JTS GROUP INC.

Enviromental & Disposal Consultants

73 MONADNOCK ROAD
WORCESTER, MA 01609

TEL. (508) 791-3775
FAX (508) 798-9134

MA6910426

7/21/09 received

TREATMENT OF RAINWATER
CONTAMINATED BY #6 FUEL OIL FROM BASEMENT BUNKER

DEMOLITION OF 300 MERRIMACK STREET
LAWRENCE, MA

JTS Group, Inc. has been retained by S&R Corporation of Lowell Massachusetts to provide the design and implementation of a treatment system to manage the water from the basement of 300 Merrimack Street in Lawrence, MA which is undergoing demolition.

Site Owner: 300 Merrimack Street LLC
354 Merrimack Street
Lawrence, MA 01848

Contact: Donald Rist Facilities Manager
978-681-7777

Contract is funded by the City of Lawrence
Contract Name: Riverwalk Abatement, Demolition and Backfill
280-350 Merrimack Street, Lawrence

History:

The site was developed as a textile mill in the 1800's along with the buildings to the east along the Merrimack River. The concrete structure at 300 Merrimack Street was erected to store coal to fire the boilers in the building abutting to the west, 280 Merrimack Street. The bunkers were converted to store #6 fuel oil. The bunkers were emptied of the fuel oil leaving a skim on the concrete walls, floor and support columns. A thin non contiguous film of fuel oil appears on the surface of the rain water which has collected in the bunkers as the roofing has been deteriorating for several years.
The bunkers have been divided into three oil storage tanks. Two measure approximately 45 feet by 90 feet and the third approximately 45 feet by 75 feet. Each has a storage capacity of 550,000 gallons and 450,000 respectively. The larger tanks calculate at 35,000 gallons per vertical foot and the smaller tank 28,000 gallons per vertical foot. Water measured in the three bunkers calculated to a total of 160,000 gallons.

The water was sampled from the bunkers, and submitted to Geolabs, Inc of Braintree, MA for analysis of the Appendix III parameters.

Notable responses were for TPH as #6 oil, PAHs, Phthalate esters and PCB. The PCB was reported as Aroclor 1016/1242 at 4.72 ug/L. It is from an unidentified source. The

phthalate esters are consistent with the textile industry and the TPH and PAH are likely from the #6 Fuel oil.

Other contaminants include copper, lead, arsenic and iron.

The Treatment system design includes a 5 micron bags filter located before the 22,000 gallon feed tank. The bag is designed to control particulates and heavy fuel oil.

The frac tank will store the feed water and separate any fuel oil which passes through the bag filter. The water will be passed through two 1000 pound Granulated Activated Carbon (GAC) filters to remove the petroleum hydrocarbons, the poly aromatic hydrocarbons, the phthalate esters, the polychlorinated biphenyls (PCB) and to a lesser extent the metals.

The flow rate will be 40-45 gallons per minute yielding a retention time of greater than 10 minutes in the Activated Carbon tanks.

The water will then be stored in 22,000 gallon frac tanks pending laboratory analysis for the contaminants of concern; TPH, PCB, PAH Iron, lead and copper. Once the lab results report the water meets or exceeds discharge standards it will be released in a batch to the storm drain which discharges to the Merrimack River <100 feet to the north.

Merrimack River:

Flow rate dilution factor is 4140 times at the Lowell Station. Flow rates past the subject site will be higher.

Endangered species include the Sturgeon. No impact from the treated water is anticipated as the water will be cleaner than the river water.

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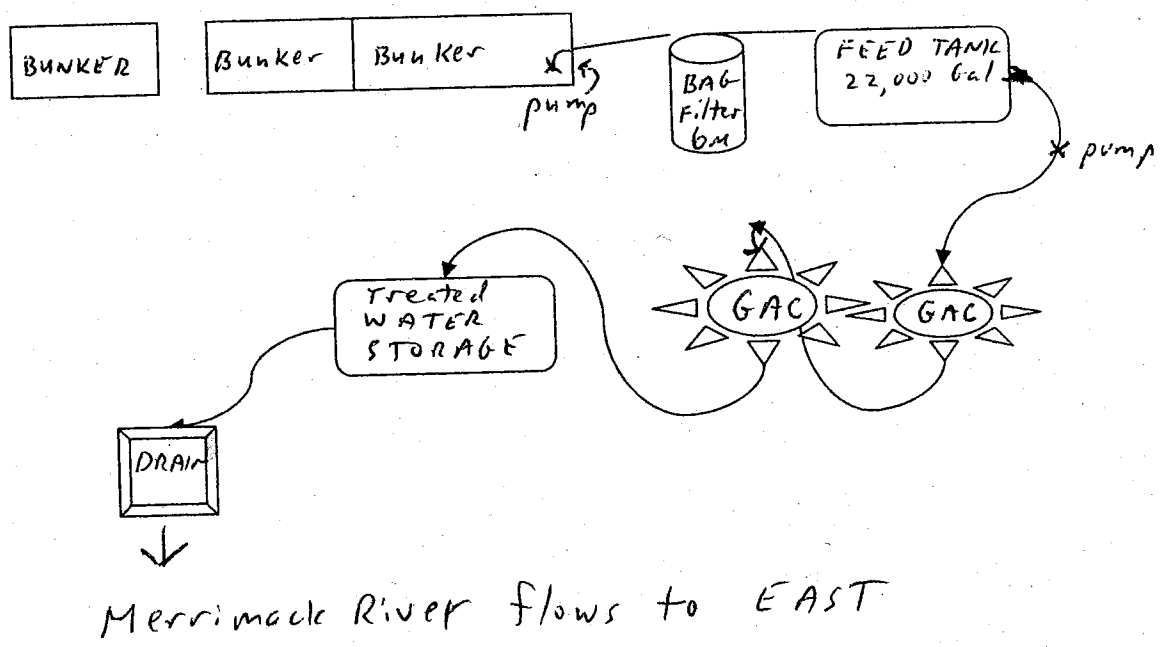
SCHEMATIC



B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of **facility/site**: 300 Merrimack Street LLC		**Facility/site** address: 300 Merrimack Street	
Location of **facility/site**: longitude: -71.147215 latitude: 42.704430	Facility SIC code(s): n/a	Street: 300 Merrimack Street	
b) Name of **facility/site owner:** 300 Merrimack Street LLC		Town: Lawrence	
Email address of owner: slupoli@sals-pizza.com		State: MA	Zip: 01848
Telephone no.of facility/site **owner**: 978-681-7777			
Fax no. of facility/site **owner**:		**Owner** is (check one): 1. Federal____ 2. State/Tribal___ 3. Private_✓_ 4. other, if so, describe:	
Address of **owner** (if different from site):			
Street: 354 Merrimack Street			
Town: Lawrence	State: MA	Zip: 01848	County: Essex
c) Legal name of **operator**: JTS Group, Inc.	**Operator** telephone no: 508-791-3775		
	Operator fax no.: 508-798-9134		**Operator** email: jtsdill@c
Operator contact name and title: Jeffery L. Dill CHMM - President			
Address of **operator** (if different from owner):	Street: 74 William Street		
Town: Worcester	State: MA	Zip: 01609	County: Worcester

d) Check "yes" or "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No_✓_, if "yes," number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No_✓_, if "yes," date and tracking #:
3. Is the discharge a "new discharge"as defined by 40 CFR 122.2? Yes_✓_ No___
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes__ No_✓_

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes___ No ✓ If "yes," please list: 1. site identification # assigned by the state of NH or MA: 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number:	f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y___ N✓, if Y, number: 2. phase I or II construction storm water general permit? Y___ N✓, if Y, number: 3. individual NPDES permit? Y___ N✓, if Y, number: 4. any other water quality related permit? Y___ N✓, if Y, number:

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:

Treatment of rainwater from the basement of the structures undergoing demolition. The basement was originally coal bunkers used to feed the adjacent boiler plant. The coal bunkers were converted to store #6 fuel oil which is contaminating the rainwater.

b) Provide the following information about each discharge:	1) Number of discharge points: one	2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft3/s)? Max. flow 0.223 Average flow 0.05 Is maximum flow a **design value**? Y___ N✓ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.

