c 600 mg/l	265 mg/l	167 mg/l	400 mg/l
TSS	c 350 mg/l	120 mg/l	21 mg/l	329 mg/l
OIL/GR	g 200 mg/l	20 mg/l	3 mg/l	41 mg/l
cd	c mg/l	mg/l	mg/l	mg/l
cr	c mg/l	mg/l	mg/l	mg/l
cu	c mg/l	mg/l	mg/l	mg/l
pb	c mg/l	mg/l	mg/l	mg/l
ni	c mg/l	mg/l	mg/l	mg/l
ag	c 0.5 mg/l	0.0054mg/l	<0.0100 mg/l	mg/l
zn	c mg/l	mg/l	mg/l	mg/l
cn-T	g mg/l	mg/l	mg/l	mg/l
cn-A	g mg/l	mg/l	mg/l	mg/l
TTO	g 5.52mg/l	mg/l	mg/l	mg/l
	mg/l	mg/l	mg/l	mg/l
SAMP. TIME	XXXXXXX	8:05A-11:05AM	8:22A-11:22AM	810A-11:10A

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART ONE

ST. LOUIS UNIVERSITY HOSPITAL
3635 VISTA AVE.
ST. LOUIS, MO. 63110

PERMIT NUMBER 41121951-00

MONITORING PERIOD JAN/MAR APR/JUN X JUL/SEP OCT/DEC
Samples collected by...Metropolitan Manufacturers' Association 314-966-1006
Samples analyzed by... TEKLAB, INC.

PART II ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT	# 004	# 005	#
SAMPLING DATES	09-08-09	09-08-09	
FLOW (GPD) E/M	936 EST.	5,000 EST.	

PARAMETER	G/C	LIMIT	ANALYTICAL RESULTS			
TEMP C	g	60@C.		23.9		
PH	g	5.5 TO 11.5		8.4		
BOD	c	300 mg/l	mg/l	354	mg/l	mg/l
COD	c	600 mg/l	mg/l	670	mg/l	mg/l
TSS	c	350 mg/l	mg/l	782	mg/l	mg/l
OIL/GR	g	200 mg/l	mg/l	62	mg/l	mg/l
cd	c	mg/l	mg/l		mg/l	mg/l
cr	c	mg/l	mg/l		mg/l	mg/l
cu	c	mg/l	mg/l		mg/l	mg/l
pb	c	mg/l	mg/l		mg/l	mg/l
ni	c	mg/l	mg/l		mg/l	mg/l
ag	c	mg/l	mg/l		mg/l	mg/l
zn	c	mg/l	mg/l		mg/l	mg/l
cn-T	g	mg/l	mg/l		mg/l	mg/l
cn-A	g	mg/l	mg/l		mg/l	mg/l
TTO	g	5.52mg/l	mg/l		mg/l	mg/l
		mg/l	mg/l		mg/l	mg/l
SAMP. TIME		XXXXXXX		8:16A-11:16AM		

RECEIVED
OCT 23 2009
By

METROPOLITAN MANUFACTURERS' ASSOCIATION
100 WEAVER COURT, STE A
FESTUS, MO. 63028
314-966-1006

SKIP BOWDERS
ST. LOUIS UNIVERSITY HOSPITAL MEMBER NUMBER
3665 VISTA P.O.BOX 15225 TELEPHONE NUMBER 314-577-8000
ST. LOUIS, MO. 63110-0050 SIC NUMBER 8062

PURCHASE ORDER # INVOICE NUMBER 0073

DATE OF INVOICE	STATEMENT INFORMATION	AMOUNT
10-13-09	WASTEWATER SAMPLING PROGRAM	

PERIOD JULY/AUGUST/SEPTEMBER

Calendar Year Quarter 3

SAMPLE POINT	COLLECTION DATE	COLLECTED	COLLECTION CHARGES
001	09-08-09	YES	$ 90.00
002	09-08-09	YES	$ 65.00
003	09-08-09	YES	$ 65.00
004	09-08-09	NO	$
005	09-08-09	YES	$ 65.00
			$
			$
			$

TOTAL COLLECTION CHARGES $ 285.00

PARAMETERS ANALYZED 001-002-BOD,COD,TSS,O/G,AG.
003-005 BOD,COD,TSS,O/G.

LABORATORY ANALYTICAL FEES $ 596.00
MSD CERTIFICATION FORM FEE $ 20.00

PERMIT LIMIT REVIEW REQUIRED SP #

COMMENTS...

PLEASE PAY FROM THIS INVOICE

PAYMENT DUE WITHIN TEN DAYS OF RECEIPT TOTAL DUE $ $ 901.00

PERMIT DATE...
SPECIAL SAMPLING REQUIREMENTS... TTO SPECIAL CALENDAR
ADDITIONAL INFORMATION...

METROPOLITAN MANUFACTURERS' ASSOCIATION
100 WEAVER COURT, STE A
FESTUS, MO. 63028
314-966-1006

SKIP BOWDERS
ST. LOUIS UNIVERSITY HOSPITAL MEMBER NUMBER
3665 VISTA P.O.BOX 15225 TELEPHONE NUMBER 314-577-8000
ST. LOUIS, MO. 63110-0050 SIC NUMBER 8062

PURCHASE ORDER # INVOICE NUMBER 0073

DATE OF INVOICE	STATEMENT INFORMATION	AMOUNT
10-13-09		

WASTEWATER SAMPLING PROGRAM

PERIOD JULY/AUGUST/SEPTEMBER

Calendar Year Quarter 3

SAMPLE POINT	COLLECTION DATE	COLLECTED	COLLECTION CHARGES
001	09-08-09	YES	$ 90.00
002	09-08-09	YES	$ 65.00
003	09-08-09	YES	$ 65.00
004	09-08-09	NO	$
005	09-08-09	YES	$ 65.00
			$
			$
			$

TOTAL COLLECTION CHARGES $ 285.00

PARAMETERS ANALYZED 001-002-BOD,COD,TSS,O/G,AG.
003-005 BOD,COD,TSS,O/G.

LABORATORY ANALYTICAL FEES $ 596.00
MSD CERTIFICATION FORM FEE $ 20.00

PERMIT LIMIT REVIEW REQUIRED SP #

COMMENTS...

PLEASE PAY FROM THIS INVOICE

PAYMENT DUE WITHIN TEN DAYS OF RECEIPT TOTAL DUE $ $ 901.00

PERMIT DATE...
SPECIAL SAMPLING REQUIREMENTS... TTO SPECIAL CALENDAR
ADDITIONAL INFORMATION...

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and **PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY.** If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. **GO ON TO PART IV.**

A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:

☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____ .

B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:

☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit .

C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:

☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.

D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:

☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____ _____.

E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification :

☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.

F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:

☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.

G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:

☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. **Everyone must complete the information under statement B and sign this report.**

A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:

☐ In lieu of monitoring for TTO at sample point(s) _____ , I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. **DISCHARGE MONITORING REPORT CERTIFICATION**

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

Print or type name of signing official: _____

Title: _____ Telephone: _____

Signature: _____ Date: _____

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09090265
Lab ID: 09090265-001
Report Date: 14-Sep-09

Client Project: SLUH 001, 002, 003, 005/3
Client Sample ID: SLUH 001/3
Collection Date: 9/8/2009 11:05:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		20	mg/L	1	9/9/2009 4:00:00 PM	HMH
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Silver	NELAP	0.0100	J	0.0054	mg/L	1	9/10/2009 12:31:37 PM	LAL
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		285	mg/L	1	9/11/2009 10:30:00 AM	BSJ
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	8		120	mg/L	1	9/9/2009 10:45:00 AM	HMH
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		115	mg/L	1	9/9/2009 2:05:00 PM	JMT

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09090265
Lab ID: 09090265-002
Report Date: 14-Sep-09

Client Project: SLUH 001, 002, 003, 005/3
Client Sample ID: SLUH 003/3
Collection Date: 9/8/2009 11:10:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		41	mg/L	1	9/9/2009 4:00:00 PM	HMH
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		400	mg/L	1	9/11/2009 10:30:00 AM	BSJ
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		329	mg/L	1	9/9/2009 10:45:00 AM	HMH
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		188	mg/L	1	9/9/2009 2:05:00 PM	JMT

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09090265
Lab ID: 09090265-003
Report Date: 14-Sep-09

Client Project: SLUH 001, 002, 003, 005/3
Client Sample ID: SLUH 005/3
Collection Date: 9/8/2009 11:16:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		62	mg/L	1	9/9/2009 4:00:00 PM	HMH
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		670	mg/L	1	9/11/2009 10:30:00 AM	BSJ
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		762	mg/L	1	9/9/2009 10:45:00 AM	HMH
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		354	mg/L	1	9/9/2009 2:05:00 PM	JMT

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09090309
Lab ID: 09090309-001
Report Date: 15-Sep-09

Client Project: AI 901/3/V1
Client Sample ID: AI 901/3/V1
Collection Date: 9/9/2009 11:15:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Cadmium	NELAP	0.0020	J	0.0006	mg/L	1	9/10/2009 12:18:16 PM	LAL
Zinc	NELAP	0.0100		0.0790	mg/L	1	9/10/2009 12:18:16 PM	LAL

Sample Narrative

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS**.

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived: SM I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point(s) 004.
B	NO CHANGE IN WASTEWATER DISCHARGE AT ACTIVE CONNECTIONS WITHOUT SAMPLE POINTS For permit special conditions that waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification: _____ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C	NO CHANGE IN STATUS OF INACTIVE CONNECTIONS For permit special conditions that waive monitoring at inactive connection points, you are required to make the following certification: _____ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur: _____ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
E	NO DISCHARGE OF CATEGORICAL WASTE For permit special conditions that prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification: _____ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
F	CYANIDE NOT USED OR GENERATED IN 40 CFR 439 OPERATIONS Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) _____ subject to the following certification: _____ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G	NO DISCHARGE OF TOXIC ORGANICS AT 40 CFR 413, 40 CFR 433, OR 40 CFR 469 SAMPLE POINTS Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) _____ subject to the following certification: _____ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
H	PHARMACEUTICAL POLLUTANTS NOT USED OR GENERATED IN 40 CFR 439 OPERATIONS Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from monitoring for certain 40 CFR 439-regulated pollutants at the Pharmaceutical sample point(s) _____ subject to the following certification: _____ I certify, since the last discharge monitoring report, the 40 CFR 439-regulated pollutants, as determined in permittee's report dated _____ have not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439. In addition, the above-referenced report remains valid.
I	SURROGATE MONITORING ALLOWED FOR 40 CFR 439 OPERATIONS Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from monitoring for certain 40 CFR 439-regulated pollutants, and replaced by monitoring for surrogate pollutant(s), at the Pharmaceutical sample point(s) _____ subject to the following certification: _____ I certify, since the last discharge monitoring report, the 40 CFR 439-regulated pollutants, as determined in permittee's report

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FEB 2 5 2010
DIVISION OF
ENVIRONMENTAL COMPLIANCE

	dated _____ continue to receive the same degree of treatment as the surrogate pollutant(s). In addition, the above-referenced report remains valid.
J	MULTIPLE WASTE SUBPART ALLOWED FOR 40 CFR 437 OPERATIONS Discharges subject to Centralized Waste Treatment Standards (40 CFR 437) can be exempted from regulation under separate 40 CFR 437 Subparts, and replaced by from limitations and monitoring under 40 CFR Subpart D (Multiple Waste Subcategory) at the Combined Waste Treatment sample point(s) 004 _____ subject to the following certification: _____ I certify, since the last discharge monitoring report, the treatment systems for 40 CFR 437-regulated waste streams as described in permittee's report dated _____ continue to provide equivalent treatment. In addition, the above-referenced report remains valid.
K	POLLUTION PREVENTION DISCHARGE ALLOWED FOR 40 CFR 455 OPERATIONS Discharges subject to Pesticide Chemicals Categorical Standards (40 CFR 455) may occur for pollution prevention allowable waste streams at the Pesticide Chemicals sample point(s) _____ subject to the following certification: _____ I certify, since the last discharge monitoring report, the pollution prevention program for 40 CFR 437-regulated waste streams as described in permittee's report dated _____ continues to be properly implemented.
L	CYANIDE NOT USED IN 40 CFR 465 OPERATIONS Discharges subject to Coil Coating Categorical Standards (40 CFR 465) can be exempted from more frequent than once/year monitoring for Cyanide at the Coil Coating sample point(s) _____ subject to the following certification: _____ I certify, since the last discharge monitoring report, cyanide has not been used in the coil coating processes subject to Categorical Standards in 40 CFR 465.
M	==========NON-STANDARD SPECIAL CERTIFICATION========== [Describe non-standard special condition requiring certification] _____ I certify, since the last discharge monitoring report, ———.
N	DIOCIDES NOT USED IN 40 CFR 430 OPERATIONS Discharges subject to Pulp, Paper, and Paperboard Standards (40 CFR 430, Subpart ———) can be exempted from limitations and monitoring for pentachlorophenol and trichlorophenol at the Pulp, Paper, and Paperboard sample point ——— subject to the following certification: _____ I certify, since the last discharge monitoring report, pentachlorophenol and trichlorophenol have not been used in any pulp, paper, and paperboard process subject to Categorical Standards in 40 CFR 430, Subpart ———.
O	NO DISCHARGE OF HAZARDOUS HAULED WASTE For permit special conditions that prohibit discharge of hazardous waste to the District, you are required to make the following certification: _____ I certify, since the last discharge monitoring report, there has been no discharge of hazardous waste to the District.

PART IV: GENERAL CERTIFICATION STATEMENTS

A	NO DISCHARGE OF TOXIC ORGANICS AT ORDINANCE SAMPLE POINTS If sample points subject only to MSD Ordinance limits are subject to TTO monitoring, and your premise neither uses or discharges toxic organics, you can be exempted from TTO monitoring subject to the following certification: _____ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.
B	DISCHARGE MONITORING REPORT CERTIFICATION **All permittees must sign and complete the information below:** I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Print or type name of signing official: PAUL BOWDERS Title: SUPERVISOR Telephone: 314-577-8030 Signature: [signature] Date: 2/26/10

RECEIVED
FEB 26 2010
DEPT. OF ENVIRONMENTAL COMPLIANCE

Saint Louis University Hospital

TENET

FAX

To:	Jim Goodall	From:	Skip [illegible]ers
Fax:	314-436-8753	Pages:	2
Phone:	314-577-8036	Date:	06/02/09
Re:	Letter September 22, 2009	cc:	MO DHR file

Jim:

Thank you for your follow-up. As I mentioned in our conversation regarding your letter we will put into practice the changes as you outlined. If you need supplementary information you can contact me at 314-577-8036.

Best Regards

Skip

IU 4112 1951-00

Saint Louis University Hospital

TENET

Oct 14, 2009

James E Goodall
Environmental Engineering Associate
Metropolitan St. Louis Sewer District
10 East Grand Ave.
St. Louis MO 63147-2913

Dear Mr. Goodall:

As you know the hospitals record for being a good steward of the environment is impeccable, the issue stated in your letter dated September 22, 2009 is an anomaly.

I can however express that this was truly a disappointment personally for me as well as the hospital. As we discussed during you sit visit in September we have investigated the problem and believe the culprit has been identified. The following steps have been enacted to prevent this from reoccurring.

- The kitchen grease trap will be scheduled to cleaned monthly increased from bi-monthly
- Kitchen staff trained on proper disposal of used grease
- Self monitoring will be conducted monthly by METROPOLITAN MANUFACTURERS ASSOCIATION during normal hospital operating hours

The goal is to get back into compliance and renew our positive relationship with MSD.

Sincerely,

Paul Victor Bowders II

PVBII 10/14/09

1402 South Grand Blvd.
St. Louis, MO 63104-1085
Fax: 314-977-5560
www.slu.edu

4112195 1-00

SAINT LOUIS
UNIVERSITY

Office of Environmental Safety & Services
Environmental Safety Office (C307)
314-977-8608

Radiation Safety Office (RB5)
314-977-8609

Oct. 13, 2009

Douglas M. Mendoza
Industrial Waste Engineer
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(FAX #: 436-8753)

SUBJECT: Quarterly Reports Of Radionuclide Discharge For The Period July - Sept. 2009

Dear Mr. Mendoza:

Attached you will find copies of the MSD Industrial User Radioactive Materials Discharge Reports for all Saint Louis University and affiliated facilities. Copies of some of these reports for which wastewater permits are held have been forwarded to Mr. Todd Stirewalt (Anheuser Busch Institute, Saint Louis University Hospital).

In order to avoid confusion, any discharges from the laboratories in Cardinal Glennon Hospital's basement (which had at one time been reported to you by Cardinal Glennon) will be incorporated into this report.

If you have any questions regarding these reports, please contact me at 977-6896.

Sincerely,

Kevin Ferguson
Health Physicist

RECEIVED
OCT 15 2009
DIVISION OF
ENVIRONMENTAL COMPLIANCE

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ■(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KF I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

RECEIVED
OCT 15 2009
DIVISION OF
ENVIRONMENTAL COMPLIANCE

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 10/13/09

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL FACILITY REINSPECTION REPORT

Company: St. Louis University Hospital — Account #: 4112195100
Premise Address: 3635 & 3655 Vista Ave. — Zip Code: 63110
MSD Classes: SIU ☒ CIU ☐ Surch ☐ Potential Toxic Waste ☒ Non-Toxic Proc Waste ☐
No Process Flow ☐ Multi-User ☐ Special Handling/Billing ☐
Company Representative: Skip Bowders
Title: Energy Center Supervisor — Phone#: 314-577-8070
Inspector: J. Goodall
Others Present: None
Inspection Date: 9/28/09 Time: From 09:00 AM To 10:30 AM (Last Insp. 10/29/08)

NOTE: ALL ITEMS ARE TO BE COMPLETED BASED ON EVENTS SINCE LAST INSPECTION. ANSWERS ARE BASED ON INFORMATION OBTAINED OR PROVIDED BY COMPANY DURING INSPECTION, AS WELL AS INFORMATION IN FILE.

***** DATABASE ALSO UPDATED WITH APPROPRIATE CHANGES - see attached database reports *****

1. A. ARE THERE ADDITIONAL NON-STORMWATER ACCOUNT NUMBERS? Yes☒ No☐
   List them, note any changes: 41121950-01, 90091536-01
   B. Did all acct no's have water usage on PIMS? Yes☒ No☐
   C. If no to B, explain: ____

2. PROCESSES & CLEANUP/WASHDOWN:

	Cont/ Batch		Water Used?	Frequency of discharge	Sample pt.
Hospital care/surgical operations	Cont		Yes	daily	001,002
Clinical & research labs	Cont		Yes	daily	001,002
In-patient psychiatric care & cancer treatment	Cont		Yes	daily	001,002,003, 004,005
	(None)		N/A		
	(None)		N/A		
	(None)		N/A		

3. PRETREATMENT (other than grease traps) - describe:

	Sample pt.
Silver recovery (electrolytic & metallic replacement)	001,002

4. DOES COMPANY HAVE ANY GREASE TRAPS? Yes☒ No☐
   If yes: A. List sample points: 001
   B. What is the frequency for cleaning & maintenance? Quarterly
   C. Are enzymes (not bacteria) used in traps? Yes☐ No☒
   D. If yes to C, was co. told to stop or switch to approved bacteria? Yes☐ No☐
   E. Was co. informed that MSD performs separate grease trap inspections? Yes☒ No☐

5. HAS COMPANY CONSTRUCTED NEW BLDGS/ADDITIONS WITH SEWERS SINCE LAST INSP? Yes☐ No☒
   If yes: A. Ask company: Did they notify MSD's Plan Review group? Unknown☐ Yes☐ No☐
   B. If no or unknown, has inspector notified Plan Review group? Yes☐ No☐
   C. Comments: ____

6. HAS COMPANY BEGUN DISCHARGING ANY NEW POLLUTANTS SINCE THE LAST INSP? Yes☐ No☒
   If yes: A. List pollutants & process: ____
   B. Will MSD STP exceed existing NPDES discharge limit(s)? Yes☐ No☐
   C. Will MSD STP's discharge exceed 0.1 mg/l for any new pollutant? Yes☐ No☐
   (MSD must notify MDNR if B or C is yes and discharge will continue.)
   D. Comments: ____

7. ARE THERE ANY FEDERALLY REGULATED (40 CFR 405-471) OPERATIONS? Yes☒ No☐
   If yes: A. List reg. & describe (including any discharge):
   40 CFR 460 Sub A (gen stds only)

(07/09)

8. DOES CATEGORICAL WASTEWATER COMBINE WITH NON-CAT. WW PRIOR TO SAMPLING? Yes☐ No☒

If yes: A. At which points? _____

B. Current applied factor: _____ Is it correct? Yes☐ No☐

C. If no, list correct factor/explain? _____

9. IS ANY WASTEWATER SUBJECT TO PRODUCTION OR MASS BASED STANDARDS? Yes☐ No☒

If yes: A. At which points? _____

B. Since calculation of the current limits, has the long term avg production rate or discharge volume changed by 20% or more? Yes☐ No☐

C. If yes to B, explain: _____

10. ARE ANY RADIOACTIVE MATERIALS HANDLED? Yes☒ No☐

If yes: A. Describe operations & disposal: Nuclear medicine isotopes are held for decay then sewered or hauled off site for disposal.

B. Does company have MSD authorization for disposal to sewer? NA☐ Yes☒ No☐

C. Most recent authorization date: 4/2/99

D. Amount discharged in most recent complete calendar year: 0

11. DOES PROCESS or P&E WASHDOWN WATER USE APPEAR EXCESSIVE? Yes☐ No☒

A. Explain how use was verified & any needed changes: High volume usage observed appears normal in order to maintain sanitary conditions.

12. BASED ON OBSERVATIONS DURING INSPECTION, DOES COMPANY APPEAR TO HAVE SOME WATER THAT IS NOT DISCHARGED TO SEWER? Yes☒ No☐

If yes: A. Describe: Evaporative loss from boiler and cooling towers.

B. Was "Return Factor Program" brochure given to company? (regardless of whether some water is not discharged to sewer) Yes☒ No☐

13. HAS COMPANY EXCEEDED ORDINANCE DISCHARGE LIMITS SINCE LAST INSPECTION OR WITHIN THE LAST 12 MONTHS (if last insp <12 months ago)? Yes☒ No☐

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Yes/No	Describe
O&G	9/3/09	002	No	investigation in progress
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: company plans to perform monitoring to satisfy TRC

14. HAS COMPANY EXCEEDED CATEGORICAL PRETREATMENT LIMITS SINCE THE LAST INSPECTION OR WITHIN THE LAST 12 MONTHS? NA☒ Yes☐ No☐

If yes: A.

Pollutant	When	Sample Points	Is problem resolved? Yes/No	Describe
			N/A	
			N/A	
			N/A	
			N/A	
			N/A	

B. Comments: _____

15. HAVE THERE BEEN ANY PROBLEM DISCHARGES SINCE LAST INSPECTION? Yes☐ No☒

If yes: A. Upsets? ☐ Bypasses of pretreatment facilities? ☐

Spills? ☐ Slug discharges? ☐ Other? _____

B. Explain any marked: _____

16. COULD SPILLS OR LEAKS OF PROCESS TANKS, STORED WASTES, OR STORED CHEMICALS EASILY REACH SANITARY SEWERS OR STORM DRAINS? Yes☐ No☒

If yes: A. What needs to be done? ____

If no: B. How are they controlled?
Flammables are in containment and other stored liquids are kept away from floor drains.

17. BASED ON OBSERVATIONS DURING INSPECTION, ARE THERE ANY AREAS WHERE COMPANY ACTIVITIES APPEAR TO IMPAIR STORMWATER RUNOFF? Yes☐ No☒

If yes: A. Describe: ____
B. What needs to be done? ____
C. Was "Illicit Stormwater Discharges" brochure given to company? Yes☒ No☐
(regardless of whether there are any problem areas)

18. DOES COMPANY HAVE ANY SPILL CONTROL OR SLUG DISCHARGE CONTROL PLANS? Yes☒ No☐

If yes: A.

	Title	Last Update	Update needed? Explain if yes
1.	Hazardous Chemical Spill Plan	1/1/98	No
2.			N/A

B. Are any Plans needed (in addition to those listed in Part A)? Yes☐ No☒
(If yes, write company and request)

19. DOES COMPANY HAVE ANY MAINTENANCE SHOP PARTS WASHERS? Yes☒ No☐

If yes: A. Parts washer solvent name: Safety Kleen Premium
B. Priority pollutants (or "none"): BTEX
C. How is spent solvent disposed? hauled off
(Parts washer solvents are not included in database's priority pollutants list, nor monitored for unless conditions show potential discharges)

20. ARE ANY ORGANICS OR SOLVENTS USED (OTHER THAN IN PARTS WASHERS)? Yes☒ No☐

If yes: A.

Solvent name/ components	Used for?	413/433/469 Process?	How disposed?	Priority Pollutant?
Phenol	Sanitizing	Yes☐ No☒	Hauled off	Yes☒ No☐
Chloroform	Lab testing	Yes☐ No☒	Hauled off	Yes☒ No☐
Meth. chloride	Lab testing	Yes☐ No☒	Hauled off	Yes☒ No☐
Phenanthrene	Lab testing	Yes☐ No☒	Hauled off	Yes☒ No☐
Alcohol	Lab testing	Yes☐ No☒	Hauled off	Yes☐ No☒
		Yes☐ No☐		Yes☐ No☐

21. DOES COMPANY HAVE A 413/433/469 SOLVENT MANAGEMENT PLAN? Yes☐ No☒

If yes: A. Is it part of a Spill/Slug Control Plan listed above? Yes [1.☐ 2.☐] No☐
B. If no to A, date of last update for SMP: ____
C. Is there a copy of the Spill/Slug Plan or SMP in the files? Yes☐ No☐
D. Does SMP address all 413/433/469 solvents? Yes☐ No☐
(If no to C or D, write company and require submittal and/or update)

22. ARE EMERGENCY NOTIFICATION PROCEDURES POSTED THAT INCLUDE MSD CONTACTS? Yes☒ No☐
A. Was company provided notification cards & told to post where emergency response personnel can locate them? Yes☒ No☐
(Must post if co. generates process wastewater or stores chemicals of concern)

23. IS COMPANY REQUIRED TO SELF-MONITOR ANY OF THEIR DISCHARGES? Yes☒ No☐

If yes: A. Is requirement contained in permit ☒ or other document ☐.
B. If other document, date & description: ____
C. How frequently is sampling required? quarterly
D. How frequently are reports required? quarterly
E. Have reports been on-time, complete & signed by proper person? Yes☒ No☐
F. If no, explain: ____

24. DOES COMPANY SELF-MONITOR ITS WASTEWATER DISCHARGE? Yes☒ No☐

If yes: A. Is the self-monitoring required by MSD? Yes☒ No☐

B. Are representative grab/comp samples collected? Yes☒ No☐

C. Does sample collection time period match company's production shifts (is it representative)? Yes☐ No☒

D. Are EPA-approved 40 CFR 136 wastewater test methods used? Yes☒ No☐

E. If no to B, C, or D, explain needed changes: The contact will increase the monitoring time.

25. DOES CO. CONTINUOUSLY MONITOR AT SAMPLE POINT AND KEEP A PERMANENT RECORD FOR: pH ☐, TEMP ☐, LEL ☐? Yes☐ No☒

If yes: A. At which SPs? ____

B. Does company submit quarterly summaries? Yes☐ No☐

C. If no, explain: ____

26. DOES MSD SPLIT SAMPLES WITH THE COMPANY? Yes☐ No☒

If yes: A. Is company having the samples analyzed Yes☐ No☐

B. How does company insure proper preservation, holding times & analytical methods? ____

C. Has company submitted results of all split sample analyses since the last insp? Yes☐ No☐

D. Have results been submitted within 28 days of the collection's calendar quarter? Yes☐ No☐

E. If no to C, or D, explain: ____

F. Does company still want to split samples? Yes☐ No☐

G. Comments: ____

27. IS COMPANY UNDER ANY ENVIRONMENTAL ENFORCEMENT ORDERS OR REQUIREMENTS TO SUBMIT COMPLIANCE SCHEDULE REPORTS? Yes☐ No☒

If yes: A. Type and date: ____

B. Have the reports & actions been on-time & complete? Yes☐ No☐

C. If no, explain: ____

28. ASK COMPANY: IS CO. IN COMPLIANCE W/APPLICABLE NESHAP REGS FOR WW DISCHARGES? [Some MDNR-issued Title V air permits for specific processes allow pre-approved WW discharge.] [City/County-issued air permits are not NESHAP permits.] Yes☒ No☐

If no: A. Describe: ____

B. Was MDNR Air Pollution Control informed? (must be done) Yes☐ No☐

29. DOES COMPANY RETAIN ALL WASTEWATER RECORDS FOR AT LEAST 5 YEARS? Yes☒ No☐

If no: A. How long does company retain records? ____

B. Was company told to retain for at least 5 years, per ordinance? Yes☐ No☐

C. Where are they kept? contact's office

30. DO MSD CLASSIFICATIONS NEED TO BE REVISED? Yes☐ No☒

If yes: A. Indicate correct classifications:

SIU ☐ CIU ☐ Surch. ☐ Potential Toxic Waste ☐ Non-Toxic Proc Waste ☐

No Process Discharge ☐ Multi-User ☐ Special Handling/Billing ☐

B. Explain changes: ____

31. SAMPLE POINTS

						DJ (y/n)
SP #	001	Fed.Reg.	n/a	Components:	Sanitary + hospital waste + NCCW + boiler blowdown + x-ray + kitchen waste + stormwater	No
SP #	002	Fed.Reg.	n/a	Components:	Sanitary + hospital waste + x-ray + stormwater	No
SP #	003	Fed.Reg.	n/a	Components:	Sanitary + hospital waste + stormwater	No
SP #	004	Fed.Reg.	n/a	Components:	NCCW + stormwater	Yes
SP #	005	Fed.Reg.	n/a	Components:	Sanitary + hospital waste + stormwater	No

32. ARE ANY SAMPLE POINTS TRAPPED VENTS? Yes☐ No☒

If yes: A. List SPs: _____

B. Was co. informed that T-vents are preferred, and told why? Yes☐ No☐

33. ARE DISCHARGES AT ANY SPs SMALL/IRREGULAR ENOUGH TO ALLOW GRAB SAMPLES? Yes☒ No☐

If yes: A. List SPs and reasons: SP004 & SP005 have low intermittent flow

34. ARE THERE ANY UNSAMPLED DISCHARGES? (list each lateral separately) Yes☐ No☒

Dummy SP #		Components:	
Dummy SP #		Components:	

35. DO ANY SAMPLE POINTS (including Unsampled/Dummy SPs) RECEIVE STORMWATER? Yes☒ No☐

If yes: A. List Sample Points: 001,002,003,004,005

36. WERE ALL SAMPLE POINTS (except Dummy SPs) OPENED & INSPECTED? No SPs☐ Yes☒ No☐

A. If any SPs cannot be located or opened, explain: _____

B. If any SP descript's need to be changed, explain: _____

C. Was ANY grease or other problem/debris observed in any SP? Yes☐ No☒

D. If yes to C, list SPs & describe: _____

E. If yes to C, was company directed to take corrective actions? Yes☐ No☐

37. REVIEW THE SAMPLE POINT MAP! Last map revision date: 6/6/07

A. Is the map correct and accurate in all its details? Yes☒ No☐

B If no, what changes are needed: _____

38. DO INSTRUCTIONS FOR "Contact Prior to Sampling" OR FIELD VISIT "Special Instructions" NEED REVISION? Yes☐ No☒

If yes: A. List needed changes: _____

USE THIS SPACE FOR ANY OTHER COMMENTS/OBSERVATIONS PERTINENT TO YOUR INSPECTION OF THIS SITE.
Most of radiology has converted to digital processing, but some liquid processing remains.

Hospital operations at 3635 Vista consist of:
1st floor - Rehabilitation & food service
2nd floor - Radiology & emergency
3rd floor - Surgery

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **4112195100**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

INDUSTRIAL USER CLASSIFICATIONS

03/06/1997	SIU
03/06/1997	PTW

WUNNENBERG INFO.

Base Map 20F1
Wun: St. Louis City & Co.
Grid: H 21 Page 38

SIU CRITERIA

POTM Reasonable potential for adverse affect on

GENERAL INFORMATION

Office Mailing Address
3635 Vista Ave.
St. Louis, MO. 63110-0250

Billing Address
3635 Vista Ave
St Louis, MO. 63110-0250

INSPECTION INFORMATION

Next Due	Insp Rslt	
09/28/2009	RIN	James Goodall

PERMIT INFORMATION

Issue Date: 01/01/2007
Expire Date: 12/31/2011
Extended Date: 12/31/2007
Writer Fabian Grabski
Issue Date: 01/01/2008
Expire Date: 12/31/2011
Extended Date:
Writer Scott Rehmer

IUQ INFORMATION

IUQ Recvd Date: 07/09/2001
Reviewer: Fabian Grabski
IUQ Recvd Date: 07/03/2006
Reviewer: Fabian Grabski

CONTACTS

BILL	Skip Bowders	Energy Center Supervisor	OFF	(314) 577-8070 Ext.
FLD1	Skip Bowders	Energy Center Supervisor	OFF	(314) 577-8070 Ext.
FLD2	Pattie Bassarich	Admin Assistant	OFF	(314) 577-8070 Ext.
OFF1	Skip Bowders	Energy Center Supervisor	OFF	(314) 577-8070 Ext.
OFF2	Pattie Bassarich	Admin Assistant	OFF	(314) 577-8070 Ext.

OPERATIONAL INFORMATION

Work Days: 7

				S	M	T	W	T	F	S
1	1,884	07:00AM	8.0	Y	Y	Y	Y	Y	Y	Y
2	616	03:00PM	8.0	Y	Y	Y	Y	Y	Y	Y
3	615	11:00PM	8.0	Y	Y	Y	Y	Y	Y	Y

Total Emp: 3,115 **Hrs:** 24.0

OTHER AGENCIES INFORMATION

11/25/1996	MDNR - Hazardous Waste Program	01721
09/28/2005	MSD - Billing Account Number	00208066
09/28/2005	MSD - Billing Account Number	00208067
09/28/2005	MSD - Billing Account Number	00447331

NON-SEWERED WASTE

On-Site Storage N **On-Site Disposal** N **Off-Site Disposal** Y

07/03/2006	Infectious Waste	720000	LBS
07/03/2006	Kitchen/Food Service Grease	3500	GAL

COMMENTS

RAW MATERIALS

EFF DATE	MATERIAL_DESCRIPTION	QUANTITY	UNIT

SIC INFORMATION

SIC	DESCRIPTION
8062	General Medical & Surgical Hospitals
8063	Psychiatric Hospitals

PRODUCTS

EFF DATE	DESCRIPTION	UNIT	AVG_PROD	MAX_PROD
05/07/2004	General hospital service			

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**

PRIMARY MSD ACCOUNT NO. **4112195100**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

SEWER ACCOUNTS

Sewer Accounts

4112195100
4112195001
9009153601

WATER CONSUMPTION AND WASTEWATER DISCHARGE

Start Date = 10/01/2008 12:00:00AM **End Date =** 12/31/2009 12:59:59PM

Acct. No.			Consumption CCF's	Consumption Gallons		Wdays	Cdays	Discharge Gal/ Wday	Discharge Gal/ Cday
4112195001									
4112195001	07/19/2008	10/27/2008	11	11	A	101	101	101	
4112195001	10/28/2008	01/26/2009	10	21		91	91	192	
4112195001	01/27/2009	04/17/2009	91	112		81	81	273	
4112195001	04/18/2009	07/30/2009	80	192		104	104	377	
RF 0.68	**Acct. Total**		192	143,626		377	377	259	259
4112195100			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
4112195100	07/19/2008	10/27/2008	23,890	23,890	A	101	101	101	
4112195100	10/28/2008	01/30/2009	12,830	36,720		95	95	196	
4112195100	01/31/2009	04/17/2009	10,800	47,520		77	77	273	
4112195100	04/18/2009	07/30/2009	23,940	71,460		104	104	377	
RF 0.68	**Acct. Total**		71,460	53,455,796		377	377	96,419	96,419
9009153601			**CCF's**	**Gallons**				**Gal/ Wday**	**Gal/ Cday**
9009153601	07/17/2008	11/05/2008	1,948	1,948	A	112	112	112	
9009153601	11/06/2008	02/10/2009	1,500	3,448		97	97	209	
9009153601	02/11/2009	04/22/2009	573	4,021		71	71	280	
9009153601	04/23/2009	07/29/2009	1,813	5,834		98	98	378	
RF 1.00	**Acct. Total**		5,834	4,364,135		378	378	11,545	11,545
	Facility Total		77,486						

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**
PRIMARY MSD ACCOUNT NO. **4112195100**

Premise Address 3635 & 3655 Vista Ave.
St. Louis MO. 63110

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH	Treatment Area	
01	Sanitary Or Combined	20F3 350C	Trunk Sewer	Bissell Point Rock Springs

Description Multiple lines from W side of hospital and E side of W pavilion to loading drive

Sewer Route W on Vista in 27 pipe to 39th St, then N in trunk to treatment plant

SAMPLE POINT NO. 001 Ordinance **NPDES Outfall No.**

Description MH in driveway W of loading dock at SW corner of main hospital building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Non Contact Cooling Water	HVAC	10,000	GPD		GPD	D	7/3/06
Sanitary		25,525	GPD		GPD	D	9/19/07
Kitchen Waste		3,600	GPD		GPD	D	9/19/07
Storm Water		0	GPD		GPD	D	9/19/07
Hospital Waste	including x-ray waste	21,354	GPD		GPD	D	9/19/07
Boiler Blowdown		16,800	GPD		GPD	D	9/19/07
	Total Flow Avg =	**77,279**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH	Treatment Area	
02	Sanitary Or Combined	20F3 350C	Trunk Sewer	Bissell Point Rock Springs

Description Line S from S side of building to Vista Ave

Sewer Route W on Vista in 27 pipe to 39th St, then N in trunk to treatment plant

SAMPLE POINT NO. 002 Ordinance **NPDES Outfall No.**

Description MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Sanitary		21,200	GPD		GPD	D	9/19/07
Hospital Waste	including x-ray waste	17,439	GPD		GPD	D	9/19/07
Storm Water		0	GPD		GPD	D	9/19/07
	Total Flow Avg =	**38,639**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH	Treatment Area	
03	Sanitary Or Combined	20F3 350C	Trunk Sewer	Bissell Point Rock Springs

Description Line SE from S side of building at entrance drive to Vista Ave.

