CORPORATE ENVIRONMENTAL ADVISORS, INC.

Consultants | Engineers | Contractors

4/17/09 received MAG910413

April 15, 2009

US Environmental Protection Agency
Mail Code CMU
One Congress Street
Boston, MA 02114-2023
Attn: Shelly Puleo, Environmental Assistant

RE: NOI Submittal
Former Speedway Service Station
181 East Broadway
Gardner, Massachusetts 01440
MassDEP Release Tracking No. 2-0707

To Whom It May Concern:

On behalf of C.K. Smith Company, Inc. (CK Smith), Corporate Environmental Advisors, Inc. (CEA) is submitting this Notice of Intent (NOI) for the above-referenced site. The NOI is being submitted in accordance with the Provision for Contaminated Construction Dewatering under the Remediation General Permit (RGP). Construction-related dewatering is necessary at this location to facilitate the excavation of petroleum-impacted soil. On-site treatment of the extracted groundwater will be performed as outlined in the attached NOI prior to the proposed discharge.

If you have any questions, please feel free to contact us at 508-835-8822.

Sincerely,
Corporate Environmental Advisors, Inc.

John E. Harvey
Sr. Environmental Scientist

Michael J. Dziura, P.E.
Sr. Environmental Engineer

Pc: Mr. Dana Morse, AJJ Realty, Inc.
Ms. Janine Perley, CK Smith
Bureau of Waste Site Cleanup, MassDEP CERO
CEA File No. 2920-96

ADDRESS Hartwell Business Park
127 Hartwell Street, West Boylston, MA 01583
TEL 508.835.8822 . 800.358.7960
FAX 508.835.8812
WEB www.cea-inc.com

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**: Former Speedway Service Station		**Facility/site** address:		
Location of **facility/site**: longitude: 71° 58' 35" latitude: 42° 33' 15"	Facility SIC code (s): 4471	Street: 181 East Broadway		
b) Name of facility/site **owner**: AJJ Realty, Inc.		Town: Gardner		
Email address of owner:		State: MA	Zip: 01440	Co W
Telephone no. of facility/site **owner**: 978-632-0089				
Fax no. of facility/site **owner**:		**Owner** is (check one) 1. Federal ☐ 2. State/Tribal ☐ 3. other, ☐ if so, describe:		
Address of **owner** (if different from site):				
Street: 207 High Street				
Town: Gardner	State: MA	Zip: 01440	County: Worcester	
c.) Legal name of **operator**: Corporate Environmental Advisors, Inc.	**Operator** telephone no.: 508-835-8822			
	Operator fax no.: 508-835-8812		**Operator** ema MDziura@cea	
Operator contact name and title: Michael Dziura, Sr. Env. Engineer				
Address of **operator** (if different from owner):	Street: 127 Hartwell Street			
Town: West Boylston	State: MA	Zip: 01583	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 l22.2? 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: MA DEP 2. permit or license # assigned: Release Tracking Number 2-0707 3. state agency contact information: name, location, and telephone number: MADEP Bureau of Waste Site Cleanup, 627 Main Street, Worcester, MA	f) Is the site/facility covered by any other EP A permit, including: 1. multi-sector storm water general permit? Yes ☐ No ☒, if Y, number: 2. phase I or II construction storm water general permit? Yes ☐ No ☒, if Y, number: 3. individual NPDES permit? Yes ☐ No ☒, if Y, number: 4. any other water quality related permit? Yes ☐ No ☒, 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: Dewatering during excavation of approximately 1,000 cubic yards of petroleum-impacted soil. Groundwater will be extracted from the excavation and pumped into a 21,000-gallon frac tank for sediment removal. Water will be treated with granular activated carbon to remove petroleum compounds prior to discharge to the local stormwater drainage system. Approx. stormwater drainage outfall is depicted on Figure 4 attached..		
b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, W/s)? Max. flow 0.067 ft^3/sec Average flow 0.033 ft^3/sec Is maximum flow a **design value**? Yes ☒ No ☐, 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° 58' 35" lat. 42° 33' 15" ; 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): N/A	5) Is the discharge intermittent ☒ Or seasonal ☐ ? Is discharge ongoing Yes No ☒ Discharge is temporary in nature and is only related to excavation activities (dewatering)
c) Expected dates of discharge (mm/dd/yy): start 09/01/09 end 10/01/09	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: See attached figures 4 & 5. 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 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method (ug/l)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg/day)	concentration (ug/l)	mass (kg/day)
1. Total Suspended Solids		√	1	GRAB	SM 2540D	5,000	1,580,000	215		
2. Total Residual Chlorine	√		1	GRAB	SW-846 9012A	100	< 500			
3. Total Petroleum Hydrocarbons		√	1	GRAB	1664	1,000	8,600	1.2		
4. Cyanide	√		1	GRAB	9012A	10	<10			
5. Benzene	√		1	GRAB	5030	0.5	<20			
6. Toluene	√		1	GRAB	5030	0.5	<20			
7. Ethylbenzene		√	1	GRAB	5030	0.5	411	0.06		
8. (m,p,o) Xylenes		√	1	GRAB	5030	1.0	2,472	0.34		
9. Total BTEX[4]		√	1	GRAB	5030	-----	2,883	0.4		

[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 (ug/l)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg/day)	concentration (ug/l)	mass (kg/day)
10. Ethylene Dibromide (1,2- Dibromo-methane)	√		1	GRAB	504.1	0.010	< 0.01			
11. Methyl-tert-Butyl Ether (MtBE)	√		1	GRAB	5030	0.5	<20			
12. tert-Butyl Alcohol (TBA)	√		1	GRAB	5030	10	<200			
13. tert-Amyl Methyl Ether (TAME)	√		1	GRAB	5030	0.5	<20			
14. Naphthalene		√	1	GRAB	625	0.5	247	0.03		
15. Carbon Tetra-chloride	√		1	GRAB	5030	0.5	<20			
16. 1,4 Dichlorobenzene	√		1	GRAB	5030	0.5	<20			
17.1,2 Dichlorobenzene	√		1	GRAB	5030	0.5	<20			
18. 1,3 Dichlorobenzene	√		1	GRAB	5030	0.5	<20			
19. 1,1 Dichloroethane	√		1	GRAB	5030	0.5	<20			
20. 1,2 Dichloroethane	√		1	GRAB	5030	0.5	<20			
21. 1,1 Dichloroethylene	√		1	GRAB	5030	0.5	<20			
22. cis-l,2 Dichloro-ethylene	√		1	GRAB	5030	0.5	<20			
23. Dichloromethane (Methylene Chloride)	√		1	GRAB	5030	1.0	<200			
24. Tetrachloroethylene	√		1	GRAB	5030	0.5	<20			