3) Latitude and longitude of each discharge within 100 feet: pt.1:long. -71.147215 lat. 42.704430 ; pt.2: long._____ lat._____; pt.3: long._____ lat._____;
pt.4:long._____ lat._____; pt.5: long._____ lat._____; pt.6:long._____ lat._____; pt.7: long._____ lat._____; pt.8:long._____ lat._____; etc.

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent ✓ or seasonal_____? Is discharge ongoing Yes ____ No ✓ ?__

c) Expected dates of discharge (mm/dd/yy): start 07/21/09 end 08/31/09

d) Please attach a line drawing or flow schematic showing water flow through the facility including:
1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants ✓	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	**Believe Absent**	**Believe Present**	**# of Samples (1 minimum)**	**Type of Sample (e.g., grab)**	**Analytical Method Used (method #)**	**Minimum Level (ML) of Test Method**	**Maximum daily value**		**Avg. daily value**	
							concentration (ug/l)	**mass (kg)**	**concentration (ug/l)**	**mass (kg)**
1. Total Suspended Solids		✓	1	grab	sm2540-D	4.00 mg/L	38,000	8.64	38,000	2.16
2. Total Residual Chlorine	✓									
3. Total Petroleum Hydrocarbons		✓	1	grab	8100M	2.63 mg/L	41,700	9.48	38,000	2.37
4. Cyanide	✓									
5. Benzene	✓									
6. Toluene	✓									
7. Ethylbenzene	✓									
8. (m,p,o) Xylenes	✓									
9. Total BTEX[4]	✓									

[4]BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide [5] (1,2- Dibromo-methane)	✓									
11. Methyl-tert-Butyl Ether (MtBE)	✓									
12. tert-Butyl Alcohol (TBA)	✓									
13. tert-Amyl Methyl Ether (TAME)	✓									
14. Naphthalene	✓									
15. Carbon Tetra-chloride	✓									
16. 1,4 Dichlorobenzene	✓									
17. 1,2 Dichlorobenzene	✓									
18. 1,3 Dichlorobenzene	✓									
19. 1,1 Dichloroethane	✓									
20. 1,2 Dichloroethane	✓									
21. 1,1 Dichloroethylene	✓									
22. cis-1,2 Dichloro-ethylene	✓									
23. Dichloromethane (Methylene Chloride)	✓									
24. Tetrachloroethylene	✓									

[5] EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓									
26. 1,1,2 Trichloroethane	✓									
27. Trichloroethylene	✓									
28. Vinyl Chloride	✓									
29. Acetone	✓									
30. 1,4 Dioxane	✓									
31. Total Phenols	✓									
32. Pentachlorophenol	✓									
33. Total Phthalates [6] (Phthalate esthers)		✓	1	grab	sw8270c	10.5 ug/L	343	0.078	343	85.75
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]		✓	1	grab	sw8270c	10.5ug/L	272	0.062	272	0.015
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		✓	1	grab	sw8270c	0.105 ug/L	18.23	0.004	18.23	0.001
a. Benzo(a) Anthracene		✓	1	grab	sw8270c	0.105 ug/L	4.05	0.00091	4.05	0.00023
b. Benzo(a) Pyrene		✓	1	grab	sw8270c	0.105 ug/L	2.49	0.00057	2.49	0.00014
c. Benzo(b)Fluoranthene		✓	1	grab	sw8270c	0.105 ug/L	2.19	0.00050	2.19	0.00012
d. Benzo(k) Fluoranthene		✓	1	grab	sw8270c	0.105 ug/L	0.759	0.00017	0.759	0.00004
e. Chrysene		✓	1	grab	sw8270c	0.105 ug/L	8.75	0.002	8.75	0.0005

[6] The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓									
g. Indeno(1,2,3-cd) Pyrene	✓									
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✓	1	grab	sw8270c	1.05 ug/L	22.32	0.0051	22.32	0.0013
h. Acenaphthene	✓									
i. Acenaphthylene	✓									
j. Anthracene	✓									
k. Benzo(ghi) Perylene	✓									
l. Fluoranthene		✓	1	grab	sw8270c	1.05 ug/L	2.29	0.0005	2.29	0.00013
m. Fluorene	✓									
n. Naphthalene-	✓									
o. Phenanthrene	✓									
p. Pyrene		✓	1	grab	sw8270c	1.05 ug/L	20.3	0.0046	20.3	0.0012
37. Total Polychlorinated Biphenyls (PCBs)		✓	1	grab	sw8082	0.311 ug/L	4.72	0.0011	4.72	0.0003
38. Antimony	✓									
39. Arsenic		✓	1	grab	e200.9	1 ug/L	2.12	0.0005	2.12	0.00012
40. Cadmium	✓									
41. Chromium III	✓									
42. Chromium VI	✓									

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		✓	1	grab	sw6010B	15 ug/L	113	0.026	113	0.006
44. Lead		✓	1	grab	sw6010B	10 ug/L	62	0.014	62	0.0035
45. Mercury	✓									
46. Nickel	✓									
47. Selenium	✓									
48. Silver	✓									
49. Zinc	✓									
50. Iron		✓	1	grab	sw200.7	600 ug/L	24,400	5.577	24,400	1.39
Other (describe):										

c) For discharges where **metals** are believed present, please fill out the following:

Step 1: Do any of the metals in the influent have a **reasonable potential** to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y_✓_ N____	If yes, which metals? copper, lead, iron
Step 2: For any metals which have **reasonable potential** to exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: copper 2070, lead 430, iron 5000 DF: 4142	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y_✓_ N____ If "Yes," list which metals: iron

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank ✓	Air stripper	Oil/water separator	Equalization tanks	Bag filter ✓	GAC filter ✓
	Chlorination	Dechlorination	Other (please describe):			
c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate**(s) (gallons per minute) of the treatment system: Average flow rate of discharge 40 Maximum flow rate of treatment system 50 Design flow rate of treatment system 40						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): none						

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct____	Within facility__	Storm drain ✓	River/brook____	Wetlands____	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: Storm drain on property to Merrimack River <100 feet to north						
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.						
d) Provide the state water quality classification of the receiving water Merrimack River Class SB,						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 930 cfs Please attach any calculation sheets used to support stream flow and dilution calculations.						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes____ No X If yes, for which pollutant(s)? Is there a TMDL? Yes____ No X If yes, for which pollutant(s)?						