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 003 Ordinance **NPDES Outfall No.**

Description MH 54' E of SW corner of West Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Storm Water		0	GPD		GPD	D	9/19/07
Hospital Waste		2,750	GPD		GPD	D	9/28/09
Sanitary		1,250	GPD		GPD	D	9/28/09
	Total Flow Avg =	**4,000**		**Max =**			

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH	Treatment Area	
04	Sanitary Or Combined	20F3 362C	Trunk Sewer	Bissell Point Rock Springs

Description Line W from SW corner of parking garage to Spring Ave.

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. 004 Ordinance **NPDES Outfall No.**

Description 6" t-vent inside W Pavilion parking garage 10' N, 18' E of SW corner

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET - FACILITY INFORMATION

INDUSTRY NAME **ST LOUIS UNIVERSITY HOSPITAL**

PRIMARY MSD ACCOUNT NO. **4112195100** **Premise Address** 3635 & 3655 Vista Ave. St. Louis MO. 63110

Storm Water	0	GPD		GPD	D	9/19/07
Total Flow Avg =	**612**	**Max =**				

CONNECTION and SAMPLE POINT INFORMATION

LATERAL NO.	Lateral Type	DSMH		Treatment Area	Bissell Point
05	Sanitary Or Combined	20F3	362C	Trunk Sewer	Rock Springs

Description Manhole 93' S, 9' W of NW corner of W pavilion building

Sewer Route W in 3'x4' pipe to 9' pipe, N to trunk to treatment plant

SAMPLE POINT NO. **005** Ordinance **NPDES Outfall No.**

Description MH 93 ' S, 9' W of NW corner of W Pavilion building

Discharge Components	Process Description	Avg Flow	Unit	Max Flow	Unit	RUD	Effective Date
Sanitary		1,050	GPD		GPD	D	9/19/07
Storm Water		0	GPD		GPD	D	9/19/07
Hospital Waste		1,450	GPD		GPD	D	9/19/07
	Total Flow Avg =	**2,500**		**Max =**			

PRETREATMENT TYPES

SP	EFF_DATE	TYPE	DESCRIPTION
001	06/06/2000	DC28	Grease Trap
001	06/06/2000	DC32	Metallic Replacement
001	06/06/2000	DC20	Electrolysis
002	06/06/2000	DC20	Electrolysis
002	06/06/2000	DC32	Metallic Replacement

PRIORITY POLLUTANTS

Pollutant Description	Status	Pollutant Description	Status	Pollutant Description	Status
Phenanthrene	KP	Asbestos (Fibrous)	SP	Mercury (Total)	SP
Phenol	SP	Methylene Chloride	KP	Chloroform	KP

EXTRA STRENGTH SURCHARGE INFORMATION

For Account Number Selecte **4112195100**

PIMS FACILITY CONTACTS
ST LOUIS UNIVERSITY HOSPITAL

Located at 3635 & 3655 Vista Ave.
St. Louis MO 63110

Address Type

Contact Type	Contact Name		Contact Title	Phone Type	Number	Ext.
Billing Address						
Billing Contact	Skip	Bowders	Energy Center Supervisor	OFF	(314)577-8070	
Office Mailing Address						
Office Contact - Primary	Skip	Bowders	Energy Center Supervisor	OFF	(314)577-8070	
Office Contact 1st Alt	Pattie	Bassarich	Admin Assistant	OFF	(314)577-8070	
Premise Address						
Field Contact - Primary	Skip	Bowders	Energy Center Supervisor	OFF	(314)577-8070	
Field Contact 1st Alt	Pattie	Bassarich	Admin Assistant	OFF	(314)577-8070	

PIMS
REPORT OF FIELD SAMPLING REQUIREMENTS
ST LOUIS UNIVERSITY HOSPITAL

Account No Entered **4112195100**

SPN	PREMISE ADDRESS	CITY	ST	ZIP
	3635 & 3655 Vista Ave.	St. Louis	MO	63110

001 Project Code: IM = IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2010
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2010
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2010
	T237000	pH	Once/year	Grab	06/30/2010
	T247000	Temperature	Once/year	Grab	06/30/2010
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2010
LGRIV (Starts - 08/14/1991)	T257000	Total Phenols	Once/year	Grab	06/30/2010
	T332000	Chloroform	Once/year	Grab	06/30/2010
	T371000	Methylene Chloride	Once/year	Grab	06/30/2010
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2010
Ordinance / 413/433	T999000	Total Toxic Organics	Once/year	Grab	06/30/2010

002 Project Code: IM = IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2010
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2010
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2010
	T237000	pH	Once/year	Grab	06/30/2010
	T247000	Temperature	Once/year	Grab	06/30/2010
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2010
LGRIV (Starts - 08/14/1991)	T257000	Total Phenols	Once/year	Grab	06/30/2010
	T332000	Chloroform	Once/year	Grab	06/30/2010
	T371000	Methylene Chloride	Once/year	Grab	06/30/2010
	T393000	Silver (Total)	Once/year	Comp-Time 04 Hrs	06/30/2010
Ordinance / 413/433	T999000	Total Toxic Organics	Once/year	Grab	06/30/2010

003 Project Code: IM = IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Comp-Time 04 Hrs	06/30/2010
	T213000	Chemical Oxygen Demand	Once/year	Comp-Time 04 Hrs	06/30/2010
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2010
	T237000	pH	Once/year	Grab	06/30/2010
	T247000	Temperature	Once/year	Grab	06/30/2010
	T256000	Total Suspended Solids	Once/year	Comp-Time 04 Hrs	06/30/2010

004 Project Code: IM = IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Grab (Auth in lieu of composite)	06/30/2010
	T213000	Chemical Oxygen Demand	Once/year	Grab (Auth in lieu of composite)	06/30/2010
	T237000	pH	Once/year	Grab	06/30/2010
	T247000	Temperature	Once/year	Grab	06/30/2010
	T256000	Total Suspended Solids	Once/year	Grab (Auth in lieu of composite)	06/30/2010

005 Project Code: IM = IPD - Company - MSD

Pollutant Group	Poll Code	Pollutant Description	Frequency	Sample Type	End Date
	T208000	Biochemical Oxygen Demand (5 Day)	Once/year	Grab (Auth in lieu of composite)	06/30/2010
	T213000	Chemical Oxygen Demand	Once/year	Grab (Auth in lieu of composite)	06/30/2010
	T234000	Oil and Grease (Total)	Once/year	Grab	06/30/2010
	T237000	pH	Once/year	Grab	06/30/2010
	T247000	Temperature	Once/year	Grab	06/30/2010
	T256000	Total Suspended Solids	Once/year	Grab (Auth in lieu of composite)	06/30/2010

Metropolitan St. Louis Sewer District

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

September 22, 2009

Skip Bowders
ST. LOUIS UNIVERSITY HOSPITAL
1635 Vista Ave.
P.O. Box 15250
St. Louis, MO 63110-0250

RE: NOTICE OF VIOLATIONS – WASTEWATER DISCHARGE PERMIT NO. 41121951-00
For premise at: 1635 Vista Ave.

Dear Mr. Bowders:

As we discussed in our telephone conversation on September 21, 2009, MSD personnel recently collected and analyzed samples of wastewater discharged to the MSD system from the premise above. Unfortunately, we identified the following violations:

VIOLATIONS OF DISCHARGE LIMITATIONS:

DATE	TIME	SAMPLE POINT	SAMPLE TYPE	POLLUTANT	DISCHARGE LIMIT	LIMIT TYPE	VALUE FOUND
09-03-09	0837	002	Grab	Oil & Grease (T)	200 mg/L	IN	317 mg/L**

002 = MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building
(T) = Total substance
mg/L = milligrams per liter
IN = Instantaneous

See the enclosure for an explanation of any asterisks appearing in the Value Found column.

REQUIRED ACTION/RESPONSE:

1. Submit a report of corrective actions, to ensure compliance with MSD limitations for Oil & Grease. In the report:
   a. Indicate which corrective actions are initiated and which are still to come
   b. Include plans for additional sampling to verify a return to compliance
2. Submit all additional sampling results to MSD. Sample collection must occur as follows:
   a. Sample at the identified sampling points
   b. Collect grab samples for Oil & Grease
   c. Take samples at times representative of normal operations
3. Refer to the enclosure for additional information on:
   a. Potential enforcement actions should noncompliance continue
   b. The meaning of any asterisks that appear in the Value Found column above
   c. Percentages applicable to Significant Noncompliance, when planning for additional sampling

4. Submit your response no later than **October 26, 2009**.

Thank you for helping us to comply with state and federal regulations. If you have any questions, please contact me at 314.436.8720.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

James E. Goodall
Environmental Engineering Associate

Enclosures: SNC enclosure, SP map

8R
8-11

METROPOLITAN ST. LOUIS SEWER DISTRICT -
INDUSTRIAL USER SELF MONITORING REPORT

PART ONE

ST. LOUIS UNIVERSITY HOSPITAL — PERMIT NUMBER 41121951-00
3635 VISTA AVE.
ST. LOUIS, MO. 63110

MONITORING PERIOD JAN/MAR X APR/JUN JUL/SEP OCT/DEC
Samples collected by...Metropolitan Manufacturers' Association 314-966-1006
Samples analyzed by... TEKLAB, INC.

PART II ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT #	001	# 002	# 003
SAMPLING DATES	05-11-09	05-11-09	05-11-09
FLOW (GPD) E/M	92,000 EST.	56,000 EST.	5,000 EST.

PARAMETER	G/C	LIMIT	ANALYTICAL RESULTS		
TEMP C	g	60@C.	25.6	26.7	22.2
PH	g	5.5 TO 11.5	9.6	9.1	9.4
BOD	c	300 mg/l	161 mg/l	206 mg/l	142 mg/l
COD	c	600 mg/l	324 mg/l	347 mg/l	344 mg/l
TSS	c	350 mg/l	44 mg/l	103 mg/l	188 mg/l
OIL/GR	g	200 mg/l	15 mg/l	17 mg/l	7 mg/l
cd	c	mg/l	mg/l	mg/l	mg/l
cr	c	mg/l	mg/l	mg/l	mg/l
cu	c	mg/l	mg/l	mg/l	mg/l
pb	c	mg/l	mg/l	mg/l	mg/l
ni	c	mg/l	mg/l	mg/l	mg/l
ag	c	0.5 mg/l	<0.0100mg/l	<0.0100 mg/l	mg/l
zn	c	mg/l	mg/l	mg/l	mg/l
cn-T	g	mg/l	mg/l	mg/l	mg/l
cn-A	g	mg/l	mg/l	mg/l	mg/l
TTO	g	5.52mg/l	mg/l	mg/l	mg/l
		mg/l	mg/l	mg/l	mg/l
SAMP. TIME		XXXXXXX	8:05A-11:05AM	8:35A-11:35AM	8:12A-11:12A

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METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART ONE

ST. LOUIS UNIVERSITY HOSPITAL — PERMIT NUMBER 41121951-00
3635 VISTA AVE.
ST. LOUIS, MO. 63110

MONITORING PERIOD JAN/MAR X APR/JUN JUL/SEP OCT/DEC
Samples collected by...Metropolitan Manufacturers' Association 314-966-1006
Samples analyzed by... TEKLAB, INC.

PART II ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT	#	004	#	005	#
SAMPLING DATES		05-11-09		05-11-09	
FLOW (GPD) E/M		936 EST.		5,000 EST.	

PARAMETER	G/C	LIMIT	ANALYTICAL RESULTS					
TEMP C	g	60DEG.	18.9		[illegible]			
PH	g	5.5 TO 11.5	8.8		9.3			
BOD	c	300 mg/l		mg/l	222	mg/l		mg/l
COD	c	600 mg/l	635	mg/l	326	mg/l		mg/l
TSS	c	350 mg/l	37	mg/l	189	mg/l		mg/l
OIL/GR	g	200 mg/l		mg/l	22	mg/l		mg/l
cd	c	mg/l		mg/l		mg/l		mg/l
cr	c	mg/l		mg/l		mg/l		mg/l
cu	c	mg/l		mg/l		mg/l		mg/l
pb	c	mg/l		mg/l		mg/l		mg/l
ni	c	mg/l		mg/l		mg/l		mg/l
ag	c	mg/l		mg/l		mg/l		mg/l
zn	c	mg/l		mg/l		mg/l		mg/l
cn-T	g	mg/l		mg/l		mg/l		mg/l
cn-A	g	mg/l		mg/l		mg/l		mg/l
TTO	g	5.52mg/l		mg/l		mg/l		mg/l
		mg/l		mg/l		mg/l		mg/l
SAMP. TIME		XXXXXXX	8:25A-11:25AM		8:20A-11:20AM			

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PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:

[X] I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) 004

B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:

[ ] I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.

C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:

[ ] I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.

D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:

[ ] I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____

E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:

[ ] I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____

F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:

[ ] I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.

G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:

[ ] Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:

[ ] In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

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

Print or type name of signing official: PAUL BOWRE

Title: SUPERVISOR Telephone: _____

Signature: [signature] Date: _____

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09050426
Lab ID: 09050426-001
Report Date: 18-May-09

Client Project: SLUH 001/2, 002/2, 003/2, 004/2, 00
Client Sample ID: SLUH 001/2
Collection Date: 5/11/2009 11:05:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		15	mg/L	1	5/12/2009 12:00:00 PM	HMH
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Silver	NELAP	0.0100		< 0.0100	mg/L	1	5/13/2009 12:05:08 PM	LAL
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		324	mg/L	1	5/12/2009 9:55:00 AM	HMH
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		44	mg/L	1	5/11/2009 3:30:00 PM	MAB
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		161	mg/L	1	5/11/2009 5:35:00 PM	JMT

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09050426
Lab ID: 09050426-002
Report Date: 18-May-09

Client Project: SLUH 001/2, 002/2, 003/2, 004/2, 00
Client Sample ID: SLUH 002/2
Collection Date: 5/11/2009 11:35:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		17	mg/L	1	5/12/2009 12:00:00 PM	HMH
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Silver	NELAP	0.0100		< 0.0100	mg/L	1	5/13/2009 12:11:47 PM	LAL
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		347	mg/L	1	5/12/2009 9:55:00 AM	HMH
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		103	mg/L	1	5/11/2009 3:30:00 PM	MAB
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		206	mg/L	1	5/11/2009 5:35:00 PM	JMT

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09050426
Lab ID: 09050426-003
Report Date: 18-May-09

Client Project: SLUH 001/2, 002/2, 003/2, 004/2, 00
Client Sample ID: SLUH 003/2
Collection Date: 5/11/2009 11:12:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		7	mg/L	1	5/12/2009 12:00:00 PM	HMH
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		344	mg/L	1	5/12/2009 9:55:00 AM	HMH
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	8		188	mg/L	1	5/11/2009 3:30:00 PM	MAB
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		142	mg/L	1	5/11/2009 5:35:00 PM	JMT

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09050426
Lab ID: 09050426-004
Report Date: 18-May-09

Client Project: SLUH 001/2, 002/2, 003/2, 004/2, 00
Client Sample ID: SLUH 004/2
Collection Date: 5/11/2009 11:25:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		835	mg/L	1	5/12/2009 9:55:00 AM	HMH
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		37	mg/L	1	5/11/2009 3:30:00 PM	MAB

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09050426
Lab ID: 09050426-005
Report Date: 18-May-09

Client Project: SLUH 001/2, 002/2, 003/2, 004/2, 00
Client Sample ID: SLUH 005/2
Collection Date: 5/11/2009 11:20:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		22	mg/L	1	5/12/2009 12:00:00 PM	HMH
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		326	mg/L	1	5/12/2009 9:55:00 AM	HMH
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		188	mg/L	1	5/11/2009 3:30:00 PM	MAB
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		222	mg/L	1	5/11/2009 6:05:00 PM	JMT

Sample Narrative

STORMWATER RUNOFF.....

MMA Wastewater Program
Sample Collection Sheet

Company Name: St. Louis University Hospital Date: 5-11-09

Sample Technician: Butch Regemann Code: SLUH 001/Z

Sample Point # 001 Location: MH in driveway west of loading dock. Sample where all flow meet.

Sample Volume _____ ml

Weather Conditions

Clear (PT Cloudy) Rain

Ambiant Temp: 60° F

Grab Data : Time 8:00 am Sample Temp 78°

Color Cloudy Sample pH 9.6

Odor ND

Composite Data :

1. Time 8:00 Volume ____ ml Temp 78° pH 9.6 Color Cloudy Odor ND
2. Time 9:00 Volume ____ ml Temp ____ pH ____ Color Cloudy Odor ND
3. Time 10:00 Volume ____ ml Temp ____ pH ____ Color Cloudy Odor ND
4. Time 11:00 Volume ____ ml Temp ____ pH ____ Color Cloudy Odor ND
5. Time ____ Volume ____ ml Temp ____ pH ____ Color ____ Odor ____
6. Time ____ Volume ____ ml Temp ____ pH ____ Color ____ Odor ____

Comments and Observations: TTO- 4Lh quarter VOA, semi VOA

Parameters Requested: BOD, COD, OIL/GREASE, TSS, AG.

Chain of Custody :

Delivered to : TEKLAB Date : 5-11-09 Time : 12:10

Chain of Custody Maintained ? (Yes) No

I the undersigned, to the best of my knowledge due hereby, under penalty of purgery, attest to the above as being both complete and correct.

Signed Butch Regemann Date 5-11-09

STORMWATER RUNOFF.....

MMA Wastewater Program
Sample Collection Sheet

Company Name: St. Louis University Hospital Date: 5-11-09

Sample Technician: Butch Beckmann Code: SLUH 002/2

Sample Point # 002 Location: MH on Vista 15' W of sidewalk & 36' S of island. Sample flow from building only.

Sample Volume _____ ml

Weather Conditions: Clear (PT Cloudy) Rain

Ambiant Temp: 60° F

Grab Data : Time 8:35 am Sample Temp 80°

Color Cloudy Sample pH 9.1

Odor ND

Composite Data :

1. Time 8:35 Volume ____ ml Temp 80° pH 9.1 Color Cloudy Odor ND
2. Time 9:35 Volume ____ ml Temp ____ pH ____ Color Cloudy Odor ND
3. Time 10:35 Volume ____ ml Temp ____ pH ____ Color Cloudy Odor ND
4. Time 11:35 Volume ____ ml Temp ____ pH ____ Color Cloudy Odor ND
5. Time ____ Volume ____ ml Temp ____ pH ____ Color ____ Odor ____
6. Time ____ Volume ____ ml Temp ____ pH ____ Color ____ Odor ____

Comments and Observations: TTO-4th quarter VOA, semi VOA.

Parameters Requested: BOD, COD, OIL/GREASE, TSS, AG.

Chain of Custody :

Delivered to : TEKLAB Date : 5-11-09 Time : 12:10

Chain of Custody Maintained ? (Yes) No

I the undersigned, to the best of my knowledge due hereby, under penalty of purgery, attest to the above as being both complete and correct.

Signed Butch Beckmann Date 5-11-09

MMA Waste Water Program

Sample Collection Sheet

Company Name Saint Louis University Hospital Date 5-11-09

Sample Technician Butch Beckmann Code STUH 003/2

Sample Point # _____ Location _____

Ambient Temp 80° F

Weather Conditions: Clear (PT Cloudy) Rain

Grab Data: Time 8:12 Sample Temp 72° ND Odor

Color Cloudy Sample pH 9.4

Composit Data:

1. Time 8:12 Temp 72° pH 9.4 Color Cloudy Odor ND
2. Time 9:12 Temp _____ pH _____ Color Cloudy Odor ND
3. Time 10:12 Temp _____ pH _____ Color Cloudy Odor ND
4. Time 11:12 Temp _____ pH _____ Color Cloudy Odor ND
5. Time _____ Temp _____ pH _____ Color _____ Odor _____
6. Time _____ Temp _____ pH _____ Color _____ Odor _____

TTO Data 4TH QUARTER

Parameters BOD, COD, O/G, TSS, TTO

Comments & Observations _____

Chain of Custody(s) Delivered to: TEKLAB

Chain of Custody Maintained? (Yes) No Date 5-11-09 Time 12:10

I the undersigned, to the best of my knowledge due hereby, under penalty of purgery, attest to the above as being both complete and correct.

Signed Butch Beckmann Date 5-11-09

Notes _____

2nd quarter

MMA Waste Water Program

Sample Collection Sheet

Company Name: Saint Louis University Hospital Date: 5-11-09

Sample Technician: BUTCH BEGEMANN Code: SLUH 0041 Z

Sample Point #: _____ Location: _____

Ambient Temp: 60° F

Weather Conditions: Clear PT Cloudy Rain

Grab Data: Time _____ Sample Temp _____ Odor _____

Color _____ Sample pH _____

Composit Data:

1. Time 8:25 Temp 66° pH 8.8 Color CLOUDY Odor ND
2. Time 9:25 Temp _____ pH _____ Color CLOUDY Odor ND
3. Time 10:25 Temp _____ pH _____ Color SLIGHTLY CLOUDY Odor ND
4. Time 11:25 Temp _____ pH _____ Color SLIGHTLY CLOUDY Odor ND
5. Time _____ Temp _____ pH _____ Color _____ Odor _____
6. Time _____ Temp _____ pH _____ Color _____ Odor _____

TTO Data: NO TTO

Parameters: COD, TSS, TTO

Comments & Observations: _____

Chain of Custody(s) Delivered to: TEKLAB

Chain of Custody Maintained? Yes No Date 5-11-09 Time 12:10

I the undersigned, to the best of my knowledge due hereby, under penalty of purgery, attest to the above as being both complete and correct.

Signed: Butch Begemann Date: 5-11-09

Notes: _____

MMA Waste Water Program

Sample Collection Sheet

Company Name: Saint Louis University Hospital Date: 5-11-09

Sample Technician: DUTCH BEGEMANN Code: SLUH 005/2

Sample Point #: Location:

Ambient Temp: 60° F

Weather Conditions: Clear (PT Cloudy) Rain

Grab Data: Time: 8:20 Sample Temp: 66° PUNGENT Odor

Color: CLOUDY Sample pH: 9.3

Composit Data:

1. Time: 8:20 Temp: 66 pH: 9.3 Color: CLOUDY Odor: PUNGENT
2. Time: 9:20 Temp: pH: Color: CLOUDY Odor: PUNGENT
3. Time: 10:20 Temp: pH: Color: CLOUDY Odor: ND
4. Time: 11:20 Temp: pH: Color: CLOUDY Odor: ND
5. Time: Temp: pH: Color: Odor:
6. Time: Temp: pH: Color: Odor:

TTO Data: 4TH QUARTER

Parameters: BOD, COD, O/G, TSS, TTO

Comments & Observations:

Chain of Custody(s) Delivered to: TERLAB

Chain of Custody Maintained? (Yes) No Date 5-11-09 Time 12:10

I the undersigned, to the best of my knowledge due hereby, under penalty of purgery, attest to the above as being both complete and correct.

Signed: Dutch Begemann Date: 5-11-09

Notes:

1402 South Grand Blvd.
St. Louis, MO 63104-1085
Fax: 314-977-5560
www.slu.edu

4/12/951-00

SAINT LOUIS
UNIVERSITY

Office of Environmental Safety & Services
Environmental Safety Office (C307)
314-977-8608

Radiation Safety Office (RB5)
314-977-8609

July 28, 2009

Douglas M. Mendoza
Industrial Waste Engineer
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(FAX #: 436-8753)

SUBJECT: Quarterly Reports Of Radionuclide Discharge For The Period April - June 2009

Dear Mr. Mendoza:

Attached you will find copies of the MSD Industrial User Radioactive Materials Discharge Reports for all Saint Louis University and affiliated facilities. Copies of some of these reports for which wastewater permits are held have been forwarded to Mr. Todd Stirewalt (Anheuser Busch Eye Institute, Saint Louis University Hospital).

In order to avoid confusion, any discharges from the laboratories in Cardinal Glennon Hospital's basement (which had at one time been reported to you by Cardinal Glennon) will be incorporated into this report.

If you have any questions regarding these reports, please contact me at 977-6896.

Sincerely,

Kevin Ferguson
Health Physicist

RECEIVED
JUL 30 2009
DIVISION OF
ENVIRONMENTAL COMPLIANCE

SR

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ■(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

☑ I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

RECEIVED
JUL 30 2009
DIVISION OF ENVIRONMENTAL COMPLIANCE

Title: Health Physicist Telephone: 977-6896

Signature: Date: 7/28/09

OFFICE OF ENVIRONMENTAL COMPLIANCE
MEMORANDUM

MEMO TO: Hospital Files

FROM: Tom Boehm

DATE: June 16, 2009

SUBJECT: **Total Phenols on Field Sampling Requirements**

From past experience, we understand that most health care facilities use phenols in one form or another for both lab use and for sanitization. We also know that the expertise of those charged with completing Permit Applications (Industrial User Questionnaire - IUQ) runs the gamut from highly qualified EHS employees to less qualified maintenance and HR personnel. Because of this large disparity in their knowledge of chemistry, some may not be aware of the existence of these products being used on site and may not have included them on the Priority Pollutant list on the IUQ.

In order to combat this and to make Field Sampling Requirements more consistent across the Permitted hospitals in the PIMS database, all sample points that collect hospital waste and have potential for phenolic containing discharges are being changed to include Total Phenols. Individual phenolics are being removed because Total Phenols includes them in the Method 420.1. If this 'wet method' yields a result above our limitation, Method 625 must be used to determine the level of individual phenolic compounds. Permit requirement changes will be handled as each is revised over the next few years.

Cc:

Anheuser-Busch Institute	4112225102
Barnes Jewish – North Campus	5112218200
Barnes Jewish – South Campus	5112216900
Barnes Jewish West County Hospital	0611508201
Christian Hospital	3118097000
Des Peres Hospital	7018960700
Forest Park Hospital	4112271800
Kindred Hospital – St. Louis	5112241404
Missouri Baptist Medical Center	3118092900
Shriner's Hospital For Children	6118481900
SSM Cardinal Glennon Children's Hospital	4112195400
SSM Depaul Health Center	0511000500
SSM St. Mary's Health Center	9009387301
St. Alexius Hospital Corp #1	3112133801
St. Alexius Hospital Corp #1	3112536100
St. Anthony's Medical Center	0610900300
St. John's Mercy Medical Center	3118089900
St. Louis Children's Hospital	9000640301
St. Louis University Health Sciences Center	4112193600
St. Louis University Hospital	4112195100
St. Lukes Hospital	0611862000
VA Medical Center	1114011101
VA Medical Center	1114046000

M:\memo\ Hospital phenol cleanup w061609.doc

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART ONE

ST. LOUIS UNIVERSITY HOSPITAL — PERMIT NUMBER 41121951-00
3635 VISTA AVE.
ST. LOUIS, MO. 63110

MONITORING PERIOD X JAN/MAR APR/JUN JUL/SEP OCT/DEC
Samples collected by...Metropolitan Manufacturers' Association 314-966-1006
Samples analyzed by... TEKLAB, INC.

PART II ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT	# 001	# 002	# 003
SAMPLING DATES	02-26-09	02-26-09	02-26-09
FLOW (GPD) C/M	92,000 EST.	56,000 EST.	5,000 EST.

PARAMETER	G/C	LIMIT	ANALYTICAL RESULTS		
TEMP C	g	60@C.	18.9	23.3	23.9
PH	g	5.5 TO 11.5	9.3	8.6	9.3
BOD	c	300 mg/l	163 mg/l	281 mg/l	421 mg/l
COD	c	600 mg/l	411 mg/l	551 mg/l	1090 mg/l
TSS	c	350 mg/l	89 mg/l	101 mg/l	214 mg/l
OIL/GR	g	200 mg/l	11 mg/l	47 mg/l	115 mg/l
cd	c	mg/l	mg/l	mg/l	mg/l
cr	c	mg/l	mg/l	mg/l	mg/l
cu	c	mg/l	mg/l	mg/l	mg/l
pb	c	mg/l	mg/l	mg/l	mg/l
ni	c	mg/l	mg/l	mg/l	mg/l
ag	c	0.5 mg/l	<0.0100mg/l	<0.0100 mg/l	mg/l
zn	c	mg/l	mg/l	mg/l	mg/l
cn-T	g	mg/l	mg/l	mg/l	mg/l
cn-A	g	mg/l	mg/l	mg/l	mg/l
TTO	g	5.52mg/l	mg/l	mg/l	mg/l
		mg/l	mg/l	mg/l	mg/l
SAMP. TIME		XXXXXXX	7:38A-10:38AM	7:56A-10:56AM	7:42A-10:42A

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METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART ONE

ST. LOUIS UNIVERSITY HOSPITAL — PERMIT NUMBER 41121951-00
3635 VISTA AVE.
ST. LOUIS, MO. 63110

MONITORING PERIOD X JAN/MAR APR/JUN JUL/SEP OCT/DEC
Samples collected by...Metropolitan Manufacturers' Association 314-966-1006
Samples analyzed by... TEKLAB, INC.

PART II ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT	#	004	#	005	#
SAMPLING DATES		02-26-09		02-26-09	
FLOW (GPD) E/M		936 EST.		5,000 EST.	

PARAMETER	G/C	LIMIT	ANALYTICAL RESULTS				
TEMP C	g	60@C.			16.7		
PH	g	5.5 TO 11.5			9.9		
BOD	c	300 mg/l		mg/l	139	mg/l	mg/l
COD	c	600 mg/l		mg/l	462	mg/l	mg/l
TSS	c	350 mg/l		mg/l	142	mg/l	mg/l
OIL/GR	g	200 mg/l		mg/l	13	mg/l	mg/l
cd	c	mg/l		mg/l		mg/l	mg/l
cr	c	mg/l		mg/l		mg/l	mg/l
cu	c	mg/l		mg/l		mg/l	mg/l
pb	c	mg/l		mg/l		mg/l	mg/l
ni	c	mg/l		mg/l		mg/l	mg/l
ag	c	mg/l		mg/l		mg/l	mg/l
zn	c	mg/l		mg/l		mg/l	mg/l
cn-T	g	mg/l		mg/l		mg/l	mg/l
cn-A	g	mg/l		mg/l		mg/l	mg/l
TTO	g	5.52mg/l		mg/l		mg/l	mg/l
		mg/l		mg/l		mg/l	mg/l
SAMP. TIME		XXXXXXX			7:50A-10-50AM		

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PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you GO ON TO PART IV.

A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:

[X] I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) 024

B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification.

[ ] I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.

C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:

[ ] I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.

D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:

[ ] I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____

E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:

[ ] I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____

F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:

[ ] I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.

G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:

[ ] Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. **Everyone must complete the information under statement B and sign this report.**

A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:

[ ] In lieu of monitoring for TTO at sample point(s) _____. I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. **DISCHARGE MONITORING REPORT CERTIFICATION**

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

Print or type name of signing official: _____

Title: SUPERVISOR Telephone: _____

Signature: [signature] Date: 3/26/04

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09020997
Lab ID: 09020997-001
Report Date: 04-Mar-09

Client Project: SLUH 001/1, 002/1, 003/1, 005/1
Client Sample ID: SLUH 001/1
Collection Date: 2/26/2009 10:38:00 AM
Matrix: WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		11	mg/L	1	2/27/2009 1:30:00 PM	HMH
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Silver	NELAP	0.0100		< 0.0100	mg/L	1	2/27/2009 1:05:47 PM	JMW
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		411	mg/L	1	2/27/2009 10:30:00 AM	HMH
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		89	mg/L	1	2/27/2009 3:00:00 PM	MAB
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		183	mg/L	1	2/27/2009 11:30:00 AM	JMT

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09020997
Lab ID: 09020997-002
Report Date: 04-Mar-09

Client Project: SLUH 001/1, 002/1, 003/1, 005/1
Client Sample ID: SLUH 003/1
Collection Date: 2/26/2009 10:42:00 AM
Matrix: WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		115	mg/L	1	2/27/2009 1:30:00 PM	HMH
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		1090	mg/L	1	2/27/2009 10:30:00 AM	HMH
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		214	mg/L	1	2/27/2009 3:00:00 PM	MAB
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		421	mg/L	1	2/27/2009 11:30:00 AM	JMT

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 09020997
Lab ID: 09020997-003
Report Date: 04-Mar-09

Client Project: SLUH 001/1, 002/1, 003/1, 005/1
Client Sample ID: SLUH 005/1
Collection Date: 2/26/2009 10:50:00 AM
Matrix: WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		13	mg/L	1	2/27/2009 1:30:00 PM	HMH
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		452	mg/L	1	2/27/2009 10:30:00 AM	HMH
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		142	mg/L	1	2/27/2009 3:00:00 PM	MAB
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		138	mg/L	1	2/27/2009 11:30:00 AM	JMT

Sample Narrative

1402 South Grand Blvd.
St. Louis, MO 63104-1085
Fax: 314-977-5560
www.slu.edu

4112195 1-00

SAINT LOUIS
UNIVERSITY

Office of Environmental Safety & Services
Environmental Safety Office (C307)
314-977-8608

Radiation Safety Office (RB5)
314-977-8609

April 20, 2009

Douglas M. Mendoza
Industrial Waste Engineer
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(FAX #: 436-8753)

SUBJECT: Quarterly Reports Of Radionuclide Discharge For The Period Jan. - March 2009

Dear Mr. Mendoza:

Attached you will find copies of the MSD Industrial User Radioactive Materials Discharge Reports for all Saint Louis University and affiliated facilities. Copies of some of these reports for which wastewater permits are held have been forwarded to Mr. Todd Stirewalt (Anheuser Busch Eye Institute, Saint Louis University Hospital).

In order to avoid confusion, any discharges from the laboratories in Cardinal Glennon Hospital's basement (which had at one time been reported to you by Cardinal Glennon) will be incorporated into this report.

If you have any questions regarding these reports, please contact me at 977-6896.

Sincerely,

Kevin Ferguson
Health Physicist

RECEIVED
APR 27 2009
DIVISION OF
ENVIRONMENTAL COMPLIANCE

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ■(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

KF I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 4/20/09

RECEIVED
APR 27 2009
DIVISION OF
ENVIRONMENTAL COMPLIANCE

SR
2-5
2-13

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART ONE

ST. LOUIS UNIVERSITY HOSPITAL
3635 VISTA AVE.
ST. LOUIS, MO. 63110

PERMIT NUMBER 41121951-00

MONITORING PERIOD JAN/MAR APR/JUN JUL/SEP X OCT/DEC
Samples collected by...Metropolitan Manufacturers' Association 314-966-1006
Samples analyzed by... TEKLAB, INC.

PART II ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT	# 001	# 002	# 003
SAMPLING DATES	10-22-08	10-22-08	10-22-08
FLOW (GPD) E/M	92,000 EST.	56,000 EST.	5,000 EST.

PARAMETER	G/C	LIMIT	ANALYTICAL RESULTS		
TEMP C	g	60@C.	25.6	30.0	22.2
PH	g	5.5 TO 11.5	9.2	8.8	8.6
BOD	c	300 mg/l	192 mg/l	229 mg/l	100 mg/l
COD	c	600 mg/l	469 mg/l	420 mg/l	236 mg/l
TSS	c	350 mg/l	84 mg/l	95 mg/l	78 mg/l
OIL/GR	g	200 mg/l	26 mg/l	19 mg/l	12 mg/l
cd	c	mg/l	mg/l	mg/l	mg/l
cr	c	mg/l	mg/l	mg/l	mg/l
cu	c	mg/l	mg/l	mg/l	mg/l
pb	c	mg/l	mg/l	mg/l	mg/l
ni	c	mg/l	mg/l	mg/l	mg/l
ag	c	0.5 mg/l	0.0484mg/l	0.0031 mg/l	mg/l
zn	c	mg/l	mg/l	mg/l	mg/l
cn-T	g	mg/l	mg/l	mg/l	mg/l
cn-A	g	mg/l	mg/l	mg/l	mg/l
TTO	g	5.52mg/l	< 0.042mg/l	< 0.043 mg/l	<0.046mg/l
		mg/l	mg/l	mg/l	mg/l
SAMP. TIME		XXXXXXX	7:54A-10:54AM	7:48A-10:48AM	7:59A-10:59A

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METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART ONE

ST. LOUIS UNIVERSITY HOSPITAL
3635 VISTA AVE.
ST. LOUIS, MO. 63110

PERMIT NUMBER 41121951-00

MONITORING PERIOD JAN/MAR APR/JUN JUL/SEP X OCT/DEC
Samples collected by...Metropolitan Manufacturers' Association 314-966-1006
Samples analyzed by... TEKLAB, INC.

PART II ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT	#	004	#	005	#
SAMPLING DATES		10-22-08		10-22-08	
FLOW (GPD) E/M		936 EST.		5,000 EST.	