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 (ug/l)	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg/day)	concentration (ug/l)	mass (kg/day)
25. 1,1,1 Trichloroethane	√		1	GRAB	5030	0.5	<20			
26. 1,1,2 Trichloroethane	√		1	GRAB	5030	0.5	<20			
27. Trichloroethylene	√		1	GRAB	5030	0.5	<20			
28. Vinyl Chloride	√		1	GRAB	5030	0.5	<20			
29. Acetone	√		1	GRAB	5030	10	<400			
30. 1,4 Dioxane	√		1	GRAB	5030	20	<200			
31. Total Phenols	√		1	GRAB	625	1	<50			
32. Pentachlorophenol	√		1	GRAB	625	1	<50			
33. Total Phthalates [6] (phthalate esthers)	√		1	GRAB	625	5	All phthalates are BDL see lab report	-		
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	√		1	GRAB	625	5	<50			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	√		1	GRAB	625	35	All Group I PAHs are BDL			
a. Benzo(a) Anthracene	√		1	GRAB	625	5	<50			
b. Benzo(a) Pyrene	√		1	GRAB	625	5	<50			
c. Benzo(b)Fluoranthene	√		1	GRAB	625	5	<50			
d. Benzo(k) Fluoranthene	√		1	GRAB	625	5	<50			
e. Chrysene	√		1	GRAB	625	5	<50			

[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 (ug/l)	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg/day)	concentration (ug/l)	mass (kg/day)
f. Dibenzo(a,h) anthracene	√		1	GRAB	625	5	<50			
g. Indeno(1,2,3-cd) Pyrene	√		1	GRAB	625	5	<50			
36. Total Group II Polycyclic Aromatic Hydrocarbons (pAR)	√		1	GRAB	625	34	247	0.03		
h. Acenaphthene	√		1	GRAB	625	1	<10			
i. Acenaphthylene	√		1	GRAB	625	5	<50			
j. Anthracene	√		1	GRAB	625	5	<50			
k. Benzo(ghi) Perylene	√		1	GRAB	625	5	<50			
l. Fluoranthene	√		1	GRAB	625	1	<50			
m. Fluorene	√		1	GRAB	625	5	<50			
n. Naphthalene-		√	1	GRAB	625	2	247	0.03		
o. Phenanthrene	√		1	GRAB	625	5	<50			
p. Pyrene	√		1	GRAB	625	5	<50			
37. Total Polychlorinated Biphenyls (PCBs)	√		1	GRAB	608	0.065	<0.065			
38. Antimony		√	1	GRAB	200.7	12	0.3	4E-05		
39. Arsenic		√	1	GRAB	200.7	5	468	0.06		
40. Cadmium	√		1	GRAB	200.7	25	< 0.2			
41. Chromium III (1)	√		1	GRAB	calculated	calculated	<5	-		
42. Chromium VI	√		1	GRAB	7196A	25	< 125			

NOTES: (1) Chromium III = Total Chromium – Hexavalent Chromium. According to lab personnel, the trivalent chromium is calculated to be greater or equal to 5 ug/l but less than 125 ug/l, Total Chromium was <5 ug/l and the Hexavalent Chromium was less than 125 ug/l.

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 (ug/l)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg/day)	concentration (ug/l)	mass (kg/day)
43. Copper	√		1	GRAB	200.7	5	<5			
44. Lead		√	1	GRAB	200.7	3	1.1	0.0001		
45. Mercury	√		1	GRAB	7470A	0.20	<0.20			
46. Nickel	√		1	GRAB	200.7	5	<5			
47. Selenium	√		1	GRAB	200.7	5	< 15			
48. Silver	√		1	GRAB	200.7	10	<0.2			
49. Zinc		√	1	GRAB	200.7	5	18.6	0.0025		
50. Iron		√	1	GRAB	200.7	5	18,400	2.5		
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? Arsenic and 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: Arsenic and Iron DF: 5.5	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: Arsenic and 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:
See Figures 4 and 5.

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 15 GPM Maximum flow rate of treatment system 30 GPM Design flow rate of treatment system 30 GPM

d) A description of chemical additives being used or planned to be used (attach MSDS sheets): Not Applicable

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

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:
Discharge to catchbasin and stormwater drainage system in East Broadway which discharges to Mahoney Brook. (See Figure 4)

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 A .

e) Provide the reported or calculated seven day-ten year low flow (7QlO) of the receiving water 0.3 cfs

Please attach any calculation sheets used to support stream flow and dilution calculations. See Attachment B

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ☐ No ☒ If yes, for which pollutant(s)? NA

Is there a TMDL? Yes ☐ No ☒ If yes, for which pollutant(s)? NA

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): Not applicable

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.

Attachment A - Figures

Figure 1 – Site Locus Map

Figure 2 – MassDEP Site Scoring Map

Figure 3 – Aerial Map

Figure 4 – Proposed Soil Excavation Area Map

Figure 5 – Treatment System Line Diagram

Attachment B – Dilution factor Calculations

Attachment C – Laboratory Analytical Report, Groundwater

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:

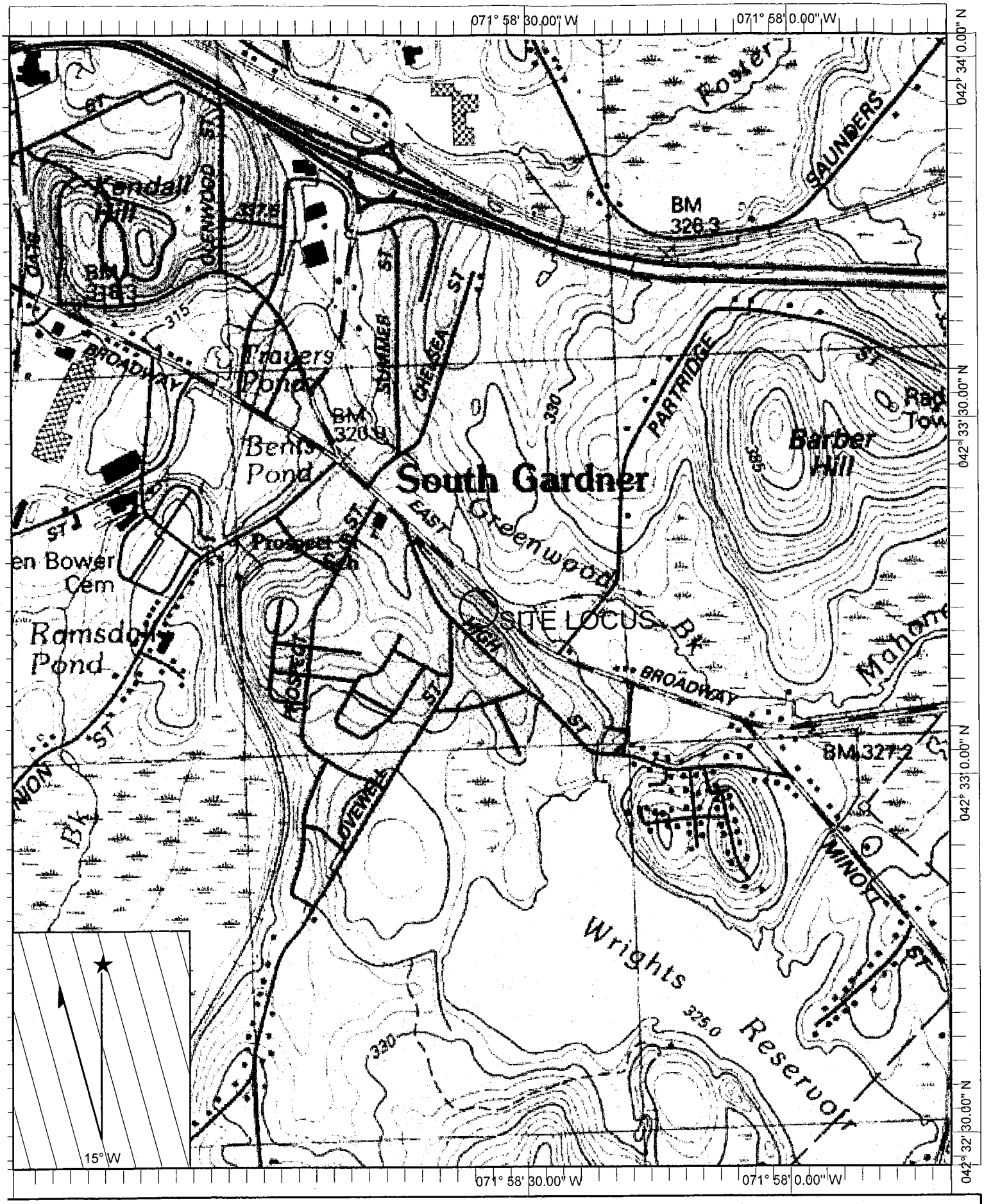
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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: Former Speedway Service Station, 181 East Broadway, Gardner, MA 01440

Operator signature: Michael J. Dziura

Title: Michael J. Dziura, Sr. Env. Engineer

Date: 4/15/09



Name: FITCHBURG
Date: 1/16/2004
Scale: 1 inch equals 1000 feet

Location: 042° 33' 14.6" N 071° 58' 35.3" W
Caption: FIGURE - 1
SITE LOCUS MAP
NOTE: 3 METER CONTOURS

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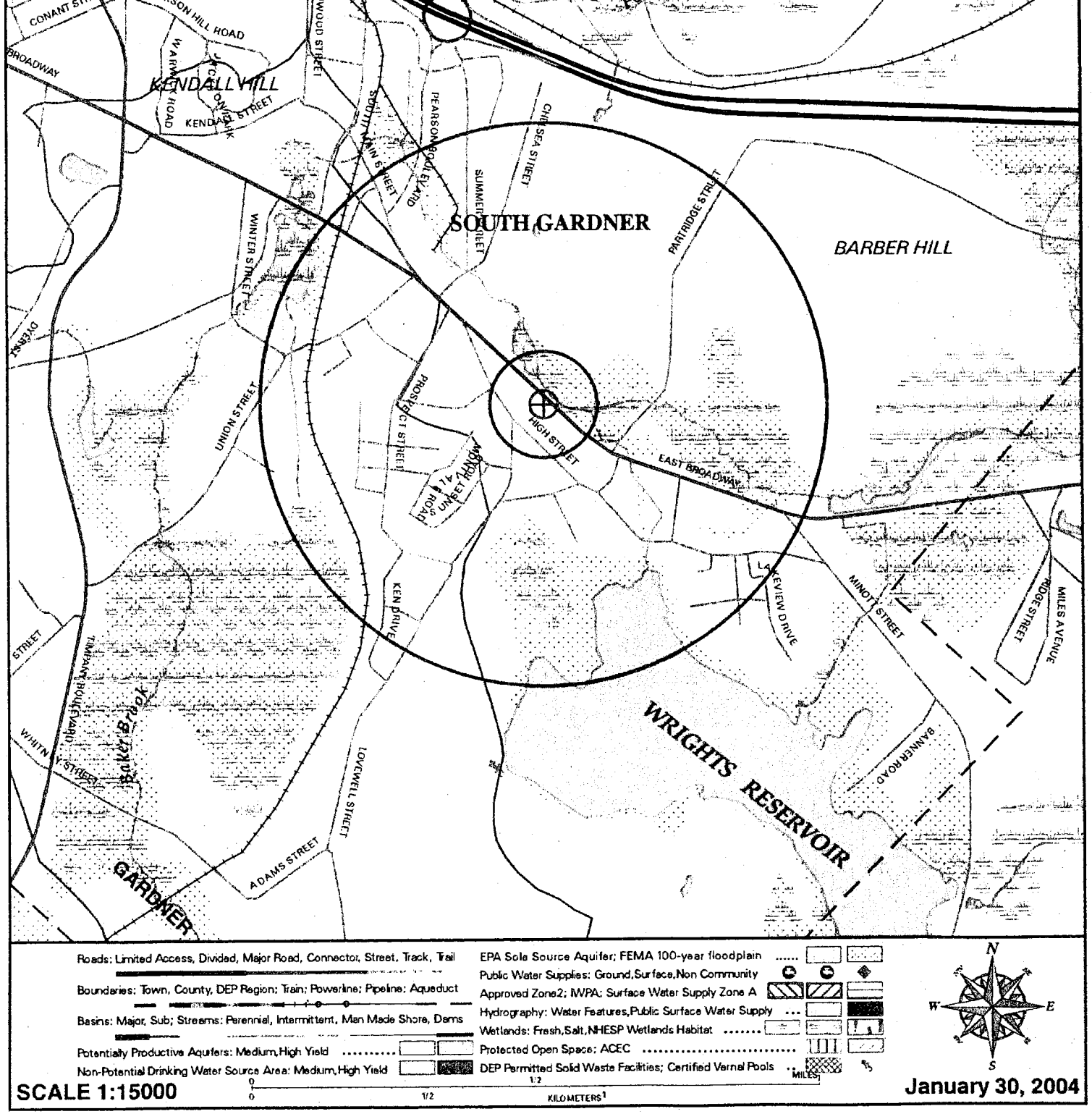