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes ✓ No____
Has any consultation with the federal services been completed ? Yes___ No ✓ or is consultation underway? Yes ____ No ✓
What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):
a "no jeopardy" opinion? _____or written concurrence____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes_____ No ✓ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes_____ No ✓

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following 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, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

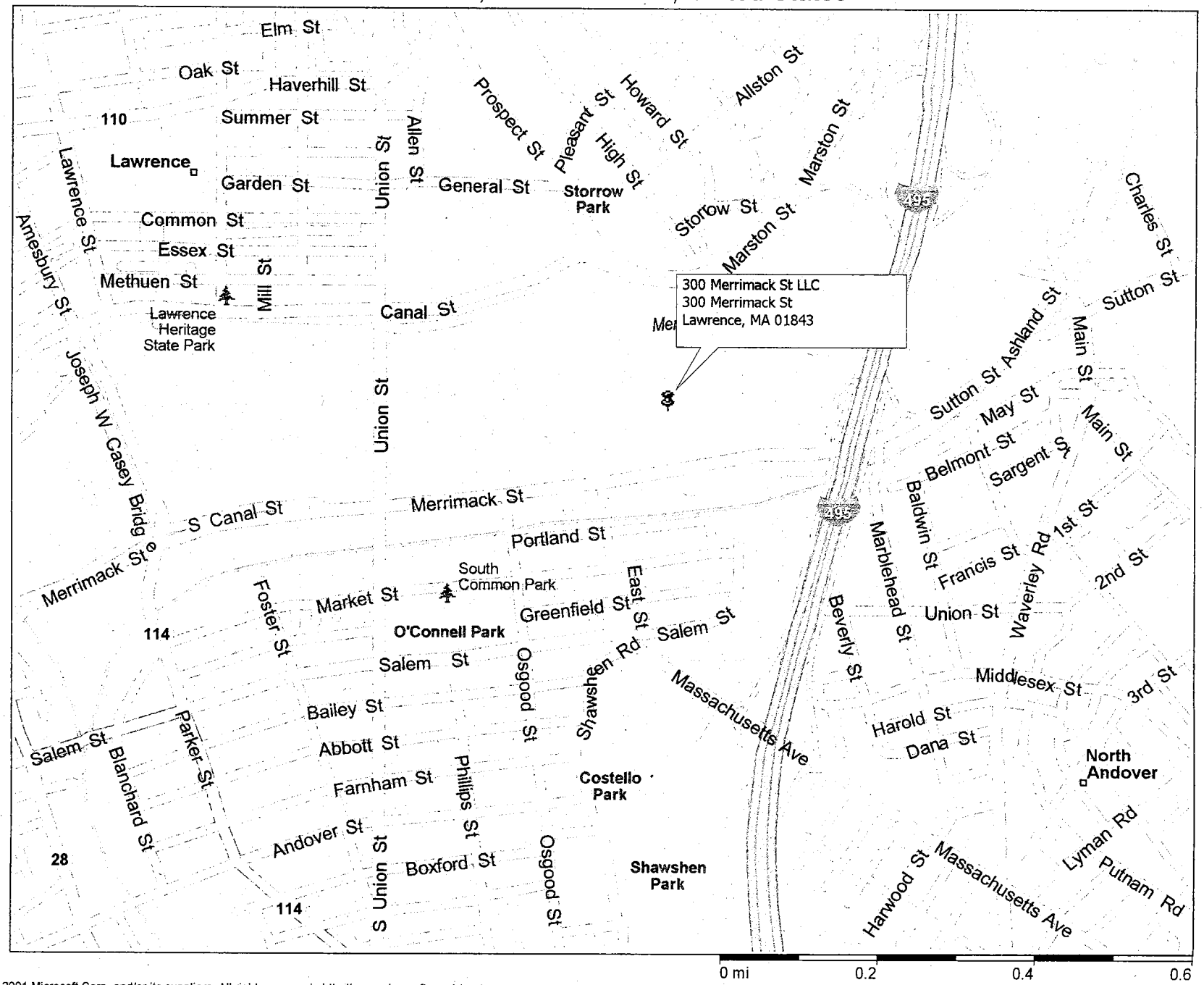
Facility/Site Name: 300 Merrimack Street LLC

Operator signature:

Title: Jeffery L. Dill CHMM - President of JTS Group, Inc.

Date: 07/14/09

Lawrence, Massachusetts, United States



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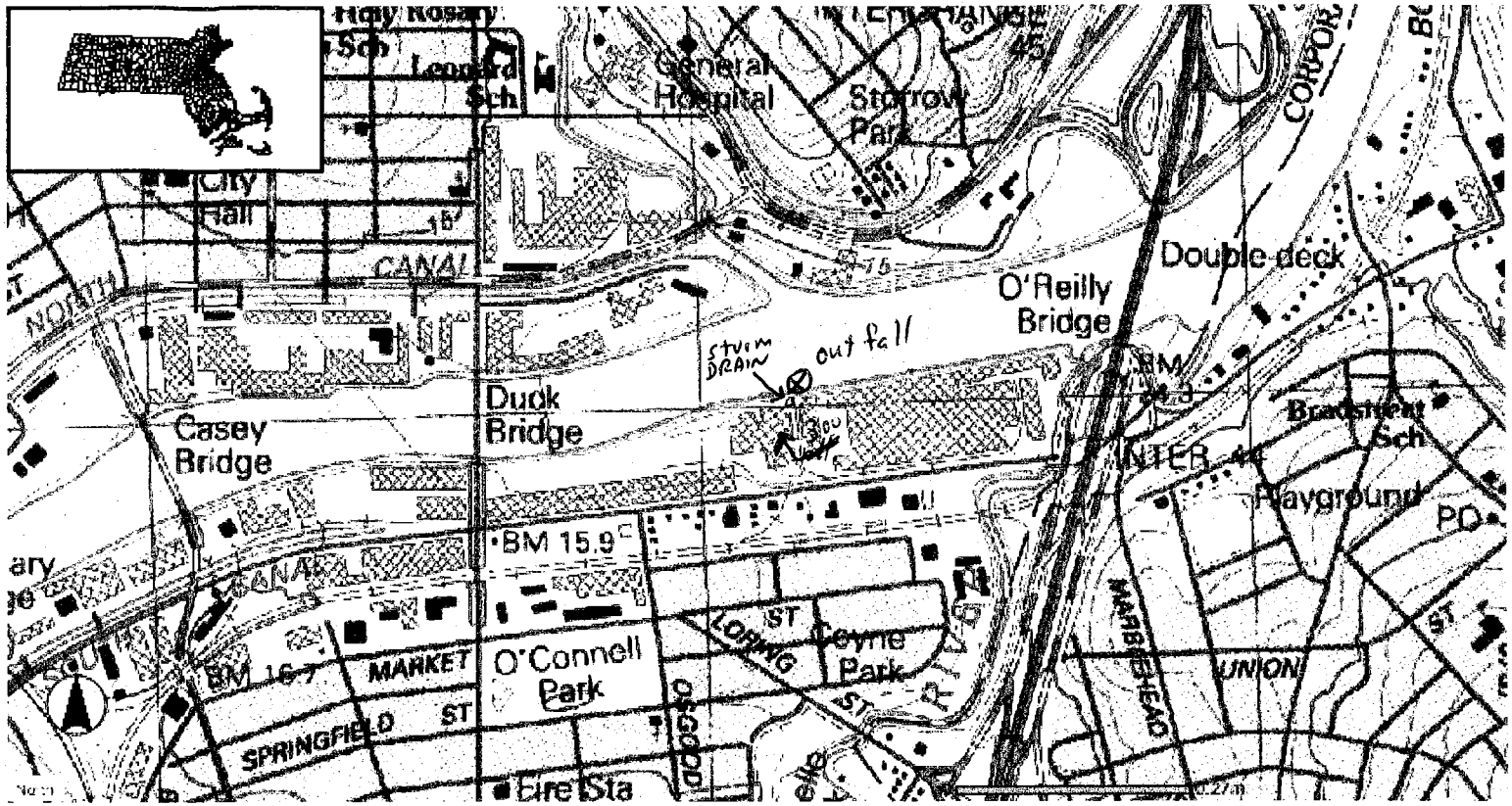
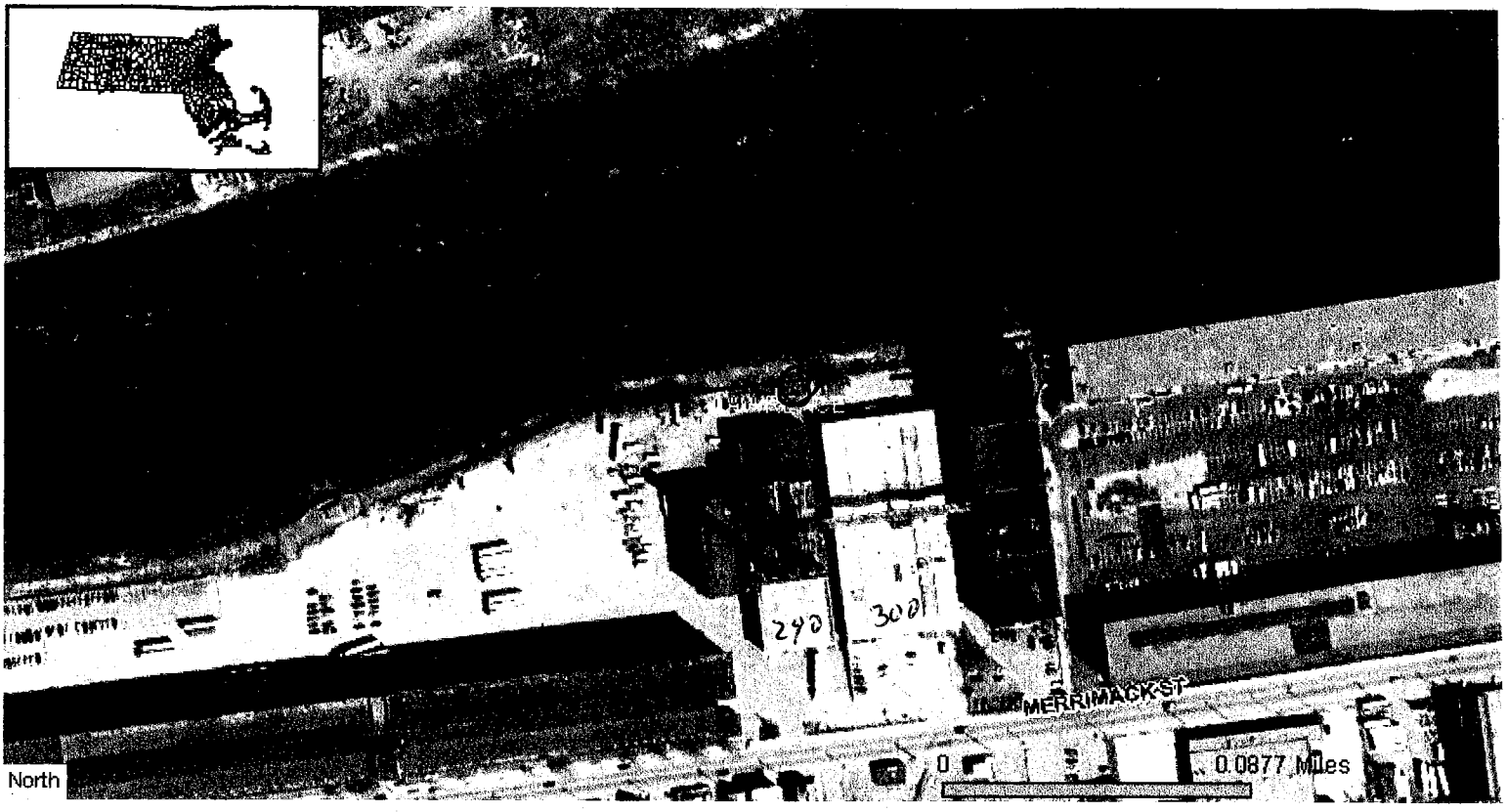