PARAMETER	G/C	LIMIT	ANALYTICAL RESULTS				
TEMP C	g	60@C.	24.4		20.6		
PH	g	5.5 TO 11.5	8.1		9.1		
BOD	c	300 mg/l		mg/l	196	mg/l	mg/l
COD	c	600 mg/l	38	mg/l	507	mg/l	mg/l
TSS	c	350 mg/l	18	mg/l	170	mg/l	mg/l
OIL/GR	g	200 mg/l		mg/l	54	mg/l	mg/l
cd	c	mg/l		mg/l		mg/l	mg/l
cr	c	mg/l		mg/l		mg/l	mg/l
cu	c	mg/l		mg/l		mg/l	mg/l
pb	c	mg/l		mg/l		mg/l	mg/l
ni	c	mg/l		mg/l		mg/l	mg/l
ag	c	mg/l		mg/l		mg/l	mg/l
zn	c	mg/l		mg/l		mg/l	mg/l
cn-T	g	mg/l		mg/l		mg/l	mg/l
cn-A	g	mg/l		mg/l		mg/l	mg/l
TTO	g	5.52mg/l		mg/l	< 0.045	mg/l	mg/l
		mg/l		mg/l		mg/l	mg/l
SAMP. TIME		XXXXXXX	8:12A-11:12AM		8:05A-11-05AM		

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INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:

[X] I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) 004.

B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:

[ ] I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.

C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:

[ ] I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.

D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:

[ ] I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.

E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification :

[ ] I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.

F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:

[ ] I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.

G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:

[ ] Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:

[ ] In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

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

Print or type name of signing official: _____

Title: _____

Signature: _____ Telephone: _____

Date: 2/3/09

SMF 10/93

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 08100725
Lab ID: 08100725-001
Report Date: 28-Oct-08

Client Project: SLUH 001, 002, 003, 004, 005/4
Client Sample ID: SLUH 001/4
Collection Date: 10/22/2008 10:54:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		26	mg/L	1	10/22/2008	HMH
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Silver	NELAP	0.0100		0.0484	mg/L	1	10/23/2008 1:30:10 PM	LAL
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		469	mg/L	1	10/23/2008	HMH
EPA 600 624, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0	J	1.0	µg/L	1	10/25/2008 1:15:00 AM	CCF
Methylene chloride	NELAP	5.0		ND	µg/L	1	10/25/2008 1:15:00 AM	CCF
Surr: 1,2-Dichloroethane-d4		74.7-129		104.2	%REC	1	10/25/2008 1:15:00 AM	CCF
Surr: 4-Bromofluorobenzene		86-119		101.7	%REC	1	10/25/2008 1:15:00 AM	CCF
Surr: Dibromofluoromethane		81.7-123		98.9	%REC	1	10/25/2008 1:15:00 AM	CCF
Surr: Toluene-d8		84.3-114		104.1	%REC	1	10/25/2008 1:15:00 AM	CCF
EPA 600 625, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Phenol	NELAP	0.042		ND	mg/L	10	10/23/2008 5:32:00 PM	TDN
Surr: 2,4,6-Tribromophenol		27.7-149		63.9	%REC	10	10/23/2008 5:32:00 PM	TDN
Surr: 2-Fluorophenol		10.6-76.7		23.5	%REC	10	10/23/2008 5:32:00 PM	TDN
Surr: Phenol-d5		9.04-52.9		16.1	%REC	10	10/23/2008 5:32:00 PM	TDN
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		84	mg/L	1	10/23/2008	KLB
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		192	mg/L	1	10/23/2008 11:15:00 AM	HMH

Sample Narrative

EPA 600 625, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 08100725
Lab ID: 08100725-002
Report Date: 28-Oct-08

Client Project: SLUH 001, 002, 003, 004, 005/4
Client Sample ID: SLUH 002/4
Collection Date: 10/22/2008 10:48:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		19	mg/L	1	10/22/2008	HMH
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Silver	NELAP	0.0100	J	0.0031	mg/L	1	10/23/2008 1:36:45 PM	LAL
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		420	mg/L	1	10/23/2008	HMH
EPA 600 624, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0		17.0	µg/L	1	10/25/2008 1:46:00 AM	CCF
Methylene chloride	NELAP	5.0		ND	µg/L	1	10/25/2008 1:46:00 AM	CCF
Surr: 1,2-Dichloroethane-d4		74.7-129		97.8	%REC	1	10/25/2008 1:46:00 AM	CCF
Surr: 4-Bromofluorobenzene		86-118		101.5	%REC	1	10/25/2008 1:46:00 AM	CCF
Surr: Dibromofluoromethane		81.7-123		100.1	%REC	1	10/25/2008 1:46:00 AM	CCF
Surr: Toluene-d8		84.3-114		104.8	%REC	1	10/25/2008 1:46:00 AM	CCF
EPA 600 625, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Phenol	NELAP	0.043		ND	mg/L	10	10/23/2008 5:51:00 PM	TDN
Surr: 2,4,6-Tribromophenol		27.7-149		70.0	%REC	10	10/23/2008 5:51:00 PM	TDN
Surr: 2-Fluorophenol		10.6-78.7		23.2	%REC	10	10/23/2008 5:51:00 PM	TDN
Surr: Phenol-d5		9.04-52.9		14.7	%REC	10	10/23/2008 5:51:00 PM	TDN
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		95	mg/L	1	10/23/2008	KLB
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		220	mg/L	1	10/23/2008 11:15:00 AM	HMH

Sample Narrative
EPA 600 625, Semi-Volatile Organic Compounds by GC/MS
Elevated reporting limit due to high levels of target and/or non-target analytes.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 08100725
Lab ID: 08100725-003
Report Date: 28-Oct-08

Client Project: SLUH 001, 002, 003, 004, 005/4
Client Sample ID: SLUH 003/4
Collection Date: 10/22/2008 10:59:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		12	mg/L	1	10/22/2008	HMH
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		236	mg/L	1	10/23/2008	HMH
EPA 600 624, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0	J	1.8	µg/L	1	10/25/2008 2:16:00 AM	CCF
Methylene chloride	NELAP	5.0		ND	µg/L	1	10/25/2008 2:16:00 AM	CCF
Surr: 1,2-Dichloroethane-d4		74.7-120		101.4	%REC	1	10/25/2008 2:16:00 AM	CCF
Surr: 4-Bromofluorobenzene		86-119		99.4	%REC	1	10/25/2008 2:16:00 AM	CCF
Surr: Dibromofluoromethane		81.7-123		100.8	%REC	1	10/25/2008 2:16:00 AM	CCF
Surr: Toluene-d8		84.3-114		103.5	%REC	1	10/25/2008 2:16:00 AM	CCF
EPA 600 625, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Phenol	NELAP	0.046		ND	mg/L	10	10/23/2008 6:09:00 PM	TDN
Surr: 2,4,6-Tribromophenol		27.7-149		73.2	%REC	10	10/23/2008 6:09:00 PM	TDN
Surr: 2-Fluorophenol		10.6-78.7		27.1	%REC	10	10/23/2008 6:09:00 PM	TDN
Surr: Phenol d5		9.04-52.9		16.2	%REC	10	10/23/2008 6:09:00 PM	TDN
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		78	mg/L	1	10/23/2008	KLB
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		100	mg/L	1	10/23/2008 11:15:00 AM	HMH

Sample Narrative

EPA 600 625, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 08100725
Lab ID: 08100725-004
Report Date: 28-Oct-08

Client Project: SLUH 001, 002, 003, 004, 005/4
Client Sample ID: SLUH 004/4
Collection Date: 10/22/2008 11:12:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50	J	38	mg/L	1	10/23/2008	HMH
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		18	mg/L	1	10/23/2008	KLB

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: Metropolitan Manufacturers Association
WorkOrder: 08100725
Lab ID: 08100725-005
Report Date: 28-Oct-08

Client Project: SLUH 001, 002, 003, 004, 005/4
Client Sample ID: SLUH 005/4
Collection Date: 10/22/2008 11:05:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 1664A								
Hexane Extractable Material	NELAP	6		54	mg/L	1	10/22/2008	HMH
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		507	mg/L	1	10/23/2008	HMH
EPA 600 624, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0	J	1.6	µg/L	1	10/25/2008 2:47:00 AM	CCF
Methylene chloride	NELAP	5.0		ND	µg/L	1	10/25/2008 2:47:00 AM	CCF
Surr: 1,2-Dichloroethane-d4		74.7-129		101.1	%REC	1	10/25/2008 2:47:00 AM	CCF
Surr: 4-Bromofluorobenzene		86-119		99.3	%REC	1	10/25/2008 2:47:00 AM	CCF
Surr: Dibromofluoromethane		81.7-123		101.7	%REC	1	10/25/2008 2:47:00 AM	CCF
Surr: Toluene-d8		84.3-114		103.2	%REC	1	10/25/2008 2:47:00 AM	CCF
EPA 600 625, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Phenol	NELAP	0.045		ND	mg/L	10	10/23/2008 6:27:00 PM	TDN
Surr: 2,4,6-Tribromophenol		27.7-149		63.2	%REC	10	10/23/2008 6:27:00 PM	TDN
Surr: 2-Fluorophenol		10.6-78.7		23.0	%REC	10	10/23/2008 6:27:00 PM	TDN
Surr: Phenol-d5		9.04 62.9		14.6	%REC	10	10/23/2008 6:27:00 PM	TDN
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		170	mg/L	1	10/23/2008	KLB
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		196	mg/L	1	10/23/2008 11:15:00 AM	HMH

Sample Narrative

EPA 600 625, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

1402 South Grand Blvd.
St. Louis, MO 63104-1085
Fax: 314-977-5560
www.slu.edu

41121951-00

SAINT LOUIS
UNIVERSITY

Office of Environmental Safety & Services
Environmental Safety Office (C307)
314-977-8608

Radiation Safety Office (RB5)
314-977-8609

January 20, 2009

Douglas M. Mendoza
Industrial Waste Engineer
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(FAX #: 436-8753)

SUBJECT: Quarterly Reports Of Radionuclide Discharge For The Period Oct. - Dec. 2008

Dear Mr. Mendoza:

Attached you will find copies of the MSD Industrial User Radioactive Materials Discharge Reports for all Saint Louis University and affiliated facilities. Copies of some of these reports for which wastewater permits are held have been forwarded to Mr. Todd Stirewalt (Anheuser Busch Eye Institute, Saint Louis University Hospital).

In order to avoid confusion, any discharges from the laboratories in Cardinal Glennon Hospital's basement (which had at one time been reported to you by Cardinal Glennon) will be incorporated into this report.

If you have any questions regarding these reports, please contact me at 977-6896.

Sincerely,

Kevin Ferguson
Health Physicist

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JAN 23 2009
DIVISION OF
ENVIRONMENTAL COMPLIANCE

MSD 038527

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **Saint Louis University Hospital**
Permit No: **41121951-00**
Premise No: **3635 Vista at Grand Boulevard, 63104**
Reporting Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ■(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
None	0
TOTAL ACTIVITY DISCHARGED:	0

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A.
Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

☒ I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

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

Print/type name of signing official: Kevin Ferguson

Title: Health Physicist Telephone: 977-6896

Signature: Date: 1/20/09

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JAN 23 2009
DIVISION OF
ENVIRONMENTAL COMPLIANCE

IND FIUR(R)

FOR MSD USE ONLY	
Account Number: 4112195I-00	Category: (SIU) CIU SUR HIFL NOTXWST (TXWST) NOPRFL MULTI
TA: BP	
TS: DUB MILL CK	FTG (Reviewer) 07.03.06 (Date)

METROPOLITAN ST. LOUIS SEWER DISTRICT
OFFICE OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL USER QUESTIONNAIRE

Note to Signing Official: In accordance with Title 40 of the Code of Federal Regulations Part 403, Section 403.14, information and data provided in this questionnaire, which identifies the nature and frequency of discharge, shall be available to the public without restriction. Requests for confidential treatment of other information shall be governed by procedures specified in 40 CFR Part 2. Should a discharge permit be required for your facility, the information in this questionnaire will be used to develop the permit.

SECTION A - GENERAL INFORMATION

1. Company Name: SAINT LOUIS UNIVERSITY HOSPITAL
2. Mailing Address: 3635 VISTA AT GRAND
   P.O. BOX 15250 Zip Code: 63110
3. Premise Address: 1315-1341 S. GRAND BLVD
   Zip Code:
4. Person Authorized to Sign Reporting Documents:
   Name and Title: TIMOTHY W. HILL
   DIRECTOR OF BUILDING SERVICES Tel. No.: (314) 577-8070
5. Check One: [x] Existing Discharge
   [ ] Proposed Discharge If proposed, indicate discharge start date:
6. Shift Information:
   a. Number of shifts per work day: 3 and work days per week: 7
   b. Average number of employees per shift: 1st 1884 2nd 616 3rd 615 Total: 3115
   c. Shift start times: 1st 7A 2nd 3P 3rd 11P

SECTION B - PRODUCT OR SERVICE INFORMATION

1. Briefly describe the primary manufacturing or service activities at the premise address and list the applicable SIC number for each activity:

PRIMARY ACTIVITY	SIC NUMBER
a. MAIN HOSPITAL - ACUTE CARE - LEVEL I TRAUMA CENTER	
b. WEST PAVILION - ACUTE CARE PSYCH, OFFICES, RESEARCH	
c.	
d.	

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DIVISION OF ENVIRONMENTAL COMPLIANCE

Company Name: SAINT LOUIS UNIVERSITY HOSPITAL
Premise Address: 1315-1341 SOUTH GRAND
Account Number: 4112195100

SECTION B - PRODUCT OR SERVICE INFORMATION (Continued)

2. Are primary activities generally batch or continuous processes ? [ ] batch [x] continuous

3. Principal raw materials used: N/A

4. Principal products produced: N/A

5. Check all activities which are conducted at your premise in addition to the primary activities described in B.1 above. Indicate the SIC number, if known. Do not check activities which are already included in B.1.

ACTIVITY	SIC NO.	ACTIVITY	SIC NO.
[ ] Adhesive and Sealants Mfg.		[ ] Mineral Mining and Processing	
[ ] Aluminum Forming		[ ] Nonferrous Metals Forming	
[ ] Asbestos Mfg.		[ ] Nonferrous Metals Mfg.	
[ ] Battery Mfg.		[ ] Organic Chem., Plastics & Synthetic Fibers Mfg.	
[ ] Builder's Paper and Roofing Felt Mfg.		[ ] Paint Formulating	
[ ] Carbon Black Mfg.		[ ] Painting, Finishing or Paint Stripping	
[ ] Cement Mfg.		[ ] Parts Washing	
[ ] Coil Coating		[ ] Paving and Roofing Materials	
[ ] Copper Forming		[ ] Pesticide Chem. Mfg., Formulating, Packaging	
[ ] Dairy Products Processing		[ ] Petroleum Refining	
[ ] Drum Reconditioning		[ ] Pharmaceutical Mfg.	
[ ] Electrical and Electronic Components		[ ] Phosphate Mfg.	
[ ] Electroplating		[x] Photographic Processing	
[ ] Explosive Mfg.		[ ] Plastic Molding and Forming	
[ ] Feedlots		[ ] Porcelain Enameling	
[ ] Ferroalloy Mfg.		[ ] Printing and Publishing	
[ ] Fertilizer Mfg.		[ ] Pulp, Paper and Paperboard Mfg.	
[x] Food Preparation		[ ] Q.C. Laboratory	
[ ] Fruit and Vegetable Processing		[x] R & D Laboratory	
[ ] General Offices		[ ] Radioactive Materials Processing	
[ ] Glass Mfg.		[ ] Repair Shop, Garage	
[ ] Grain Milling		[ ] Rubber and Rubber Products Mfg.	
[ ] Gum and Wood Chemical Mfg.		[ ] Seafood Processing	
[ ] Hazardous Waste Treatment, Storage or Disposal		[ ] Soap and Detergent Mfg.	
[x] Health Care or Hospital		[ ] Solvent Recycling	
[ ] Industrial Laundry		[ ] Steam Electric Power Generation	
[ ] Ink Formulating		[ ] Sugar Processing	
[ ] Inorganic Chemicals Mfg.		[ ] Textile Mills	
[ ] Iron and Steel Mfg.		[ ] Timber Products Mfg.	
[ ] Leather Tanning and Finishing		[ ] Transportation Equipment Cleaning	
[ ] Machine Shop		[ ] Transportation Services	
[ ] Machinery Mfg. or Rebuilding		[ ] Used Oil Reclamation	
[ ] Meat Processing		[ ] Vehicle/Equipment Washing	
[ ] Metal Finishing		[ ] Warehousing	
[ ] Metal Molding and Casting		[ ] Waste Recycling	
		[ ] Others (Describe)	

6. Are your activities subject to seasonal variation? [ ] Yes [x] No
If "Yes," explain and indicate the month(s) of peak activity:

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JUL 03 2006
DIVISION OF
ENVIRONMENTAL COMPLIANCE

Company Name: SAINT LOUIS UNIVERSITY HOSPITAL
Premise Address: 1315-1341 S. GRAND
Account Number: 4112195100

SECTION C - WATER CONSUMPTION AND WASTEWATER DISCHARGES

1. Raw Water Source(s):
   - [x] City of St. Louis Water Div.
   - [ ] St. Louis County Water Co.
   - [ ] Other municipal source _____
   - [ ] Hauled by contractor
   - [ ] Surface water
   - [ ] Private well
   - [ ] Other (describe) _____

2. Water Bill Addressee: SAINT LOUIS UNIVERSITY HOSPITAL 3675 VISTA AT GRAND
3. Water Service Account Numbers: 405129-226358 AND 405123-226354
4. List past twelve months water usage from:

			Water Bills	Other Sources
1st 3 mo period	4 Mo 05 Yr	through 7 Mo 05 Yr	26998 ~~21677~~ Ccf	_____ Ccf
2nd 3 mo period	7 Mo 05 Yr	through 10 Mo 05 Yr	30883 ~~25072~~ Ccf	_____ Ccf
3rd 3 mo period	10 Mo 05 Yr	through 1 Mo 06 Yr	14891 Ccf	_____ Ccf
4th 3 mo period	1 Mo 06 Yr	through 4 Mo 06 Yr	~~27377~~ 29967 Ccf	_____ Ccf

5. Describe any treatment or conditioning process performed on the raw water before use:
   ZEOLITE WATER SOFTNER

6. Identify all water uses within your facility:

Water Uses	Estimated Average Daily Use (Gallons per day)
a. Sanitary	120,212
b. Irrigation & lawn watering	300 ~~300~~
c. Non-contact cooling water	68,800
d. Contact cooling water	
e. Process water	
f. Plant & equipment washdown	
g. Boiler	28,100
h. Other uses _____	
i. Total of USES (6a through 6h):	~~198312~~ 217412

7. Identify all water losses and wastewater discharges from your facility:

Water Losses & Discharges	Estimated Average Daily Loss/Discharge (Gallons per Day)
a. Municipal sewer	155112 ~~148312~~
b. Watercourse, storm drain, ground	300
c. Haulers	
d. Evaporation	62000 ~~50000~~
e. Contained in product	
f. Total of LOSSES & DISCHARGES: (7a through 7e must equal total at 6i)	~~198312~~ 217412

8. For each activity you listed in Sections B.1 and B.5, list the average water usage and average wastewater discharge. Attach additional sheets, if needed.

Item No.	Activity	Type of Discharge: Cont	Batch	None	Avg. Water Use (GPD)	Avg. Discharge to Mun Sewer (GPD)	Date when activity first commenced at this facility
1	ACUTE PATIENT CARE	[x]	[ ]	[ ]	111212	111212	
2	MIXED USE	[x]	[ ]	[ ]	9000	9000	1/01
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			

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Company Name: SAINT LOUIS UNIVERSITY HOSPITAL
Premise Address: 1315-1341 S. GRAND
Account Number: 4112195100

SECTION D - SEWER CONNECTION INFORMATION

1. Attach a scale drawing of your premise, which shows:
   a. All buildings, structures, alleys, streets and other pertinent features.
   b. All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
   c. A sampling point for each connection to the public sewer.
   d. A sampling point for each discharge from a federally regulated categorical process.
   e. A sampling point for each discharge to a separate storm sewer or watercourse.

2. List each sampling point identified in 1.c, d and e above and each connection for which there is no sampling point. Assign a sequential reference number to each location, starting with No. 1. Attach additional sheets, if needed.

Reference Number	Sewer Size (Inches)	Description of sewer sampling point or connection (Vent, manhole, valve, tank or other appurtenance. Indicate size and location)	Total Daily Average Flow (GPD)
1	15	MANHOLE IN LOT WEST OF LOADING DOCK	~~92,000~~ 128,000
2	15	MANHOLE ON VISTA, IN FRONT ENTRANCE	~~56,000~~ 20,000 FG
3	15	MANHOLE ON VISTA, SW OF ENTRANCE	4,000
4	15	IN UNDERGROUND AREA, OLD BOILER ROOM	612
5	15	MANHOLE WEST OF NORTH END OF BUILDING	2500

SECTION E - WASTEWATER INFORMATION

CHANGES BY FG 7/5/06

1. For each point listed in D.2 above, list the wastewater discharge corresponding to each water usage listed in Section C.6. Attach additional sheets, if needed.

Type of Wastewater	Discharge Quantity (GPD) for each sampling point or connection listed in D.2					Facility Total (See instr.)
	1 (001)	2 (002)	3 (003)	4 (004)	5 (005)	
a. Sanitary	92000	20,000	4000		2500	118500
b. Irrigation & lawn watering						
c. Non-contact cooling water	10,000			~~612~~ FG		
d. Contact cooling water		~~10000~~ FG		~~612~~		10612
e. Process (From C.8)						
f. Plant & equipment washdown		FG				
g. Boiler blowdown	26,000	~~26000~~				26000
h. Other ( )						
Regeneration waste (C.5)						
Totals (Same as D.2):	~~92000~~ 128,000 FG	~~56000~~ 20,000 FG	4000	612	2500	155112

2. If any of the above points discharge to a watercourse or to a separate storm sewer, complete the following: FG 7/05/06

NPDES Outfall Number					
NPDES Permit Number					

3. Do any of the above sampling points also convey stormwater from your premise ?

☐ Yes ■ No	☐ Yes ■ No	☐ Yes ■ No	☐ Yes ■ No	☐ Yes ■ No

4. Do you pretreat any of the wastes discharged through any of the above points ?

☐ Yes ■ No	~~☐ Yes ■ No~~	☐ Yes ■ No	~~☐ Yes ■ No~~	☐ Yes ■ No

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DIVISION OF ENVIRONMENTAL COMPLIANCE

Company Name: SAINT LOUIS UNIVERSITY HOSPITAL
Premise Address: 1315-1341 S. GRAND
Account Number: 4112195100

SECTION E - WASTEWATER INFORMATION (Continued)

5. Describe the type of wastewater pretreatment you employ prior to each point for which you marked "Yes" in E.4:

Point No.	Pretreatment System Description

6. Does your facility have:
   a. A spill control plan ? ■ Yes ☐ No
   b. A waste minimization plan ? ☐ Yes ■ No
   c. A solvent management plan ? ☐ Yes ■ No
   d. A slug discharge control plan ? ☐ Yes ■ No

7. If any wastewater analyses have been performed on the wastewater discharges from your facility attach copies of the most recent data. Be sure to specify the locations from which the samples were collected. Attach sketches, plans, drawings, etc. as necessary.

8. Priority Pollutant Information: Check one of the four boxes by each listed chemical to indicate whether it is: "Suspected Absent," "Known Absent," "Suspected Present" or "Known Present" ON YOUR PREMISE. Any chemical which is used in your manufacturing or service activity or is generated as a product or as a by-product should be marked "Known Present." Some pollutants are known by other names. Refer to the instruction booklet for those pollutants which have an asterisk (*).

SA = "Suspected Absent" KA = "Known Absent" SP = "Suspected Present" KP = "Known Present"

Item No.	PRIORITY POLLUTANT	SA	KA	SP	KP
1.	asbestos (fibrous)	☐	☐	■	☐
2.	cyanide (total)	☐	☐	☐	☐
3.	antimony (total)	☐	☐	☐	☐
4.	arsenic (total)	☐	☐	☐	☐
5.	beryllium (total)	☐	☐	☐	☐
6.	cadmium (total)	☐	☐	☐	☐
7.	chromium (total)	☐	☐	☐	☐
8.	copper (total)	☐	☐	☐	☐
9.	lead (total)	☐	☐	☐	☐
10.	mercury (total)	☐	☐	■	☐
11.	nickel (total)	☐	☐	☐	☐
12.	selenium (total)	☐	☐	☐	☐
13.	silver (total)	☐	☐	☐	☐
14.	thallium (total)	☐	☐	☐	☐
15.	zinc (total)	☐	☐	☐	☐
16.	acenaphthene	☐	☐	☐	☐
17.	acenaphthylene	☐	☐	☐	☐
18.	acrolein	☐	☐	☐	☐
19.	acrylonitrile	☐	☐	☐	☐
20.	aldrin	☐	☐	☐	☐
21.	anthracene	☐	☐	☐	☐
22.	benzene	☐	☐	☐	☐
23.	benzidine	☐	☐	☐	☐
24.	benzo (a) anthracene *	☐	☐	☐	☐
25.	benzo (a) pyrene	☐	☐	☐	☐
26.	benzo (b) fluoranthene	☐	☐	☐	☐
27.	benzo (g,h,i) perylene *	☐	☐	☐	☐
28.	benzo (k) fluoranthene *	☐	☐	☐	☐
29.	alpha-BHC	☐	☐	☐	☐
30.	beta-BHC	☐	☐	☐	☐
31.	delta-BHC	☐	☐	☐	☐
32.	gamma-BHC *	☐	☐	☐	☐
33.	bis (2-chloroethyl) ether *	☐	☐	☐	☐
34.	bis (2-chloroethoxy) methane *	☐	☐	☐	☐
35.	bis (2-chloroisopropyl) ether *	☐	☐	☐	☐
36.	Reserved				
37.	bis (2-ethylhexyl) phthalate	☐	☐	☐	☐
38.	bromodichloromethane *	☐	☐	☐	☐
39.	bromoform *	☐	☐	☐	☐
40.	bromomethane *	☐	☐	☐	☐
41.	4-bromophenylphenyl ether	☐	☐	☐	☐
42.	butylbenzyl phthalate	☐	☐	☐	☐
43.	carbon tetrachloride *	☐	☐	☐	☐
44.	chlordane	☐	☐	☐	☐
45.	4-chloro-3-methylphenol *	☐	☐	☐	☐
46.	chlorobenzene	☐	☐	☐	☐
47.	chloroethane *	☐	☐	☐	☐
48.	2-chloroethylvinyl ether	☐	☐	☐	☐
49.	chloroform *	☐	☐	☐	■
50.	chloromethane *	☐	☐	☐	☐
51.	2-chloronaphthalene	☐	☐	☐	☐
52.	2-chlorophenol *	☐	☐	☐	☐
53.	4-chlorophenylphenyl ether	☐	☐	☐	☐
54.	chrysene *	☐	☐	☐	☐
55.	4, 4'-DDD *	☐	☐	☐	☐
56.	4, 4'-DDE *	☐	☐	☐	☐
57.	4, 4'-DDT *	☐	☐	☐	☐
58.	dibenzo (a,h) anthracene *	☐	☐	☐	☐
59.	dibromochloromethane	☐	☐	☐	☐
60.	1, 2-dichlorobenzene *	☐	☐	☐	☐
61.	1, 3-dichlorobenzene *	☐	☐	☐	☐
62.	1, 4-dichlorobenzene *	☐	☐	☐	☐
63.	3, 3'-dichlorobenzidine	☐	☐	☐	☐
64.	Reserved				
65.	1, 1-dichloroethane *	☐	☐	☐	☐
66.	1, 2-dichloroethane *	☐	☐	☐	☐
67.	1, 1-dichloroethene *	☐	☐	☐	☐
68.	trans-1, 2-dichloroethene *	☐	☐	☐	☐
69.	2, 4-dichlorophenol	☐	☐	☐	☐
70.	1, 2-dichloropropane *	☐	☐	☐	☐

Continued on next page

Company Name: SAINT LOUIS UNIVERSITY HOSPITAL
Premise Address: 1315-1341 S. GRAND
Account Number: 4112195100

SECTION E - WASTEWATER INFORMATION (Continued)

Priority Pollutant Information (Continued)

SA = "Suspected Absent" KA = "Known Absent" SP = "Suspected Present" KP = "Known Present"

Item No.	PRIORITY POLLUTANT	SA	KA	SP	KP	Item No.	PRIORITY POLLUTANT	SA	KA	SP	KP
71.	(cis & trans) 1, 3-dichloropropene *	☐	☐	☐	☐	100.	naphthalene	☐	☐	■	☐
72.	dieldrin	☐	☐	☐	☐	101.	nitrobenzene	☐	☐	☐	☐
73.	diethylphthalate *	☐	☐	☐	☐	102.	2-nitrophenol	☐	☐	☐	☐
74.	2, 4-dimethylphenol *	☐	☐	☐	☐	103.	4-nitrophenol *	☐	☐	☐	☐
75.	dimethyl phthalate	☐	☐	☐	☐	104.	N-nitrosodimethylamine *	☐	☐	☐	☐
76.	di-n-butyl phthalate	☐	☐	☐	☐	105.	N-nitrosodi-n-propylamine *	☐	☐	☐	☐
77.	di-n-octyl phthalate *	☐	☐	☐	☐	106.	N-nitrosodiphenylamine	☐	☐	☐	☐
78.	4, 6-dinitro-2-methylphenol *	☐	☐	☐	☐	107.	PCB-1016 *	☐	☐	☐	☐
79.	2, 4-dinitrophenol	☐	☐	☐	☐	108.	PCB-1221 *	☐	☐	☐	☐
80.	2, 4-dinitrotoluene	☐	☐	☐	☐	109.	PCB-1232 *	☐	☐	☐	☐
81.	2, 6-dinitrotoluene	☐	☐	☐	☐	110.	PCB-1242 *	☐	☐	☐	☐
82.	1, 2-diphenylhydrazine *	☐	☐	☐	☐	111.	PCB-1248 *	☐	☐	☐	☐
83.	endosulfan I *	☐	☐	☐	☐	112.	PCB-1254 *	☐	☐	☐	☐
84.	endosulfan II *	☐	☐	☐	☐	113.	PCB-1260 *	☐	☐	☐	☐
85.	endosulfan sulfate	☐	☐	☐	☐	114.	pentachlorophenol	☐	☐	☐	☐
86.	endrin	☐	☐	☐	☐	115.	phenanthrene	☐	☐	☐	■
87.	endrin aldehyde	☐	☐	☐	☐	116.	phenol	☐	☐	■	☐
88.	ethylbenzene	☐	☐	☐	☐	117.	pyrene	☐	☐	☐	☐
89.	fluoranthene	☐	☐	☐	☐	118.	2, 3, 7, 8-tetrachlorodibenzo-p-dioxin *	☐	☐	☐	☐
90.	fluorene *	☐	☐	☐	☐	119.	1, 1, 2, 2-tetrachloroethane *	☐	☐	☐	☐
91.	heptachlor	☐	☐	☐	☐	120.	tetrachloroethene *	☐	☐	☐	☐
92.	heptachlor epoxide	☐	☐	☐	☐	121.	toluene *	☐	☐	☐	☐
93.	hexachlorobenzene *	☐	☐	☐	☐	122.	toxaphene	☐	☐	☐	☐
94.	hexachlorobutadiene	☐	☐	☐	☐	123.	1, 2, 4-trichlorobenzene	☐	☐	☐	☐
95.	hexachlorocyclopentadiene *	☐	☐	☐	☐	124.	1, 1, 1-trichloroethane *	☐	☐	☐	☐
96.	hexachloroethane *	☐	☐	☐	☐	125.	1, 1, 2-trichloroethane *	☐	☐	☐	☐
97.	indeno (1, 2, 3-cd) pyrene *	☐	☐	☐	☐	126.	trichloroethene *	☐	☐	☐	☐
98.	isophorone *	☐	☐	☐	☐	127.	Reserved				
99.	methylene chloride *	☐	☐	☐	■	128.	2, 4, 6-trichlorophenol	☐	☐	☐	☐
						129.	vinyl chloride *	☐	☐	☐	☐

9. For priority pollutants in E.8, which are indicated "Known Present," list and provide the following information for each: (Attach additional sheets, if needed.)

ITEM No.	PRIORITY POLLUTANT	HOW USED	ANNUAL USAGE (lbs)	LOSS TO SEWER (lbs)
	SEE ATTACHED FORMS			

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Company Name: SAINT LOUIS UNIVERSITY HOSPITAL
Premise Address: 1315-1341 S. GRAND
Account Number: 4119195100

SECTION F - NON-SEWERED WASTES

1. Do you generate any liquid wastes or sludges which are not disposed in the sewer system? ▯ Yes ▯ No
If "Yes" complete items 2 and 3 below. Note: Be sure to include wastewaters listed in Section C.7.c.
If "No" skip remainder of this section.

2. Information on non-sewered waste:

Type of Waste	Estimated Quantity Disposed/yr	Units	Store On-site	Dispose On-site	Dispose Off-site
▯ Acids and/or Alkalies			▯	▯	▯
▯ Equipment Oils and/or Grease			▯	▯	▯
▯ Infectious Waste	720,000	LBS	▯	▯	■
▯ Inks/ Dyes			▯	▯	▯
▯ Kitchen/Food Service Grease	3500	GAL	▯	▯	■
▯ Organic Compounds			▯	▯	▯
▯ Paints or Paint Sludges			▯	▯	▯
▯ Pesticides			▯	▯	▯
▯ Pretreatment Sludges			▯	▯	▯
▯ Radioactive Waste			▯	▯	▯
▯ Solvents/Thinners			▯	▯	▯
▯ Other			▯	▯	▯
			▯	▯	▯
			▯	▯	▯

3. List your USEPA and/or MDNR Hazardous Waste generator numbers:
USEPA _____ MDNR _____

SECTION G - INDUSTRIAL WASTE SURCHARGE INFORMATION

1. Provide the following analytical information for each sampling point or each connection to the public sewer only if your water usage exceeds 80 Ccf per month. Representative samples of the wastewater in each sewer must be collected and analyzed for the listed parameters. Report the daily average concentrations in mg/l for each point.

Parameter	Sewer Reference Numbers (Refer to Section D.2) If more than 5, attach additional sheets				
	1	2	3	4	5
Total Solids					
Total Suspended Solids					
Biochemical Oxygen Demand (5 day)					
Chemical Oxygen Demand					
Flow (GPD)					
Date Sampled					
Time Sampled					
Type of Sample					
Collected By (Name of organization):	METROPOLITAN MANUFACTURERS ASSOC				
Analyzed By (Name of organization):					

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ENVIRONMENTAL COMPLIANCE

Company Name: SAINT LOUIS UNIVERSITY HOSPITAL
Premise Address: 1315-1341 S GRAND
Account Number: 4112195103

SECTION H - CERTIFICATION AND SIGNATURE

1. The following individual may be contacted regarding the information contained in this questionnaire:

   Name and Title of Contact person: TIMOTHY HILL

   DIRECTOR OF BUILDING SERVICES Tel. No.: (314) 577-8070

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

   Name and Title of Signing Official: TIMOTHY HILL

   DIRECTOR OF BUILDING SERVICES Tel. No.: (314) 577-8070

   Signature: Timothy Hill Date: 6/29/06

List attachments included with this questionnaire:

NOTIFICATION PURSUANT TO 40 CFR 403.12(01)
SAMPLING MAP
MONITORING REPORT

RECEIVED
JUL 03 2006
DIVISION OF ENVIRONMENTAL CONTROL

NOTIFICATION PURSUANT TO 40 CFR 403.12(p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

Anatomic Path

PART A: FACILITY NAME Saint Louis Univ. Hospital
FACILITY ADDRESS 3635 Vista
CONTACT PERSON Sharon Jackson PHONE 577-8782
TITLE OF CONTACT PERSON Lab Manager

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	Alcohol, 70%		Cont/batch	640.8 L
2.	Alcohol, 80%		Cont/batch	640.8 L
3.	Alcohol, 95%		Cont/batch	900 L
4.	Alcohol, 100%		Cont/batch	1,476 L
5.	.5% HCl in 70% Alcohol		Cont	43.2 L
6.	Hematoxylin		Cont	21.6 L
	Eosin		Cont	21.6 L

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
1.	Alcohol 70	53.4 L		640.8 L
	Alcohol 80	53.4 L		640.8 L
2.	Alcohol 95	75 L		900 L
	Alcohol 100	123 L		1,476 L
3.	Acid Alcohol			
	.5% HCL in 70% Alcohol	3.6 L		43.2 L
4.	Hematoxylin	1.8 L		21.6 L
	Eosin	1.8 L		21.6 L
5.				
6.				

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

RECEIVED
JUL 0 3 2006
DIVISION OF ENVIRONMENTAL COMPLIANCE

reviewed 6-26-01 Sharon Jackson

PRINTED NAME Sharon Jackson SIGNATURE Sharon Jackson
TITLE Lab Manager DATE 7/14/9

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

reviewed with A/P supervisor Cherie McCurdy Pamela Hunt 6/27/06

DEC100PM

MSD 038538

Anatomic Path

NOTIFICATION PURSUANT TO 40 CFR 403.12(p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME Saint Louis Univ Hospital
FACILITY ADDRESS 3635 Vista
CONTACT PERSON Sharon Jackson PHONE 577-8782
TITLE OF CONTACT PERSON Lab Manager

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	Alcohol		cont/batch	5720 Liters
2.	.5% HCL & 70% Alcohol		" "	260 Liters
3.	EA-50 stain		" "	260 Liters
4.	OG-6 stain		" "	260 Liters
5.	Gill stain		" "	260 Liters
6.				