CONANT ST
BROADWAY
KENDALL HILL
KENDALL STREET
WARWICK ROAD
WOOD STREET
SOUTH MAIN STREET
PEARSON BOULEVARD
SUMMER STREET
CHELSEA STREET
SOUTH GARDNER
PARTRIDGE STREET
BARBER HILL
WINTER STREET
DYER ST
UNION STREET
PROSPECT STREET
HIGH STREET
EAST BROADWAY
KEN DRIVE
LAKEVIEW DRIVE
MINOTT STREET
RIDGE STREET
MILES AVENUE
STREET
TIMPANY BOULEVARD
Baker Brook
WHITNEY STREET
LOVEWELL STREET
WRIGHTS RESERVOIR
BANNER ROAD
ADAMS STREET
GARDNER
Roads: Limited Access, Divided, Major Road, Connector, Street, Track, Trail
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct
Basins: Major, Sub; Streams: Perennial, Intermittent, Man Made Shore, Dams
Potentially Productive Aquifers: Medium,High Yield
Non-Potential Drinking Water Source Area: Medium,High Yield
EPA Sole Source Aquifer; FEMA 100-year floodplain
Public Water Supplies: Ground,Surface,Non Community
Approved Zone2; IWPA; Surface Water Supply Zone A
Hydrography: Water Features,Public Surface Water Supply
Wetlands: Fresh,Salt,NHESP Wetlands Habitat
Protected Open Space; ACEC
DEP Permitted Solid Waste Facilities; Certified Vernal Pools
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SCALE 1:15000
0
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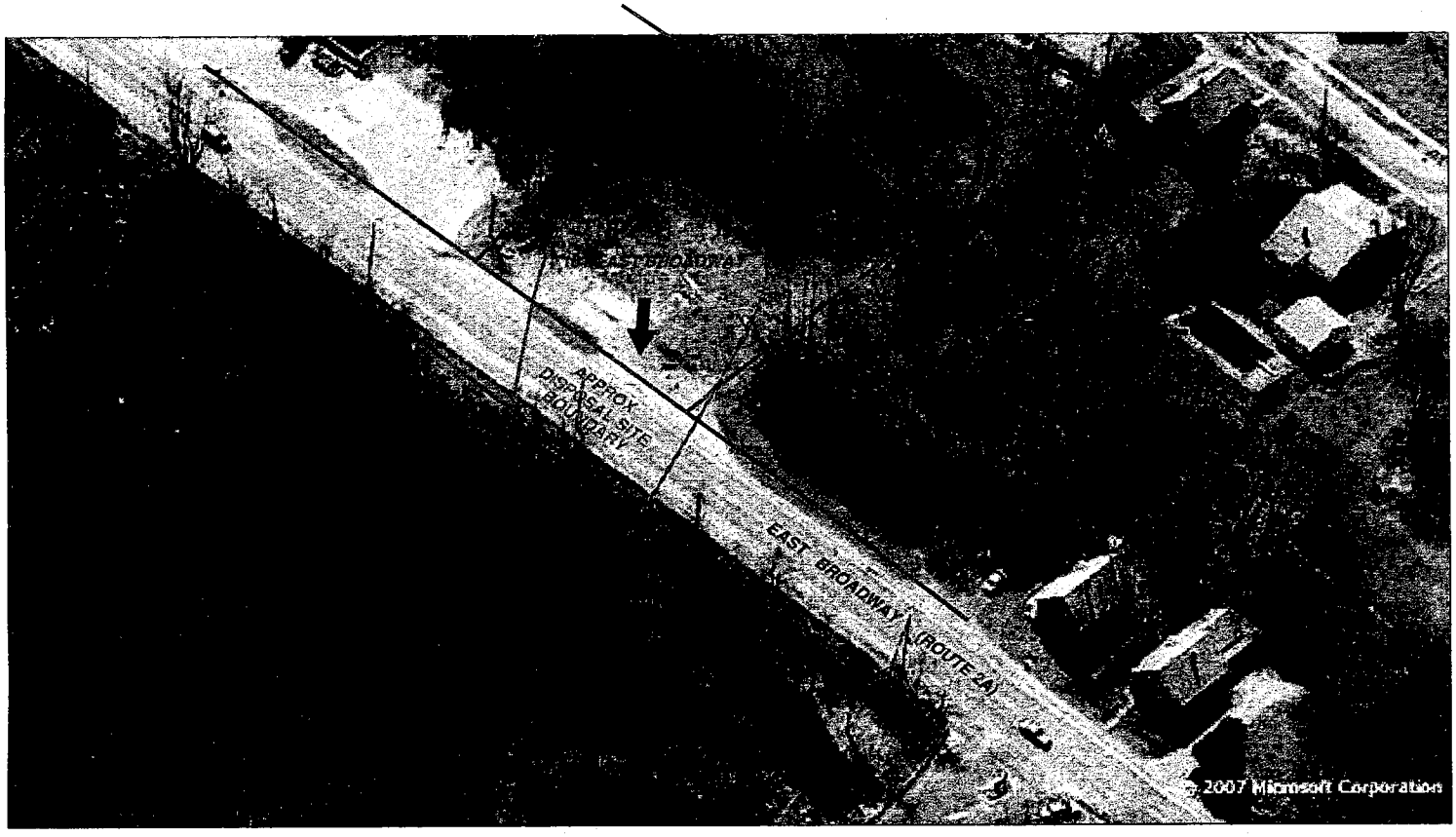
KILOMETERS
January 30, 2004



SCALE:

DATE:

FORM

181 E

Peak Flow Basin Characteristics			
100% Statewide Low Flow (5.02 mi2)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	5.02	1.61	149
Mean Basin Slope from 250K DEM (percent)	1.99	0.32	24.6
Stratified Drift per Stream Length (square mile per mile)	0.18	0	1.29
Massachusetts Region (dimensionless)	1	0	1