300 MERRIMACK STREET LLC



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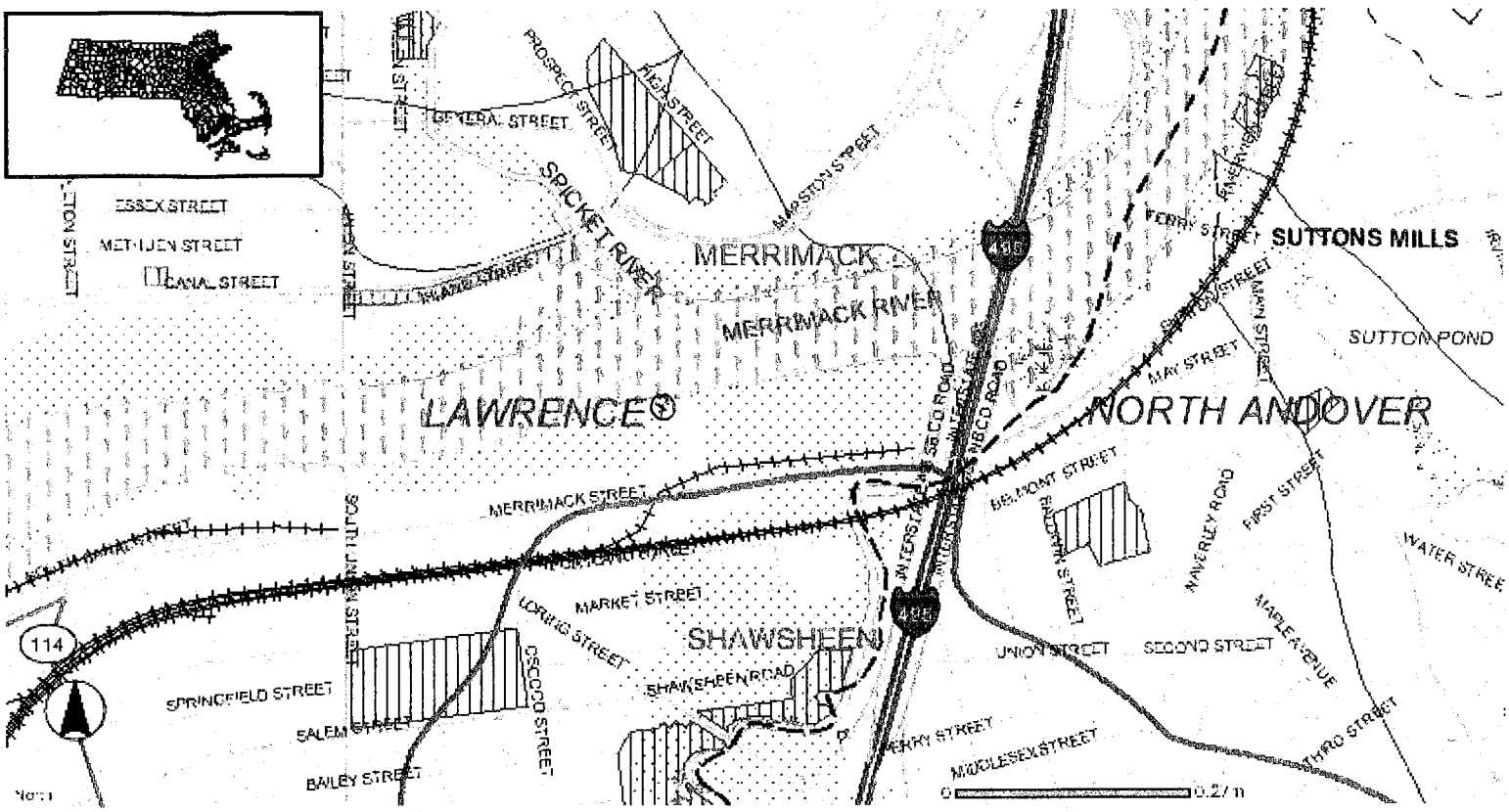
DRAIN IN CIRCLE
IN Line with Alley
Between 290 + 300
Merrimack st