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
	Alcohol	10,812 ml	95%	5720 Liters
2.	.5% HCL & 70% Alcohol	10,500 ml	70%	260 Liters
3.	EA-50 stain	10,500 ml	70%	260 Liters
4.	OG-6 stain	10,500 ml	70%	260 Liters
5.	Gill stain	10,500 ml	70%	260 Liters
6.				

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

RECEIVED
JUL 03 2008
DIVISION OF ENVIRONMENTAL COMPLIANCE

reviewed 6-26-01 Sharon Jackson

PRINTED NAME Sharon Jackson SIGNATURE Sharon Jackson
TITLE Lab Manager DATE 7/14/97

reviewed with A/P Supervisor Cherie McCurdy Pamela Hunt 6/27/0

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

MSD 038539

Chemistry

NOTIFICATION PURSUANT TO 40 CFR 403.12(p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME St.Louis University Hospital
FACILITY ADDRESS 3635 Vista @ Grand
CONTACT PERSON Judi Behrle PHONE 577-8385
TITLE OF CONTACT PERSON Manager(Core Lab)

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	PHOSPHORUS REAGENT MOLYBDATE COMPT. (B)	P115	CONT	0.02
2.	UREA REAGENT COMPARTMENT (A)	P105	CONT	0.003
3.	UREA REAGENT - COMPARTMENT (B)	U359	CONT	180 lb
4.	PUTI PHOTOMETER TEST	U217	OTHER MAINTENANCE	5 lb
5.	PUTI ACETATE BUFFER	U240	OTHER MAINTENANCE	2 lb
6.				

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
1.	SULFURIC ACID	0.002	<1%	0.02
2.	SODIUM AZIDE <0.1%	0.0015	<1%	0.003
3.	ETHYLENE GLYCOL 90%	15	<1%	180 lb
4.	SODIUM NITRATE SOLUTION (NITRIC ACID)	0.4	<1%	1.2 lb
5.	ACETIC ACID	0.2	<1%	1.2 lb
6.				

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree that I have determined to be economically practical.

RECEIVED
JUL 03 2006
DIVISION OF ENVIRONMENTAL COMPLIANCE

Reviewed 6-22-01

PRINTED NAME Judi Behrle SIGNATURE
TITLE Manager Core Lab DATE 7-15-97

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

Chemistry

NOTIFICATION PURSUANT TO 40 CFR 403.12(p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

RT A: FACILITY NAME St.Louis University Hospital
FACILITY ADDRESS 3635 Vista @ Grand
CONTACT PERSON Judi Behrle PHONE 577-8385
TITLE OF CONTACT PERSON Manager(Core Lab)

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	CREATININE REAGENT ALKALINE REAGENT (A)	U031	CONT	0.01
2.	TRIGLYCERIDE REAGENT A	P105	CONT	0.002
3.	TRIGLYCERIDE REAGENT B	P105	CONT	0.0001
4.	TRIGLYCERIDE REAGENT C	P105	CONT	0.0001
5.	CHOLESTEROL REAGENT	F027	CONT	0.02
.	PHOSPHORUS REAGENT ACID REAGENT (A) COMPONENT	P115	CONT.	0.02

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
	N-BUTYL ALCOHOL 1%	0.0008	<1%	0.0016
2.	SODIUM AZIDE 0.1%	0.00002	<1%	0.0002
3.	SODIUM AZIDE 0.1%	0.00001	<1%	0.001
4.	SODIUM AZIDE 0.1%	0.00001	<1%	0.0001
5.	PHENOL 0.1%	0.002	<1%	0.02
6.	SULFURIC ACID 3.1%	0.0002	<1%	0.03

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

Reviewed 6-22-98 Judi Behrle

RECEIVED JUL 03 2006 DIVISION OF ENVIRONMENTAL POLICING

PRINTED NAME Judi Behrle SIGNATURE
TITLE Manager Core Lab DATE 7-15-97

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

Chemistry

CONTACT PERSON Judi Behrle PHONE 577-8385
TITLE OF CONTACT PERSON Manager (Core Lab)

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	CO2 ACID REAGENT	P105	CONT	124 lb
2.	ELECTROLYTE BUFFER	U145	CONT	172 lb
3.	BILIRUBIN CALIBRATOR	U359	CONT	0.001 lb
4.	ALT REAGENT A	P105	CONT	0.019 lb
5.	ALT REAGENT B	U359	CONT	0.000057 lb
6.	GAMMA-GT REAGENT (B)	U359	CONT	0.00078 lb

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
1.	SULFURIC ACID 3-4%	10.3 lb	<0.01%	124
2.	PHOSPHORIC ACID 5%	0.72 lb	<0.07%	8.6
3.	ETHYLENE GLYCOL 33%	0.001	<0.0001%	0.012
4.	ALT REAGENT A SODIUM AZIDE	0.0014	<0.0001%	0.017
5.	SODIUM AZIDE	0.00005	<0.0001%	0.00057
6.	ETHYLENE GLYCOL 100%	0.00006	<0.0001%	0.00078 lb

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

RECEIVED
JUL 03 2006
DIVISION OF ENVIR

Reviewed 6-22-01

PRINTED NAME Judi Behrle SIGNATURE Judi Behrle
TITLE Manager Core Lab DATE 7-15-97

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

Hematology

NOTIFICATION PURSUANT TO 40 CFR 403.12(p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME St. Louis University Hospital
FACILITY ADDRESS 3635 Vista at Grand Blvd., St. Louis, Mo 63110-0250
CONTACT PERSON Judi Behrle PHONE 314-577-8385
TITLE OF CONTACT PERSON Core Lab Manager

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	Methanol	U154	12 oz once/day	285 lbs
2.	Methanol	U154	32 oz/week	108 lbs
3.	Wescor SS-148 Aerofix Additive	*	Cont	
4.	Wescor SS-048 Reagent D	*	Cont	108 lbs
5.	Basofix Pre-Dip Stain SS-049P (Wescor)	*	Cont	
6.	Auramine-O	U014	Cont	No longer in use

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
2.				
* 3.	Ethylene Glycol (107-21-1)		50 TLV	
	Methanol (67-56-1) U154		200 TLV	
* 4.	Methanol (67-56-1) U154	8.34 lbs	200 TLV	
				108 lbs
* 5.	Methanol (67-56-1) U154		200 TLV	
6.	Auramine-O			
	Ethylene Glycol (107-21-1)		50 TLV	

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

RECEIVED
JUL 03 2006
DIVISION OF ENVIRONMENTAL COMPLIANCE

PRINTED NAME Judith Behrle SIGNATURE Judith Behrle
TITLE Core Laboratory Manager DATE 7-9-97

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

reviewed with Hematology supervisor David Chung - Pamela Hunt 6/27/06

DEC100PM

MSD 038543

~~Hematology~~ Anatomic path

NOTIFICATION PURSUANT TO 40 CFR 403.12(p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

T A: FACILITY NAME St.Louis University Hospital
FACILITY ADDRESS 3635 Vista @ Grand
CONTACT PERSON Judi Behrle PHONE 577-8385
TITLE OF CONTACT PERSON Manager(Core Lab)

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	SODIUM NITRATE SOLUTION	U217	OTHER MAINTAINANCE	3120 L
2.	ACETATE BUFFER U214	U217	OTHER MAINTENANCE	3000 L
3.	EOSIN Y SOLUTION	U214	OTHER MAINTENANCE	490 L
4.				
5.				
6.				

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
	SODIUM NITRATE 5%	2.6		31.2 L
	BORIC ACID <1%	2.6	<1%	31.2 L
	ACETIC ACID <1%	2.6	<1%	31.2 L
	SODIUM HYDROXIDE <1%	2.6	<1%	31.2 L
2.	BORIC ACID <1%	2.5	<1%	30 L
	ACETIC ACID <1%	2.5	<1%	30 L
	SODIUM HYDROXIDE <1%	2.5	<1%	30 L
3	BORIC ACID	2.0	<1%	30 L

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

reviewed 6-22-01 Judi Behrle

PRINTED NAME Judi Behrle SIGNATURE
TITLE Manager Core Lab DATE 7-15-97

6/28/06 reviewed with supervisor Pamela Irene McCurdy Hunt

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

Hematology

NOTIFICATION PURSUANT TO 40 CFR 403.12(p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME ST. LOUIS UNIVERSITY HOSP.
FACILITY ADDRESS 3635 VISTA at Grand St. Louis MO 63110
CONTACT PERSON Judi Behle PHONE 314 577-8385
TITLE OF CONTACT PERSON Core Lab Manager

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	Hemostain (Geometric Data) =	U154	Cont.	312 lbs.
2.	Hemostain Wright Stain			
3.				
4.				
5.				
6.				

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
	Methanol (67-56-1)	26 lbs	99.84%	312 lbs
	Wright Stain (68988-92-1)		0.16%	
2.				
3.				
4.				
5.				
6.				

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

RECEIVED
JUL 03 2006
DIVISION OF ENVIRONMENTAL COMPLIANCE

PRINTED NAME Judith Behle SIGNATURE Judith Behle
TITLE Core Lab Manager DATE 6-22-01

6/26/06 reviewed with Hemat. supervisor Pamela Hunt

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

David Chung

MSD 038545

NOTIFICATION PURSUANT TO 40 CFR 403.12(p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME St. Louis University Hospital - (Blood BANK)
FACILITY ADDRESS
CONTACT PERSON Kim Martin PHONE
TITLE OF CONTACT PERSON MANAGER

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1. (0.1 PPM) Sodium Azide (Hydrazoic Acid Sodium Salt)			<1
2.			
3.			
4.			
5.			
6.			

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
Sodium Azide	<1	0.1	<1
2.			
3.			
4.			
5.			
6.			

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

RECEIVED JUL 13 1998 DIVISION OF ENVIRONMENTAL COMPLIANCE

Reviewed 6-26-01 Sharon Jackson

PRINTED NAME Timothy L. Kilcoyne SIGNATURE
TITLE Supervisor DATE 7-8-97

reviewed with BB supervisor Stephanie Godina Pamela Hunt 6/26/01

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

NOTIFICATION PURSUANT TO 40 CFR 403.12(p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME Saint Louis University Hospital - Special Testing Laboratory
FACILITY ADDRESS 3635 Vista at Grand St Louis, MO 63110
CONTACT PERSON Ellen Sheahan PHONE 577-8392
TITLE OF CONTACT PERSON Manager - Special Testing Laboratory

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	Acetic Acid		Batch	35 LBS
2.	Methanol		Batch	13 lbs
3.				
4.				
5.				
6.				

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
	Acetic Acid	2.9 lbs		35 lbs
2.	Methanol	1.08 lbs		13 lbs.
3.				
4.				
5.				
6.				

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

RECEIVED JUL 3 2006 DIVISION OF ENVIRONMENTAL COMPLIANCE

revised 6-26-01 E.S.

PRINTED NAME Ellen Sheahan SIGNATURE Ellen Sheahan
TITLE Manager - Special Testing Lab DATE 7-11-97

reviewed with Spec. Testing Labsupervisor Pamela Hunt 6/26/06

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

FOR MSD USE ONLY	
ACCOUNT NUMBER: 4112951-00	CATEGORY: 1 2 3 (4) 5 6 (9)
TA: MO	
TS: F.M.	FG Reviewer's Initials 7/11/01 Date

METROPOLITAN ST. LOUIS SEWER DISTRICT
DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL USER QUESTIONNAIRE

Note to Signing Official: In accordance with Title 40 of the Code of Federal Regulations Part 403 Section 403.14, information and data provided in this questionnaire which identifies the nature and frequency of discharge shall be available to the public without restriction. Requests for confidential treatment of other information shall be governed by procedures specified in 40 CFR Part 2. Should a discharge permit be required for your facility, the information in this questionnaire will be used to issue the permit.

SECTION A - GENERAL INFORMATION

1. Company Name: St. Louis University Hospital
2. Mailing Address: 3635 Vista at Grand Blvd.
   P.O. Box 15250 Zip Code 63110-0250
3. Premise Address: 1315-1341 S. Grand Blvd.
   Zip Code 63104
4. Person Authorized to Sign Reporting Documents:
   Name and Title: Phillip Van Cleave
   Director of Building Services Tel No (314) 577-8072
5. Check one: ■ Existing Discharge
   [] Proposed Discharge If proposed, indicate discharge start date: _____
6. Shift Information:
   a. Number of shifts per work day: 3 and work days per week: 7
   b. Average number of employees per shift: 1st 1784 2nd 596 3rd 595 Total: 2974
   c. Shift start times: 1st 7:00 Am 2nd 3:00 pm 3rd 11:00 pm

SECTION B - PRODUCT OR SERVICE INFORMATION

1. Briefly describe the primary manufacturing or service activities at the premise address and list the applicable SIC number for each activity:

	PRIMARY ACTIVITIES	SIC NUMBER
a.	Acute Care - Level 1 Trauma Center	
b.		
c.		
d.		

RECEIVED JUL 9 2001 OFFICE OF ENVIRONMENTAL COMPLIANCE

SEE REVISED pg 1 REC'D 6/24/02 JEG

FOR MSD USE ONLY	
Account Number: 4112 1951-00	Category: SIU CIU SUR HIFL NOTXWST TXWST NOPRFL MULTI
TA: BISSELL	
TS: Old Mill Creek JEB Reviewer	6/25/02 Date

METROPOLITAN ST. LOUIS SEWER DISTRICT
OFFICE OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL USER QUESTIONNAIRE

Note to Signing Official: In accordance with Title 40 of the Code of Federal Regulations Part 403, Section 403.14, information and data provided in this questionnaire, which identifies the nature and frequency of discharge, shall be available to the public without restriction. Requests for confidential treatment of other information shall be governed by procedures specified in 40 CFR Part 2. Should a discharge permit be required for your facility, the information in this questionnaire will be used to develop the permit.

SECTION A - GENERAL INFORMATION

1. Company Name: ST. LOUIS UNIVERSITY HOSPITAL
2. Mailing Address: 3635 VISTA AT GRAND BLVD.
   P.O. BOX 15250 Zip Code: 63110
3. Premise Address: 1315-1341 S. GRAND BLVD
   Zip Code:
4. Person Authorized to Sign Reporting Documents:
   Name and Title: Phillip VAN CLEAVE
   DIRECTOR OF BUILDING SERVICES Tel. No.: (314) 577-8072
5. Check One: ■ Existing Discharge
   [] Proposed Discharge If proposed, indicate discharge start date:
6. Shift Information:
   a. Number of shifts per work day: 3 and work days per week: 7
   b. Average number of employees per shift: 1st 1884 2nd 616 3rd 615 Total: 3115
   c. Shift start times: 1st 7A 2nd 3p 3rd 11p

SECTION B - PRODUCT OR SERVICE INFORMATION

1. Briefly describe the primary manufacturing or service activities at the premise address and list the applicable SIC number for each activity:

	PRIMARY ACTIVITY	SIC NUMBER
a.	MAIN HOSPITAL: ACUTE CARE - LEVEL 1 TRAUMA CENTER	
(*) b.	WEST PAVILION: ACUTE CARE PSYCH, OFFICES, RESEARCH	
c.		
d.		

(*) FORMERLY BETHESDA HOSPITAL

RECEIVED JUN 24 2002 OFFICE OF ENVIRONMENTAL COMPLIANCE

REVISED PG 1 REC'D 6/24/02 JEB

MSD 038549

Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S. Grand
Account Number: 4112 195100

SECTION B - PRODUCT OR SERVICE INFORMATION (Cont'd)

2. Are primary activities generally batch or continuous processes? [] batch ■ continuous
3. Principal raw materials used: N/A
4. Principal products produced: N/A
5. Check all activities which are conducted at your premise in addition to the primary activities described in B.1 above. Indicate the SIC number, if known. Do not check activities which are already included in B.1.

	SIC NO.		SIC NO.
[] Adhesive & Sealants Mfg.		[] Mineral Mining & Processing	
[] Aluminum Forming		[] Nonferrous Metals Forming	
[] Asbestos Mfg.		[] Nonferrous Metals Mfg	
[] Battery Mfg.		[] Organic Chem., Plastics & Synthetic Fibers Mfg	
[] Builder's Paper and Roofing Felt Mfg.		[] Paint Formulating	
[] Carbon Black Mfg.		[] Painting, Finishing or Paint Stripping	
[] Cement Mfg.		[] Parts Washing	
[] Coil Coating		[] Paving and Roofing Materials	
[] Copper Forming		[] Pesticide Chem. Mfg., Formulating, Packaging	
[] Dairy Products Processing		[] Petroleum Refining	
[] Drum Reconditioning		[] Pharmaceutical Mfg	
[] Electrical and Electronic Components		[] Phosphate Mfg	
[] Electroplating		■ Photographic Processing	
[] Explosive Mfg.		[] Plastic Molding and Forming	
[] Feedlots		[] Porcelain Enameling	
[] Ferroalloy Mfg.		[] Printing & Publishing	
[] Fertilizer Mfg.		[] Pulp, Paper & Paperboard Mfg	
■ Food Preparation		[] Q. C. Laboratory	
[] Fruits and Vegetable Processing		■ R & D Laboratory	
[] General Offices		[] Radioactive Materials Processing	
[] Glass Mfg.		[] Repair Shop, Garage	
[] Grain Milling		[] Rubber & Rubber Prod. Mfg.	
[] Gum & Wood Chemical Mfg.		[] Seafood Processing	
[] Hazardous Waste Treatment, Storage or Disposal		[] Soap and Detergent Mfg.	
■ Health Care & Hospital		[] Solvent Recycling	
[] Industrial Laundry		[] Steam Electric Power Generation	
[] Ink Formulating		[] Sugar Processing	
[] Inorganic Chemicals Mfg.		[] Textile Mills	
[] Iron and Steel Mfg.		[] Timber Products Mfg.	
[] Leather Tanning and Finishing		[] Transportation Equipment Cleaning	
[] Machine Shop		[] Transportation Services	
[] Machinery Mfg. or Rebuilding		[] Used Oil Reclamation	
[] Meat Processing		[] Vehicle/equipment Washing	
[] Metal Finishing		[] Warehousing	
[] Metal Molding and Casting		[] Waste Recycling	
		[] Others _____	

6. Are your processes subject to seasonal variation? [] Yes ■ No
If "Yes," explain and indicate the month(s) of peak activity.

RECEIVED
JUL 9 2001
OFFICE OF ENVIRONMENTAL COMPLIANCE

Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION C - WATER CONSUMPTION AND WASTEWATER DISCHARGES

1. Raw Water Source(s):
   - [x] City of St. Louis Water Div.
   - [ ] St. Louis County Water Co.
   - [ ] Other municipal source _____
   - [ ] Hauled by contractor
   - [ ] Surface water
   - [ ] Private well
   - [ ] Other (describe) _____

2. Water Bill Addressee: St. Louis University Hospital 3635 Vista at Grand PO Box 15250

3. Water Service Account Numbers: 405129-226358 and 405123-226354

4. List past twelve months water usage from:

																[x] Water Bills		[ ] Other Sources
1st 3 mo period	4/21/00	Mo	7/21/00	Yr	through		Mo		Yr							~~[illegible]~~	Ccf	28,140 Ccf
2nd 3 mo period	7	Mo	00	Yr	through	10	Mo	00	Yr							~~[illegible]~~	Ccf	28,500 Ccf
3rd 3 mo period	10	Mo	00	Yr	through	1	Mo	01	Yr							~~[illegible]~~	Ccf	19,960 Ccf
4th 3 mo period	1	Mo	01	Yr	through	4	Mo	01	Yr							~~[illegible]~~	Ccf	20,170 Ccf

5. Describe any treatment or conditioning process performed on the raw water before use:
Zeolite Water Softener
Cooling Tower Treatment Entec 234, 368, 367, 338B, 570

6. Identify all water uses within your facility:

Water Uses	Estimated Average Daily Use (Gallons per day)
a. Sanitary	111,212 ~~[illegible]~~
b. Irrigation & lawn watering	200
c. Non-contact cooling water	60,800
d. Contact cooling water	
e. Process water	
f. Plant & equipment washdown	
g. Boiler	26,100
h. Other uses _____	
i. Total of USES (6a through 6h):	~~[illegible]~~ 198,312

7. Identify all water losses and wastewater discharges from your facility:

Water Losses & Discharges	Estimated Average Daily Loss/Discharge (Gallons per Day)
a. Municipal sewer	148,112 ~~[illegible]~~
b. Watercourse, storm drain, ground	200
c. Haulers	
d. Evaporation	50,000
e. Contained in product	
f. Total of LOSSES & DISCHARGES: (7a through 7e must equal total at 6i)	198,312

8. For each activity you listed in Sections B.1 and B.5, list the average water usage and average wastewater discharge. Attach additional sheets, if needed.

Item No.	Activity	Type of Discharge: Cont	Batch	None	Avg. Water Use (GPD)	Avg. Discharge to Mun Sewer (GPD)	Date when activity first commenced at this facility
1	Acute Patient Care	[x]	[ ]	[ ]	111,212 ~~[illegible]~~	111,212 ~~[illegible]~~	
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			

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See Revised pg 3
Rec'd 6/24/02 [illegible]

MSD 038551

Company Name: St Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd
Account Number: 4112195100

SECTION C - WATER CONSUMPTION AND WASTEWATER DISCHARGES

1. Raw Water Source(s):
   - [x] City of St. Louis Water Div.
   - [ ] St. Louis County Water Co.
   - [ ] Other municipal source _____
   - [ ] Hauled by contractor
   - [ ] Surface water
   - [ ] Private well
   - [ ] Other (describe) _____

2. Water Bill Addressee: 3635 Vista at Grand, PO Box 15250 63110

3. Water Service Account Numbers: 405129, 405123, (2 hospital accts) 686448 (West Pavilion)

4. List past twelve months water usage from:

								Water Bills	Other Sources
1st 3 mo period	4	Mo	01	Yr	through	7	Mo	01 Yr	32,901 Ccf	Ccf
2nd 3 mo period	7	Mo	01	Yr	through	10	Mo	01 Yr	31,193 Ccf	Ccf
3rd 3 mo period	10	Mo	01	Yr	through	1	Mo	02 Yr	20,844 Ccf	Ccf
4th 3 mo period	1	Mo	02	Yr	through	4	Mo	02 Yr	18,460 Ccf	Ccf

5. Describe any treatment or conditioning process performed on the raw water before use:
Zeolite Water Softener; Cooling Tower Treatment (Nalco Chemicals)

6. Identify all water uses within your facility:

Water Uses	Estimated Average Daily Use (Gallons per day)
a. Sanitary	120,491
b. Irrigation & lawn watering	300
c. Non-contact cooling water	63,574
d. Contact cooling water	
e. Process water	
f. Plant & equipment washdown	
g. Boiler	27,549
h. Other uses _____	
i. Total of USES (6a through 6h):	211,914

7. Identify all water losses and wastewater discharges from your facility:

Water Losses & Discharges	Estimated Average Daily Loss/Discharge (Gallons per Day)
a. Municipal sewer	158,936
b. Watercourse, storm drain, ground	300
c. Haulers	
d. Evaporation	52,678
e. Contained in product	
f. Total of LOSSES & DISCHARGES: (7a through 7e must equal total at 6i)	211,914

8. For each activity you listed in Sections B.1 and B.5, list the average water usage and average wastewater discharge. Attach additional sheets, if needed.

Item No.	Activity	Type of Discharge: Cont	Batch	None	Avg. Water Use (GPD)	Avg. Discharge to Mun Sewer (GPD)	Date when activity first commenced at this facility
1	Acute Patient Care	[x]	[ ]	[ ]	112,057	112,057	
2	Mixed Use	[x]	[ ]	[ ]	8434	8434	1/01
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			

Revised pg 3 Rec'd 6/24/02

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Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd
Account Number: 4112195100

SECTION D - SEWER CONNECTION INFORMATION

1. Attach a scale drawing of your premise, which shows:
   a. All buildings, structures, alleys, streets and other pertinent features.
   b. All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
   c. A sampling point for each connection to the public sewer.
   d. A sampling point for each discharge from a federally regulated categorical process.
   e. A sampling point for each discharge to a separate storm sewer or watercourse.

2. List each sampling point identified in 1.c, d and e above and each connection for which there is no sampling point. Assign a sequential reference number to each location, starting with No. 1. Attach additional sheets, if needed.

Reference Number	Sewer Size (Inches)	Description of sewer sampling point or connection (Vent, manhole, valve, tank or other appurtenance. Indicate size and location)	Total Daily Average Flow (GPD)
1	15	Manhole in driveway west of loading dock	91,706
2	15	Manhole on Vista 15' West of sidewalk	55,606
3		36' South of island at main entrance	
4			
5			

SECTION E - WASTEWATER INFORMATION

1. For each point listed in D.2 above, list the wastewater discharge corresponding to each water usage listed in Section C.6. Attach additional sheets, if needed.

Type of Wastewater	Discharge Quantity (GPD) for each sampling point or connection listed in D.2					Facility Total (See instr.)
	1	2	3	4	5	
a. Sanitary	55,606	55,606				~~[illegible]~~
b. Irrigation & lawn watering						111,212
c. Non-contact cooling water	10,000					10,000
d. Contact cooling water						
e. Process (From C.8)						
f. Plant & equipment washdown						
g. Boiler blowdown	26,100					26,100
h. Other ( )						
Regeneration waste (C.5)						
Totals (Same as D.2):	91,706	55,606				147,312

2. If any of the above points discharge to a watercourse or to a separate storm sewer, complete the following:
   NPDES Outfall Number
   NPDES Permit Number

3. Do any of the above sampling points also convey stormwater from your premise ?
   ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No

4. Do you pretreat any of the wastes discharged through any of the above points ?
   ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No

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SEE REVISED PG 4 REC'D 6/24/02

MSD 038553

Company Name: St Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd
Account Number: 4112195100

SECTION D - SEWER CONNECTION INFORMATION

1. Attach a scale drawing of your premise, which shows:
   a. All buildings, structures, alleys, streets and other pertinent features.
   b. All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
   c. A sampling point for each connection to the public sewer.
   d. A sampling point for each discharge from a federally regulated categorical process.
   e. A sampling point for each discharge to a separate storm sewer or watercourse.

2. List each sampling point identified in 1.c, d and e above and each connection for which there is no sampling point. Assign a sequential reference number to each location, starting with No. 1. Attach additional sheets, if needed.

Reference Number	Sewer Size (inches)	Description of sewer sampling point or connection (Vent, manhole, valve, tank or other appurtenance. Indicate size and location)	Total Daily Average Flow (GPD)
1	15	Manhole in lot West of loading dock	92,000
2	15	Manhole on Vista, in front of Entrance	56,000
3	15	Manhole on Vista, SW of Entrance	5,000
4	15	In underground area, old Boiler Room	936
5	15	Manhole West of North end of building	5,000

SECTION E - WASTEWATER INFORMATION

1. For each point listed in D.2 above, list the wastewater discharge corresponding to each water usage listed in Section C.6. Attach additional sheets, if needed.

Type of Wastewater	Discharge Quantity (GPD) for each sampling point or connection listed in D.2					Facility Total (See instr.)
	1	2	3	4	5	
a. Sanitary	92,000	20,000	5,000		5,000	122,000
b. Irrigation & lawn watering						
c. Non-contact cooling water	10,000			936		
d. Contact cooling water		~~10,000~~		~~936~~		10,936
e. Process (From C.8)						
f. Plant & equipment washdown						
g. Boiler blowdown	26,000	~~26,000~~				26,000
h. Other (_____)						
Regeneration waste (C.5)						
Totals (Same as D.2):	92,000	56,000	5,000	936	5000	158,936

2. If any of the above points discharge to a watercourse or to a separate storm sewer, complete the following:

NPDES Outfall Number					
NPDES Permit Number					

3. Do any of the above sampling points also convey stormwater from your premise ?

[] Yes [■] No	[] Yes [■] No	[] Yes [■] No	[] Yes [■] No	[] Yes [■] No

4. Do you pretreat any of the wastes discharged through any of the above points ?

[] Yes [■] No	[■] Yes [] No	[] Yes [■] No	[■] Yes [] No	[] Yes [■] No

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See Revised Pg 4
Rec'd 6/28/02

Company Name: St Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd
Account Number: 4112195100

SECTION D - SEWER CONNECTION INFORMATION

1. Attach a scale drawing of your premise, which shows:
   a. All buildings, structures, alleys, streets and other pertinent features.
   b. All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
   c. A sampling point for each connection to the public sewer.
   d. A sampling point for each discharge from a federally regulated categorical process.
   e. A sampling point for each discharge to a separate storm sewer or watercourse.

2. List each sampling point identified in 1.c, d and e above and each connection for which there is no sampling point. Assign a sequential reference number to each location, starting with No. 1. Attach additional sheets, if needed.

Reference Number	Sewer Size (Inches)	Description of sewer sampling point or connection (Vent, manhole, valve, tank or other appurtenance. Indicate size and location)	Total Daily Average Flow (GPD)
1	15	Manhole in lot West of Loading Dock	92,000
2	15	Manhole on Vista, in front of Entrance	56,000
3	15	Manhole on Vista, SW of Entrance	5,000
4	15	In underground area, old Boiler Room	936
5	15	Manhole West of North end of building	5,000

SECTION E - WASTEWATER INFORMATION

1. For each point listed in D.2 above, list the wastewater discharge corresponding to each water usage listed in Section C.6. Attach additional sheets, if needed.

Type of Wastewater	Discharge Quantity (GPD) for each sampling point or connection listed in D.2					Facility Total (See instr.)
	1	2	3	4	5	
a. Sanitary	56,000	56,000	5,000		5,000	122,000
b. Irrigation & lawn watering						
c. Non-contact cooling water						
d. Contact cooling water	10,000			936		10,936
e. Process (From C.8)						
f. Plant & equipment washdown						
g. Boiler blowdown	26,000					26,000
h. Other ( )						
Regeneration waste (C.5)						
Totals (Same as D.2):	92,000	56,000	5,000	936	5000	158,936

2. If any of the above points discharge to a watercourse or to a separate storm sewer, complete the following:
   NPDES Outfall Number
   NPDES Permit Number

3. Do any of the above sampling points also convey stormwater from your premise ?
   [ ] Yes [x] No [ ] Yes [x] No [ ] Yes [x] No [ ] Yes [x] No [ ] Yes [x] No

4. Do you pretreat any of the wastes discharged through any of the above points ?
   [ ] Yes [x] No [x] Yes [ ] No [ ] Yes [x] No [x] Yes [ ] No [ ] Yes [x] No

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7/00

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Rec'd 6/28/02 JEB

MSD 038555

Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195190

SECTION E - WASTEWATER INFORMATION (Cont'd)

5. Describe the type of wastewater pretreatment you employ prior to each point for which you marked "Yes" in E.4:

Point No.	Pretreatment System Description

6. Does your facility have:
   a. A spill control plan? ■ Yes [] No
   b. A waste minimization plan? [] Yes ■ No
   c. A solvent management plan? [] Yes ■ No
   d. A slug discharge control plan? [] Yes ■ No

7. If any wastewater analyses have been performed on the wastewater discharges from your facility attach copies of the most recent data. Be sure to specify the locations from which the samples were collected. Attach sketches, plans, drawings, etc. as necessary.

8. Priority Pollutant Information: Check one of the four boxes by each listed chemical to indicate whether it is: "Suspected Absent", "Known Absent", "Suspected Present", or "Known Present" ON YOUR PREMISE. Any chemical which is used in your manufacturing or service activity or is generated as a product or as a by-product should be marked "Known Present". Some pollutants are known by other names. Refer to the instruction booklet for those pollutants which have an asterisk (*). See Attachment.

SA = "Suspected Absent" KA = "Known Absent" SP = "Suspected Present" KP = "Known Present"

ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP
1.	asbestos (fibrous)	[]	[]	[]	[]
2.	cyanide (total)	[]	[]	[]	[]
3.	antimony (total)	[]	[]	[]	[]
4.	arsenic (total)	[]	[]	[]	[]
5.	beryllium (total)	[]	[]	[]	[]
6.	cadmium (total)	[]	[]	[]	[]
7.	chromium (total)	[]	[]	[]	[]
8.	copper (total)	[]	[]	[]	[]
9.	lead (total)	[]	[]	[]	[]
10.	mercury (total)	[]	[]	[]	[]
11.	nickel (total)	[]	[]	[]	[]
12.	selenium (total)	[]	[]	[]	[]
13.	silver (total)	[]	[]	[]	[]
14.	thallium (total)	[]	[]	[]	[]
15.	zinc (total)	[]	[]	[]	[]
16.	acenaphthene	[]	[]	[]	[]
17.	acenaphthylene	[]	[]	[]	[]
18.	acrolein	[]	[]	[]	[]
19.	acrylonitrile	[]	[]	[]	[]
20.	aldrin	[]	[]	[]	[]
21.	anthracene	[]	[]	[]	[]
22.	benzene	[]	[]	[]	[]
23.	benzidine	[]	[]	[]	[]
24.	benzo (a) anthracene *	[]	[]	[]	[]
25.	benzo (a) pyrene	[]	[]	[]	[]
26.	benzo (b) fluoranthene	[]	[]	[]	[]
27.	benzo (g,h,i) perylene *	[]	[]	[]	[]
28.	benzo (k) fluoranthene *	[]	[]	[]	[]
29.	alpha-BHC	[]	[]	[]	[]
30.	beta-BHC	[]	[]	[]	[]
31.	delta-BHC	[]	[]	[]	[]
32.	gamma-BHC *	[]	[]	[]	[]
33.	bis (2-chloroethyl) ether *	[]	[]	[]	[]
34.	bis (2-chloroethoxy) methane *	[]	[]	[]	[]
35.	bis (2-chloroisopropyl) ether *	[]	[]	[]	[]
36.	Reserved				
37.	bis (2-ethylhexyl) phthalate	[]	[]	[]	[]
38.	bromodichloromethane *	[]	[]	[]	[]
39.	bromoform *	[]	[]	[]	[]
40.	bromomethane *	[]	[]	[]	[]
41.	4-bromophenylphenyl ether	[]	[]	[]	[]
42.	butylbenzyl phthalate	[]	[]	[]	[]
43.	carbon tetrachloride *	[]	[]	[]	[]
44.	chlordane	[]	[]	[]	[]
45.	4-chloro-3-methylphenol *	[]	[]	[]	[]
46.	chlorobenzene	[]	[]	[]	[]
47.	chlorethane *	[]	[]	[]	[]
48.	2-chloroethylvinyl ether	[]	[]	[]	[]
49.	chloroform *	[]	[]	[]	■
50.	chloromethane *	[]	[]	[]	[]
51.	2-chloronaphthalene	[]	[]	[]	[]
52.	2-chlorophenol *	[]	[]	[]	[]
53.	4-chlorophenylphenyl ether	[]	[]	[]	[]
54.	chrysene *	[]	[]	[]	[]
55.	4,4'-DDD *	[]	[]	[]	[]
56.	4,4'-DDE *	[]	[]	[]	[]
57.	4,4'-DDT *	[]	[]	[]	[]
58.	dibenzo (a,h) anthracene *	[]	[]	[]	[]
59.	dibromochloromethane *	[]	[]	[]	[]
60.	1,2-dichlorobenzene *	[]	[]	[]	[]
61.	1,3-dichlorobenzene *	[]	[]	[]	[]
62.	1,4-dichlorobenzene *	[]	[]	[]	[]
63.	3,3'-dichlorobenzidine	[]	[]	[]	[]
64.	Reserved				
65.	1,1-dichloroethane *	[]	[]	[]	[]
66.	1,2-dichloroethane *	[]	[]	[]	[]
67.	1,1-dichloroethene *	[]	[]	[]	[]
68.	trans-1,2-dichloroethene *	[]	[]	[]	[]
69.	2,4-dichlorophenol	[]	[]	[]	[]
70.	1,2-dichloropropane *	[]	[]	[]	[]
71.	(cis & trans) 1,3-dichloropropene *	[]	[]	[]	[]
72.	dieldrin	[]	[]	[]	[]
73.	diethylphthalate *	[]	[]	[]	[]
74.	2,4-dimethylphenol *	[]	[]	[]	[]
75.	dimethyl phthalate	[]	[]	[]	[]
76.	di-n-butyl phthalate	[]	[]	[]	[]

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Continued on Page 6

Company Name: St Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd
Account Number: 4112195100

SECTION E - WASTEWATER INFORMATION (Cont'd)

Priority Pollutant Information (Cont'd)

SA = "Suspected Absent" KA = "Known Absent" SP = "Suspected Present" KP = "Known Present"

ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP	ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP
77.	di-n-octyl phthalate *	☐	☐	☐	☐	103.	4-nitrophenol *	☐	☐	☐	☐
78.	4,6-dinitro-2-methylphenol *	☐	☐	☐	☐	104.	N-nitrosodimethylamine *	☐	☐	☐	☐
79.	2,4-dinitrophenol	☐	☐	☐	☐	105.	N-nitrosodi-n-propylamine *	☐	☐	☐	☐
80.	2,4-dinitrotoluene	☐	☐	☐	☐	106.	N-nitrosodiphenylamine	☐	☐	☐	☐
81.	2,6-dinitrotoluene	☐	☐	☐	☐	107.	PCB-1016 *	☐	☐	☐	☐
82.	1,2-diphenylhydrazine *	☐	☐	☐	☐	108.	PCB-1221 *	☐	☐	☐	☐
83.	endosulfan I *	☐	☐	☐	☐	109.	PCB-1232 *	☐	☐	☐	☐
84.	endosulfan II *	☐	☐	☐	☐	110.	PCB-1242 *	☐	☐	☐	☐
85.	endosulfan sulfate	☐	☐	☐	☐	111.	PCB-1248 *	☐	☐	☐	☐
86.	endrin	☐	☐	☐	☐	112.	PCB-1254 *	☐	☐	☐	☐
87.	endrin aldehyde	☐	☐	☐	☐	113.	PCB-1260 *	☐	☐	☐	☐
88.	ethylbenzene	☐	☐	☐	☐	114.	pentachlorophenol	☐	☐	☐	☐
89.	fluoranthene	☐	☐	☐	☐	115.	phenanthrene	☐	☐	☐	■
90.	fluorene *	☐	☐	☐	☐	116.	phenol	☐	☐	☐	☐
91.	heptachlor	☐	☐	☐	☐	117.	pyrene	☐	☐	☐	☐
92.	heptachlor epoxide	☐	☐	☐	☐	118.	2,3,7,8-tetrachlorodibenzo-p-dioxin *	☐	☐	☐	☐
93.	hexachlorobenzene *	☐	☐	☐	☐	119.	1,1,2,2-tetrachloroethane *	☐	☐	☐	☐
94.	hexachlorobutadiene	☐	☐	☐	☐	120.	tetrachloroethene *	☐	☐	☐	☐
95.	hexachlorocyclopentadiene *	☐	☐	☐	☐	121.	toluene *	☐	☐	☐	☐
96.	hexachloroethane *	☐	☐	☐	☐	122.	toxaphene	☐	☐	☐	☐
97.	indeno (1,2,3-cd) pyrene *	☐	☐	☐	☐	123.	1,2,4-trichlorobenzene	☐	☐	☐	☐
98.	isophorone *	☐	☐	☐	☐	124.	1,1,1-trichloroethane *	☐	☐	☐	☐
99.	methylene chloride *	☐	☐	☐	■	125.	1,1,2-trichloroethane *	☐	☐	☐	☐
100.	naphthalene	☐	☐	☐	☐	126.	trichloroethene *	☐	☐	☐	☐
101.	nitrobenzene	☐	☐	☐	☐	127.	Reserved				
102.	2-nitrophenol	☐	☐	☐	☐	128.	2,4,6-trichlorophenol	☐	☐	☐	☐
						129.	vinyl chloride *	☐	☐	☐	☐

9. For priority pollutants in E.8 which are indicated "Known Present," list and provide the following data for each. Attach additional sheets if needed.