Streamflow Statistics					
Statistic	Flow (ft^3/s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
D50	4.95	18		2.45	9.93
D60	3.55	20		0.36	35
D70	2.86	24		0.4	20
D75	2.41	26		0.38	15
D80	1.85	28		0.9	3.76
D85	1.39	32		0.63	2.98
D90	1.02	37		0.44	2.29
D95	0.62	46		0.24	1.55
D98	0.45	60		0.15	1.29
D99	0.34	65		0.11	1.02
M7D2Y	0.69	50		0.26	1.76
AUGD50	1.62	33		0.73	3.54
M7D10Y	0.3	71		0.0884	0.98

7Q10

Dilution Factor Calculation
Former Speedway Service Station
181 East Broadway
Gardner, Ma

DF=(Qd+Qs)/Qd

DF = Dilution factor	**5.5**	
Qd = Max flow rate of discharge in cubic feet per second		0.067
Qs = receiving water flow in cubic feet per seconds 7Q10 flow rate		0.3
Mahoney Brook		
7Q10* = min flow for seven consecutive days with a recurrence interval of 10 years		

* 7Q10 flow based on data obtained from USGS Steamflow Statistics Report
Data attached

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051216 - SW846 3510C										
Blank (8051216-BLK1)										
Prepared & Analyzed: 16-May-08										
Acenaphthene	BRL		µg/l	5.00						
Acenaphthylene	BRL		µg/l	5.00						
Aniline	BRL		µg/l	5.00						
Anthracene	BRL		µg/l	5.00						
Azobenzene/Diphenyldiazine	BRL		µg/l	5.00						
Benzidine	BRL		µg/l	5.00						
Benzo (a) anthracene	BRL		µg/l	5.00						
Benzo (a) pyrene	BRL		µg/l	5.00						
Benzo (b) fluoranthene	BRL		µg/l	5.00						
Benzo (g,h,i) perylene	BRL		µg/l	5.00						
Benzo (k) fluoranthene	BRL		µg/l	5.00						
Benzoic acid	BRL		µg/l	5.00						
Benzyl alcohol	BRL		µg/l	5.00						
Bis(2-chloroethoxy)methane	BRL		µg/l	5.00						
Bis(2-chloroethyl)ether	BRL		µg/l	5.00						
Bis(2-chloroisopropyl)ether	BRL		µg/l	5.00						
Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.00						
4-Bromophenyl phenyl ether	BRL		µg/l	5.00						
Butyl benzyl phthalate	BRL		µg/l	5.00						
Carbazole	BRL		µg/l	5.00						
4-Chloro-3-methylphenol	BRL		µg/l	5.00						
4-Chloroaniline	BRL		µg/l	5.00						
2-Chloronaphthalene	BRL		µg/l	5.00						
2-Chlorophenol	BRL		µg/l	5.00						
4-Chlorophenyl phenyl ether	BRL		µg/l	5.00						
Chrysene	BRL		µg/l	5.00						
Dibenzo (a,h) anthracene	BRL		µg/l	5.00						
Dibenzofuran	BRL		µg/l	5.00						
1,2-Dichlorobenzene	BRL		µg/l	5.00						
1,3-Dichlorobenzene	BRL		µg/l	5.00						
1,4-Dichlorobenzene	BRL		µg/l	5.00						
3,3'-Dichlorobenzidine	BRL		µg/l	5.00						
2,4-Dichlorophenol	BRL		µg/l	5.00						
Diethyl phthalate	BRL		µg/l	5.00						
Dimethyl phthalate	BRL		µg/l	5.00						
2,4-Dimethylphenol	BRL		µg/l	5.00						
Di-n-butyl phthalate	BRL		µg/l	5.00						
4,6-Dinitro-2-methylphenol	BRL		µg/l	5.00						
2,4-Dinitrophenol	BRL		µg/l	5.00						
2,4-Dinitrotoluene	BRL		µg/l	5.00						
2,6-Dinitrotoluene	BRL		µg/l	5.00						
Di-n-octyl phthalate	BRL		µg/l	5.00						
Fluoranthene	BRL		µg/l	5.00						
Fluorene	BRL		µg/l	5.00						
Hexachlorobenzene	BRL		µg/l	5.00						
Hexachlorobutadiene	BRL		µg/l	5.00						
Hexachlorocyclopentadiene	BRL		µg/l	5.00						
Hexachloroethane	BRL		µg/l	5.00						
Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.00						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051244 - SW846 5030 Water MS										
Matrix Spike Dup (8051244-MSD1)	**Source: SA78629-06**									
Prepared: 16-May-08 Analyzed: 17-May-08										
Vinyl chloride	21.2		µg/l		20.0	BRL	106	1-251	3	30
Surrogate: 4-Bromofluorobenzene	*50.3*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*49.5*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.5*		µg/l		*50.0*		*111*	*70-130*		
Surrogate: Dibromofluoromethane	*49.4*		µg/l		*50.0*		*99*	*70-130*		

Microextractable Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051105 - SW846 3510C										
Blank (8051105-BLK1)										
Prepared & Analyzed: 15-May-08										
1,2-Dibromoethane (EDB)	BRL		µg/l	0.0100						
LCS (8051105-BS1)										
Prepared & Analyzed: 15-May-08										
1,2-Dibromoethane (EDB)	0.0770		µg/l	0.0100	0.100		77	50-150		
Duplicate (8051105-DUP1)	**Source: SA78583-01**									
Prepared & Analyzed: 15-May-08										
1,2-Dibromoethane (EDB)	BRL		µg/l	0.0100		BRL				30