ESSEX STREET
METHUEN STREET
CANAL STREET
GENERAL STREET
PROSPECT STREET
HIGH STREET
SPICKET RIVER
MERRIMACK
MERRIMACK RIVER
SUTTONS MILLS
SUTTON POND
LAWRENCE
NORTH ANDOVER
MERRIMACK STREET
MARKET STREET
LORING STREET
SHAWSHEEN
SHAWSHEEN ROAD
SPRINGFIELD STREET
SALEM STREET
BAILEY STREET
OSGOOD STREET
SOUTH UNION STREET
BELMONT STREET
UNION STREET
SECOND STREET
MIDDLESEX STREET
FIRST STREET
WATER STREET
MAPLE AVENUE
THIRD STREET
MAY STREET
MAIN STREET
FERRY STREET
114
495
0
0.27 m

DEP MCP 21e Map Legend

- Zone IIs
- IWPAs
- Zone A
- Sole Source Aquifers
- Solid Waste Landfill
- Protected Openspace
- ACECs
- NHESP Estimated Habitat of Rare Wildlife in Wetland Areas
- Certified Vernal Pools 2003 NHESP
- Subbasins
- Mass Major Basins
- DEP Region
- Town Arcs
- County Boundaries

Aquifers, By Yield

- HIGH YIELD
- MEDIUM YIELD

Non Potential Drinking Water Source Area

- HIGH YIELD
- MEDIUM YIELD

FEMA Floodplains

- 100 YEAR FLOODPLAIN

Hydrography

- WATER
- RESERVOIR
- WETLANDS
- SALTWATER WETLANDS
- FLATS SHOALS

Rivers and Streams

- PERENNIAL
- INTERMITTENT
- SHORELINE
- MAN MADE SHORE
- DAM
- AQUEDUCT

EOT-OTP Roads

- LIMITED ACCESS HIGHWAY
- MULTILANE HWY NOT LIMITED ACCESS
- OTHER NUMBERED HWY
- MAJOR ROAD COLLECTOR
- MINOR STREET OR ROAD RAMP

Tracks and Trails MHD

- TRACK
- TRAIL

Transmission Lines

- PIPELINE
- POWERLINE
- TRAIN

News: Recent changes

Massachusetts Funding Cuts Will Lead to Loss of Critical Streamflow Information

In response to recent budget reductions for the Commonwealth of Massachusetts for fiscal year 2010, the Massachusetts Department of Conservation and Recreation (DCR) will be reducing their support for the USGS streamgaging program in many basins across Massachusetts. As a result, 18 of the 93 streamgages funded by DCR in Massachusetts will be discontinued. On July 1, 2009, data collection at 13 of the 18 streamgages was discontinued. The USGS will continue to collect data at five of the most critical of the 18 streamgages while alternative sources of funding are sought. However, these five streamgages will be discontinued in 2010 if no other funding sources are secured.

If any Federal, State or local agencies are interested in providing additional funds to operate any of these stations, please contact: Wayne Sonntag, Director, Massachusetts-Rhode Island Water Science Center, at 508-490-5002 or by e-mail at wsonntag@usgs.gov or Gardner Bent at (508) 490-5041 or by e-mail at gbent@usgs.gov

Further detailed information on the loss of critical streamflow information is available in a Congressional Notification letter at: Notification MA streamgages 06.09.pdf

Discontinued July 1, 2009

STATION NO.	STATION NAME	PERIOD OF RECORD
010965995	Assabet River at Mill Road near Westborough	July 2006 - present
01097480	Sudbury River at Ashland	May 1994 - Oct. 1995, and Oct. 2006 - present
01101344	Ipswich River at Mill Street near North Reading	Sept. 2007 - present
01101400	Martins Brook near North Reading	Sept. 2007 - present
01103220	Miscoe Brook near Franklin	Sept. 2000 - present
01103455	Trout Brook at Dover	June 2007 - present
01105638	Weir River at Leavitt Street at Hingham	April 2006 - present
011058756	Eel River at Russell Mill Road near Plymouth	April 2006 - present
01106500	Matfield River at Elmwood	Dec. 2006 - present
01109090	Rattlesnake Brook near Assonet	Jan. 2007 - present
01109220	Palmer River at South Rehoboth	Feb. 2006 - present
01111225	Emerson Brook near Uxbridge	Sept. 2007 - present
01170930	Mill River at Christian Lane at Whately	Sept. 2006 - present

To be discontinued July 1, 2010

STATION NO.	STATION NAME	PERIOD OF RECORD
01100627	Shawsheen River at Balmoral Street at Andover	Oct. 2006 - present
01103050	Mystic River at Amelia Earhardt Dam near Somerville	Dec. 2007 - present
01108320	Canoe River near Norton	July 2006 - present
01176780	Twelvemile Brook near North Wilbraham	July 2007 - present
01198000	Green River near Great Barrington	Oct. 1951 - Sept. 1972, March 1994 - Sept. 199 and Aug. 2007 - present

USGS 01100000 MERRIMACK RIVER BL CONCORD RIVER AT LOWELL, MA

PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site Time-series: Real-time data GO

LOCATION--Lat 42° 38'45", long 71° 17'56", Middlesex County, Hydrologic Unit 01070002, on right bank at Lowell, 1,100 ft downstream from Concord River.
DRAINAGE AREA--Total above gage, 4,635 mi^2; net above gage, 4,421 mi^2--excludes 214 mi^2 for use of Boston metropolitan district and city of Worcester.
PERIOD OF RECORD--Discharge: June 1923 to current year. Water-quality records: Water years 1954, 1966-74, 1999.
GAGE--Water-stage recorder with satellite telemeter. Datum of gage is 5.18 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 7, 1934, at Boot Mills, 1,800 ft upstream and 700 ft above mouth of Concord River, in same gage pool and at same datum; gage-height record (provided by Proprietors of the Locks and Canals on Merrimack

River) was indicative of flow including that of Concord River.

REMARKS--Daily discharge includes water released from 210 mi^2 in basins of Sudbury and Nashua Rivers and Lake Cochituate. Flow regulated by powerplants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnipesaukee, Winnisquam, and other lakes and reservoirs upstream.

COOPERATION BY--Massachusetts Department of Environmental Protection, Division of Watershed Management, Massachusetts Department of Conservation and Recreation, and U.S. Geological Survey Federal Network

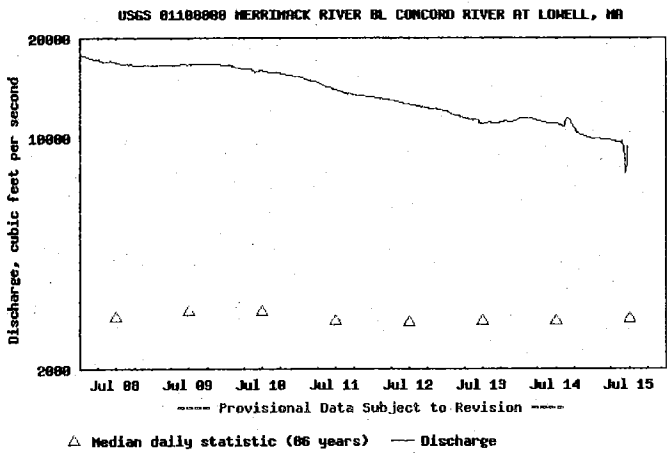
This station managed by the Northborough, MA Field Office.