ITEM NO.	PRIORITY POLLUTANT	HOW USED	ANNUAL USAGE (LBS)	LOSS TO SEWER (LBS/YEAR)

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Company Name: St Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd
Account Number: 4112195100

SECTION F - NON-SEWERED WASTES

1. Do you generate any liquid wastes or sludges which are not disposed in the sewer system? [] Yes [] No
If "Yes" complete items 2 and 3 below. Note: Be sure to include wastewaters listed in Section C.7.c.
If "No," skip remainder of this section.

2. Information on non-sewered waste:

Type of Waste	Estimated Quantity Disposed/yr	Units	Store on-site	Dispose on-site	Dispose off-site
[] Acids and/or Alkalies			[]	[]	[]
[] Equip. Oils and/or Grease			[]	[]	[]
[X] Infectious Waste	327,825	lbs	[]	X	[X]
[] Inks/Dyes			[]	[]	[]
[X] Kitchen/Food Service Grease	3500	gal	[]	[X]	[]
[] Organic Compounds			[]	[]	[]
[] Paints or Paint Sludges			[]	[]	[]
[] Pesticides			[]	[]	[]
[] Pretreatment Sludges			[]	[]	[]
[] Radioactive Waste			[]	[]	[]
[] Solvents/Thinners			[]	[]	[]
[] Other			[]	[]	[]
			[]	[]	[]
			[]	[]	[]

3. List your USEPA and/or MDNR Hazardous Waste generator numbers:

USEPA_____ MDNR_____

SECTION G - INDUSTRIAL WASTE SURCHARGE INFORMATION

1. The following analytical information is required for each sampling point or each connection to the public sewer (see D.1.c), only if your water usage exceeds 80 Ccf per month. Representative samples of the wastewater in each sewer must be collected and analyzed for the listed parameters. Concentrations are to be reported in mg/l.

Sewer Number (Refer to Section D.2)
(If more than 5, attach additional sheets)

Daily Average Concentration For Each Sampling Point or Connection

Parameter (mg/l)	1	2	3	4	5
Total Solids					
Total Suspended Solids					
Biochemical Oxygen Demand$_5$					
Chemical Oxygen Demand					
Flow (gpd)					
Date Sampled					
Time Sampled					
Type of Sample					

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Company Name: St Louis University Hospital
Premise Address: 1315-1341 S. Grand Ave
Account Number: 4112 195100

SECTION G - INDUSTRIAL WASTE (Cont'd)

2. Sample handling information: Organization Name and Address

a. Samples collected by: Metropolitan Manufactures Assoc.

b. Samples analyzed by: [redacted] Test America 850 W Bartlett Bartlett, IL 60103

SECTION H - CERTIFICATION AND SIGNATURE

1. The following individual may be contacted regarding the information contained in this questionnaire:

Name and title of contact person: Phillip Van Cleave

Director of Building Services Tel No. (314) 577-8072

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

Name and title of signing official: Phillip Van Cleave

Director of Building Services Tel No. (314) 577-8072

Signature Phillip Van Cleave Date 7-3-01

List attachments included with this questionnaire:

Notification Pursuant to 40CFR 403.12(p)

JUL 9 2001

MSD 038559

Metropolitan
St. Louis Sewer
District

FOR MSD USE ONLY		
ACCOUNT NUMBER: 4/121951-00	CATEGORY: 1 2 3 (4) 5 6 (9)	
TA: BP TS: OLD MILL CR	Reviewer's Initials	8/4/97 Date

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JUL 30 1997
DEPT. of ENVIRONMENTAL COMPLIANCE

METROPOLITAN ST. LOUIS SEWER DISTRICT
DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL USER QUESTIONNAIRE

Note to Signing Official: In accordance with Title 40 of the Code of Federal Regulations Part 403 Section 403.14, information and data provided in this questionnaire which identifies the nature and frequency of discharge shall be available to the public without restriction. Requests for confidential treatment of other information shall be governed by procedures specified in 40 CFR Part 2. Should a discharge permit be required for your facility, the information in this questionnaire will be used to issue the permit.

SECTION A - GENERAL INFORMATION

1. Company Name: St. Louis University Hospital
2. Mailing Address: 3635 Vista Ave at Grand Blvd.
   P.O. Box 15250 Zip Code 63110-0250
3. Premise Address: 1315 - 1341 S. Grand Blvd
   Zip Code 63104
4. Person Authorized to Sign Reporting Documents:
   Name and Title: Gary Rauschenbach
   Director Building Services Tel No. (314) 577-8070
5. Check one: [x] Existing Discharge
   [] Proposed Discharge If proposed, indicate discharge start date: _____
6. Shift Information:
   a. Number of shifts per work day: 3 and work days per week: 7
   b. Average number of employees per shift: 1st 1784 2nd 596 3rd 594 Total: 2974
   c. Shift start times: 1st 7:00 AM 2nd 3:00 PM 3rd 11:00 PM

SECTION B - PRODUCT OR SERVICE INFORMATION

1. Briefly describe the primary manufacturing or service activities at the premise address and list the applicable SIC number for each activity:

	PRIMARY ACTIVITIES	SIC NUMBER
a.	Acute Patient Care - Level 1 Trauma Center	
b.		
c.		
d.		

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Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd
Account Number: 4112195100

SECTION B - PRODUCT OR SERVICE INFORMATION (Cont'd)

2. Are primary activities generally batch or continuous processes? [] batch ■ continuous
3. Principal raw materials used: N/A
4. Principal products produced: N/A
5. Check all activities which are conducted at your premise in addition to the primary activities described in B.1 above. Indicate the SIC number, if known. Do not check activities which are already included in B.1.

	SIC NO.		SIC NO.
[] Adhesive & Sealants Mfg.		[] Mineral Mining & Processing	
[] Aluminum Forming		[] Nonferrous Metals Forming	
[] Asbestos Mfg.		[] Nonferrous Metals Mfg	
[] Battery Mfg.		[] Organic Chem., Plastics & Synthetic Fibers Mfg	
[] Builder's Paper and Roofing Felt Mfg.		[] Paint Formulating	
[] Carbon Black Mfg.		[] Painting, Finishing or Paint Stripping	
[] Cement Mfg.		[] Parts Washing	
[] Coil Coating		[] Paving and Roofing Materials	
[] Copper Forming		[] Pesticide Chem. Mfg., Formulating, Packaging	
[] Dairy Products Processing		[] Petroleum Refining	
[] Drum Reconditioning		[] Pharmaceutical Mfg	
[] Electrical and Electronic Components		[] Phosphate Mfg	
[] Electroplating		■ Photographic Processing	
[] Explosive Mfg.		[] Plastic Molding and Forming	
[] Feedlots		[] Porcelain Enameling	
[] Ferroalloy Mfg.		[] Printing & Publishing	
[] Fertilizer Mfg.		[] Pulp, Paper & Paperboard Mfg	
■ Food Preparation		[] Q. C. Laboratory	
[] Fruits and Vegetable Processing		■ R & D Laboratory	
[] General Offices		[] Radioactive Materials Processing	
[] Glass Mfg.		[] Repair Shop, Garage	
[] Grain Milling		[] Rubber & Rubber Prod. Mfg.	
[] Gum & Wood Chemical Mfg.		[] Seafood Processing	
[] Hazardous Waste Treatment, Storage or Disposal		[] Soap and Detergent Mfg.	
■ Health Care & Hospital		[] Solvent Recycling	
[] Industrial Laundry		[] Steam Electric Power Generation	
[] Ink Formulating		[] Sugar Processing	
[] Inorganic Chemicals Mfg.		[] Textile Mills	
[] Iron and Steel Mfg.		[] Timber Products Mfg.	
[] Leather Tanning and Finishing		[] Transportation Equipment Cleaning	
[] Machine Shop		[] Transportation Services	
[] Machinery Mfg. or Rebuilding		[] Used Oil Reclamation	
[] Meat Processing		[] Vehicle/equipment Washing	
[] Metal Finishing		[] Warehousing	
[] Metal Molding and Casting		[] Waste Recycling	
		[] Others _____	

6. Are your processes subject to seasonal variation? [] Yes ■ No
If "Yes," explain and indicate the month(s) of peak activity.

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Company Name: St. Louis University Hospital
Premise Address: 1315 - 1341 S. Grand Blvd.
Account Number: 4112195100

SECTION C - WATER CONSUMPTION AND WASTEWATER DISCHARGES

1. Raw Water Source(s):
   - [x] City of St. Louis Water Div.
   - [ ] St. Louis Co. Water Co.
   - [ ] Other Municipal Source _____
   - [ ] Hauled by Contractor
   - [ ] Surface water
   - [ ] Private Well
   - [ ] Other (describe) _____

2. Water Bill Addressee: St. Louis University Hospital 3635 Vista at Grand P.O. Box 15250
3. Water Service Account Numbers: 405129-226358 and 405123-226354
4. List past twelve months water usage from:

			[x] Water Bills	[ ] Other Sources
a. 1st quarter	4/19 1996 through	7/18 1996	28,057 Ccf	_____ Ccf
b. 2nd quarter	7/18 1996 through	10/25 1996	33,748 Ccf	_____ Ccf
c. 3rd quarter	10/25 1996 through	1/30 1997	14,757 Ccf	_____ Ccf
d. 4th quarter	1/30 1997 through	4/25 1997	18,868 Ccf	_____ Ccf

5. Describe any treatment or conditioning process performed on the raw water before use:
   Zeolite Water Softener
   Cooling Tower treatment ENTEC 234, 368, 367, 338B, 570

6. Identify all water uses within your facility:

Water Uses	Estimated average daily use (Gallons per Day)
a. Sanitary	109,270 gal/day
b. Irrigation & lawn watering	200 gal/day
c. Non-contact cooling water	60,000 gal/day
d. Contact cooling water	
e. Process water	
f. Plant & equipment washdown	
g. Boiler	26,109 gal/day
h. Other uses _____	
i. Total of USES (6a through 6h):	195,579 gal/day

7. Identify all water losses and wasterwater discharges from your facility:

Water Losses & Discharges	Estimated average daily loss/discharge (Gallons per Day)
a. Municipal sewer	145,379
b. Watercourse, storm drain, ground	200
c. Haulers	
d. Evaporation	50,000
e. Contained in product	
f. Total of LOSSES & DISCHARGES: (7a through 7e must equal total at 6i)	195,579

8. For each activity you listed in Sections B.1 and B.5, list the average water usage and average wastewater discharge. Attach additional sheets if needed.

Item No.	Activity	Type of Discharge Cont.	Batch	None	Avg Water Use (GPD)	Avg Discharge to Mun sewer (GPD)	Date When Activity First Commenced At This Facility
B.1.a	Acute Patient Care	[x]	[ ]	[ ]	109,270	109,270	
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			
		[ ]	[ ]	[ ]			

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DEPT. of ENVIRONMENTAL COMPLIANCE

Company Name: St. Louis University Hospital
Premise Address: 1315 - 1341 S Grand Blvd.
Account Number: 4112195100

SECTION D - SEWER CONNECTION INFORMATION

1. Attach a scale drawing of your premise which shows:
   a. All buildings, structures, alleys, streets and other pertinent features.
   b. All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
   c. A sampling point for each connection to the public sewer.
   d. A sampling point for each discharge from a federally regulated categorical process.
   e. A sampling point for each discharge to a separate storm sewer or water course.

2. List each sampling point identified in 1.c, d and e above and each connection for which there is no sampling point. Assign a sequential reference number to each point, starting with No. 1. Attach additional sheets if needed.

Reference Number	Sewer Size (inches)	Description of sewer sampling point or connection (Vent, manhole, valve, tank or other appurtenance. Indicate size and location)	Total Daily Average Flow (GPD)
1	15	Manhole in driveway west of loading dock	90,744
2	15	Manhole on Vista 15' West of sidewalk 3½' South of island at main entrance	54,635
3			
4			
5			

SECTION E - WASTEWATER INFORMATION

1. For each point listed in D.2 above, list the wastewater discharge corresponding to each water usage listed in Section C.6. Attach additional sheets if needed.

Type Wastewater	Discharge Quantity (GPD) for each sampling point or connection listed in D.2					Facility Total.
	1	2	3	4	5	(See Instructions)
a. Sanitary	54,635	54,635				109,270
b. Irrigation & Lawn Watering						
c. Non-Contact Cooling Water	10,000					10,000
d. Contact Cooling Water						
e. Process (From C.8)						
f. Plant & Equipment Washdown						
g. Boiler Blowdown	26,109					26,109
h. Other (_____)						
Regeneration Waste (C.5)						
Totals (Same as D.2)	90,744	54,635				145,379

2. If any of the above points discharge to a watercourse or a separate storm sewer, complete the following:

NPDES Outfall Number					
NPDES Permit Number					

3. Do any of the above sampling points also convey stormwater from your premise ?

[] Yes [] No	[] Yes [] No	[] Yes [] No	[] Yes [] No	[] Yes [] No

4. Do you pretreat any of the wastes discharged through any of the above points?

[] Yes [] No	[] Yes [] No	[] Yes [] No	[] Yes [] No	[] Yes [] No

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DEPT. of ENVIRONMENTAL COMPLIANCE

Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S Grand Blvd
Account Number: 4112195100

SECTION E - WASTEWATER INFORMATION (Cont'd)

5. Describe the type of wastewater pretreatment you employ prior to each point for which you marked "Yes" in E.4:

Point No.	Pretreatment System Description

6. Does your facility have:
   a. A spill control plan? ■ Yes [] No
   b. A waste minimization plan? [] Yes ■ No
   c. A solvent management plan? [] Yes ■ No
   d. A slug discharge control plan? [] Yes ■ No

7. If any wastewater analyses have been performed on the wastewater discharges from your facility attach copies of the most recent data. Be sure to specify the locations from which the samples were collected. Attach sketches, plans, drawings, etc. as necessary.

8. Priority Pollutant Information: Check one of the four boxes by each listed chemical to indicate whether it is: "Suspected Absent", "Known Absent", "Suspected Present", or "Known Present" ON YOUR PREMISE. Any chemical which is used in your manufacturing or service activity or is generated as a product or as a by-product should be marked "Known Present". Some pollutants are known by other names. Refer to the instruction booklet for those pollutants which have an asterisk (*). SEE ATTACHMENT

SA = "Suspected Absent" KA = "Known Absent" SP = "Suspected Present" KP = "Known Present"

ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP
1.	asbestos (fibrous)	[]	[]	[]	[]
2.	cyanide (total)	[]	[]	[]	[]
3.	antimony (total)	[]	[]	[]	[]
4.	arsenic (total)	[]	[]	[]	[]
5.	beryllium (total)	[]	[]	[]	[]
6.	cadmium (total)	[]	[]	[]	[]
7.	chromium (total)	[]	[]	[]	[]
8.	copper (total)	[]	[]	[]	[]
9.	lead (total)	[]	[]	[]	[]
10.	mercury (total)	[]	[]	[]	[]
11.	nickel (total)	[]	[]	[]	[]
12.	selenium (total)	[]	[]	[]	[]
13.	silver (total)	[]	[]	[]	■ *
14.	thallium (total)	[]	[]	[]	[]
15.	zinc (total)	[]	[]	[]	[]
16.	acenaphthene	[]	[]	[]	[]
17.	acenaphthylene	[]	[]	[]	[]
18.	acrolein	[]	[]	[]	[]
19.	acrylonitrile	[]	[]	[]	[]
20.	aldrin	[]	[]	[]	[]
21.	anthracene	[]	[]	[]	[]
22.	benzene	[]	[]	[]	[]
23.	benzidine	[]	[]	[]	[]
24.	benzo (a) anthracene *	[]	[]	[]	[]
25.	benzo (a) pyrene	[]	[]	[]	[]
26.	benzo (b) fluoranthene	[]	[]	[]	[]
27.	benzo (g,h,i) perylene *	[]	[]	[]	[]
28.	benzo (k) fluoranthene *	[]	[]	[]	[]
29.	alpha-BHC	[]	[]	[]	[]
30.	beta-BHC	[]	[]	[]	[]
31.	delta-BHC	[]	[]	[]	[]
32.	gamma-BHC *	[]	[]	[]	[]
33.	bis (2-chloroethyl) ether *	[]	[]	[]	[]
34.	bis (2-chloroethoxy) methane *	[]	[]	[]	[]
35.	bis (2-chloroisopropyl) ether *	[]	[]	[]	[]
36.	Reserved				
37.	bis (2-ethylhexyl) phthalate	[]	[]	[]	[]
38.	bromodichloromethane *	[]	[]	[]	[]
39.	bromoform *	[]	[]	[]	[]
40.	bromomethane *	[]	[]	[]	[]
41.	4-bromophenylphenyl ether	[]	[]	[]	[]
42.	butylbenzyl phthalate	[]	[]	[]	[]
43.	carbon tetrachloride *	[]	[]	[]	[]
44.	chlordane	[]	[]	[]	[]
45.	4-chloro-3-methylphenol *	[]	[]	[]	[]
46.	chlorobenzene	[]	[]	[]	[]
47.	chlorethane *	[]	[]	[]	[]
48.	2-chloroethylvinyl ether	[]	[]	[]	[]
49.	chloroform *	[]	[]	[]	■
50.	chloromethane *	[]	[]	[]	[]
51.	2-chloronaphthalene	[]	[]	[]	[]
52.	2-chlorophenol *	[]	[]	[]	[]
53.	4-chlorophenylphenyl ether	[]	[]	[]	[]
54.	chrysene *	[]	[]	[]	[]
55.	4,4'-DDD *	[]	[]	[]	[]
56.	4,4'-DDE *	[]	[]	[]	[]
57.	4,4'-DDT *	[]	[]	[]	[]
58.	dibenzo (a,h) anthracene *	[]	[]	[]	[]
59.	dibromochloromethane *	[]	[]	[]	[]
60.	1,2-dichlorobenzene *	[]	[]	[]	[]
61.	1,3-dichlorobenzene *	[]	[]	[]	[]
62.	1,4-dichlorobenzene *	[]	[]	[]	[]
63.	3,3'-dichlorobenzidine	[]	[]	[]	[]
64.	Reserved				
65.	1,1-dichloroethane *	[]	[]	[]	[]
66.	1,2-dichloroethane *	[]	[]	[]	[]
67.	1,1-dichloroethene *	[]	[]	[]	[]
68.	trans-1,2-dichloroethene *	[]	[]	[]	[]
69.	2,4-dichlorophenol	[]	[]	[]	[]
70.	1,2-dichloropropane *	[]	[]	[]	[]
71.	(cis & trans) 1,3-dichloropropene *	[]	[]	[]	[]
72.	dieldrin	[]	[]	[]	[]
73.	diethylphthalate *	[]	[]	[]	[]
74.	2,4-dimethylphenol *	[]	[]	[]	[]
75.	dimethyl phthalate	[]	[]	[]	[]
76.	di-n-butyl phthalate	[]	[]	[]	[]

Continued on Page 6

* Ag is "KP" per 8/5/97 tel conf w/ Mr Rauschenbach

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DEPT. of ENVIRONMENTAL COMPLIANCE

Company Name: St. Louis University Hospital
Premise Address: 1315 - 1341 S Grand Blvd
Account Number: 4112195100

SECTION E - WASTEWATER INFORMATION (Cont'd)

Priority Pollutant Information (Cont'd)

SA = "Suspected Absent" KA = "Known Absent" SP = "Suspected Present" KP = "Known Present"

ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP	ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP
77.	di-n-octyl phthalate *	☐	☐	☐	☐	103.	4-nitrophenol *	☐	☐	☐	☐
78.	4,6-dinitro-2-methylphenol *	☐	☐	☐	☐	104.	N-nitrosodimethylamine *	☐	☐	☐	☐
79.	2,4-dinitrophenol	☐	☐	☐	☐	105.	N-nitrosodi-n-propylamine *	☐	☐	☐	☐
80.	2,4-dinitrotoluene	☐	☐	☐	☐	106.	N-nitrosodiphenylamine	☐	☐	☐	☐
81.	2,6-dinitrotoluene	☐	☐	☐	☐	107.	PCB-1016 *	☐	☐	☐	☐
82.	1,2-diphenylhydrazine *	☐	☐	☐	☐	108.	PCB-1221 *	☐	☐	☐	☐
83.	endosulfan I *	☐	☐	☐	☐	109.	PCB-1232 *	☐	☐	☐	☐
84.	endosulfan II *	☐	☐	☐	☐	110.	PCB-1242 *	☐	☐	☐	☐
85.	endosulfan sulfate	☐	☐	☐	☐	111.	PCB-1248 *	☐	☐	☐	☐
86.	endrin	☐	☐	☐	☐	112.	PCB-1254 *	☐	☐	☐	☐
87.	endrin aldehyde	☐	☐	☐	☐	113.	PCB-1260 *	☐	☐	☐	☐
88.	ethylbenzene	☐	☐	☐	☐	114.	pentachlorophenol	☐	☐	☐	☐
89.	fluoranthene	☐	☐	☐	☐	115.	phenanthrene	☐	☐	☐	☐
90.	fluorene *	☐	☐	☐	☐	116.	phenol	☐	☐	☐	■
91.	heptachlor	☐	☐	☐	☐	117.	pyrene	☐	☐	☐	☐
92.	heptachlor epoxide	☐	☐	☐	☐	118.	2,3,7,8-tetrachlorodibenzo-p-dioxin *	☐	☐	☐	☐
93.	hexachlorobenzene *	☐	☐	☐	☐	119.	1,1,2,2-tetrachloroethane *	☐	☐	☐	☐
94.	hexachlorobutadiene	☐	☐	☐	☐	120.	tetrachloroethene *	☐	☐	☐	☐
95.	hexachlorocyclopentadiene *	☐	☐	☐	☐	121.	toluene *	☐	☐	☐	☐
96.	hexachloroethane *	☐	☐	☐	☐	122.	toxaphene	☐	☐	☐	☐
97.	indeno (1,2,3-cd) pyrene *	☐	☐	☐	☐	123.	1,2,4-trichlorobenzene	☐	☐	☐	☐
98.	isophorone *	☐	☐	☐	☐	124.	1,1,1-trichloroethane *	☐	☐	☐	☐
99.	methylene chloride *	☐	☐	■	☐	125.	1,1,2-trichloroethane *	☐	☐	☐	☐
100.	naphthalene	☐	☐	☐	☐	126.	trichloroethene *	☐	☐	☐	☐
101.	nitrobenzene	☐	☐	☐	☐	127.	Reserved				
102.	2-nitrophenol	☐	☐	☐	☐	128.	2,4,6-trichlorophenol	☐	☐	☐	☐
						129.	vinyl chloride *	☐	☐	☐	☐

9. For priority pollutants in E.8 which are indicated "Known Present," list and provide the following data for each. Attach additional sheets if needed.

ITEM NO.	PRIORITY POLLUTANT	HOW USED	ANNUAL USAGE (LBS)	LOSS TO SEWER (LBS/YEAR)

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DEPT. of ENVIRONMENTAL COMPLIANCE

Company Name: St. Louis University Hospital
Premise Address: 1315 - 1341 S. Grand Blvd
Account Number: 4112195100

SECTION F - NON-SEWERED WASTES

1. Do you generate any liquid wastes or sludges which are not disposed in the sewer system? [] Yes ■ No
If "Yes" complete items 2 and 3 below. Note: Be sure to include wastewaters listed in Section C.7.c.
If "No," skip remainder of this section.

2. Information on non-sewered waste:

Type of Waste	Estimated Quantity Disposed/yr	Units	Store on-site	Dispose on-site	Dispose off-site
[] Acids and/or Alkalies			[]	[]	[]
[] Equip. Oils and/or Grease			[]	[]	[]
■ Infectious Waste	327,824	lbs	[]	■	[]
[] Inks/Dyes			[]	[]	[]
■ Kitchen/Food Service Grease	3200	gal	[]	[]	■
[] Organic Compounds			[]	[]	[]
[] Paints or Paint Sludges			[]	[]	[]
[] Pesticides			[]	[]	[]
[] Pretreatment Sludges			[]	[]	[]
[] Radioactive Waste			[]	[]	[]
[] Solvents/Thinners			[]	[]	[]
[] Other _____			[]	[]	[]
			[]	[]	[]
			[]	[]	[]

3. List your USEPA and/or MDNR Hazardous Waste generator numbers:

USEPA_____ MDNR_____

SECTION G - INDUSTRIAL WASTE SURCHARGE INFORMATION

1. The following analytical information is required for each sampling point or each connection to the public sewer (see D.1.c), only if your water usage exceeds 80 Ccf per month. Representative samples of the wastewater in each sewer must be collected and analyzed for the listed parameters. Concentrations are to be reported in mg/l.

Sewer Number (Refer to Section D.2)
(If more than 5, attach additional sheets)

Daily Average Concentration For Each Sampling Point or Connection

Parameter (mg/l)	1	2	3	4	5
Total Solids					
Total Suspended Solids					
Biochemical Oxygen Demand$_5$					
Chemical Oxygen Demand					
Flow (gpd)					
Date Sampled					
Time Sampled					
Type of Sample					

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DEPT. of ENVIRONMENTAL COMPLIANCE

Company Name: St. Louis University Hospital
Premise Address: 1315 - 1341 S Grand Blvd.
Account Number: 4112195100

SECTION G - INDUSTRIAL WASTE (Cont'd)

2. Sample handling information: Organization Name and Address

a. Samples collected by: Metropolitan Manufacture Association

b. Samples analyzed by: TEKLAB Inc. 5445 Horseshoe Lake Rd Collinsville ILL 62234

SECTION H - CERTIFICATION AND SIGNATURE

1. The following individual may be contacted regarding the information contained in this questionnaire:

Name and title of contact person: Gary Rauschenbach

Director Building Services Tel No. (314) 577-8070

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

Name and title of signing official: Gary Rauschenbach

Director Building Services Tel No. (314) 577-8070

Signature Gary Rauschenbach Date 7-15-97

List attachments included with this questionnaire:

Notification Pursuant to 40 CFR 403.12(p)

4112 1951-00
ST. LOUIS UNIVERSITY HOSPITAL
1325 SOUTH GRAND BLVD.
ST. LOUIS, MO 63104

1981 - 1993 CORRES. IN BROWN FOLDER BEHIND THIS FILE

+ MSDS, & older IDS Sheets

& OLDER MAPS

FOR MSD USE ONLY		
ACCOUNT NUMBER: 4112 1951-00	CATEGORY: 1 2 3 (4) 5 6 (9)	
TA: BP TS: OLD MILL CR	9d Reviewer's Initials	8/12/94 Date

METROPOLITAN ST. LOUIS SEWER DISTRICT
DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL USER QUESTIONNAIRE

Note to Signing Official: In accordance with Title 40 of the Code of Federal Regulations Part 403 Section 403.14, information and data provided in this questionnaire which identifies the nature and frequency of discharge shall be available to the public without restriction. Requests for confidential treatment of other information shall be governed by procedures specified in 40 CFR Part 2. Should a discharge permit be required for your facility, the information in this questionnaire will be used to issue the permit.

SECTION A - GENERAL INFORMATION

1. Company Name: St. Louis University Hospital
2. Mailing Address: 3635 Vista Ave. at Grand Boulevard
   P.O. Box #5250, St. Louis, MO Zip Code 63110-0250
3. Premise Address: 1315-1341 S. Grand Blvd.
   St. Louis, MO Zip Code 63104
4. Person Authorized to Sign Reporting Documents:
   Name and Title: Gary Rauschenbach, Director Building Services
   Tel No. (314) 577-8070
5. Check one: ■ Existing Discharge
   ☐ Proposed Discharge If proposed, indicate discharge start date: _____
6. Shift Information:
   a. Number of shifts per work day: 3 and work days per week: 7
   b. Average number of employees per shift: 1st 1784 2nd 596 3rd 594 Total: 2974
   c. Shift start times: 1st 7:00a.m. 2nd 3:00 p.m. 3rd 11:00 p.m.

SECTION B - PRODUCT OR SERVICE INFORMATION

1. Briefly describe the primary manufacturing or service activities at the premise address and list the applicable SIC number for each activity:

PRIMARY ACTIVITIES	SIC NUMBER
a. Acute patient care - level 1 trauma	
b.	
c.	
d.	

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Company Name: St. Louis University HOspital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION B - PRODUCT OR SERVICE INFORMATION (Cont'd)

2. Are primary activities generally batch or continuous processes? [ ] batch [x] continuous
3. Principal raw materials used: N/A
4. Principal products produced: N/A
5. Check all activities which are conducted at your premise in addition to the primary activities described in B.1 above. Indicate the SIC number, if known. Do not check activities which are already included in B.1.

	SIC NO.		SIC NO.
[ ] Adhesive & Sealants Mfg.		[ ] Mineral Mining & Processing	
[ ] Aluminum Forming		[ ] Nonferrous Metals Forming	
[ ] Asbestos Mfg.		[ ] Nonferrous Metals Mfg	
[ ] Battery Mfg.		[ ] Organic Chem., Plastics & Synthetic Fibers Mfg	
[ ] Builder's Paper and Roofing Felt Mfg.		[ ] Paint Formulating	
[ ] Carbon Black Mfg.		[ ] Painting, Finishing or Paint Stripping	
[ ] Cement Mfg.		[ ] Parts Washing	
[ ] Coil Coating		[ ] Paving and Roofing Materials	
[ ] Copper Forming		[ ] Pesticide Chem., Mfg., Formulating, Packaging	
[ ] Dairy Products Processing		[ ] Petroleum Refining	
[ ] Drum Reconditioning		[ ] Pharmaceutical Mfg	
[ ] Electrical and Electronic Components		[ ] Phosphate Mfg	
[ ] Electroplating		[x] Photographic Processing	
[ ] Explosive Mfg.		[ ] Plastic Molding and Forming	
[ ] Feedlots		[ ] Porcelain Enameling	
[ ] Ferroalloy Mfg.		[ ] Printing & Publishing	
[ ] Fertilizer Mfg.		[ ] Pulp, Paper & Paperboard Mfg	
[ ] Food Preparation		[ ] Q. C. Laboratory	
[ ] Fruits and Vegetable Processing		[x] R & D Laboratory	
[ ] General Offices		[ ] Radioactive Materials Processing	
[ ] Glass Mfg.		[ ] Repair Shop, Garage	
[ ] Grain Milling		[ ] Rubber & Rubber Prod. Mfg.	
[ ] Gum & Wood Chemical Mfg.		[ ] Seafood Processing	
[ ] Hazardous Waste Treatment, Storage or Disposal		[ ] Soap and Detergent Mfg.	
[ ] Health Care & Hospital		[ ] Solvent Recycling	
[ ] Industrial Laundry		[ ] Steam Electric Power Generation	
[ ] Ink Formulating		[ ] Sugar Processing	
[ ] Inorganic Chemicals Mfg.		[ ] Textile Mills	
[ ] Iron and Steel Mfg.		[ ] Timber Products Mfg.	
[ ] Leather Tanning and Finishing		[ ] Transportation Equipment Cleaning	
[ ] Machine Shop		[ ] Transportation Services	
[ ] Machinery Mfg. or Rebuilding		[ ] Used Oil Reclamation	
[ ] Meat Processing		[ ] Vehicle/equipment Washing	
[ ] Metal Finishing		[ ] Warehousing	
[ ] Metal Molding and Casting		[ ] Waste Recycling	
		[ ] Others	

6. Are your processes subject to seasonal variation? [ ] Yes [x] No
If "Yes," explain and indicate the month(s) of peak activity.

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Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION C - WATER CONSUMPTION AND WASTEWATER DISCHARGES

1. Raw Water Source(s):
   - [] City of St. Louis Water Div.
   - [] St. Louis Co. Water Co.
   - [] Other Municipal Source
   - [] Hauled by Contractor
   - [] Surface water
   - [] Private Well
   - [] Other (describe)

2. Water Bill Addressee: Desloge Hosp. 3635 Vista at Grand, P.O. Box 15250, St. Louis, MO 63110-0250

3. Water Service Account Numbers: 405129-226358

4. List past twelve months water usage from:

					[] Water Bills	[] Other Sources
a. 1st quarter	4/23 1993	through	7/22 1993		30,174 Ccf	Ccf
b. 2nd quarter	7/22 1993	through	10/25 1993		34,990 Ccf	Ccf
c. 3rd quarter	10/25 1993	through	1/14 1994		15,042 Ccf	Ccf
d. 4th quarter	1/14 1994	through	4/26 1994		17,946 Ccf	Ccf

5. Describe any treatment or conditioning process performed on the raw water before use: Zeolite Water Softener

Cooling Tower treatment ENTEC 551, ENTEC 368

6. Identify all water uses within your facility:

Water Uses	Estimated average daily use (Gallons per Day)
a. Sanitary	206,409 gal/day
b. Irrigation & lawn watering	5,000 gal/day
c. Non-contact cooling water	N/A
d. Contact cooling water (cooling tower makeup)	48,061 gal/day
e. Process water	118,588 gal/day
f. Plant & equipment washdown	N/A
g. Boiler feed	49,092 gal/day
h. Other uses	
i. Total of USES (6a through 6h):	427,150 gal/day

7. Identify all water losses and wasterwater discharges from your facility:

Water Losses & Discharges	Estimated average daily loss/discharge (Gallons per Day)
a. Municipal sewer	324,997
b. Watercourse, storm drain, ground	5,000
c. Haulers	N/A
d. Evaporation	97,153 gal/day
e. Contained in product	N/A
f. Total of LOSSES & DISCHARGES: (7a through 7e must equal total at 6i)	427,150

8. List average water usage and average wastewater discharge for each activity listed in Sections B.1 and B.5. Attach additional sheets if needed.

Item No.	Activity	Type of Discharge Cont.	Type of Discharge Batch	Avg Use (GPD)	Avg Discharge (GPD)	Date When Activity First Commenced At This Facility
	Acute patient care	■	[]	206,409	206.409	
	Photographic Processing	■	[]	21,320	21,320	
	R&D Laboratory	■	[]	unknown	unknown	
		[]	[]			
		[]	[]			

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Company Name: St. Louis Universtiy HOspital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION D - SEWER CONNECTION INFORMATION

1. Attach a scale drawing of your premise which shows:
   a. All buildings, alleys, streets and other pertinent structures;
   b. All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
   c. Identify a sampling point for each connection to the public sewer.
   d. Identify a sampling point for each discharge from a federally regulated categorical process.
   e. Identify a sampling point for each discharge to a separate storm sewer or water course.
2. List each sampling point identified in D.1c, d, e above. Also include each connection for which there is no sampling point. Assign a sequential reference number to each point, starting with No. 1. Attach additional sheets, if necessary.

Reference Number	Sewer Size (inch)	Description of sewer sampling point or connection	Total Daily Average Flow (GPD)
1	15		191299
2	15		133698
3			
4			
5			

SECTION E - WASTEWATER INFORMATION

1. List the wastewater discharge corresponding to each water usage listed in Section C.6. Attach additional sheets if necessary.

Type Wastewater	Discharge Quantity (GPD) for each sampling point or connection listed in D.2. 1	2	3	4	5	Facility Total
a. Sanitary	103,205	103,204				206409
b. Irrigation & Lawn Watering						
c. Non-Contact Cooling Water						
d. Contact Cooling Water	8,508	0				8508
e. Process (From C.8)						
	30494	30494				60988
f. Plant & Equipment Washdown						
g. Boiler Blowdown	49092	0				49092
h. Other (_____)						
Regeneration Waste (C.5)						
Totals (Same as D.2)	191299	133698				324997

2. If any of the above points discharge to a watercourse or a separate storm sewer, complete the following:

NPDES Outfall Number					
NPDES Permit Number					

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3. Do any of the above sampling points also convey stormwater from your premise ?
   ■ Yes ☐ No ■ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No
4. Do you pretreat any of the wastes discharged through any of the above points?
   ☐ Yes ■ No ☐ Yes ■ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No

Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION E - WASTEWATER INFORMATION (Cont'd)

5. Describe the type of wastewater pretreatment you employ prior to each point for which you marked "Yes" in E.4:

Point No.	Pretreatment System Description

6. Does your facility have:
   a. A spill control plan? ■ Yes ☐ No
   b. A waste minimization plan? ☐ Yes ■ No
   c. A solvent management plan? ☐ Yes ■ No
   d. A slug discharge control plan? ☐ Yes ■ No

7. If any wastewater analysis has been performed on the wastewater discharges from your facility attach a copy of the most recent data. Be sure to specify the locations from which the samples were collected. Attach sketches, plans, drawings, etc. as necessary.