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1 SA78602-01	2920-96-19	Ground Water	13-May-08 10:30	14-May-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds by GCMS											
Prepared by method SW846 5030 Water MS											
123-91-1	1,4-Dioxane	BRL		µg/l	200	20	EPA 624	16-May-08	17-May-08	8051244	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	20.0	20	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	200	20	"	"	"	"	
67-64-1	Acetone	BRL		µg/l	400	20	"	"	"	"	
71-43-2	Benzene	BRL		µg/l	20.0	20	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	20.0	20	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	20.0	20	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	40.0	20	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	200	20	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	20.0	20	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	20.0	20	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	40.0	20	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	20.0	20	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	40.0	20	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	20.0	20	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	20.0	20	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	20.0	20	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	20.0	20	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	20.0	20	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	20.0	20	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	20.0	20	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	20.0	20	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	20.0	20	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	20.0	20	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	20.0	20	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	20.0	20	"	"	"	"	X
100-41-4	Ethylbenzene	411		µg/l	20.0	20	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	200	20	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	20.0	20	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	200	20	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/l	200	20	"	"	"	"	X
100-42-5	Styrene	BRL		µg/l	20.0	20	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	20.0	20	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	20.0	20	"	"	"	"	X
108-88-3	Toluene	BRL		µg/l	20.0	20	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	20.0	20	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	20.0	20	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	20.0	20	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	20.0	20	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	20.0	20	"	"	"	"	X
179601-23-1	m,p-Xylene	2,390		µg/l	40.0	20	"	"	"	"	X
95-47-6	o-Xylene	82.0		µg/l	20.0	20	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*94*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*111*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*96*		*70-130 %*			"	"	"	"	
Microextractable Organic Compounds											
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.0100	1	EPA 504.1	15-May-08	15-May-08	8051105	
Semivolatile Organic Compounds by GCMS											

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1 SA78602-01	2920-96-19	Ground Water	13-May-08 10:30	14-May-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by EPA 625											
Prepared by method SW846 3510C											
83-32-9	Acenaphthene	BRL		µg/l	50.0	10	EPA 625	16-May-08	19-May-08	8051216	
208-96-8	Acenaphthylene	BRL		µg/l	50.0	10	"	"	"	"	
62-53-3	Aniline	BRL		µg/l	50.0	10	"	"	"	"	
120-12-7	Anthracene	BRL		µg/l	50.0	10	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/l	50.0	10	"	"	"	"	
92-87-5	Benzidine	BRL		µg/l	50.0	10	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/l	50.0	10	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/l	50.0	10	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	50.0	10	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	50.0	10	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	50.0	10	"	"	"	"	
65-85-0	Benzoic acid	BRL		µg/l	50.0	10	"	"	"	"	
100-51-6	Benzyl alcohol	BRL		µg/l	50.0	10	"	"	"	"	
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/l	50.0	10	"	"	"	"	
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/l	50.0	10	"	"	"	"	
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/l	50.0	10	"	"	"	"	
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/l	50.0	10	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/l	50.0	10	"	"	"	"	
85-68-7	Butyl benzyl phthalate	BRL		µg/l	50.0	10	"	"	"	"	
86-74-8	Carbazole	BRL		µg/l	50.0	10	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	BRL		µg/l	50.0	10	"	"	"	"	
106-47-8	4-Chloroaniline	BRL		µg/l	50.0	10	"	"	"	"	
91-58-7	2-Chloronaphthalene	BRL		µg/l	50.0	10	"	"	"	"	
95-57-8	2-Chlorophenol	BRL		µg/l	50.0	10	"	"	"	"	
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/l	50.0	10	"	"	"	"	
218-01-9	Chrysene	BRL		µg/l	50.0	10	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	50.0	10	"	"	"	"	
132-64-9	Dibenzofuran	BRL		µg/l	50.0	10	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	50.0	10	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	50.0	10	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	50.0	10	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/l	50.0	10	"	"	"	"	
120-83-2	2,4-Dichlorophenol	BRL		µg/l	50.0	10	"	"	"	"	
84-66-2	Diethyl phthalate	BRL		µg/l	50.0	10	"	"	"	"	
131-11-3	Dimethyl phthalate	BRL		µg/l	50.0	10	"	"	"	"	
105-67-9	2,4-Dimethylphenol	BRL		µg/l	50.0	10	"	"	"	"	
84-74-2	Di-n-butyl phthalate	BRL		µg/l	50.0	10	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/l	50.0	10	"	"	"	"	
51-28-5	2,4-Dinitrophenol	BRL		µg/l	50.0	10	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	BRL		µg/l	50.0	10	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	BRL		µg/l	50.0	10	"	"	"	"	
117-84-0	Di-n-octyl phthalate	BRL		µg/l	50.0	10	"	"	"	"	
206-44-0	Fluoranthene	BRL		µg/l	50.0	10	"	"	"	"	
86-73-7	Fluorene	BRL		µg/l	50.0	10	"	"	"	"	
118-74-1	Hexachlorobenzene	BRL		µg/l	50.0	10	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	50.0	10	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	BRL		µg/l	50.0	10	"	"	"	"	
67-72-1	Hexachloroethane	BRL		µg/l	50.0	10	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	50.0	10	"	"	"	"	
78-59-1	Isophorone	BRL		µg/l	50.0	10	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1 SA78602-01	2920-96-19	Ground Water	13-May-08 10:30	14-May-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by EPA 625											
Prepared by method SW846 3510C											
91-57-6	2-Methylnaphthalene	367		µg/l	50.0	10	EPA 625	16-May-08	19-May-08	8051216	
95-48-7	2-Methylphenol	BRL		µg/l	50.0	10	"	"	"	"	
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/l	100	10	"	"	"	"	
91-20-3	Naphthalene	247		µg/l	50.0	10	"	"	"	"	
88-74-4	2-Nitroaniline	BRL		µg/l	50.0	10	"	"	"	"	
99-09-2	3-Nitroaniline	BRL		µg/l	50.0	10	"	"	"	"	
100-01-6	4-Nitroaniline	BRL		µg/l	50.0	10	"	"	"	"	
98-95-3	Nitrobenzene	BRL		µg/l	50.0	10	"	"	"	"	
88-75-5	2-Nitrophenol	BRL		µg/l	50.0	10	"	"	"	"	
100-02-7	4-Nitrophenol	BRL		µg/l	50.0	10	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	BRL		µg/l	50.0	10	"	"	"	"	
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/l	50.0	10	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	BRL		µg/l	50.0	10	"	"	"	"	
87-86-5	Pentachlorophenol	BRL		µg/l	50.0	10	"	"	"	"	
85-01-8	Phenanthrene	BRL		µg/l	50.0	10	"	"	"	"	
108-95-2	Phenol	BRL		µg/l	50.0	10	"	"	"	"	
129-00-0	Pyrene	BRL		µg/l	50.0	10	"	"	"	"	
110-86-1	Pyridine	BRL		µg/l	50.0	10	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	50.0	10	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/l	50.0	10	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	BRL		µg/l	50.0	10	"	"	"	"	
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*46*		*30-130 %*			"	"	"	"	
367-12-4	*2-Fluorophenol*	*41*		*15-110 %*			"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*57*		*30-130 %*			"	"	"	"	
4165-62-2	*Phenol-d5*	*30*		*15-110 %*			"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*45*		*30-130 %*			"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*58*		*15-110 %*			"	"	"	"	
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by EPA 608											
Prepared by method SW846 3510C											
12674-11-2	Aroclor-1016	BRL		µg/l	0.0650	1	EPA 608	15-May-08	16-May-08	8051106	
11104-28-2	Aroclor-1221	BRL		µg/l	0.0650	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/l	0.0650	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/l	0.0650	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/l	0.0650	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/l	0.0650	1	"	"	"	"	
11096-82-5	Aroclor-1260	BRL		µg/l	0.0650	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/l	0.0650	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/l	0.0650	1	"	"	"	"	
Surrogate recoveries:											
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*		*30-150 %*			"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*76*		*30-150 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
	Non-polar material (SGT-HEM)	8.6		mg/l	1.0	1	EPA 1664 Rev. A	15-May-08	19-May-08	8051102	
Soluble Metals by EPA 200/6000 Series Methods											
	Filtration	Field Filtered		N/A		1	EPA 200.7/3005A	15-May-08	15-May-08	8051192	
Soluble Metals by EPA 200 Series Methods											
7440-22-4	Silver	BRL		mg/l	0.0002	1	EPA 200.8	21-May-08	27-May-08	8051249	X