Available Parameters	Output format	Days	
☐ All 2 Available Parameters for this site ☑ 00060 Discharge ☑ 00065 Gage height	Graph Graph w/ stats Graph w/o stats Table Tab-separated	7 (1-60)	GO

Summary of all available data for this site

Discharge, cubic feet per second

Most recent instantaneous value: 9,430 07-15-2009 11:30



Create presentation-quality graph

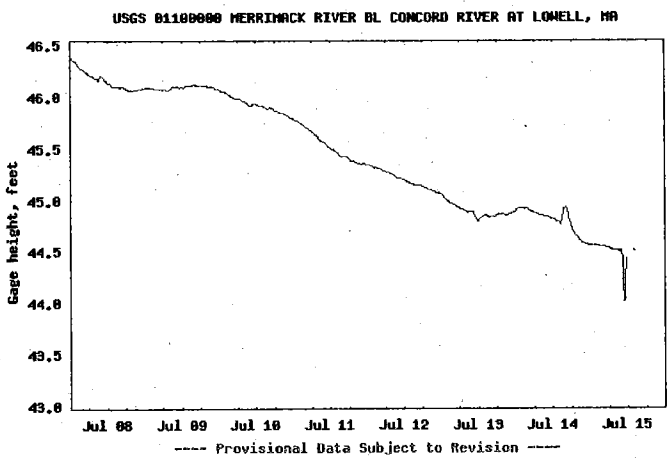
Parameter 00060; DD 02

Daily discharge statistics, in cfs, for Jul 15 based on 86 years of record more

Min (1923)	20th percen-tile	Median	Mean	80th percen-tile	Most Recent Instantaneous Value	Max (1996)
350	1660	2830	3460	4450	9,430	22000

Gage height, feet

Most recent instantaneous value: 44.42 07-15-2009 11:30



Create presentation-quality graph

Parameter 00065; DD 08

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U.S. Department of the Interior | U.S. Geological Survey
Title: USGS Real-Time Water Data for Massachusetts
URL: http://waterdata.usgs.gov/ma/nwis/uv?

Page Contact Information: Massachusetts NWISWeb Maintainer
Page Last Modified: 2009-07-15 12:34:18 EDT
1.65 1.61 sd02

ANALYTICAL REPORT

Monday, July 13, 2009

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Jeff Dill
JTS Group, Inc.
74 William St
Worcester, MA 01609

TEL: (508) 791-3775
FAX: (508) 798-9134

Project: 300 Merrimack St-Sal's
Location:

Order No.: 0906393

Dear Jeff Dill:

GeoLabs, Inc. received 1 sample(s) on 6/26/2009 for the analyses presented in the following report.

This report is being re-issued with TBA, TAME, 1,4-Dioxane, and 13 PPM. All data for associated QC met method or laboratory specifications, except when noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Charles Morrow

Charles Morrow
Laboratory Director

For current certifications, please visit our website at www.geolabs.com
Certifications:
CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)
Accredited in Accordance with NELAC

CLIENT: JTS Group, Inc.
Project: 300 Merrimack St-Sal's
Lab Order: 0906393

CASE NARRATIVE

Physical Condition of Samples

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

All extractable samples were extracted and analyzed and any Volatile samples were analyzed within method specified holding times and according to GeoLabs documented Standard Operating Procedure. No analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples. Prep Comments for 3510_PCB, Sample 0906393-001A: 40% emultion

ANALYTICAL REPORT

Reported Date: 13-Jul-09

CLIENT:	JTS Group, Inc.	**Client Sample ID:**	Bunker 6 Oil
Lab Order:	0906393	**Collection Date:**	6/26/2009 12:37:00 PM
Project:	300 Merrimack St-Sal's	**Date Received:**	6/26/2009
Lab ID:	0906393-001	**Matrix:**	WASTE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TPH FINGERPRINT - 8100M						Analyst: **Admir**
Diesel Fuel #2	ND	2.63		mg/L	10	6/30/2009
Fuel #4	ND	2.63		mg/L	10	6/30/2009
Fuel #6	***41.7***	2.63		mg/L	10	6/30/2009
Gasoline	ND	2.63		mg/L	10	6/30/2009
Kerosene/Jet Fuel	ND	2.63		mg/L	10	6/30/2009
Motor Oil	ND	2.63		mg/L	10	6/30/2009
Parafin Oil	ND	2.63		mg/L	10	6/30/2009
Transformer Oil	ND	2.63		mg/L	10	6/30/2009
Total Petroleum Hydrocarbons	***41.7***	2.63		mg/L	10	6/30/2009
Surr: o-Terphenyl	90.0	40-140		%REC	10	6/30/2009
POLYCHLORINATED BIPHENYLS - SW8082						Analyst: **Admir**
Aroclor 1016/1242	***4.72***	0.311		µg/L	1	6/30/2009
Aroclor 1221	ND	0.311		µg/L	1	6/30/2009
Aroclor 1232	ND	0.311		µg/L	1	6/30/2009
Aroclor 1248	ND	0.311		µg/L	1	6/30/2009
Aroclor 1254	ND	0.311		µg/L	1	6/30/2009
Aroclor 1260	ND	0.311		µg/L	1	6/30/2009
Surr: Decachlorobiphenyl Sig 1	69.3	30-150		%REC	1	6/30/2009
Surr: Decachlorobiphenyl Sig 2	54.3	30-150		%REC	1	6/30/2009
Surr: Tetrachloro-m-Xylene Sig 1	79.4	30-150		%REC	1	6/30/2009
Surr: Tetrachloro-m-Xylene Sig 2	83.3	30-150		%REC	1	6/30/2009
TOTAL METALS BY GFAA - E200.9						Analyst: **QS**
Arsenic	***0.00212***	0.00100		mg/L	1	6/29/2009
Thallium	ND	0.00100		mg/L	1	6/29/2009
TOTAL METALS BY ICP - SW6010B						Analyst: **QS**
Antimony	ND	0.00600		mg/L	1	6/29/2009
Barium	ND	2.00		mg/L	1	6/29/2009
Beryllium	ND	0.00400		mg/L	1	6/29/2009
Cadmium	ND	0.00400		mg/L	1	6/29/2009
Chromium	ND	0.100		mg/L	1	6/29/2009
Copper	***0.113***	0.0150		mg/L	1	6/29/2009
Lead	***0.0620***	0.0100		mg/L	1	6/29/2009
Nickel	ND	0.100		mg/L	1	6/29/2009
Selenium	ND	0.0500		mg/L	1	6/29/2009

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside recovery limits
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

ANALYTICAL REPORT

Reported Date: 13-Jul-09

CLIENT:	JTS Group, Inc.	**Client Sample ID:**	Bunker 6 Oil
Lab Order:	0906393	**Collection Date:**	6/26/2009 12:37:00 PM
Project:	300 Merrimack St-Sal's	**Date Received:**	6/26/2009
Lab ID:	0906393-001	**Matrix:**	WASTE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP - SW6010B						Analyst: **QS**
Zinc	ND	0.900		mg/L	1	6/29/2009
TOTAL SILVER - E200.7						Analyst: **QS**
Silver	ND	0.00700		mg/L	1	6/29/2009
TOTAL MERCURY - E245.1						Analyst: **EC**
Mercury	ND	0.0002		mg/L	1	6/29/2009
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: **ZYZ**
1,1,1,2-Tetrachloroethane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,1,1-Trichloroethane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,1,2-Trichloroethane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,1-Dichloroethane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,1-Dichloroethene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,1-Dichloropropene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,2,3-Trichlorobenzene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
1,2-Dibromo-3-Chloropropane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,2-Dichlorobenzene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
1,3-Dichlorobenzene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,3-Dichloropropane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
1,4-Dichlorobenzene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
2-Butanone	ND	10.0		µg/L	1	6/28/2009 1:20:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
2-Hexanone	ND	10.0		µg/L	1	6/28/2009 1:20:00 PM
2-Methoxy-2-Methylbutane (TAME)	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
4-Chlorotoluene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
4-Isopropyltoluene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside recovery limits		