8. Priority Pollutant Information: Check the appropriate box by each listed chemical whether it is "Suspected Absent", "Known Absent", "Suspected Present", or "Known Present" on your premise, used in your manufacturing or service activity or generated as a by-product. Some pollutants are known by other names. Refer to the instruction booklet for those pollutants which have an asterisk (*). (See Attachment)

SA = "Suspected Absent" KA = "Known Absent" SP = "Suspected Present" KP = "Known Present"

ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP	ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP
1.	asbestos (fibrous)	☐	■	☐	☐	39.	bromoform*	☐	☐	☐	☐
2.	cyanide (total)	☐	■	☐	☐	40.	bromomethane*	☐	☐	☐	☐
3.	antimony (total)	☐	■	☐	☐	41.	4-bromophenylphenyl ether	☐	☐	☐	☐
4.	arsenic (total)	☐	■	☐	☐	42.	butylbenzyl phthalate	☐	☐	☐	☐
5.	beryllium (total)	☐	■	☐	☐	43.	carbon tetrachloride*	☐	☐	☐	☐
6.	cadmium (total)	☐	■	☐	☐	44.	chlordane	☐	☐	☐	☐
7.	chromium (total)	☐	■	☐	☐	45.	4-chloro-3-methylphenol*	☐	☐	☐	☐
8.	copper (total)	☐	☐	☐	■	46.	chlorobenzene	☐	☐	☐	☐
9.	lead (total)	☐	☐	☐	☐	47.	chlorethane*	☐	☐	☐	☐
10.	mercury (total)	☐	☐	☐	☐	48.	2-chloroethylvinyl ether	☐	☐	☐	☐
11.	nickel (total)	☐	☐	☐	☐	49.	chloroform*	☐	☐	☐	■
12.	selenium (total)	☐	☐	☐	☐	50.	chloromethane*	☐	☐	☐	☐
13.	silver (total	☐	☐	☐	■	51.	2-chloronaphthalene	☐	☐	☐	☐
14.	thallium total)	☐	☐	☐	☐	52.	2-chlorophenol*	☐	☐	☐	☐
15.	zinc (total)	☐	☐	☐	☐	53.	4-chlorophenylphenyl ether	☐	☐	☐	☐
16.	acenaphthene	☐	☐	☐	☐	54.	chrysene*	☐	☐	☐	☐
17.	acenaphthylene	☐	☐	☐	☐	55.	4,4'-DDD*	☐	☐	☐	☐
18.	acrolein	☐	☐	☐	☐	56.	4,4'-DDE*	☐	☐	☐	☐
19.	acrylonitrile	☐	☐	☐	☐	57.	4,4'-DDT*	☐	☐	☐	☐
20.	aldrin	☐	☐	☐	☐	58.	dibenzo (a,h) anthracene*	☐	☐	☐	☐
21.	anthracene	☐	☐	☐	☐	59.	dibromochloromethane*	☐	☐	☐	☐
22.	benzene	☐	☐	☐	■	60.	1,2-dichlorobenzene*	☐	☐	☐	☐
23.	benzidine	☐	☐	☐	☐	61.	1,3-dichlorobenzene*	☐	☐	☐	☐
24.	benzo (a) anthracene*	☐	☐	☐	☐	62.	1,4-dichlorobenzene*	☐	☐	☐	☐
25.	benzo (a) pyrene	☐	☐	☐	☐	63.	3,3'-dichlorobenzidine	☐	☐	☐	☐
26.	benzo (b) fluoranthene	☐	☐	☐	☐	64.	Reserved	☐	☐	☐	☐
27.	benzo (g,h,i) perylene*	☐	☐	☐	☐	65.	1,1-dichloroethane*	☐	☐	☐	☐
28.	benzo (k) fluoranthene*	☐	☐	☐	☐	66.	1,2-dichloroethane*	☐	☐	☐	☐
29.	alpha-BHC	☐	☐	☐	☐	67.	1,1-dichloroethene*	☐	☐	☐	☐
30.	beta-BHC	☐	☐	☐	☐	68.	trans-1,2-dichloroethene*	☐	☐	☐	☐
31.	delta-BHC	☐	☐	☐	☐	69.	2,4-dichlorophenol	☐	☐	☐	☐
32.	gamma-BHC*	☐	☐	☐	☐	70.	1,2-dichloropropane*	☐	☐	☐	☐
33.	bis (2-chloroethyl) ether*	☐	☐	☐	☐	71.	(cis & trans) 1,3-dichloropropene*	☐	☐	☐	☐
34.	bis (2-chloroethoxy) methane*	☐	☐	☐	■	72.	dieldrin	☐	☐	☐	☐
35.	bis (2-chloroisopropyl) ether*	☐	☐	☐	☐	73.	diethylphthalate*	☐	☐	☐	☐
36.	Reserved	☐	☐	☐	☐	74.	2,4-dimethylphenol*	☐	☐	☐	☐
37.	bis (2-ethylhexyl) phthalate	☐	☐	☐	☐	75.	dimethyl phthalate	☐	☐	☐	☐
38.	bromodichloromethane*	☐	☐	☐	☐	76.	di-n-butyl phthalate	☐	☐	☐	☐

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Continued on Page 6

Company Name: St. Louis University HOspital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION E - WASTEWATER INFORMATION (Cont'd)

Priority Pollutant Information (Cont'd)

SA = "Suspected Absent" KA = "Known Absent" SP = "Suspected Present" KP = "Known Present"

ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP	ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP
77.	di-n-octyl phthalate*	[]	[]	[]	[]	103.	4-nitrophenol*	[]	[]	[]	[]
78.	4,6-dinitro-2-methylphenol*	[]	[]	[]	[]	104.	N-nitrosodimethylamine*	[]	[]	[]	[]
79.	2,4-dinitrophenol	[]	[]	[]	■	105.	N-nitrosodi-n-propylamine*	[]	[]	[]	[]
80.	2,4-dinitrotoluene	[]	[]	[]	[]	106.	N-nitrosodiphenylamine	[]	[]	[]	[]
81.	2,6-dinitrotoluene	[]	[]	[]	[]	107.	PCB-1016*	[]	[]	[]	[]
82.	1,2-diphenylhydrazine*	[]	[]	[]	[]	108.	PCB-1221*	[]	[]	[]	[]
83.	endosulfan I*	[]	[]	[]	[]	109.	PCB-1232	[]	[]	[]	[]
84.	endosulfan II*	[]	[]	[]	[]	110.	PCB-1242*	[]	[]	[]	[]
85.	endosulfan sulfate	[]	[]	[]	[]	111.	PCB-1248*	[]	[]	[]	[]
86.	endrin	[]	[]	[]	[]	112.	PCB-1254*	[]	[]	[]	[]
87.	endrin aldehyde	[]	[]	[]	[]	113.	PCB-1260*	[]	[]	[]	[]
88.	ethylbenzene	[]	[]	[]	[]	114.	pentachlorophenol	[]	[]	[]	[]
89.	fluoranthene	[]	[]	[]	[]	115.	phenanthrene	[]	[]	[]	[]
90.	fluorene*	[]	[]	[]	[]	116.	phenol	[]	[]	[]	■
91.	heptachlor	[]	[]	[]	[]	117.	pyrene	[]	[]	[]	[]
92.	heptachlor epoxide	[]	[]	[]	[]	118.	2,3,7,8-tetrachlorodibenzo-p-dioxin*	[]	[]	[]	[]
93.	hexachlorobenzene*	[]	[]	[]	[]	119.	1,1,2,2-tetrachloroethane*	[]	[]	[]	[]
94.	hexachlorobutadiene	[]	[]	[]	[]	120.	tetrachloroethene*	[]	[]	[]	[]
95.	hexachlorocyclopentadiene*	[]	[]	[]	[]	121.	toluene*	[]	[]	[]	■
96.	hexachloroethane*	[]	[]	[]	[]	122.	toxaphene	[]	[]	[]	[]
97.	indeno (1,2,3-cd) pyrene*	[]	[]	[]	[]	123.	1,2,4-trichlorobenzene	[]	[]	[]	[]
98.	isophorone*	[]	[]	[]	[]	124.	1,1,1-trichloroethane*	[]	[]	[]	[]
99.	methylene chloride*	[]	[]	[]	■	125.	1,1,2-trichloroethane*	[]	[]	[]	[]
100.	naphthalene	[]	[]	[]	[]	126.	trichloroethene*	[]	[]	[]	[]
101.	nitrobenzene	[]	[]	[]	[]	127.	Reserved	[]	[]	[]	[]
102.	2-nitrophenol	[]	[]	[]	[]	128.	2,4,6-trichlorophenol	[]	[]	[]	[]
						129.	vinyl chloride*	[]	[]	[]	[]

9. For priority pollutants in E.8 which are indicated "Known Present," list and provide the following data for each: (attach additional sheets if needed.)

ITEM NO.	PRIORITY POLLUTANT	HOW USED	ANNUAL USAGE (LBS)	LOSS TO SEWER (LBS/YEAR)
49	Chloroform	Small scale extraction proced		0.7 lbs
116	Phenol	" "		0.01 lbs
8	Copper	chemical assay	0.0002	0.0002
13	Silver	chemical assay	0.00005	0.00005
22	benzene	extraction proced	0.00001	0.00001
34	bi s (2chloroxymethane)	cross linker	0.00001	0.00001
49	Chloroform	extraction proced	0.0005	0.0005
79	2,4 dinitrophenol	chemical assay	0.00005	0.00005
99	methylene chloride	chemical proced	0.001	0.001
116	phenol	extraction proced	0.001	0.001
121	toluene	Solvents	0.0005	0.0005

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Company Name: St. Louis, University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION F - NON-SEWERED WASTES

1. Do you generate any liquid wastes or sludges which are not disposed in the sewer system? ☐ Yes ■ No
If "Yes" complete items 2 and 3 below. If "No," skip remainder of this section: Note: Be sure to include wastewaters listed in Section C.7c.

2. Information on non-sewered waste:

Type of Waste	Estimated Quantity Disposed/yr	Units	Store on-site	Dispose on-site	Dispose off-site
[] Acids and/or Alkalies			☐	☐	☐
[] Equip. Oils and/or Grease			☐	☐	☐
[] Infectious Waste	212,000	lbs.	☐	■	☐
[] Inks/Dyes			☐	☐	☐
[] Kitchen/Food Service Grease			☐	☐	☐
[] Organic Compounds			☐	☐	☐
[] Paints or Paint Sludges			☐	☐	☐
[] Pesticides			☐	☐	☐
[] Pretreatment Sludges			☐	☐	☐
[] Radioactive Waste			☐	☐	☐
[] Solvents/Thinners			☐	☐	☐
[] Other			☐	☐	☐
			☐	☐	☐
			☐	☐	☐

3. List your USEPA and/or MDNR Hazardous Waste generator numbers:

USEPA_____ MDNR_____

SECTION G - INDUSTRIAL WASTE SURCHARGE INFORMATION

1. The following analytical information is required for each sampling point or each connection to the public sewer (see D.1.c), only if your water usage exceeds 80 Ccf per month. Representative samples of the wastewaters in each sewer must be collected and analyzed for the listed parameters. Concentrations are to be reported in mg/l.

Sewer Number (Refer to Section D.2)
(If more than 5, attach additional sheets)

Daily Average Concentration For Each Sampling Point or Connection

Parameter (mg/l)	1	2	3	4	5
Total Solids					
Total Suspended Solids					
Biochemical Oxygen Demand$_5$					
Chemical Oxygen Demand					
Flow (gpd)					
Date Sampled					
Time Sampled					
Type of Sample					

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Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION G - INDUSTRIAL WASTE (Cont'd)

2. Sample handling information: Organization Name and Address

a. Samples collected by: Metropolitan Manufacture Association

b. Samples analyzed by: Industrial Testing Laboratories

SECTION H - CERTIFICATION AND SIGNATURE

1. The following individual may be contacted regarding the information contained in this questionnaire:

Name and title of contact person: Gary Rauschenbach, Director Building Services

Tel No. (314) 577-8070

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

Name and title of signing official: Gary Rauschenbach, Director Building Services

Tel No. (314) 577-8070

Signature Gary Rauschenbach Date 6/30/94

List attachments included with this questionnaire:

Notification Pursuant to 40 CFR 403.12(p)

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NOTIFICATION PURSUANT TO 40 CFR 403.12(p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME St. Louis University Hospital - (Blood Bank)
FACILITY ADDRESS
CONTACT PERSON Kim Martin PHONE
TITLE OF CONTACT PERSON Supervisor

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	(0.1 ppm) Sodium Azide (Hydrazoic Acid, Sodium Salt)			<1-lb.
2.				
3.				
4.				
5.				
6.				

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
1.	Sodium Azide	<1-lb	0.1	<1-lb.
2.				
3.				
4.				
5.				
6.				

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PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

PRINTED NAME SIGNATURE Kim Martin
TITLE DATE 6-30-94

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

DEC100PM

NOTIFICATION PURSUANT TO 40 CFR 403.[illegible](p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME Muriel Jobe, Hematology Lab-4FDB
FACILITY ADDRESS ~~The~~ St. Louis University Hospital
CONTACT PERSON ~~3635 Vista at Grand Blvd.~~ PHONE 314-577-8389
TITLE OF CONTACT PERSON ~~P. O. Box 15250~~
~~Saint Louis, MO 63110-0250~~

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	Methanol	U154	12 oz once/day	285 lbs
2.	Methanol	U154	32 oz/wk.	108 lbs
3.	Wescor SS-148 Aerofix Additive	*	Cont	
4.	Wescor SS-048 Reagent D	*	Cont	108 lbs.
5.	Eosin Y Stain Reagent A	*	Cont	
6.	Methylene blue - Reagent B	*	Cont	
	Auromine O	U014	Cont	

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
1.				
2.				
*3.	Ethylene Glycol (107-21-1)		50 TLV	
	Methanol (67-56-1)		200 TLV	
*4.	Methanol (107-21-1)	8.34 lbs	200 TLV	108 lbs
*5.	Thimersal Mercury Compound		50-100 TLV	
*6.	Thimersal Mercury Compound		50 TLV	

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Environmental Compliance

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

PRINTED NAME Muriel Jobe SIGNATURE Muriel Jobe
TITLE Supervisor, Hematology Labs DATE 4/5/91

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

DEC100FM

MSD 038578

NOTIFICATION PURSUANT TO 40 CFR 403.12
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME ST LOUIS UNIVERSITY HOSPITAL - HEMOSTASIS LAB
FACILITY ADDRESS 3635 VISTA BLVD., ST LOUIS MO 63110
CONTACT PERSON JERI BENNETT PHONE 8391
TITLE OF CONTACT PERSON HEMOSTASIS SUPERVISOR

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1. COOMASSIE STAIN:			
2. METHANOL		CONT.	3 LBS
3. ACETIC ACID		CONT.	84 LBS
4.			
5.			
6.			

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
1. METHANOL	1/4 LB		3 LBS
2. ACETIC ACID	7 LBS.		84 LBS
3.			
4.			
5.			
6.			

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Environmental Compliance

PART D: CERTIFICATION:

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I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

PRINTED NAME JERI BENNETT SIGNATURE Jeri Bennett
TITLE Hemostasis Supervisor DATE 6/30/94

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

DEC100PM

NOTIFICATION PURSUANT TO 40 CFR 403.12(p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME ST LOUIS UNIVERSITY HOSP MICROBIOLOGY
FACILITY ADDRESS
CONTACT PERSON SUSAN HULL PHONE 577-8281
TITLE OF CONTACT PERSON SUPERVISOR

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	Acetone	U002		
2.	Aniline	U014		
3.	Ethyl Acetate	U112		
4.	Formaldehyde	U121		
5.	Methyl Alcohol	U154		
6.	Phenol	U188		

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Environmental Compliance

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
1.	Acetone	3.1 liter	100%	37 liters
2.	Aniline	0.4 liter	1.2%	4.8 liters
3.	Ethyl Acetate	90 mls	100%	.9 liter
4.	Formaldehyde	600 mls	100%	7.2 liters
5.	Methyl Alcohol	480 mls	100%	5.76 liters
6.	Phenol (mixture in aniline)	0.4 liter (total mixture)	5 PPM	4.8 liters ~~#~~ total for mixture

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

PRINTED NAME SUSAN C HULL SIGNATURE Susan C. Hull
TITLE Supervisor Microbiology DATE ~~6-11-94~~ 6-30-94

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

DEC100PM

MSD 038580

NOTIFICATION PURSUANT TO 40 CFR 403.12(p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME ST. LOUIS UNIV MEDICAL CENTER
FACILITY ADDRESS 3635 VISTA AT GRAND
CONTACT PERSON BETTE STANLEY PHONE 314-577-837
TITLE OF CONTACT PERSON LAB MANAGER

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	ALCOHOL		CONT/BATCH	5720 LITERS
2.	5% HCL + 70% ALCOHOL		" / BATCH	260 LITERS
3.	EA-50 STAIN		" BATCH	260 LITERS
4.	OG-6 STAIN		" BATCH	260 LITERS
5.	GILL - STAIN		" BATCH	260 LITERS
6.	FORMALIN		CONT/BATCH	312 LITERS

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
1.	ALCOHOL	10,812 mL	95%	5720 LITERS
	5% HCL + 70 ALCOHOL	10,500 mL	70%	260 LITERS
2.	EA-50 STAIN	10,500 mL	70%	260 LITERS
	OG-6 STAIN	10,500 mL	70%	260 LITERS
3.	GILL - STAIN	10,500 mL	70%	260 LITERS
	FORMALIN	3120 mL	10%	312 LITERS
4.				
5.				
6.				

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Environmental Compliance

PART D: CERTIFICATION:

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

I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

PRINTED NAME ANITA J. COOLEY SIGNATURE Anita Cooley
TITLE Supervisor - Laboratory DATE 3/27/91

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

DEC100PM

Judi

NOTIFICATION PURSUANT TO 40 CFR 403.12
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME St Louis University Hospital
FACILITY ADDRESS 3635 Vista at Grand Blvd
CONTACT PERSON Judi Behrle PHONE 577-8385
TITLE OF CONTACT PERSON Automated Chemistry Lab

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	Methanol	U154	batch	31
2.				
3.				
4.				
5.				
6.				

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
1.	Methanol	2.6	<1	31
2.				
3.				
4.				
5.				
6.				

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Environmental Compliance

PART D: CERTIFICATION:

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I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

PRINTED NAME Judi Behrle SIGNATURE Judi Behrle
TITLE Automated Chemistry Lab DATE 6-30-94

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

DEC100PM

Anita

NOTIFICATION PURSUANT TO 40 CFR 403.12
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME Saint Louis University Health Sciences Center
FACILITY ADDRESS 3635 Vista at GRAND
CONTACT PERSON Anita Cooley PHONE 577-8377
TITLE OF CONTACT PERSON Superuisor

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	None			
2.				
3.				
4.				
5.				
6.				

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
1.	None			
2.				
3.				
4.				
5.				
6.				

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Environmental Compliance

PART D: CERTIFICATION:

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I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

PRINTED NAME ANITA J Cooley SIGNATURE Anita J Cooley
TITLE DATE

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

DEC100PM

O. Alan

NOTIFICATION PURSUANT TO 40 CFR 403.[illegible](p)
HAZARDOUS WASTES DISCHARGED TO METROPOLITAN ST. LOUIS SEWER DISTRICT

PART A: FACILITY NAME ST. Louis University Hospital
FACILITY ADDRESS 3635 Vista at Grand P.O. 15250
CONTACT PERSON ~~Frances Brock~~ B. STANLEY PHONE 577-8396
TITLE OF CONTACT PERSON ~~Supervisor Special Chemistry Lab~~ FOR SPECIAL CHEM LAB

PART B: If your facility will discharge to the sewer during the next 12 months any quantity of hazardous waste, please complete this part. Use the attached lists from 40 CFR 261 to identify wastes to be included. If you will not discharge any of the wastes on those lists, write "NONE" on line 1 below, complete part D and return the form.

	HAZARDOUS WASTE NAME	HAZ WST NUMBER	TYPE OF DISCHARGE (Cont./Batch/Other)	MASS TO BE DISCH. NEXT 12 MO. (lbs)
1.	NONE			
2.				
3.				
4.				
5.				
6.				

PART C: For each hazardous waste listed above in part B, provide the following information to the extent such information is known and readily available to you.

	HAZARDOUS CONSTITUENTS	EST. MASS DISCH./MO. (lbs)	EST. CONC. IN DISCH. (PPM)	EST. MASS TO BE DISCHARGED DURING NEXT 12 MO. (lbs)
1.				
2.				
3.				
4.				
5.				
6.				

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Environmental Compliance

PART D: CERTIFICATION:

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I further certify that the facility named above has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree the company has determined to be economically practical.

PRINTED NAME Frances Brock SIGNATURE ~~Frances Brock~~ Billy Stanley
TITLE Supervisor DATE ~~4-9-91~~ 6-30-91

White: MSD Yellow: MDNR Pink: USEPA Gold: Customer

DEC100PM

MSD 038584

FOR MSD USE ONLY		
*ACCOUNT NUMBER: 41121951		CATEGORY: 1 2 3 4 5 6 9
TA: BP TS: OLDMILL	MPA Reviewer's Initials	10/21-91 Date

METROPOLITAN ST. LOUIS SEWER DISTRICT
DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL USER QUESTIONNAIRE

Note to Signing Official: In accordance with Title 40 of the Code of Federal Regulations Part 403 Section 403.14, information and data provided in this questionnaire which identifies the nature and frequency of discharge shall be available to the public without restriction. Requests for confidential treatment of other information shall be governed by procedures specified in 40 CFR Part 2. Should a discharge permit be required for your facility, the information in this questionnaire will be used to issue the permit.

SECTION A - GENERAL INFORMATION

1. Company Name: St. Louis University Hospital
2. Mailing Address: 3635 Vista Ave. at Grand Boulevard
   P.O. Box 15250, St. Louis, MO Zip Code 63110-0250
3. Premise Address: 1315-1341 S. Grand Blvd.
   St. Louis, MO Zip Code 63104
4. Person Authorized to Sign Reporting Documents:
   Name and Title: Gary Rauschenbach, Director Building Services
   Tel. No. (314) 577-8070
5. Check one: [x] Existing Discharge
   [ ] Proposed Discharge If proposed, indicate the discharge start date: _____
6. Shift Information:
   a. Number of shifts per work day: 3 and work days per week: 7
   b. Average number of employees per shift: 1st 1784 2nd 596 3rd 594 Total: 2974
   c. Shift start times: 1st 7:00 a.m. 2nd 3:00 p.m. 3rd 11:00 p.m.

SECTION B - PRODUCT OR SERVICE INFORMATION

1. Briefly describe the primary manufacturing or service activities at the premise address and list the applicable SIC number for each activity:

PRIMARY ACTIVITIES	SIC NUMBER
a. Acute patient care - level 1 trauma	
b.	
c.	
d.	

Company Name: St[redacted]is University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION B - PRODUCT OR SERVICE INFORMATION (Cont'd)

2. Are primary activities generally batch or continuous processes? [] batch [■] continuous
3. Principal raw materials used: N/A
4. Principal products produced: N/A
5. Check all activities which are conducted at your premise in addition to the primary activities described in B.1. Indicate the SIC number, if known. Do not check activities which are already included in B.1.

	SIC NO.		SIC NO.
[] Adhesive & Sealants Mfg.		[] Mineral Mining & Processing	
[] Aluminum Forming		[] Nonferrous Metals Forming	
[] Asbestos Mfg.		[] Nonferrous Metals Mfg	
[] Battery Mfg.		[] Organic Chem., Plastics & Synthetic Fibers Mfg	
[] Builder's Paper and Roofing Felt Mfg.		[] Paint Formulating	
[] Carbon Black Mfg.		[] Painting, Finishing or Paint Stripping	
[] Cement Mfg.		[] Parts Washing	
[] Coil Coating		[] Paving and Roofing Materials	
[] Copper Forming		[] Pesticide Chem., Mfg., Formulating, Packaging	
[] Dairy Products Processing		[] Petroleum Refining	
[] Drum Reconditioning		[] Pharmaceutical Mfg	
[] Electrical and Electronic Components		[] Phosphate Mfg	
[] Electroplating		[■] Photographic Processing	
[] Explosives Mfg.		[] Plastic Molding and Forming	
[] Feedlots		[] Porcelain Enameling	
[] Ferroalloy Mfg.		[] Printing & Publishing	
[] Fertilizer Mfg.		[] Pulp, Paper & Paperboard Mfg	
[] Food Preparation		[] Q. C. Laboratory	
[] Fruits and Vegetable Processing		[X] R. & D. Laboratory	
[] General Offices		[] Radioactive Materials Processing	
[] Glass Mfg.		[] Repair Shop, Garage	
[] Grain Milling		[] Rubber & Rubber Prod. Mfg.	
[] Gum & Wood Chemical Mfg.		[] Seafood Processing	
[] Hazardous Waste Treatment, Storage or Disposal		[] Soap and Detergent Mfg.	
[] Health Care & Hospital		[] Solvent Recycling	
[] Industrial Laundry		[] Steam Electric Power Generation	
[] Ink Formulating		[] Sugar Processing	
[] Inorganic Chemicals Mfg.		[] Textile Mills	
[] Iron and Steel Mfg.		[] Timber Products Mfg.	
[] Leather Tanning and Finishing		[] Transportation Equipment Cleaning	
[] Machine Shop		[] Transportation Services	
[] Machinery Mfg. or Rebuilding		[] Used Oil Reclamation	
[] Meat Processing		[] Vehicle/equipment Washing	
[] Metal Finishing		[] Warehousing	
[] Metal Molding and Casting		[] Waste Recycling	
		[] Others _____	

6. Are your processes subject to seasonal variation? [] Yes [■] No
If "Yes," explain and indicate the month(s) of peak activity. _____

Company Name: St. [redacted]is University Hospital
Premise Address: 131[redacted]341 S. Grand Blvd.
Account Number: 4112195100

SECTION C - WATER CONSUMPTION AND WASTEWATER DISCHARGES

1. Raw Water Source(s):
   - [x] City of St. Louis Water Div.
   - [ ] St. Louis Co. Water Co.
   - [ ] Other Municipal Source: _____
   - [ ] Hauled by Contractor
   - [ ] Surface Water
   - [ ] Private Well
   - [ ] Other (describe) _____

2. Water Bill Addressee: Desloge Hosp, 3635 Vista at Grand, P.O. Box 15250, St. Louis, MO 63110-0250

3. Water Service Account Numbers: 405129-226358

4. List past twelve months water usage from: [x] Water Bill [ ] Other Sources

				Water Bill	Other Sources
a. 1st quarter	7/20 ~~EKKKK~~ 1990	through	10/23 1990	29,177/39.0 Ccf	_____ Ccf
b. 2nd quarter	10/23 1990	through	2/23 1991	26,965/36.0 Ccf	_____ Ccf
c. 3rd quarter	2/23 1991	through	4/25 1991	25,868/34.6 Ccf	_____ Ccf
d. 4th quarter	4/25 1991	through	7/31 1991	34,973/46.8 Ccf	_____ Ccf

5. Describe any treatment or conditioning process performed on the raw water before use:
   Zeolite Water Softener
   Cooling Tower treatment ENTEC 551, ENTEC 368

6. List water uses within your facility:

Type of Usage	Estimated Avg Usage (Gallons Per Day)	Type of Usage	Estimated Avg Usage (Gallons Per Day)
a. Sanitary	206,409 Gal/Day	e. Process	118,588 ~~21,320~~ Gal/day
b. Irrigation & Lawn Watering	5,000 Gal/Day	f. Plant and equip. washdown	N/A
c. Non-contact cooling water	N/A	g. Boiler Feed	49,092 ~~24,212~~ Gal/day
d. Contact cooling water (Cooling Tower) makeup	48,061 Gal/Day	h. Other: _____	
		i. Total a through h:	~~402,270~~ 427,150

7. List water losses and wastewater discharges from your facility:

Type of Discharge	Estimated Avg Discharge (Gallons Per Day)	Type of Discharge	Estimated Avg Discharge (Gallons Per Day)
a. Municipal Sewer	324,997	d. Evaporation	97,153 gal/Day
b. Watercourse, storm drain, ground	5,000	e. Contained in product	N/A
c. Haulers	N/A	f. Total a through e:	427,150

Total at 7f must equal total at 6i.

8. List average water usage and average wastewater discharge for each activity listed in Section B.1 and B.5. Attach additional sheets if needed.

Item No.	Activity	Type of Discharge: Cont.	Type of Discharge: Batch	Avg Use (GPD)	Avg Discharge (GPD)	Date When Discharge First Commenced (if known)
	Acute patient care	[x]	[ ]	206,409	206,409	
	Photographic Processing	[x]	[ ]	21,320	21,320	
	R&D Laboratory	[x]	[ ]	unknown	unknown	
		[ ]	[ ]			
		[ ]	[ ]			

Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION D - SEWER CONNECTION INFORMATION

1. Attach a scale drawing of your premise which shows:
   a. All buildings, alleys, streets and other pertinent structures;
   b. All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
   c. Identify a sampling point for each connection to the public sewer.
   d. Identify a sampling point for each discharge from a federally regulated categorical process.
   e. Identify a sampling point for each discharge to a separate storm sewer or water course.
2. List each sampling point identified in D.1 c, d, and e above. Also include each connection for which there is no sampling point. Assign a sequential reference number to each point, starting with No. 1. Attach additional sheets, if necessary.

Reference Number	Sewer Size (inch)	Description of sewer sampling point or connection	Total Average Flow (GPD)
1	15		191299
2	15		133698
3			
4			
5			

SECTION E - WASTEWATER INFORMATION

1. If you listed water usage quantities only for items 6a through c, in Section C.6, you may skip this section. Otherwise, you must complete this section for all water usage listed in Section C.6. Attach additional sheets if necessary.

	Type Wastewater	Discharge Quantity (GPD) for each sampling point or connection 1	2	3	4	5	Facility Total
a.	Sanitary	103205	103204				206409
b.	Irrigation & Lawn Watering						
c.	Non-Contact Cooling Water						
d.	Contact Cooling Water	8508	0				8508
e.	Process (From C.5)	30494	30494				60988
f.	Plant & Equip. Washdown						
g.	Boiler Blowdown	49092	0				49092
h.	Other ( )						
	Regeneration Waste (C.5)						
	Total (Same as D.2)	191,299	133698				324997

2. If any of the above points discharge to a watercourse or a separate storm sewer, complete the following:

NPDES Outfall Number					
NPDES Permit Number					

3. Do any of the above points also convey stormwater from your premise ?

■ Yes ☐ No	■ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

Company Name: S[redacted]ouis University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION D - SEWER CONNECTION INFORMATION

1. Attach a scale drawing of your premise which shows:
   a. All buildings, alleys, streets and other pertinent structures;
   b. All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
   c. Identify a sampling point for each connection to the public sewer.
   d. Identify a sampling point for each discharge from a federally regulated categorical process.
   e. Identify a sampling point for each discharge to a separate storm sewer or water course.
2. List each sampling point identified in D.1 c, d, and e above. Also include each connection for which there is no sampling point. Assign a sequential reference number to each point, starting with No. 1. Attach additional sheets, if necessary.

Reference Number	Sewer Size (inch)	Description of sewer sampling point or connection	Total Average Flow (GPD)
1			
2			
3			
4			
5			

SECTION E - WASTEWATER INFORMATION

1. If you listed water usage quantities only for items 6a through c, in Section C.6, you may skip this section. Otherwise, you must complete this section for all water usage listed in Section C.6. Attach additional sheets if necessary.

	Type Wastewater	Discharge Quantity (GPD) for each sampling point or connection					
		1	2	3	4	5	Facility Total
a.	Sanitary						
b.	Irrigation & Lawn Watering						
c.	Non-Contact Cooling Water						
d.	Contact Cooling Water						
e.	Process (From C.8)						
f.	Plant & Equip. Washdown						
g.	Boiler Blowdown						
h.	Other ( )						
	Regeneration Waste (C.5)						
	Total (Same as D.2)						

2. If any of the above points discharge to a watercourse or a separate storm sewer, complete the following:

NPDES Outfall Number					
NPDES Permit Number					

3. Do any of the above points also convey stormwater from your premise ?

▯ Yes ▯ No	▯ Yes ▯ No	▯ Yes ▯ No	▯ Yes ▯ No	▯ Yes ▯ No

4. Do you pretreat any of the wastes discharged through any of the above points?

▯ Yes ▯ No	▯ Yes ▯ No	▯ Yes ▯ No	▯ Yes ▯ No	▯ Yes ▯ No

Company Name: S[redacted]uis University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION E - WASTEWATER INFORMATION (Cont'd)

5. Describe the type of wastewater pretreatment you employ prior to each point for which you marked "Yes" in D.4:

Point No.	Pretreatment System Description

6. Does your facility have:

a. A spill control plan? ■ Yes ☐ No
b. A waste minimization plan? ☐ Yes ■ No
c. A solvent management plan? ☐ Yes ■ No
d. A slug discharge plan? ☐ Yes ■ No.

7. If any wastewater analysis has been performed on the wastewater discharges from your facility attach a copy of the most recent data. Be sure to specify the locations from which the samples were collected. Attach sketches, plans, drawings, etc. as necessary.