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1 SA78602-01	2920-96-19	Ground Water	13-May-08 10:30	14-May-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Soluble Metals by EPA 200 Series Methods											
7440-38-2	Arsenic	0.468		mg/l	0.0040	1	EPA 200.7	21-May-08	21-May-08	8051150	X
7440-43-9	Cadmium	BRL		mg/l	0.0002	1	EPA 200.8	"	21-May-08	8051249	X
7440-47-3	Chromium	BRL		mg/l	0.0050	1	EPA 200.7	"	21-May-08	8051150	X
7440-50-8	Copper	BRL		mg/l	0.0050	1	"	"	"	"	X
7439-89-6	Iron	18.4		mg/l	0.0150	1	"	"	"	"	X
7439-97-6	Mercury	BRL		mg/l	0.00020	1	EPA 245.1/7470A	"	21-May-08	8051152	X
7440-02-0	Nickel	BRL		mg/l	0.0050	1	EPA 200.7	"	21-May-08	8051150	X
7439-92-1	Lead	0.0011		mg/l	0.0002	1	EPA 200.8	"	21-May-08	8051249	X
7440-36-0	Antimony	0.0003		mg/l	0.0002	1	"	"	"	"	X
7782-49-2	Selenium	BRL		mg/l	0.0150	1	EPA 200.7	"	21-May-08	8051150	X
7440-66-6	Zinc	0.0186		mg/l	0.0050	1	"	"	"	"	X
General Chemistry Parameters											
	Filtration	Completed		N/A		1	Varies	14-May-08	14-May-08	8051095	
18540-29-9	Hexavalent Chromium (soluble)	BRL	HT2, R01	mg/l	0.125	25	SM3500CrD/7196A	14-May-08 20:13	14-May-08 20:16	8051094	
57-12-5	Cyanide (total)	BRL		mg/l	0.0100	1	EPA 335.4	19-May-08	19-May-08	8051374	X
7782-50-5	Total Residual Chlorine	BRL	ClHT, R01,ClHT	mg/l	0.500	25	Hach 8167	14-May-08 19:00	14-May-08 20:01	8051049	X
	Total Suspended Solids	1,580		mg/l	25.0	5	SM2540D	16-May-08	16-May-08	8051275	X