ANALYTICAL REPORT

Reported Date: 13-Jul-09

CLIENT:	JTS Group, Inc.	**Client Sample ID:**	Bunker 6 Oil
Lab Order:	0906393	**Collection Date:**	6/26/2009 12:37:00 PM
Project:	300 Merrimack St-Sal's	**Date Received:**	6/26/2009
Lab ID:	0906393-001	**Matrix:**	WASTE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: ZYZ
4-Methyl-2-Pentanone	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Acetone	ND	50.0		µg/L	1	6/28/2009 1:20:00 PM
Acrolein	ND	50.0		µg/L	1	6/28/2009 1:20:00 PM
Acrylonitrile	ND	50.0		µg/L	1	6/28/2009 1:20:00 PM
Benzene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Bromobenzene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Bromochloromethane	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Bromodichloromethane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Bromoform	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Bromomethane	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Carbon Disulfide	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Carbon Tetrachloride	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Chlorobenzene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Chloroethane	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Chloroform	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Chloromethane	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
cis-1,2-Dichloroethene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
cis-1,3-Dichloropropene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Dibromochloromethane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Dibromomethane	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Dichlorodifluoromethane	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Ethylbenzene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Hexachlorobutadiene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Isopropylbenzene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Methyl Tert-Butyl Ether	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Methylene Chloride	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Naphthalene	ND	20.0		µg/L	1	6/28/2009 1:20:00 PM
n-Butylbenzene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
n-Propylbenzene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
sec-Butylbenzene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Styrene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
tert-Butanol	ND	30.0		µg/L	1	6/28/2009 1:20:00 PM
tert-Butylbenzene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Tetrachloroethene	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Toluene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
trans-1,2-Dichloroethene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
trans-1,3-Dichloropropene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Trichloroethene	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside recovery limits		

GeoLabs, Inc.
45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reported Date: 13-Jul-09

CLIENT:	JTS Group, Inc.	**Client Sample ID:**	Bunker 6 Oil
Lab Order:	0906393	**Collection Date:**	6/26/2009 12:37:00 PM
Project:	300 Merrimack St-Sal's	**Date Received:**	6/26/2009
Lab ID:	0906393-001	**Matrix:**	WASTE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: **ZYZ**
Trichlorofluoromethane	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Vinyl Chloride	ND	2.00		µg/L	1	6/28/2009 1:20:00 PM
Xylenes, Total	ND	5.00		µg/L	1	6/28/2009 1:20:00 PM
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	1	6/28/2009 1:20:00 PM
Surr: 4-Bromofluorobenzene	98.1	70-130		%REC	1	6/28/2009 1:20:00 PM
Surr: Dibromofluoromethane	105	70-130		%REC	1	6/28/2009 1:20:00 PM
Surr: Toluene-d8	93.2	70-130		%REC	1	6/28/2009 1:20:00 PM
1,4-DIOXANE						Analyst: **MR**
1,4-Dioxane	ND	5.00		µg/L	1	6/10/2009
SPECIFIC CONDUCTANCE - E120.1						Analyst: **RP**
Specific Conductance	*1080*	0.100		µmhos/cm	1	6/26/2009
PH - SM4500-H-B						Analyst: **Admir**
pH	7.2	0		pH units	1	6/26/2009 4:00:00 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

CHAIN OF CUSTODY RECORD
GeoLabs, Inc. *Environmental Laboratories*
45 Johnson Lane, Braintree, MA 02184
p 781.848.7844 • f 781.848.7811
www.geolabs.com

Sample Handling: circle choice
Filtration: Done / Not Needed / Lab to do
Preservation: Lab to do / N

Special Inst
*add TBA, TAME, 1,4-Dioxane, & 13 PPM per Jeff D DRTli

Turnaround: circle one
1-day 3-day
2-day 5 / 7-days

Data Delivery: circle choice (s)
Fax email
Format:
Excel PDF

Requirements: circle choice (s
GW-1 MCP Methods CT RCP (Reasonable Confi
S-1 DEP State / Fed Program - Crit
QC Other _____

Client: JTS Group Inc
Address: 74 William St
WORCESTER, MA 01609
Contact: JEFFERY DILL

Phone: 508 791 3775
Fax: 508 798 9134
email: JTS Dill @ Charter.net

Project: 300 M
Project PO:
Invoice to *:

Preserative:

COLLECTION DATE	TIME	SAMPLED BY	SAMPLE LOCATION / ID	CONTAINER TYPE	QUANITY	MATRIX	COMP	GRAB	GeoLabs SAMPLE NUMBER	Ana TPH Fingerprint	VOC 8260	PCB	pH
6/26/09	12:37 P	JLD	Bunker 6 oil	A	2	WW		X	6393-001	X	+	+	+

Adjusted pH with HNO_3
LOT # Mole
6/26

Matrix Codes:
GW = Ground Water DW = Drinking Water S = Soil A = Air
WW = Waste Water SL = Sludge O = Oil OT = Other

Received on Ice

Preservatives
1 = Hcl 3 = H2SO4 5 = NaOH 7 = Other
2 = HNO3 4 = Na2S2O3 6 = MEOH

Relinquished by: Date / Time
6/26/09 13:14
6/26/09 14:40

Received by:

Page 7 of 7

280598.J&P.C of CR.08/19/08

* Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection cost.
Note: Homeowners and Law Firms must pay when dropping off samples. We accept cash, check and credit cards.

CT (PH-0148) NY(11796) MA (MA PA (68-0

ANALYTICAL REPORT

Tuesday, July 07, 2009

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Jeff Dill
JTS Group, Inc.
74 William St
Worcester, MA 01609

TEL: (508) 791-3775
FAX: (508) 798-9134

Project: Sal's - 300 Merrimack St
Location:

Order No.: 0907041

Dear Jeff Dill:

GeoLabs, Inc. received 1 sample(s) on 7/3/2009 for the analyses presented in the following report.

All data for associated QC met method or laboratory specifications, except when noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Charles Morrow
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)
Accredited in Accordance with NELAC

CLIENT: JTS Group, Inc.
Project: Sal's - 300 Merrimack St
Lab Order: 0907041

CASE NARRATIVE

Physical Condition of Samples

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

All extractable samples were extracted and analyzed and any Volatile samples were analyzed within method specified holding times and according to GeoLabs documented Standard Operating Procedure. No analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples.

ANALYTICAL REPORT

Reported Date: 07-Jul-09

CLIENT:	JTS Group, Inc.	**Client Sample ID:**	Bunker #6 Oil
Lab Order:	0907041	**Collection Date:**	7/2/2009 1:01:00 PM
Project:	Sal's - 300 Merrimack St	**Date Received:**	7/3/2009
Lab ID:	0907041-001	**Matrix:**	WASTE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS - SM2540-D						Analyst: **FC**
Total Suspended Solids	*38.0*	4.00		mg/L	1	7/3/2009
TOTAL METALS BY ICP - E200.7						Analyst: **QS**
Iron	*24.4*	0.600		mg/L	10	7/7/2009
SEMIVOLATILE ORGANICS - SW8270C						Analyst: **MR**
1,2,4-Trichlorobenzene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
1,2-Dichlorobenzene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
1,2-Dinitrobenzene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
1,3-Dichlorobenzene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
1,3-Dinitrobenzene	ND	2.63		µg/L	1	7/6/2009 11:41:00 PM
1,4-Dichlorobenzene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
1,4-Dinitrobenzene	ND	2.63		µg/L	1	7/6/2009 11:41:00 PM
2,3,4,6-Tetrachlorophenol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
2,4,5-Trichlorophenol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
2,4,6-Trichlorophenol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
2,4-Dichlorophenol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
2,4-Dimethylphenol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
2,4-Dinitrophenol	ND	5.26		µg/L	1	7/6/2009 11:41:00 PM
2,4-Dinitrotoluene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
2,6-Dinitrotoluene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
2-Chloronaphthalene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
2-Chlorophenol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
2-Methylnaphthalene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
2-Methylphenol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
2-Nitroaniline	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
2-Nitrophenol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
3,3'-Dichlorobenzidine	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
3-Methylphenol/4-Methylphenol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
3-Nitroaniline	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
4,6-Dinitro-2-Methylphenol	ND	5.26		µg/L	1	7/6/2009 11:41:00 PM
4-Bromophenyl Phenyl Ether	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
4-Chloro-3-Methylphenol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
4-Chloroaniline	ND	2.63		µg/L	1	7/6/2009 11:41:00 PM
4-Chlorophenyl Phenyl Ether	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
4-Nitroaniline	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
4-Nitrophenol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside recovery limits		