8. Priority Pollutant Information: Check the appropriate box by each listed chemical whether it is "Suspected Absent", "Known Absent", "Suspected Present", or "Known Present" on your premise, used in your manufacturing or service activity or generated as a by-product. Some pollutants are known by other names. Refer to the instruction booklet for those pollutants which have an asterisk (*). (See Attachment)

SA = "Suspected Absent" KA = "Known Absent" SP = "Suspected Present" KP = "Known Present"

ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP	ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP
1.	asbestos (fibrous)	☐	☐	☐	☐	39.	bromoform*	☐	☐	☐	☐
2.	cyanide (total)	☐	☐	☐	☐	40.	bromomethane*	☐	☐	☐	☐
3.	antimony (total)	☐	☐	☐	☐	41.	4-bromophenylphenyl ether	☐	☐	☐	☐
4.	arsenic (total)	☐	☐	☐	☐	42.	butylbenzyl phthalate	☐	☐	☐	☐
5.	beryllium (total)	☐	☐	☐	☐	43.	carbon tetrachloride*	☐	☐	☐	☐
6.	cadmium (total)	☐	☐	☐	☐	44.	chlordane	☐	☐	☐	☐
7.	chromium (total)	☐	☐	☐	☐	45.	4-chloro-3-methylphenol*	☐	☐	☐	☐
8.	copper (total)	☐	☐	☐	☐	46.	chlorobenzene	☐	☐	☐	☐
9.	lead (total)	☐	☐	☐	☐	47.	chlorethane*	☐	☐	☐	☐
10.	mercury (total)	☐	☐	☐	☐	48.	2-chloroethylvinyl ether	☐	☐	☐	☐
11.	nickel (total)	☐	☐	☐	☐	49.	chloroform*	☐	☐	☐	☐
12.	selenium (total)	☐	☐	☐	☐	50.	chloromethane*	☐	☐	☐	☐
13.	silver (total	☐	☐	☐	☐	51.	2-chloronaphthalene	☐	☐	☐	☐
14.	thallium (total)	☐	☐	☐	☐	52.	2-chlorophenol*	☐	☐	☐	☐
15.	zinc (total)	☐	☐	☐	☐	53.	4-chlorophenylphenyl ether	☐	☐	☐	☐
16.	acenaphthene	☐	☐	☐	☐	54.	chrysene*	☐	☐	☐	☐
17.	acenaphthylene	☐	☐	☐	☐	55.	4,4'-DDD*	☐	☐	☐	☐
18.	acrolein	☐	☐	☐	☐	56.	4,4'-DDE*	☐	☐	☐	☐
19.	acrylonitrile	☐	☐	☐	☐	57.	4,4'-DDT*	☐	☐	☐	☐
20.	aldrin	☐	☐	☐	☐	58.	dibenzo (a,h) anthracene*	☐	☐	☐	☐
21.	anthracene	☐	☐	☐	☐	59.	dibromochloromethane*	☐	☐	☐	☐
22.	benzene	☐	☐	☐	☐	60.	1,2-dichlorobenzene*	☐	☐	☐	☐
23.	benzidine	☐	☐	☐	☐	61.	1,3-dichlorobenzene*	☐	☐	☐	☐
24.	benzo (a) anthracene*	☐	☐	☐	☐	62.	1,4-dichlorobenzene*	☐	☐	☐	☐
25.	benzo (a) pyrene	☐	☐	☐	☐	63.	3,3'-dichlorobenzidine	☐	☐	☐	☐
26.	benzo (b) fluoranthene	☐	☐	☐	☐	64.	Reserved	☐	☐	☐	☐
27.	benzo (g,h,i) perylene*	☐	☐	☐	☐	65.	1,1-dichloroethane*	☐	☐	☐	☐
28.	benzo (k) fluoranthene*	☐	☐	☐	☐	66.	1,2-dichloroethane*	☐	☐	☐	☐
29.	alpha-BHC	☐	☐	☐	☐	67.	1,1-dichloroethene*	☐	☐	☐	☐
30.	beta-BHC	☐	☐	☐	☐	68.	trans-1,2-dichloroethene*	☐	☐	☐	☐
31.	delta-BHC	☐	☐	☐	☐	69.	2,4-dichlorophenol	☐	☐	☐	☐
32.	gamma-BHC*	☐	☐	☐	☐	70.	1,2-dichloropropane*	☐	☐	☐	☐
33.	bis (2-chloroethyl) ether*	☐	☐	☐	☐	71.	(cis & trans) 1,3-dichloropropene*	☐	☐	☐	☐
34.	bis (2-chloroethoxy) methane*	☐	☐	☐	☐	72.	dieldrin	☐	☐	☐	☐
35.	bis (2-chloroisopropyl) ether*	☐	☐	☐	☐	73.	diethyl phthalate*	☐	☐	☐	☐
36.	Reserved	☐	☐	☐	☐	74.	2,4-dimethylphenol*	☐	☐	☐	☐
37.	bis (2-ethylhexyl) phthalate	☐	☐	☐	☐	75.	dimethyl phthalate	☐	☐	☐	☐
38.	bromodichloromethane*	☐	☐	☐	☐	76.	di-n-butyl phthalate	☐	☐	☐	☐

Continued on Page 6

Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION E - WASTEWATER INFORMATION (Cont'd)

Priority Pollutant Information (Cont'd)

SA = "Suspected Absent" KA = "Known Absent" SP = "Suspected Present" KP = "Known Present"

ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP	ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP
77.	di-n-octyl phthalate*	☐	☐	☐	☐	103.	4-nitrophenol*	☐	☐	☐	☐
78.	4,6-dinitro-2-methylphenol*	☐	☐	☐	☐	104.	N-nitrosodimethylamine*	☐	☐	☐	☐
79.	2,4-dinitrophenol	☐	☐	☐	☐	105.	N-nitrosodi-n-propylamine*	☐	☐	☐	☐
80.	2,4-dinitrotoluene	☐	☐	☐	☐	106.	N-nitrosodiphenylamine	☐	☐	☐	☐
81.	2,6-dinitrotoluene	☐	☐	☐	☐	107.	PCB-1016*	☐	☐	☐	☐
82.	1,2-diphenylhydrazine*	☐	☐	☐	☐	108.	PCB-1221*	☐	☐	☐	☐
83.	endosulfan I*	☐	☐	☐	☐	109.	PCB-1232	☐	☐	☐	☐
84.	endosulfan II*	☐	☐	☐	☐	110.	PCB-1242*	☐	☐	☐	☐
85.	endosulfan sulfate	☐	☐	☐	☐	111.	PCB-1248*	☐	☐	☐	☐
86.	endrin	☐	☐	☐	☐	112.	PCB-1254*	☐	☐	☐	☐
87.	endrin aldehyde	☐	☐	☐	☐	113.	PCB-1260*	☐	☐	☐	☐
88.	ethylbenzene	☐	☐	☐	☐	114.	pentachlorophenol	☐	☐	☐	☐
89.	fluoranthene	☐	☐	☐	☐	115.	phenanthrene	☐	☐	☐	☐
90.	fluorene*	☐	☐	☐	☐	116.	phenol	☐	☐	☐	☐
91.	heptachlor	☐	☐	☐	☐	117.	pyrene	☐	☐	☐	☐
92.	heptachlor epoxide	☐	☐	☐	☐	118.	2,3,7,8-tetrachlorodibenzo-p-dioxin*	☐	☐	☐	☐
93.	hexachlorobenzene*	☐	☐	☐	☐	119.	1,1,2,2-tetrachloroethane*	☐	☐	☐	☐
94.	hexachlorobutadiene	☐	☐	☐	☐	120.	tetrachloroethene*	☐	☐	☐	☐
95.	hexachlorocyclopentadiene*	☐	☐	☐	☐	121.	toluene*	☐	☐	☐	☐
96.	hexachloroethane*	☐	☐	☐	☐	122.	toxaphene	☐	☐	☐	☐
97.	indeno (1,2,3-cd) pyrene*	☐	☐	☐	☐	123.	1,2,4-trichlorobenzene	☐	☐	☐	☐
98.	isophorone*	☐	☐	☐	☐	124.	1,1,1-trichloroethane*	☐	☐	☐	☐
99.	methylene chloride*	☐	☐	☐	☐	125.	1,1,2-trichloroethane*	☐	☐	☐	☐
100.	naphthalene	☐	☐	☐	☐	126.	trichloroethene*	☐	☐	☐	☐
101.	nitrobenzene	☐	☐	☐	☐	127.	Reserved	☐	☐	☐	☐
102.	2-nitrophenol	☐	☐	☐	☐	128.	2,4,6-trichlorophenol	☐	☐	☐	☐
						129.	vinyl chloride	☐	☐	☐	☐

9. For priority pollutants in E.8 which are indicated "Known Present," list and provide the following data for each: (attach additional sheets if needed.)

ITEM NO.	PRIORITY POLLUTANT	ANNUAL USAGE (LBS)	LOSS TO SEWER (LBS/YEAR)

Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION F - NON-SEWERED WASTES

1. Do you generate any liquid wastes or sludges which are not disposed in the sewer system? ☐ Yes ■ No
If "Yes" complete items 2 and 3 below. If "No," skip remainder of this section. Note: Be sure to include wastewaters listed in Section C.7c.

2. Information on non-sewered waste:

Type of Waste	Estimated Quantity Disposed/yr	Units	Store on-site	Dispose on-site	Dispose off-site
☐ Acids and/or Alkalies			☐	☐	☐
☐ Equip. Oils and/or Grease			☐	☐	☐
■ Infectious Waste	~~212,000~~	lbs	☐	■	☐
☐ Inks/Dyes			☐	☐	☐
☐ Kitchen/Food Service Grease			☐	☐	☐
☐ Organic Compounds			☐	☐	☐
☐ Paints or Paint Sludes			☐	☐	☐
☐ Pesticides			☐	☐	☐
☐ Pretreatment Sludges			☐	☐	☐
☐ Radioactive Waste			☐	☐	☐
☐ Solvents/Thinners			☐	☐	☐
☐ Other _____			☐	☐	☐
			☐	☐	☐
			☐	☐	☐

3. List your USEPA and/or MDNR Hazardous Waste Generator numbers:
USEPA_____ MDNR_____

SECTION G - INDUSTRIAL WASTE SURCHARGE INFORMATION

1. The following analytical information is required for each sampling point or each connection to the public sewer (see D.1.c), only if your water usage exceeds 80 Ccf per month. Representative samples of the wastewaters in each sewer must be collected and analyzed for the listed parameters. Concentrations are to be reported in mg/l (ppm).

Sewer Number (Refer to Section D.2)
(If more than 5 connections, attach additional sheets)

Daily Average Concentration For Each Sampling Point or Connection

Parameter (mg/l)	1	2	3	4	5
Total Solids					
Total Suspended Solids					
Biochemical Oxygen Demand$_5$					
Chemical Oxygen Demand					
Flow (gpd)					

Company Name: St. Louis University Hospital
Premise Address: 1315-1341 S. Grand Blvd.
Account Number: 4112195100

SECTION G - INDUSTRIAL WASTE (Cont'd)

2. Sample handling information: Organization Name and Address

   a. Samples collected by: _____

   b. Samples analyzed by: _____

SECTION H - CERTIFICATION AND SIGNATURE

1. The following individual may be contacted regarding the information contained in this questionnaire:

   Name and title of contact person: Gary Rauschenbach, Director Building Services

   Tel No. (314) 577-8070

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

   Name and title of signing official: Gary Rauschenbach, Director Building Services

   Tel No. (314) 577-8070

   Signature Gary Rauschenbach Date 10-16-91

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL WASTE DIVISION
SMALL USER QUESTIONNAIRE

K.M.

RECEIVED
1983
IND. WASTE DIV.
BISSELL POINT

FOR MSD USE ONLY	
ACCOUNT NUMBER: 4112-1951	CATEGORY: 1☐ 2☐ 3☐ 4☑ 5☐ 6☐
TA: B	
TS: O/M	Reviewer's Initials: Pw Date: 7/4/83

SECTION A. — GENERAL INFORMATION

1. **Company Name:** St. Louis University Hospitals (Firmin Desloge Hosp.)
2. **Mailing Address:** 1325 South Grand Blvd.
   St. Louis, Missouri Zip Code: 63104
3. **Premise Address:** Same as above
   Zip Code:
4. **Person to Contact Concerning Information Provided Herein:**
   Name and Title: Carl Brand, Director, Building Services
   Telephone No.: (314) ~~771-7600~~ 577-8000, ext ~~3359~~ ~~8870~~ 3357

SECTION B. — PRODUCT OR SERVICE INFORMATION

1. **Brief narrative description of the primary manufacturing or service activity at premise address and the applicable Standard Industrial Classification Code(s) (SIC No.):** Hospital (Patient Care)
   SIC No(s).: 8062
2. **Principal Raw Materials Used:** N/A
3. **Principal Products Produced:** N/A
4. **Check all applicable activities at your premise and indicate SIC NO(s), if known.**

	SIC Number		SIC Number
☐ Electroplating	( )	☐ Photographic Processing	( )
☐ Flammables, Explosives	( )	☐ Plastics Processing	( )
☒ Food Preparation Service	( )	☐ Printing	( )
☒ Laboratory	( )	☐ Repair Shop, Garage	( )
☐ Laundry, Cleaning	( )	☒ Research	( )
☐ Machine Shop	( )	☐ Rubber Processing	( )
☒ Medical Care	( )	☒ Steam/Power Generation	( )
☐ Painting, Finishing	( )	☐ Warehousing	( )
☐ Paint or Ink Formulation	( )	☐ Other (specify)	
			( )
			( )

64-141 W.W.

Company Name: Firmin Desloge Hospital
Premise Address: 1325 S. Grand Blvd.

SECTION C. — WATER CONSUMPTION

1. **6 - month water consumption:** 48,729 Ccf; MSD account no. MSD04175101-1

2. **Raw water source(s):**
   ☒ City of St. Louis Water Division ☐ St. Louis County Water Co. ☐ Other _____

3. **Shift Information:** workdays/wk 365; shifts/day 7; total employees 1,035.

4. **List water consumption within the plant:** Avg. 199,722

	Type	Estimated Average Volume (gallons per day)		Type	Estimated Average Volume (gallons per day)
a.	cooling water	7,500	e.	plant & equipment washdown	2,000
b.	boiler feed	17,065	f.	irrigation & lawn watering	5,000
c.	process	N/A	g.	other (specify):	
d.	sanitary	83,116	h.	**total of a. through g.**	114,681

SECTION D. — OTHER WASTES

1. **Are any liquid wastes or sludges generated and not disposed of in the sewer system?** ☒ Yes ☐ No
   If "no", skip remainder of Section D.
   If "yes", complete item 2 below.

2. **These wastes may best be described as:**

	Estimated Gallons or Pounds/Year
☐ Acids and Alkalies	
☐ Heavy Metal Sludges	
☐ Inks/Dyes	
☐ Oil and/or Grease	
☒ Organic Compounds	165 gallons TOLUENE & XYLENE
☐ Paints	
☐ Pesticides	
☐ Plating Wastes	
☐ Pretreatment Sludges	
☐ Solvents/Thinners	
☐ Other Hazardous Wastes (Specify)	
☐ Other Wastes (Specify)	

SECTION E. — SEWER INFORMATION

1. Attach a scaled drawing or your plant site showing the location of all sewers. Show location of possible sampling points for these sewers. For reference and field orientation, buildings, streets, alleys, and other pertinent physical structures should be included. Also provide brief process flow diagram.

Company Name: Firmin Desloge
Premise Address: 1325 S. Grand Blvd.

Section E. — Sewer Information (Cont'd)

2. List plant sewers shown in item 1, size and flow; assign sequential reference number to each sewer starting with No. 1 (if more than 3, attach additional connection information on another sheet):

Reference Number	Sewer Size (inches)	Descriptive Location of Sewer Connection or Discharge Point	Estimated Flow (gpd)
1.	12"	See attached drawing	83,116
2.	15"	See attached drawing	83,116
3.			

Combined

SECTION F. — INDUSTRIAL WASTE SURCHARGE INFORMATION

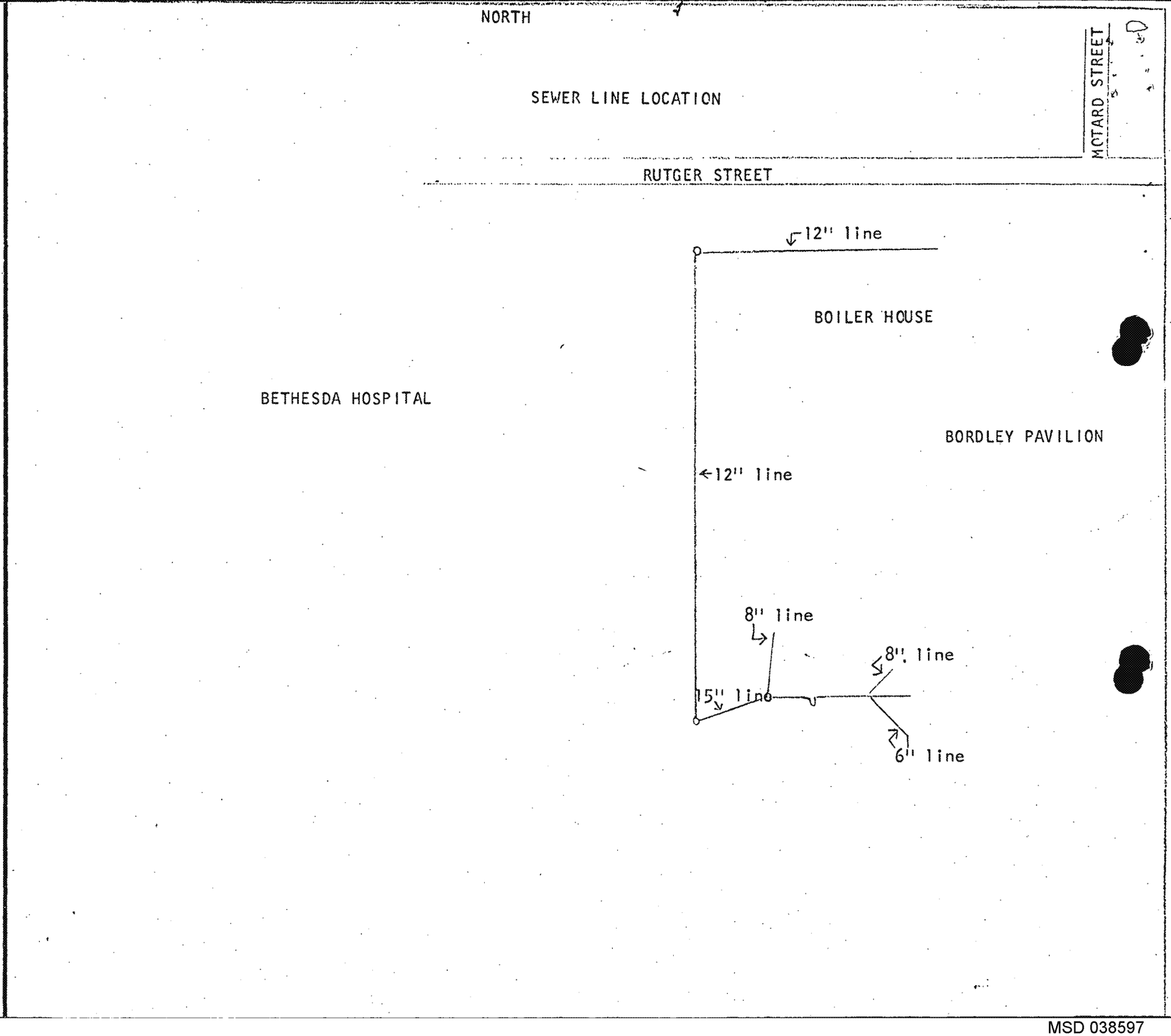
1. The following analytical information is required for each sewer listed in Section E, Item 2 which contains industrial wastes. Representative samples of the wastewaters in each sewer will have to be collected and analyzed for the listed parameters. Concentrations are to be reported in mg/l (ppm).

	Sewer Number (refer to Section E, item 2)					
	1		2		3	
Parameter (mg/l)	Maximum	Average	Maximum	Average	Maximum	Average
	(if more than 3 connections, attach additional sheets)					
Suspended Solids						
Total Solids						
Biochemical Oxygen Demand						
Chemical Oxygen Demand						
Grease and Oil						
Amount of Flow (gpd)						

2. **Sample handling information:**

	Organization
a. **Samples collected by:**	Please provide additional guidance
b. **Samples analyzed by:**	

64-141 W.W.


NORTH
SEWER LINE LOCATION
MOTARD STREET
RUTGER STREET
12" line
BOILER HOUSE
BETHESDA HOSPITAL
BORDLEY PAVILION
12" line
8" line
8" line
15" line
6" line

METROPOLITAN ST. LOUIS SEWER DISTRICT

Industrial Waste Surcharge Questionnaire B/MLO 4112-1951

Note to signing Official: Make sure all blanks in Sections A thru E are filled in. Information required in Section F depends on SIC Code. Attach additional sheets keyed to Section and Item Number if needed to provide complete information. All information contained in this questionnaire will be treated as confidential. Signing official must have authorization to provide such information on behalf of the company, corporation, partnership, or proprietorship. THIS DOCUMENT REQUIRES NO FILING FEE.

SECTION A. GENERAL INFORMATION

1. Company name St. Louis U. Hospital (Desloge Hospital)
2. Mailing address 1325 S. Grand St. Louis, Mo. Zip Code 63104
3. Premise address Same Zip Code 63104
4. Name and title of signing official: Humphries Richard, Director of Bldg. Service
5. Name, title, address and telephone number of person to contact concerning information provided in this questionnaire:
   Name: Humphries, Richard Title: Director of Bldg. Service
   Address: 1325 S. Grand Tele. No.: 771-7600 X249

The information contained in this questionnaire is familiar to me and to the best of my knowledge and belief, such information is true, complete and accurate.

2-25-74 Richard Humphries
Date Signature of Official (Seal if applicable)

SECTION B. PRODUCT OR SERVICE INFORMATION

	For MSD use only
1. Brief narrative description of manufacturing or service activity at premise address: Hospital Providing general and Surgical Services for Patients. This includes necessary X-Ray and Diagnostic Laboratory Services	
2. Principal Raw Materials Used: City Water	
3. Principal Products or Service: Health Care	
4. Standard Industrial Classification Code (SIC) 8061	8061
5. What potentially hazardous substances are handled at your plant? None	8061

SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. Are major processes batch or continuous? Continuous
   Average number of batches per 24 hr. day: No Batch Processes
2. Are your processes subject to seasonal variation? Yes - During Holiday Periods
   If yes, explain indicating month(s) of peak operation and products:
3. Shift Information: a. number of shifts per work day 3
   b. number of work days per week 7
   c. average number of Employees per shift:
   1st. 500 2nd. 100 3rd. 100 Total 935
   Average of 235 Patients Per Day
   d. shift start times:
   1st. 7-3:30 2nd. 3:30-11:00 3rd. 11-7
4. Describe any wastewater treatment equipment or processes in use: None
5. Describe any raw water treatment processes utilized: Water Softeners For Boiler Feedwater System & Domestic Hot Water
6. Describe any water recycling processes utilized: Condensate Return For Boilers

	935

MSD Form – IWSUR1

For MSD use only

SECTION D. **WATER CONSUMPTION AND LOSS**

1. Raw water source (city, county, other explain): City of St. Louis

2. List past twelve months water usage from water bills: 213656
   a. 1st 6 month period, 19 73 — 51,986 Ccf
   b. 2nd 6 month period, 19 72 — 56,451 Ccf — 232007
   c. Volume from other sources: 0 gallons per day.

222831

3. List water consumption within the plant: 0

Type	Estimated Average Volume (gallons per day)
a. cooling water	2000 ~~0~~
b. boiler feed	11,000 ~~0~~ ~~11,000 Gal./Day~~
c. process	92,956 ~~0~~
d. sanitary system	125 gals. 935 employees/day
e. other (Air Conditioning)	~~2000 Gal./Day Av.~~

222831

4. List average volume of discharge or water losses to: 222831

Outlet	Estimated Average Discharge (gallons per day)
a. municipal sewer	211,831
b. natural	0
c. waste haulers	0
d. evaporation	11,000 ~~0~~
e. contained in product	0

211831
RF 0.95

222831

SECTION E. **SEWER CONNECTION AND DISCHARGE INFORMATION**

1. List plant sewer outlets, size and flow: (assign sequential reference number to each sewer starting with No. 1).

Reference No.	Sewer Size (inches)	Descriptive location of sewer connection or discharge point	Avg. flow (GPD)
1	15"	Manhole Located in Driveway West of Boiler House. See Attached Dwg.	211,831 ~~205,586~~

S 211831
O 0

2. Attach a "to scale" drawing of plant area on 8-1/2" x 11" sheet showing location of sewers, as described in item E-1 above, and their connection or discharge point outside plant property. (show plant buildings, streets, alleys, streams, and sampling points.)

MSD Form — IWSUR2

SECTION F. **WASTEWATER ANALYSIS AND SAMPLING LOCATION**
(one sheet for each discharge: Sheet No.____ of____)

211,831

1. Sewer reference number and average flow from Section E, 1:
   Ref. No. 1 Average Flow (GPD) ~~205,586~~
2. Drawing (to scale) showing sewer discharge point and sampling location, e.g., manhole where samples collected:

See Attached Dwg.

3. Analytical Data: (Concentrations are to be reported in mg/l (ppm) unless specified otherwise)

See Attached Report

Report to the nearest unit: X. PARAMETER	CONCENTRATION Max.	Avg.	Report to the nearest tenth: 0.X PARAMETER	CONCENTRATION Max.	Avg.	Report to the nearest hundredth: 0.XX PARAMETER	CONCENTRATION Max.	Avg.
Color (PCU)			Sulfite			Phenol	.026	.01
Beta Radioactivity (PC/l)			Sulfide			Mercury		
Conductance (μmhos/cm)			Surfactant (MBAS)			Arsenic		
Alkalinity as $CaCo_3$	71	51	Chlorinated Hydrocarbons			Barium		
Acidity as $CaCO_3$	912	26	Pesticides			Cadmium		
Total Solids	4455	408	pH (std. U) (Minimum 6.5)	9.7	7.1	Total Chromium		
Suspended Solids	50	9	Kjeldahl Nitrogen as N			Hex Chromium		
Volatile Suspended Solids			Ammonia as N			Copper		
Grease			Nitrate as N			Iron		
Biochemical Oxygen Demand	53	14	Nitrite as N			Lead		
Chemical Oxygen Demand	340	248	Total Phosphate as P			Nickel		
Total Organic Carbon			Ortho Phosphate as P			Selenium		
Chloride			Fluoride			Silver		
Sulfate			Settleable Solids (ml/l)	5	.7	Zinc		
			Cyanide					

4. Sample handling information:

	Organization
a. Samples collected by:	Anatox Analytical Services Inc.
b. Samples analyzed by:	" " " "

MSD Form – IWSUR3

SAINT LOUIS UNIVERSITY HOSPITALS
1325 South Grand Boulevard
Saint Louis, Missouri 63104
771-7600

Firmin Desloge Hospital
David P. Wohl Memorial Mental Health Institute

November 12, 1973

Mr. Grassmuck
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, Missouri. 63147

Dear Sir:

Attached please find completed forms per your instructions. Hoping these meet with your approval.

If you have any questions, please call me at 771-7600 station 249 or 306.

Sincerely,

Richard Humphries

RH:ak

Richard Humphries
Director of Building Services

Encl.

ANATOX ANALYTICAL SERVICES, INC.
8444 Florissant Road Suite 100
ST. LOUIS, MISSOURI 63121

November 6, 1973

Mr. Humphries
St. Louis University Hospital
1325 S. Grand
St. Louis, Missouri 63104

Report No. 1020

REPORT OF ANALYSIS

Subject: Analysis of water and/or wastewater in accordance with "Standard Methods for the Examination of Water and Wastewater", 13th Edition 1971.

Analysis Required:
Samples of wastewater taken from the manhole and composited according to flow ratios were analyzed for the following parameters in compliance with Metropolitan Sewer District Ordinances.

Analysis	Composite	Maximum	Grab No.
pH	7.1	9.7	14
pH minimum	6.5		7
Acidity as $CaCO_3$	26	912	7
Alkalinity as $CaCO_3$	51	71	4 & 5
Total Solids	408	4455	7
Suspended Solids	9	50	4
Settleable Solids	.7	5	4
Biochemical Oxygen Demand	14	53	4
Chemical Oxygen Demand	248	340	4
Phenol	.01*	.026	4

*Less Than

Values are reported as mg/l with exception of pH given as standard units and settleable solids given as ml/l.

Flow rates were determined during each sampling period by use of water meter readings. The flow rate maximum was determined and an arbitrary value of 200 ml. sample size was assigned. Using this value for a starting point, a composite sample was made from the grab samples by adding a portion of each based on the ratio of the flow rate at the time of sampling to the maximum flow rate.

By inspecting each grab sample and determining where the maximum for each parameter existed, that grab sample was analyzed for the maximum value. Analysis was then performed on the composite sample for the average value.

ANATOX ANALYTICAL SERVICES, INC.
8444 Florissant Road Suite 100
ST. LOUIS, MISSOURI 63121

Grab sample number in which the maximum for a parameter occurred is given in the column to the right of the analytical data.

ANATOX ANALYTICAL SERVICES, INC.

Michael James.
Laboratory Director

MJ/ls

ANATOX ANALYTICAL SERVICES
8444 Florissant Road Lower Level
ST. LOUIS, MISSOURI 63121

INVOICE

№ 1020

INVOICE DATE	SALESMAN
Nov. 6, 1973	Rept. 1020

SHIP TO

Same as Above.

TO St. Louis University Hospital
1325 S. Grand
St. Louis, Missouri 63104
Attn: Mr. Humphries

YOUR ORDER NO.	DATE SHIPPED	SHIPPED VIA	F.O.B. POINT	TERMS
PO#20329				

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
2 each	PH	2 50	5 00
2 each	Acidity	4 75	9 50
2 each	Alkalinity	4 75	9 50
2 each	Total Solids	4 00	8 00
2 each	Suspended Solids	4 25	8 50
2 each	Settleable Solids	3 00	6 00
2 each	Biochemical Oxygen Demand	16 00	32 00
2 each	Chemical Oxygen Demand	6 00	12 00
2 each	Phenol	6 25	12 50
	Total for Analyses		$103 00
	Sampling/Compositing/Flow Analysis		$325 00
	Total Charges		$428 00

ORIGINAL

Thank You

03

METROPOLITAN ST LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET

INDUSTRIAL WASTE PROGRAM JAR010 01 PAGE 1
RUN 12/23/99 TIME 1557
MSD ACCOUNT NUMBER = 41121951-00

WATERSHED DESIGNATION = BOM
TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ¢ST LOUIS UNIVERSITY HOSPITAL
USER MAILING ADDRESS = 3635 VISTA AVE AT GRAND BLVD
ST LOUIS MO -GARY

QUESTIONNAIRE RECEIVED DATE = 7/30/97 REVIEWER = GHD S
PREMISE ADDRESS = 1315-1341 S GRAND BLVD
ST LOUIS MO 63104

ACCOUNT NAME = SAINT LOUIS UNIVERSITY HOSPITAL
ACCOUNT MAILING ADDRESS = 3635 VISTA AVE
P O BOX 15250
SAINT LOUIS MO 63110-0250

FIELD CONTACT = GARY RAUSCHENBAUCH
TITLE = DIR OF BUILDING SERVICES
TELEPHONE = 314-577-8070
SICS = 8062

OFFICE CONTACT =
TITLE =
TELEPHONE =

DAILY SHIFTS = 3
DAYS PER WEEK = 7
EMPLOYEES = 2974

RAW MATERIALS = NONE

PRODUCTS = NONE-GENERAL HOSPITAL SERVICE

INDUSTRIAL CATEGORY = 4 9 PRETREATMENT = WASTE DISPOSAL = Y INSP DATE = 4/22/98 REINSP DATE = 4/22/99 DAB
COMMENTS = CONT-OP SPCCP-NO HW #01742

PERMIT ISSUE DATE = 1/ 1/98 REISSUE DATE = 1/ 1/02

SEWER ACCOUNT NUMBERS = 9009153601

WATER CONSUMPTION (GPD) = 219 687 RETURN FACTOR = 81 WASTEWATER DISCHARGE (GPD) = 177 946 NPDES PERMIT NUMBER =

SURCHARGE BILLING VALUES (MG/L)
SUSPENDED SOLIDS = BIOCHEMICAL OXYGEN DEMAND = CHEMICAL OXYGEN DEMAND = GREASE =

RECERTIFICATION DATE = 8/27/91

SEWER ROUTE = W FROM BLDG TO 39TH ST N

ADJUSTED CATEGORICAL STANDARD INDICATORS =

POTENTIAL POLLUTANTS LBS/YR COMMENTS
GENERAL POLLUTANTS
NONE
PRIORITY POLLUTANTS
NONE
PROHIBITED POLLUTANTS
NONE

---------- SEWER REFERENCE NUMBER 001 ----------

DESCRIPTION = MH IN DRIVEWAY WEST OF LOADING DOCK NPDES OUTFALL NUMBER =

AVERAGE WASTEWATER DISCHARGE (GPD) = 110 326 DISCHARGE FACTOR = 62 SPLIT SAMPLE WITH COMPANY =
ALTERNATIVE CONCENTRATION LIMIT COMMENTS = HOSPITAL WASTE+NCCW+BOILER BLOWDOWN

INDUSTRIAL WASTE PROGRAM JAR010 01
RUN 12/23/99 TIME 1557
MSD ACCOUNT NUMBER = 41121951-00

WATERSHED DESIGNATION = BOM
TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ¢ST LOUIS UNIVERSITY HOSPITAL

LABORATORY ANALYSIS OF WASTEWATER

GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	IND-01 10/ 5/98	IND-02 8/ 6/98	MSD-03 7/16/98 1248	MSD-04 5/29/98 1245
				LOG	LOG	LOG 03252	LOG 02305
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	241	70		
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300				
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	535	205	295	217
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600				
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200	11	L 1		
030 PH ACIDIC (S U) LESS THAN 7 =	_ _	M/I	5 5	6			
031 PH BASIC (S U) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11 5		7	7 8	8 2
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	26 67	29 44	23	30
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	108	68	52	93
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350				
PRIORITY POLLUTANTS (MG/L)							
013 SILVER (TOTAL) =	_ _	AVG	5	378	044	11	L 01
013 SILVER (TOTAL) =	_ _	M/I	1 5				
022 BENZENE =	_ _	M/I					L 01
034 BIS (2-CHLOROETHOXY) METHANE =	_ _	AVG					L 001
049 CHLOROFORM =	_ A	M/I	0016			01	A L 01
073 DIETHYL PHTHALATE =	_ _	AVG					003
076 DI-N-BUTYL PHTHALATE =	_ _	AVG					009
079 2 4 - DINITROPHENOL =	_ _	AVG					L 001
088 ETHYLBENZENE =	_ _	M/I				03	
099 METHYLENE CHLORIDE =	_ A	M/I	0028			L 01	A L 01
116 PHENOL =	_ A	AVG					L 001
116 PHENOL =	_ A	M/I	0015			L 001	
121 TOLUENE =	_ A	M/I	006			L 01	A L 01
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5 52	L 01			

PROHIBITED POLLUTANTS
NONE

LABORATORY ANALYSIS OF WASTEWATER

GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	IND-05 4/16/98	IND-06 1/ 7/98
				LOG	LOG
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	133	171
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300		
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	712	V 496
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600		
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200	5	18
030 PH ACIDIC (S U) LESS THAN 7 =	_ _	M/I	5 5	6	
031 PH BASIC (S U) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11 5		7
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	21 1	20
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	120	157
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350		

INDUSTRIAL WASTE PROGRAM JAR010 01
RUN 12/23/99 TIME 1557
MSD ACCOUNT NUMBER = 41121951-00

WATERSHED DESIGNATION = BOM
TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ¢ST LOUIS UNIVERSITY HOSPITAL

PRIORITY POLLUTANTS (MG/L)					
013 SILVER (TOTAL) =	_ _	AVG	5	035	029
013 SILVER (TOTAL) =	_ _	M/I	1 5		
049 CHLOROFORM =	_ A	M/I	0016		
099 METHYLENE CHLORIDE =	_ A	M/I	0028		
116 PHENOL =	_ A	M/I	0015		
121 TOLUENE =	_ A	M/I	006		
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5 52		
PROHIBITED POLLUTANTS					
NONE					

---------- SEWER REFERENCE NUMBER 002 ----------

DESCRIPTION = MH ON VISTA 15'S OF SIDWLK & 36'E OF ISLAND NPDES OUTFALL NUMBER =

AVERAGE WASTEWATER DISCHARGE (GPD) = 67 619 DISCHARGE FACTOR = 38 SPLIT SAMPLE WITH COMPANY =
ALTERNATIVE CONCENTRATION LIMIT COMMENTS = HOSPITAL WASTE

LABORATORY ANALYSIS OF WASTEWATER

			STANDARD-A	IND-01 10/ 5/98	IND-02 8/ 6/98	MSD-03 7/16/98 1255	MSD-04 5/29/98 1230
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)				LOG	LOG	LOG 03253	LOG 02306
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	191	218		
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300				
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	337	423	350	1820
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600				
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200	21	16		
030 PH ACIDIC (S U) LESS THAN 7 =	_ _	M/I	5 5				
031 PH BASIC (S U) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11 5	7	7	8	8 4
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	26 67	29 44	21	33
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	68	162	122	362
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350				
PRIORITY POLLUTANTS (MG/L)							
013 SILVER (TOTAL) =	_ _	AVG	5	03	076	04	03
013 SILVER (TOTAL) =	_ _	M/I	1 5				
022 BENZENE =	_ _	M/I					L 01
034 BIS (2-CHLOROETHOXY) METHANE =	_ _	AVG					L 001
049 CHLOROFORM =	_ A	M/I	0016			02 A	01
079 2 4 - DINITROPHENOL =	_ _	AVG					L 001
099 METHYLENE CHLORIDE =	_ A	M/I	0028		L	01 A	L 01
116 PHENOL =	_ A	AVG					L 001
116 PHENOL =	_ A	M/I	.0015			008 A	
121 TOLUENE =	_ A	M/I	006		L	01 A	L 01
126 TRICHLOROETHENE =	_ _	M/I					L 01
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5 52	0191			
PROHIBITED POLLUTANTS							
NONE							

INDUSTRIAL WASTE PROGRAM JAR010 01
RUN 12/23/99 TIME 1557
MSD ACCOUNT NUMBER = 41121951-00

WATERSHED DESIGNATION = BOM
TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ¢ST LOUIS UNIVERSITY HOSPITAL

LABORATORY ANALYSIS OF WASTEWATER

			STANDARD-A	IND-Q5 4/16/98 LOG	IND-Q6 1/ 7/98 LOG	
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)						
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	196	445	V
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300			
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	589	850	V
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600			
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200	12	25	
030 PH ACIDIC (S U) LESS THAN 7 =	_ _	M/I	5 5	6		
031 PH BASIC (S U) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11 5		7	
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	18 3	22 7	
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	110	174	
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350			
PRIORITY POLLUTANTS (MG/L)						
013 SILVER (TOTAL) =	_ _	AVG	5	034	024	
013 SILVER (TOTAL) =	_ _	M/I	1 5			
049 CHLOROFORM =	_ A	M/I	0016			
099 METHYLENE CHLORIDE =	_ A	M/I	0028			
116 PHENOL =	_ A	M/I	0015			
121 TOLUENE =	_ A	M/I	006			
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5 52			

PROHIBITED POLLUTANTS
NONE

METROPOLITAN ST LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET

INDUSTRIAL WASTE PROGRAM JAR010.01
RUN 4/14/98 TIME 1102
MSD ACCOUNT NUMBER = 41121951-00

WATERSHED DESIGNATION = BOM
TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL QUESTIONNAIRE RECEIVED DATE = 7/30/97 REVIEWER = GHD
USER MAILING ADDRESS = 3635 VISTA AVE AT GRAND BLVD PREMISE ADDRESS = 1315-1341 S. GRAND BLVD S
ST LOUIS MO -GARY ST LOUIS MO 63104

ACCOUNT NAME = SAINT LOUIS UNIVERSITY HOSPITAL
ACCOUNT MAILING ADDRESS = 3635 VISTA AVE
P.O. BOX 15250
SAINT LOUIS MO 63110-0250

FIELD CONTACT = GARY RAUSCHENBAUCH OFFICE CONTACT -
TITLE = DIR OF BUILDING SERVICES TITLE = DAILY SHIFTS = 3
TELEPHONE = 314-577-8070 TELEPHONE = DAYS PER WEEK = 7
SICS = 8062 EMPLOYEES = 2974

RAW MATERIALS = NONE PRODUCTS = NONE-GENERAL HOSPITAL SERVICE

INDUSTRIAL CATEGORY = 4 3 PRETREATMENT = WASTE DISPOSAL = Y INSP. DATE = 5/14/96 REINSP. DATE = 5/14/97 JAS
COMMENTS = CONT-OP,SPCCP-NO,HW #01742 PERMIT ISSUE DATE = 1/ 1/95 REISSUE DATE = 1/ 1/98

SEWER ACCOUNT NUMBERS = 9009153601

WATER CONSUMPTION (GPD) = 188,947 RETURN FACTOR = .81 WASTEWATER DISCHARGE (GPD) = 153,047 NPDES PERMIT NUMBER =

SURCHARGE BILLING VALUES (MG/L) RECERTIFICATION DATE = 8/27/91
SUSPENDED SOLIDS = BIOCHEMICAL OXYGEN DEMAND = CHEMICAL OXYGEN DEMAND = GREASE =

SEWER ROUTE = W FROM BLDG TO 39TH ST N ADJUSTED CATEGORICAL STANDARD INDICATORS =

POTENTIAL POLLUTANTS LBS/YR COMMENTS
GENERAL POLLUTANTS
NONE
PRIORITY POLLUTANTS
NONE
PROHIBITED POLLUTANTS
NONE

---------- SEWER REFERENCE NUMBER 001 ----------

DESCRIPTION = MH IN DRIVEWAY WEST OF LOADING DOCK NPDES OUTFALL NUMBER =

AVEPAGE WASTEWATER DISCHARGE (GPD) = 94,889 DISCHARGE FACTOR = .62 SPLIT SAMPLE WITH COMPANY =
ALTERNATIVE CONCENTRATION LIMIT COMMENTS = HOSPITAL WASTE+NCCW+BOILER BLOWDOWN

RUN 4/14/98 TIME 1102
MSD ACCOUNT NUMBER = 41121951-00

WATERSHED DESIGNATION = BOM
TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

LABORATORY ANALYSIS OF WASTEWATER				IND-01 10/ 9/97	MSD-02 9/22/97 1150		IND-03 7/11/97	IND-04 5/ 1/97
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG	LOG 03348	LOG		LOG
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	88			108	114
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300					
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	319	735	V	327	312
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600					
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200	12			10	4
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5					6
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	7	8.4		7	
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	29 4	28		32.2	22.7
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	114	352	V	109	78
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350					
PRIORITY POLLUTANTS (MG/L)								
013 SILVER (TOTAL) =	_ _	AVG	.5	.128	L .01		.052	.04
013 SILVER (TOTAL) =	_ _	M/I	1.5					
022 BENZENE =	_ _	M/I			L .01			
034 BIS (2-CHLOROETHOXY) METHANE =	_ _	AVG			004			
049 CHLOROFORM =	_ A	M/I	.0016		L .01	A		
079 2,4 - DINITROPHENOL =	_ _	AVG			L .001			
099 METHYLENE CHLORIDE =	_ A	M/I	.0028		L .01	A		
116 PHENOL =	_ A	AVG			L 001			
116 PHENOL =	_ A	M/I	.0015					
121 TOLUENE =	_ A	M/I	.006		L .01	A		
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52	.016				

PROHIBITED POLLUTANTS
NONE

LABORATORY ANALYSIS OF WASTEWATER				IND-05 2/25/97	IND-06 10/28/96
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG	LOG
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	75	141
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300		
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	303	443
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600		
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200	6	5
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5		
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	7	7
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	21 1	26.7
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	74	98
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350		
PRIORITY POLLUTANTS (MG/L)					
013 SILVER (TOTAL) =	_ _	AVG	.5	.04	.02
013 SILVER (TOTAL) =	_ _	M/I	1.5		
049 CHLOROFORM =	_ A	M/I	.0016		

RUN 4/14/98 TIME 1102
MSD ACCOUNT NUMBER = 41121951-00

WATERSHED DESIGNATION = BOM
TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

099 METHYLENE CHLORIDE =	_ A	M/I	0028			
116 PHENOL =	_ A	M/I	.0015			
121 TOLUENE =	_ A	M/I	.006			
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52		L	.05

PROHIBITED POLLUTANTS
NONE

SEWER REFERENCE NUMBER 002

DESCRIPTION = MH ON VISTA 15'S OF SIDWLK & 36'E OF ISLAND NPDES OUTFALL NUMBER =

AVERAGE WASTEWATER DISCHARGE (GPD) = 58,157 DISCHARGE FACTOR = 08 SPLIT SAMPLE WITH COMPANY =
ALTERNATIVE CONCENTRATION LIMIT COMMENTS = HOSPITAL WASTE

LABORATORY ANALYSIS OF WASTEWATER				IND-01 10/ 9/97	MSD-02 9/22/97 1125	IND-03 7/11/97	IND-04 5/ 1/97
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG	LOG 03349	LOG	LOG
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	175		162	150
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300				
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	567	396	327	329
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600				
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200	33		25	6
030 PH ACIDIC (S.U) LESS THAN 7 =	_ _	M/I	5 5			6	
031 PH BASIC (S U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11 5	7	8.6		7
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	28.3	30	32.2	25.5
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	84	126	75	86
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350				
PRIORITY POLLUTANTS (MG/L)							
013 SILVER (TOTAL) =	_ _	AVG	5	.013	.05	L .01	L 01
013 SILVER (TOTAL) =	_ _	M/I	1 5				
022 BENZENE =	_ _	M/I			L .01		
034 BIS (2-CHLOROETHOXY) METHANE =	_ _	AVG			L .001		
049 CHLOROFORM =	_ A	M/I	.0016		L .01 A		
079 2,4 - DINITROPHENOL =	_ _	AVG			L .001		
099 METHYLENE CHLORIDE =	_ A	M/I	.0028		L .01 A		
116 PHENOL =	_ A	AVG			L 001		
116 PHENOL =	_ A	M/I	.0015				
121 TOLUENE =	_ A	M/I	.006		L .01 A		
126 TRICHLOROETHENE =	_ _	M/I			L .01		
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52	L 01			

PROHIBITED POLLUTANTS
NONE

INDUSTRIAL WASTE PROGRAM JAR010 01
RUN 4/14/98 TIME 1102
MSD ACCOUNT NUMBER = 41121951-00

WATERSHED DESIGNATION = BOM
TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

LABORATORY ANALYSIS OF WASTEWATER

			STANDARD-A	IND-05 2/25/97		IND-06 10/28/96	
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)				LOG		LOG	
006 BIOCHEMICAL OXYGEN DEMAND (3 DAY) =	_ _	AVG	300	270		412	V
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300				
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	543		1300	V
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600				
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200	28		9	
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5				
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	7		7	
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	16.6		22.9	
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	179		290	
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350				
PRIORITY POLLUTANTS (MG/L)							
013 SILVER (TOTAL) =	_ _	AVG	.5	.02	L	.01	
013 SILVER (TOTAL) =	_ _	M/I	1.5				
049 CHLOROFORM =	_ A	M/I	.0016				
099 METHYLENE CHLORIDE =	_ A	M/I	.0028				
116 PHENOL =	_ A	M/I	.0015				
121 TOLUENE =	_ A	M/I	.006				
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52		L	.05	

PROHIBITED POLLUTANTS
NONE

METROPOLITAN ST LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET

B3 INDUSTRIAL WASTE PROGRAM JAR010.01
RUN 5/14/97 TIME 1300 WATERSHED DESIGNATION = BOM
MSD ACCOUNT NUMBER = 41121951-00 TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL QUESTIONNAIRE RECEIVED DATE = 8/10/94 REVIEWER = GHD
USER MAILING ADDRESS = 3635 VISTA AVE AT GRAND BLVD PREMISE ADDRESS = 1315-1341 S. GRAND BLVD S
ST LOUIS MO -GARY ST LOUIS MO 63104

ACCOUNT NAME = ST. LOUIS UNIVERSITY HOSPITAL
ACCOUNT MAILING ADDRESS = 3635 VISTA AVE AT GRAND BLVD
P.O. BOX 15250
ST LOUIS, MO 63110 2539

FIELD CONTACT = GARY RAUSCHENBAUCH OFFICE CONTACT =
TITLE = DIR OF BUILDING SERVICES TITLE = DAILY SHIFTS = 3
TELEPHONE = 314-577-8070 TELEPHONE = DAYS PER WEEK = 7
SICS = 8062 EMPLOYEES = 2883

RAW MATERIALS = NONE PRODUCTS = NONE-GENERAL HOSPITAL SERVICE

INDUSTRIAL CATEGORY = 4 9 PRETREATMENT = WASTE DISPOSAL = Y INSP. DATE = 5/14/96 REINSP. DATE = 5/14/97 JAS
COMMENTS = CONT-OP,SPCCP-NO,HW #01742 PERMIT ISSUE DATE = 1/ 1/95 REISSUE DATE = 1/ 1/98

SEWER ACCOUNT NUMBERS =

WATER CONSUMPTION (GPD) = 147,333 RETURN FACTOR = .81 WASTEWATER DISCHARGE (GPD) = 119,339 NPDES PERMIT NUMBER =

SURCHARGE BILLING VALUES (MG/L) RECERTIFICATION DATE = 8/27/91
SUSPENDED SOLIDS = BIOCHEMICAL OXYGEN DEMAND = CHEMICAL OXYGEN DEMAND = GREASE =

SEWER ROUTE = W FROM BLDG TO 39TH ST N ADJUSTED CATEGORICAL STANDARD INDICATORS =

POTENTIAL POLLUTANTS LBS/YR COMMENTS
GENERAL POLLUTANTS
NONE
PRIORITY POLLUTANTS
NONE
PROHIBITED POLLUTANTS
NONE

---------- SEWER REFERENCE NUMBER 001 ----------

DESCRIPTION = MH IN DRIVEWAY WEST OF LOADING DOCK NPDES OUTFALL NUMBER =

AVERAGE WASTEWATER DISCHARGE (GPD) = 70,410 DISCHARGE FACTOR = .59 SPLIT SAMPLE WITH COMPANY = 000
ALTERNATIVE CONCENTRATION LIMIT COMMENTS = HOSPITAL WASTE+NCCW+BOILER BLOWDOWN

INDUSTRIAL WASTE PROGRAM JAR010.01
RUN 5/14/97 TIME 1300
MSD ACCOUNT NUMBER = 41121951-00

WATERSHED DESIGNATION = BOM
TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

LABORATORY ANALYSIS OF WASTEWATER

GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	IND-01 2/25/97	IND-02 10/28/96	MSD-03 7/18/96 1330	IND-04 7/11/96
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	75	141		73.6
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300				
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	303	443	420	194
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600				
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200	6	5		5.6
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5				
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	7	7	8.5	7
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	21.1	26.7	30	31.5
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	74	98	116	57
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350				
PRIORITY POLLUTANTS (MG/L)							
013 SILVER (TOTAL) =	_ _	AVG	.5	.04	.02	.14	.34
013 SILVER (TOTAL) =	_ _	M/I	1.5				
022 BENZENE =	_ A	M/I	.0044			L 01 A	
034 BIS (2-CHLOROETHOXY) METHANE =	_ A	AVG				L 001	
034 BIS (2-CHLOROETHOXY) METHANE =	_ A	M/I	.0053				
049 CHLOROFORM =	_ A	M/I	.0016			L .01 A	
079 2,4 - DINITROPHENOL =	_ A	AVG				L .001	
079 2,4 - DINITROPHENOL =	_ A	M/I	.042				
099 METHYLENE CHLORIDE =	_ A	M/I	.0028			L 01 A	
116 PHENOL =	_ A	AVG				L 001	
116 PHENOL =	_ A	M/I	.0015				
121 TOLUENE =	_ A	M/I	.006			L .01 A	
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52		L .05		

PROHIBITED POLLUTANTS
NONE

LABORATORY ANALYSIS OF WASTEWATER

GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	IND-05 4/11/96	MSD-06 4/ 8/96 1305
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	136	
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300		
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	284	220
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600		
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200	24.2	
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5		
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	7	9.1
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	37 8	20
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	94	162
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350		
PRIORITY POLLUTANTS (MG/L)					
013 SILVER (TOTAL) =	_ _	AVG	.5	.346	L .01

RUN 5/14/97 TIME 1300 WATERSHED DESIGNATION = BOM
MSD ACCOUNT NUMBER = 41121951-00 TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

013 SILVER (TOTAL) =	_ _	M/I	1.5	
022 BENZENE =	_ A	M/I	.0044	
034 BIS (2-CHLOROETHOXY) METHANE =	_ A	M/I	.0053	
049 CHLOROFORM =	_ A	M/I	.0016	
079 2,4 - DINITROPHENOL =	_ A	M/I	.042	
099 METHYLENE CHLORIDE =	_ A	M/I	.0028	
116 PHENOL =	_ A	M/I	.0015	
121 TOLUENE =	_ A	M/I	.006	
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52	

PROHIBITED POLLUTANTS
NONE

---------- SEWER REFERENCE NUMBER 002 ----------

DESCRIPTION = MH ON VISTA 15'S OF SIDWLK & 36'E OF ISLAND NPDES OUTFALL NUMBER =

AVERAGE WASTEWATER DISCHARGE (GPD) = 48,928 DISCHARGE FACTOR = .41 SPLIT SAMPLE WITH COMPANY =

ALTERNATIVE CONCENTRATION LIMIT COMMENTS = HOSPITAL WASTE

LABORATORY ANALYSIS OF WASTEWATER			STANDARD-A	IND-01 2/25/97	IND-02 10/28/96	IND-03 7/11/96	IND-04 4/11/96
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)				LOG	LOG	LOG	LOG
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	270	412	V 249	215
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300				
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	543	1300	V 346	422
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600				
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200	28	9	104	54
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5				6
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	7	7	7	
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	16.6	22 9	33.9	22 9
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	179	290	107	169
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350				
PRIORITY POLLUTANTS (MG/L)							
013 SILVER (TOTAL) =	_ _	AVG	.5	.02	L 01	055	.348
013 SILVER (TOTAL) =	_ _	M/I	1.5				
022 BENZENE =	_ A	M/I	.0044				
034 BIS (2-CHLOROETHOXY) METHANE =	_ A	M/I	.0053				
049 CHLOROFORM =	_ A	M/I	0016				
079 2,4 - DINITROPHENOL =	_ A	M/I	.042				
099 METHYLENE CHLORIDE =	_ A	M/I	.0028				
116 PHENOL =	_ A	M/I	.0015				
121 TOLUENE =	_ A	M/I	.006				
126 TRICHLOROETHENE =	_ A	M/I	.0019				
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52		L .05		

PROHIBITED POLLUTANTS
NONE

INDUSTRIAL WASTE PROGRAM JAR010.01
RUN 5/14/97 TIME 1300
MSD ACCOUNT NUMBER = 41121951-00

WATERSHED DESIGNATION = BOM
TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

LABORATORY ANALYSIS OF WASTEWATER

			MSD-05 4/ 8/96 1250	
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)		STANDARD-A	LOG 03683	
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _ AVG	300	270	
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _ M/I	300		
011 CHEMICAL OXYGEN DEMAND =	_ _ AVG	600	604	V
011 CHEMICAL OXYGEN DEMAND =	_ _ M/I	600		
028 OIL AND GREASE (TOTAL) =	_ _ M/I	200		
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _ M/I	5.5		
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _ M/I	11.5	8.6	
040 TEMPERATURE (DEGREES C) =	_ _ M/I	60	25	
049 TOTAL SUSPENDED SOLIDS =	_ _ AVG	350	236	
049 TOTAL SUSPENDED SOLIDS =	_ _ M/I	350		
PRIORITY POLLUTANTS (MG/L)				
013 SILVER (TOTAL) =	_ _ AVG	.5	.04	
013 SILVER (TOTAL) =	_ _ M/I	1.5		
022 BENZENE =	_ A M/I	.0044		
034 BIS (2-CHLOROETHOXY) METHANE =	_ A M/I	.0053		
049 CHLOROFORM =	_ A M/I	.0016		
079 2,4 - DINITROPHENOL =	_ A M/I	.042		
099 METHYLENE CHLORIDE =	_ A M/I	.0028		
116 PHENOL =	_ A M/I	.0015		
121 TOLUENE =	_ A M/I	.006		
126 TRICHLOROETHENE =	_ A M/I	.0019		
131 TOTAL TOXIC ORGANICS =	_ _ M/I	5.52		

PROHIBITED POLLUTANTS
NONE

METROPOLITAN ST LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET

INDUSTRIAL WASTE PROGRAM JAR010.01
RUN 5/28/96 TIME 1306 WATERSHED DESIGNATION = BOM

MSD ACCOUNT NUMBER = 41121951-00 TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL QUESTIONNAIRE RECEIVED DATE = 8/10/94 REVIEWER = GHD
USER MAILING ADDRESS = 3635 VISTA AVE AT GRAND BLVD PREMISE ADDRESS = 1315-1341 S. GRAND BLVD S
ST LOUIS MO -GARY ST LOUIS MO 63104

ACCOUNT NAME = ST. LOUIS UNIVERSITY HOSPITAL
ACCOUNT MAILING ADDRESS = 3635 VISTA AVE AT GRAND BLVD
P.O. BOX 15250
ST. LOUIS, MO 63110-2539

FIELD CONTACT = GARY RAUSCHENBAUCH OFFICE CONTACT =
TITLE = DIR OF BUILDING SERVICES TITLE = DAILY SHIFTS = 3
TELEPHONE = 314-577-8070 TELEPHONE = DAYS PER WEEK = 7
SICS = 8062 EMPLOYEES = 2883

RAW MATERIALS = NONE PRODUCTS = NONE-GENERAL HOSPITAL SERVICE

INDUSTRIAL CATEGORY = 4 9 PRETREATMENT = WASTE DISPOSAL = Y INSP. DATE = 6/ 6/95 REINSP. DATE = 6/ 6/96 JAS
COMMENTS = CONT-OP,SPCCP-NO,HW #01742 PERMIT ISSUE DATE = 1/ 1/95 REISSUE DATE = 1/ 1/98

SEWER ACCOUNT NUMBERS =

WATER CONSUMPTION (GPD) = 104,982 RETURN FACTOR = .81 WASTEWATER DISCHARGE (GPD) = 85,035 NPDES PERMIT NUMBER =

SURCHARGE BILLING VALUES (MG/L) RECERTIFICATION DATE = 8/27/91
SUSPENDED SOLIDS = BIOCHEMICAL OXYGEN DEMAND = CHEMICAL OXYGEN DEMAND = GREASE =

SEWER ROUTE = W FROM BLDG TO 39TH ST N ADJUSTED CATEGORICAL STANDARD INDICATORS =

POTENTIAL POLLUTANTS LBS/YR COMMENTS
GENERAL POLLUTANTS
NONE
PRIORITY POLLUTANTS
NONE
PROHIBITED POLLUTANTS
NONE

---------- SEWER REFERENCE NUMBER 001 ----------

DESCRIPTION = MH IN DRIVEWAY WEST OF LOADING DOCK NPDES OUTFALL NUMBER =

AVERAGE WASTEWATER DISCHARGE (GPD) = 50,170 DISCHARGE FACTOR = .59 SPLIT SAMPLE WITH COMPANY = 000
ALTERNATIVE CONCENTRATION LIMIT COMMENTS = HOSPITAL WASTE+NCCW+BOILER BLOWDOWN

RUN 5/28/96 TIME 1306 WATERSHED DESIGNATION = BOM

MSD ACCOUNT NUMBER = 41121951-00 TREATMENT AREA = BISSELL POINT

TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

LABORATORY ANALYSIS OF WASTEWATER

				MSD-01 4/ 8/96 1305	IND-02 2/ 7/96	IND-03 11/13/95	IND-04 8/21/95
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG 03682	LOG	LOG	LOG
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300		111	158	63
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300				
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	220	355	357	297
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600				
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200		4	7	1
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5				
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	9.1	7.6	9.26	7
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	20	15.6	22.4	32.7
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	162	130	114	124
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350				
PRIORITY POLLUTANTS (MG/L)							
013 SILVER (TOTAL) =	_ _	AVG	.5	L .01	.03	.1	.08
013 SILVER (TOTAL) =	_ _	M/I	1.5				
022 BENZENE =	_ A	M/I	.0044				
034 BIS (2-CHLOROETHOXY) METHANE =	_ A	M/I	.0053				
049 CHLOROFORM =	_ A	M/I	.0016				
079 2,4 - DINITROPHENOL =	_ A	M/I	.042				
099 METHYLENE CHLORIDE =	_ A	M/I	.0028				
116 PHENOL =	_ A	M/I	.0015				
121 TOLUENE =	_ A	M/I	.006				
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52			.041	

PROHIBITED POLLUTANTS

NONE

LABORATORY ANALYSIS OF WASTEWATER

				MSD-05 7/ 6/95 1243	IND-06 6/19/95	IND-07 5/ 4/95	IND-08 2/ 9/95
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG 00043	LOG	LOG	LOG
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300			75	162
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300				
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	472		332	500
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600				
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200			4	17
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5				7
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	8.2	8.5	7.5	
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	31	28.3	24.4	25.4
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	204		125	208
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350				
PRIORITY POLLUTANTS (MG/L)							
013 SILVER (TOTAL) =	_ _	AVG	.5	L .01	.097		
013 SILVER (TOTAL) =	_ _	M/I	1.5				
022 BENZENE =	_ A	M/I	.0044	L .001			
034 BIS (2-CHLOROETHOXY) METHANE =	_ A	AVG		L .001			

RUN 5/28/96 TIME 1306 WATERSHED DESIGNATION = BOM

MSD ACCOUNT NUMBER = 41121951-00 TREATMENT AREA = BISSELL POINT

TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

034 BIS (2-CHLOROETHOXY) METHANE =	_ A	M/I	.0053			
037 BIS (2-ETHYLHEXYL) PHTHALATE =	_ _	AVG			.022	
049 CHLOROFORM =	_ A	M/I	.0016		.002	A
076 DI-N-BUTYL PHTHALATE =	_ _	AVG			.013	
079 2,4 - DINITROPHENOL =	_ A	AVG		L	.001	
079 2,4 - DINITROPHENOL =	_ A	M/I	.042			
099 METHYLENE CHLORIDE =	_ A	M/I	.0028		.003	A
116 PHENOL =	_ A	AVG			.005	
116 PHENOL =	_ A	M/I	.0015			
121 TOLUENE =	_ A	M/I	.006	L	.001	
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52			

PROHIBITED POLLUTANTS

NONE

---------- SEWER REFERENCE NUMBER 002 ----------

DESCRIPTION = MH ON VISTA 15'S OF SIDWLK & 36'E OF ISLAND NPDES OUTFALL NUMBER =

AVERAGE WASTEWATER DISCHARGE (GPD) = 34,864 DISCHARGE FACTOR = .41 SPLIT SAMPLE WITH COMPANY =

ALTERNATIVE CONCENTRATION LIMIT COMMENTS = HOSPITAL WASTE

LABORATORY ANALYSIS OF WASTEWATER				MSD-01 4/ 8/96 1250		IND-02 2/ 7/96		IND-03 11/13/95		IND-04 8/17/95
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG 03683		LOG		LOG		LOG
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	270		447	V	242		302
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300							
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	604	V	677	V	423		398
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600							
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200			60		18		33
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5			6.9				
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	8.6				9.62		8
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	25		16.8		20.5		32.7
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	236		188		204		80
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350							
PRIORITY POLLUTANTS (MG/L)										
013 SILVER (TOTAL) =	_ _	AVG	.5	.04		.03		.03		.08
013 SILVER (TOTAL) =	_ _	M/I	1.5							
022 BENZENE =	_ A	M/I	.0044							
034 BIS (2-CHLOROETHOXY) METHANE =	_ A	M/I	.0053							
049 CHLOROFORM =	_ A	M/I	.0016							
079 2,4 - DINITROPHENOL =	_ A	M/I	.042							
099 METHYLENE CHLORIDE =	_ A	M/I	.0028							
116 PHENOL =	_ A	M/I	.0015							
121 TOLUENE =	_ A	M/I	.006							
126 TRICHLOROETHENE =	_ A	M/I	.0019							
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52				L	.01		

RUN 5/28/96 TIME 1306 WATERSHED DESIGNATION = BOM

MSD ACCOUNT NUMBER = 41121951-00 TREATMENT AREA = BISSELL POINT

TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

PROHIBITED POLLUTANTS

NONE

LABORATORY ANALYSIS OF WASTEWATER

					MSD-05 7/ 6/95 1235		IND-06 5/ 4/95		IND-07 2/ 9/95	
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG	00044	LOG		LOG		
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300				345	V	382	V
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300							
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600		390		1238	V	790	V
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600							
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200				18		74	
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5							
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5		9		7.4		7	
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60		34		16.1		21.6	
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350		66		117		129	
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350							
PRIORITY POLLUTANTS (MG/L)										
013 SILVER (TOTAL) =	_ _	AVG	.5		.3		.0032		.22	
013 SILVER (TOTAL) =	_ _	M/I	1.5							
022 BENZENE =	_ A	M/I	.0044	L	.001					
034 BIS (2-CHLOROETHOXY) METHANE =	_ A	AVG		L	.001					
034 BIS (2-CHLOROETHOXY) METHANE =	_ A	M/I	.0053							
049 CHLOROFORM =	_ A	M/I	.0016		.009 A					
076 DI-N-BUTYL PHTHALATE =	_ _	AVG			.017					
079 2,4 - DINITROPHENOL =	_ A	AVG		L	.001					
079 2,4 - DINITROPHENOL =	_ A	M/I	.042							
099 METHYLENE CHLORIDE =	_ A	M/I	.0028		.003 A					
116 PHENOL =	_ A	AVG			.003					
116 PHENOL =	_ A	M/I	.0015							
121 TOLUENE =	_ A	M/I	.006		.004					
126 TRICHLOROETHENE =	_ A	M/I	.0019	L	.001					
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52							

PROHIBITED POLLUTANTS

NONE

NEW PERMIT EFF 1/1/95
STDS CHANGED
SAVE
pg.

METROPOLITAN ST LOUIS SEWER DISTRICT
INDUSTRIAL DATA SHEET

INDUSTRIAL WASTE PROGRAM JAR010.01
RUN 2/14/95 TIME 1027 WATERSHED DESIGNATION = BOM

MSD ACCOUNT NUMBER = 41121951-00 TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL QUESTIONNAIRE RECEIVED DATE = 10/18/91 REVIEWER = MAM
USER MAILING ADDRESS = 3635 VISTA AVE AT GRAND BLVD PREMISE ADDRESS = 1315-1341 S. GRAND BLVD S
ST LOUIS MO -GARY ST LOUIS MO 63104

ACCOUNT NAME = ST. LOUIS UNIVERSITY HOSPITAL
ACCOUNT MAILING ADDRESS = 3635 VISTA AVE AT GRAND BLVD
P.O. BOX 15250
ST. LOUIS, MO 63110-2539

FIELD CONTACT = GARY RAUSCHENBAUCH OFFICE CONTACT =
TITLE = DIR OF BUILDING SERVICES TITLE = DAILY SHIFTS = 3
TELEPHONE = 314-577-8070 TELEPHONE = DAYS PER WEEK = 7
SICS = 8061 8062 EMPLOYEES = 2883

RAW MATERIALS = NONE PRODUCTS = NONE-GENERAL HOSPITAL SERVICE

INDUSTRIAL CATEGORY = 4 9 PRETREATMENT = WASTE DISPOSAL = Y INSP. DATE = 5/18/94 REINSP. DATE = 5/18/95 SMA
COMMENTS = CONT-OP,SPCCP-NO,HW #01742 PERMIT ISSUE DATE = REISSUE DATE =

SEWER ACCOUNT NUMBERS =

WATER CONSUMPTION (GPD) = 203,886 RETURN FACTOR = .81 WASTEWATER DISCHARGE (GPD) = 165,147 NPDES PERMIT NUMBER =

SURCHARGE BILLING VALUES (MG/L) RECERTIFICATION DATE = 8/27/91
SUSPENDED SOLIDS = BIOCHEMICAL OXYGEN DEMAND = CHEMICAL OXYGEN DEMAND = GREASE =

SEWER ROUTE = W FROM BLDG TO 39TH ST N ADJUSTED CATEGORICAL STANDARD INDICATORS =

POTENTIAL POLLUTANTS LBS/YR COMMENTS
GENERAL POLLUTANTS
NONE
PRIORITY POLLUTANTS
NONE
PROHIBITED POLLUTANTS
NONE

---------- SEWER REFERENCE NUMBER 001 ----------

DESCRIPTION = MH IN DRIVEWAY WEST OF LOADING DOCK NPDES OUTFALL NUMBER =

AVERAGE WASTEWATER DISCHARGE (GPD) = 97,436 DISCHARGE FACTOR = .59 SPLIT SAMPLE WITH COMPANY = 000
ALTERNATIVE CONCENTRATION LIMIT COMMENTS = HOSPITAL WASTE+NCCW+BOILER BLOWDOWN

WATERSHED DESIGNATION = BOM

MSD ACCOUNT NUMBER = 41121951-00
TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

LABORATORY ANALYSIS OF WASTEWATER

			MSD-01 12/20/94 1325		IND-02 10/14/94		IND-03 10/ 6/94		IND-04 7/ 6/94	
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG 02147	LOG		LOG		LOG	
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	300				96		61
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300							
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	2430		V		290		410
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600							
028 OIL AND GREASE (TOTAL) =		M/I	200					14		18
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5							
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	8.8				9.3		9.3
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	20				29 4		28.8
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	76				114		130
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350							
PRIORITY POLLUTANTS (MG/L)										
121 TOLUENE =	_ A	M/I	.006	L .001						
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52		.18					
PROHIBITED POLLUTANTS										
NONE										

LABORATORY ANALYSIS OF WASTEWATER

			MSD-05 5/ 4/94 1335		IND-06 4/15/94		IND-07 1/20/94		IND-08 12/15/93	
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG 04822	LOG		LOG		LOG	
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300		190		160			
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300							
011 CHEMICAL OXYGEN DEMAND =		AVG	600	201	480		440			
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600							
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200		24		L 5			
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5							
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	8.2	7.7		7.2			
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	20	23.8		21.1			
049 TOTAL SUSPENDED SOLIDS =		AVG	350	426	106	V	180			
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350							
PRIORITY POLLUTANTS (MG/L)										
121 TOLUENE =	_ A	M/I	.006	L .001						
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52						L .27	
PROHIBITED POLLUTANTS										
NONE										

LABORATORY ANALYSIS OF WASTEWATER

			IND-09 10/21/93		MSD-10 8/16/93 1215		IND-11 7/ 7/93		IND-12 4/14/93	
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG	LOG 00978		LOG		LOG	
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =		AVG	300	160			83		120	
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300							
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	390	293		290		340	

WATERSHED DESIGNATION = BOM

MSD ACCOUNT NUMBER = 41121951-00

TREATMENT AREA = BISSELL POINT
TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600									
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200			6.3				8		14
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5									
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5			9		8.3		8		9.1
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60			26.2		31		26.7		20
049 TOTAL SUSPENDED SOLIDS =		AVG	350			130		96		840	V	88
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350									
PRIORITY POLLUTANTS (MG/L)												
121 TOLUENE =	_ A	M/I	.006				L	.001				
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52									

PROHIBITED POLLUTANTS
NONE

LABORATORY ANALYSIS OF WASTEWATER

					MSD-13 3/ 5/93 1230 03274		IND-14 2/ 9/93		IND-15 10/14/92
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG		LOG		LOG	
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =		AVG	300				200		220
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300						
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600		420		500		360
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600						
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200				16		7.5
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5						7
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =		M/I	11.5		8.5		9.1		
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60		18		15.6		26.7
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350		136		200		
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350						
053 VOLATILE SUSPENDED SOLIDS =	_ _	AVG			134				
057 TOTAL PHENOLS =	_ _	M/I		L	.23				
PRIORITY POLLUTANTS (MG/L)									
049 CHLOROFORM =	_ _	AVG							47
049 CHLOROFORM =	_ _	M/I			.036				
065 1,1 - DICHLOROETHANE =	_ _	M/I		L	.001				
088 ETHYLBENZENE =	_ _	M/I			.054				
099 METHYLENE CHLORIDE =	_ _	M/I		L	.001				
121 TOLUENE =	_ A	M/I	.006	L	.001				
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52						

PROHIBITED POLLUTANTS
NONE

---------- SEWER REFERENCE NUMBER 002 ----------

DESCRIPTION = MH ON VISTA 15'S OF SIDWLK & 36'E OF ISLAND NPDES OUTFALL NUMBER =

AVERAGE WASTEWATER DISCHARGE (GPD) = 67,710 DISCHARGE FACTOR = .41 SPLIT SAMPLE WITH COMPANY =

ALTERNATIVE CONCENTRATION LIMIT COMMENTS = HOSPITAL WASTE

RUN 2/14/95 TIME 1027 WATERSHED DESIGNATION = BOM

MSD ACCOUNT NUMBER = 41121951-00 TREATMENT AREA = BISSELL POINT

TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

LABORATORY ANALYSIS OF WASTEWATER

				MSD-01 12/20/94 1320	IND-02 10/14/94	IND-03 10/ 6/94	IND-04 7/ 6/94
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG 02148	LOG	LOG	LOG
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	332	V	210	171
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300				
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	689	V	370	380
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600				
013 CHLORINE - TOTAL RESIDUAL =	_ _	AVG		.19			
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200			48	22
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5				
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	9.1		9.3	8.2
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	25		28.7	30.5
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	134		76	113
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350				
PRIORITY POLLUTANTS (MG/L)							
013 SILVER (TOTAL) =	_ _	AVG	.5			.15	.036
013 SILVER (TOTAL) =	_ _	M/I	1.5				
121 TOLUENE =	_ A	M/I	.006	L .001			
126 TRICHLOROETHENE =	_ A	M/I	.0019	L .001			
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52		.13		
PROHIBITED POLLUTANTS							
NONE							

LABORATORY ANALYSIS OF WASTEWATER

				MSD-05 5/ 4/94 1315	IND-06 4/15/94	IND-07 1/20/94	IND-08 12/15/93
GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	LOG 04819	LOG	LOG	LOG
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300		202	230	
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300				
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	465	450	430	
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600				
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200		118	19	
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5				
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	8.6	8	7.7	
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	26	26.1	20.6	
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	233	92	320	
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350				
PRIORITY POLLUTANTS (MG/L)							
013 SILVER (TOTAL) =	_ _	AVG	.5	.05	.062	.16	
013 SILVER (TOTAL) =	_ _	M/I	1.5				
121 TOLUENE =	_ A	M/I	.006	L .001			
126 TRICHLOROETHENE =	_ A	M/I	.0019	L .001			
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52				L .245
PROHIBITED POLLUTANTS							
NONE							

RUN 2/14/95 TIME 1027

WATERSHED DESIGNATION = BOM

MSD ACCOUNT NUMBER = 41121951-00

TREATMENT AREA = BISSELL POINT

TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

LABORATORY ANALYSIS OF WASTEWATER

GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	IND-09 10/21/93	MSD-10 8/16/93 1204	IND-11 7/ 7/93	IND-12 4/14/93
				LOG	LOG 00979	LOG	LOG
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300	210	900 V	360 V	290
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300				
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	420	2070 V	660 V	570
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600				
028 OIL AND GREASE (TOTAL) =	_	M/I	200	19		20	49
030 PH ACIDIC (S.U.) LESS THAN 7 =	_ _	M/I	5.5				
031 PH BASIC (S.U) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	9	8.3	7.7	9.9
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	26.2	31	26 7	16
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	180	922 V	320	180
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350				
PRIORITY POLLUTANTS (MG/L)							
013 SILVER (TOTAL) =	_ _	AVG	.5	L .05	.06	.07	.14
013 SILVER (TOTAL) =	_ _	M/I	1.5				
121 TOLUENE =	_ A	M/I	.006		L .001		
126 TRICHLOROETHENE =	_ A	M/I	.0019		L .001		
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52				
PROHIBITED POLLUTANTS							
NONE							

LABORATORY ANALYSIS OF WASTEWATER

GENERAL POLLUTANTS (MG/L EXCEPT AS NOTED)			STANDARD-A	MSD-13 3/ 5/93 1211	IND-14 2/ 9/93	IND-15 10/14/92
				LOG 03275	LOG	LOG
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	AVG	300		320 V	490 V
006 BIOCHEMICAL OXYGEN DEMAND (5 DAY) =	_ _	M/I	300			
011 CHEMICAL OXYGEN DEMAND =	_ _	AVG	600	652 V	470	780 V
011 CHEMICAL OXYGEN DEMAND =	_ _	M/I	600			
028 OIL AND GREASE (TOTAL) =	_ _	M/I	200		43	150
030 PH ACIDIC (S.U.) LESS THAN 7 =		M/I	5.5			6
031 PH BASIC (S.U.) GREATER THAN OR EQUAL TO 7 =	_ _	M/I	11.5	8.4	7.6	
040 TEMPERATURE (DEGREES C) =	_ _	M/I	60	22	17	28.3
049 TOTAL SUSPENDED SOLIDS =	_ _	AVG	350	180	170	78
049 TOTAL SUSPENDED SOLIDS =	_ _	M/I	350			
053 VOLATILE SUSPENDED SOLIDS =	_ _	AVG		168		
PRIORITY POLLUTANTS (MG/L)						
013 SILVER (TOTAL) =	_ _	AVG	.5		.16	.35
013 SILVER (TOTAL) =	_ _	M/I	1.5			
049 CHLOROFORM =	_ _	M/I		.003		
050 CHLOROMETHANE =	_ _	M/I		L .001		
099 METHYLENE CHLORIDE =	_ _	M/I		L .001		
121 TOLUENE =	_ A	M/I	.006	L .001		
126 TRICHLOROETHENE =	_ A	M/I	.0019	L .001		
131 TOTAL TOXIC ORGANICS =	_ _	M/I	5.52			

RUN 2/14/95 TIME 1027

WATERSHED DESIGNATION = BOM

MSD ACCOUNT NUMBER = 41121951-00

TREATMENT AREA = BISSELL POINT

TRUNK SEWER = OLD MILL CREEK

USER NAME = ST LOUIS UNIVERSITY HOSPITAL

PROHIBITED POLLUTANTS

NONE