ANALYTICAL REPORT

Reported Date: 07-Jul-09

CLIENT:	JTS Group, Inc.	**Client Sample ID:**	Bunker #6 Oil
Lab Order:	0907041	**Collection Date:**	7/2/2009 1:01:00 PM
Project:	Sal's - 300 Merrimack St	**Date Received:**	7/3/2009
Lab ID:	0907041-001	**Matrix:**	WASTE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270C						Analyst: **MR**
Acenaphthene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Acenaphthylene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Acetophenone	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Aniline	ND	5.26		µg/L	1	7/6/2009 11:41:00 PM
Anthracene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Azobenzene	ND	5.26		µg/L	1	7/6/2009 11:41:00 PM
Benz(a)Anthracene	***4.05***	0.105		µg/L	1	7/6/2009 11:41:00 PM
Benzidine	ND	5.26		µg/L	1	7/6/2009 11:41:00 PM
Benzo(a)Pyrene	***2.49***	0.105		µg/L	1	7/6/2009 11:41:00 PM
Benzo(b)Fluoranthene	***2.19***	0.105		µg/L	1	7/6/2009 11:41:00 PM
Benzo(g,h,i)Perylene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Benzo(k)Fluoranthene	***0.758***	0.105		µg/L	1	7/6/2009 11:41:00 PM
Benzyl Alcohol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Bis(2-Chloroethoxy)Methane	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Bis(2-Chloroethyl)Ether	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Bis(2-Chloroisopropyl)Ether	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Bis(2-Ethylhexyl)Phthalate	***272***	10.5		µg/L	10	7/6/2009 7:33:00 PM
Butyl Benzyl Phthalate	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Carbazole	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Chrysene	***8.75***	1.05		µg/L	1	7/6/2009 11:41:00 PM
Dibenz(a,h)Anthracene	ND	0.105		µg/L	1	7/6/2009 11:41:00 PM
Dibenzofuran	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Diethyl Phthalate	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Dimethyl Phthalate	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Di-n-Butyl Phthalate	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Di-n-Octyl Phthalate	***70.6***	1.05		µg/L	1	7/6/2009 11:41:00 PM
Fluoranthene	***2.29***	1.05		µg/L	1	7/6/2009 11:41:00 PM
Fluorene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Hexachlorobenzene	ND	2.63		µg/L	1	7/6/2009 11:41:00 PM
Hexachlorobutadiene	ND	2.63		µg/L	1	7/6/2009 11:41:00 PM
Hexachlorocyclopentadiene	ND	5.26		µg/L	1	7/6/2009 11:41:00 PM
Hexachloroethane	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Indeno(1,2,3-cd)Pyrene	ND	0.105		µg/L	1	7/6/2009 11:41:00 PM
Isophorone	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Naphthalene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Nitrobenzene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
N-Nitrosodimethylamine	ND	5.26		µg/L	1	7/6/2009 11:41:00 PM
N-Nitrosodi-n-Propylamine	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside recovery limits		

ANALYTICAL REPORT

Reported Date: 07-Jul-09

CLIENT:	JTS Group, Inc.	**Client Sample ID:**	Bunker #6 Oil
Lab Order:	0907041	**Collection Date:**	7/2/2009 1:01:00 PM
Project:	Sal's - 300 Merrimack St	**Date Received:**	7/3/2009
Lab ID:	0907041-001	**Matrix:**	WASTE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270C						Analyst: **MR**
N-Nitrosodiphenylamine	ND	5.26		µg/L	1	7/6/2009 11:41:00 PM
Pentachlorophenol	ND	2.63		µg/L	1	7/6/2009 11:41:00 PM
Phenanthrene	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Phenol	ND	1.05		µg/L	1	7/6/2009 11:41:00 PM
Pyrene	20.3	1.05		µg/L	1	7/6/2009 11:41:00 PM
Pyridine	ND	5.26		µg/L	1	7/6/2009 11:41:00 PM
Surr: 2,4,6-Tribromophenol	32.0	15-110		%REC	1	7/6/2009 11:41:00 PM
Surr: 2-Fluorobiphenyl	32.1	30-130		%REC	1	7/6/2009 11:41:00 PM
Surr: 2-Fluorophenol	22.6	15-110		%REC	1	7/6/2009 11:41:00 PM
Surr: Nitrobenzene-d5	24.7	30-130	S	%REC	1	7/6/2009 11:41:00 PM
Surr: Phenol-d6	15.4	15-110		%REC	1	7/6/2009 11:41:00 PM
Surr: Terphenyl-d14	43.9	30-130		%REC	1	7/6/2009 11:41:00 PM
CYANIDE, TOTAL - SM4500-CN-C,E						Analyst: **RP**
Cyanide, Total	ND	0.0197		mg/L	1	7/7/2009
TOTAL RESIDUAL CHLORINE - HACH 8167						Analyst: **RP**
Total Residual Chlorine	ND	0.200		mg/L	1	7/3/2009 11:05:00 AM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside recovery limits		

GeoLabs, Inc.
45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

0907041

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Sample Handling: circle choice
Filtration: Done / Not Needed / Lab to do
Preservation: Lab to do Y / N

Special Instr
2n, Sb, Ni, Cu, TBA, TAME, 1,4-Dioxa
in house DR 7/3

Turnaround: circle one
1-day 3-day
2-day 5 / 7-days

Data Delivery: circle choice (s)
Fax email
Format:
Excel PDF

Requirements: circle choice (s
GW-1 MCP Methods
S-1 DEP
QC Other _____
CT RCP (Reasonable Confi
State / Fed Program - Crite

Client: JTS Group Inc
Address: 74 William St
WORCESTER MA 01609
Contact: JEFF Dill

Phone: 508 791 3775
Fax: 508 798 9134
email: JTS Dill@charter.net

Project: SAL's
Project PO:
Invoice to *:

Preserative:

COLLECTION DATE	TIME	SAMPLED BY	SAMPLE LOCATION / ID	CONTAINER TYPE	QUANITY	MATRIX	COMP	GRAB	GeoLabs SAMPLE NUMBER	SVOC 8270	Total metals Sb, Cu, Ni, Fe	Cyanide total	Suspended SOLIDS
7/2/09	13:01	JLD	Bunker #6 Oil	A	4	WW		X	7041-001	X	X	X	X

Adjusted pH > 10
with NaOH
LOT # 063825
DR 7/3 9:10a

Matrix Codes:
GW = Ground Water DW = Drinking Water S = Soil A = Air
WW = Waste Water SL = Sludge O = Oil OT = Other

Received on Ice

Preservatives
1 = Hcl 3 = H2SO4 5 = NaOH 7 = Other
2 = HNO3 4 = Na2S2O3 6 = MEOH

Relinquished by:	Date / Time	Received by:
Jeffery L. Dill	7/2/09 13:08	JOHN R. DAVEY
JOHN R DAVEY	7/3/09 0750	Charles Morrow

Page 6 of 6

270675.J&P.C of CR.07/09/07

* Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection cost.
Note: Homeowners and Law Firms must pay when dropping off samples. We accept cash, check and credit cards.

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