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051244 - SW846 5030 Water MS										
Blank (8051244-BLK1)										
Prepared: 16-May-08 Analyzed: 17-May-08										
Acetone	BRL		µg/l	20.0						
Benzene	BRL		µg/l	1.0						
Bromodichloromethane	BRL		µg/l	1.0						
Bromoform	BRL		µg/l	1.0						
Bromomethane	BRL		µg/l	2.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroethane	BRL		µg/l	2.0						
Chloroform	BRL		µg/l	1.0						
Chloromethane	BRL		µg/l	2.0						
Dibromochloromethane	BRL		µg/l	1.0						
1,2-Dichlorobenzene	BRL		µg/l	1.0						
1,3-Dichlorobenzene	BRL		µg/l	1.0						
1,4-Dichlorobenzene	BRL		µg/l	1.0						
1,1-Dichloroethane	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
cis-1,2-Dichloroethene	BRL		µg/l	1.0						
trans-1,2-Dichloroethene	BRL		µg/l	1.0						
1,2-Dichloropropane	BRL		µg/l	1.0						
cis-1,3-Dichloropropene	BRL		µg/l	1.0						
trans-1,3-Dichloropropene	BRL		µg/l	1.0						
Ethylbenzene	BRL		µg/l	1.0						
2-Hexanone (MBK)	BRL		µg/l	10.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0						
Methylene chloride	BRL		µg/l	10.0						
Styrene	BRL		µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL		µg/l	1.0						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
1,1,1-Trichloroethane	BRL		µg/l	1.0						
1,1,2-Trichloroethane	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
Surrogate: 4-Bromofluorobenzene	*41.9*		µg/l		*50.0*		*84*	*70-130*		
Surrogate: Toluene-d8	*49.4*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*59.6*		µg/l		*50.0*		*119*	*70-130*		
Surrogate: Dibromofluoromethane	*52.6*		µg/l		*50.0*		*105*	*70-130*		
LCS (8051244-BS1)										
Prepared: 16-May-08 Analyzed: 17-May-08										
Acetone	5.1	QC2	µg/l		20.0		25	70-130		
Benzene	18.7		µg/l		20.0		94	70-130		
Bromodichloromethane	19.2		µg/l		20.0		96	35-155		
Bromoform	18.6		µg/l		20.0		93	45-169		
Bromomethane	19.7		µg/l		20.0		99	1-242		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051244 - SW846 5030 Water MS										
LCS (8051244-BS1)										
Prepared: 16-May-08 Analyzed: 17-May-08										
2-Butanone (MEK)	10.7	QC2	µg/l		20.0		54	70-130		
Carbon tetrachloride	20.4		µg/l		20.0		102	70-140		
Chlorobenzene	18.7		µg/l		20.0		93	70-130		
Chloroethane	16.4		µg/l		20.0		82	14-230		
Chloroform	18.7		µg/l		20.0		94	51-138		
Chloromethane	21.2		µg/l		20.0		106	1-273		
Dibromochloromethane	18.0		µg/l		20.0		90	53-149		
1,2-Dichlorobenzene	20.8		µg/l		20.0		104	18-190		
1,3-Dichlorobenzene	19.1		µg/l		20.0		96	59-156		
1,4-Dichlorobenzene	18.6		µg/l		20.0		93	18-190		
1,1-Dichloroethane	19.5		µg/l		20.0		97	59-155		
1,2-Dichloroethane	19.8		µg/l		20.0		99	49-155		
1,1-Dichloroethene	16.7		µg/l		20.0		84	70-130		
cis-1,2-Dichloroethene	17.9		µg/l		20.0		89	70-130		
trans-1,2-Dichloroethene	16.8		µg/l		20.0		84	54-156		
1,2-Dichloropropane	18.0		µg/l		20.0		90	1-210		
cis-1,3-Dichloropropene	17.2		µg/l		20.0		86	1-227		
trans-1,3-Dichloropropene	17.7		µg/l		20.0		88	17-183		
Ethylbenzene	19.1		µg/l		20.0		95	37-162		
2-Hexanone (MBK)	12.4	QC2	µg/l		20.0		62	70-130		
Methyl tert-butyl ether	19.0		µg/l		20.0		95	70-130		
4-Methyl-2-pentanone (MIBK)	17.0		µg/l		20.0		85	70-130		
Methylene chloride	16.9		µg/l		20.0		84	1-221		
Styrene	17.8		µg/l		20.0		89	70-130		
1,1,2,2-Tetrachloroethane	19.4		µg/l		20.0		97	46-157		
Tetrachloroethene	15.9		µg/l		20.0		80	64-148		
Toluene	18.1		µg/l		20.0		90	70-130		
1,1,1-Trichloroethane	20.0		µg/l		20.0		100	52-162		
1,1,2-Trichloroethane	18.1		µg/l		20.0		91	52-150		
Trichloroethene	17.6		µg/l		20.0		88	71-157		
Trichlorofluoromethane (Freon 11)	19.7		µg/l		20.0		98	17-181		
Vinyl chloride	21.2		µg/l		20.0		106	1-251		
m,p-Xylene	39.0		µg/l		40.0		97	70-130		
o-Xylene	20.5		µg/l		20.0		102	70-130		
Surrogate: 4-Bromofluorobenzene	*52.6*		µg/l		*50.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*49.2*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*56.2*		µg/l		*50.0*		*112*	*70-130*		
Surrogate: Dibromofluoromethane	*49.8*		µg/l		*50.0*		*100*	*70-130*		
LCS Dup (8051244-BSD1)										
Prepared: 16-May-08 Analyzed: 17-May-08										
Acetone	5.7	QC2	µg/l		20.0		29	70-130	12	30
Benzene	18.0		µg/l		20.0		90	70-130	4	30
Bromodichloromethane	18.7		µg/l		20.0		93	35-155	3	30
Bromoform	17.5		µg/l		20.0		87	45-169	6	30
Bromomethane	18.2		µg/l		20.0		91	1-242	8	30
2-Butanone (MEK)	11.6	QC2	µg/l		20.0		58	70-130	8	30
Carbon tetrachloride	20.0		µg/l		20.0		100	70-140	2	30
Chlorobenzene	17.0		µg/l		20.0		85	70-130	9	30
Chloroethane	15.9		µg/l		20.0		80	14-230	3	30
Chloroform	18.0		µg/l		20.0		90	51-138	4	30

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051244 - SW846 5030 Water MS										
LCS Dup (8051244-BSD1)										
Prepared: 16-May-08 Analyzed: 17-May-08										
Chloromethane	18.8		µg/l		20.0		94	1-273	12	30
Dibromochloromethane	17.4		µg/l		20.0		87	53-149	3	30
1,2-Dichlorobenzene	20.0		µg/l		20.0		100	18-190	4	30
1,3-Dichlorobenzene	18.4		µg/l		20.0		92	59-156	4	30
1,4-Dichlorobenzene	18.1		µg/l		20.0		90	18-190	3	30
1,1-Dichloroethane	18.6		µg/l		20.0		93	59-155	5	30
1,2-Dichloroethane	19.0		µg/l		20.0		95	49-155	4	30
1,1-Dichloroethene	16.2		µg/l		20.0		81	70-130	3	30
cis-1,2-Dichloroethene	16.9		µg/l		20.0		85	70-130	5	30
trans-1,2-Dichloroethene	15.5		µg/l		20.0		77	54-156	8	30
1,2-Dichloropropane	17.2		µg/l		20.0		86	1-210	5	30
cis-1,3-Dichloropropene	16.4		µg/l		20.0		82	1-227	5	30
trans-1,3-Dichloropropene	16.4		µg/l		20.0		82	17-183	7	30
Ethylbenzene	18.1		µg/l		20.0		91	37-162	5	30
2-Hexanone (MBK)	12.4	QC2	µg/l		20.0		62	70-130	0.2	30
Methyl tert-butyl ether	18.4		µg/l		20.0		92	70-130	3	30
4-Methyl-2-pentanone (MIBK)	17.0		µg/l		20.0		85	70-130	0.2	30
Methylene chloride	16.2		µg/l		20.0		81	1-221	4	30
Styrene	16.3		µg/l		20.0		81	70-130	9	30
1,1,2,2-Tetrachloroethane	19.2		µg/l		20.0		96	46-157	0.9	30
Tetrachloroethene	15.0		µg/l		20.0		75	64-148	6	30
Toluene	17.1		µg/l		20.0		85	70-130	6	30
1,1,1-Trichloroethane	19.1		µg/l		20.0		95	52-162	5	30
1,1,2-Trichloroethane	16.9		µg/l		20.0		85	52-150	7	30
Trichloroethene	15.6		µg/l		20.0		78	71-157	12	30
Trichlorofluoromethane (Freon 11)	17.7		µg/l		20.0		88	17-181	11	30
Vinyl chloride	19.5		µg/l		20.0		98	1-251	8	30
m,p-Xylene	37.9		µg/l		40.0		95	70-130	3	30
o-Xylene	20.0		µg/l		20.0		100	70-130	2	30
Surrogate: 4-Bromofluorobenzene	*51.9*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*48.2*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.1*		µg/l		*50.0*		*106*	*70-130*		
Surrogate: Dibromofluoromethane	*50.8*		µg/l		*50.0*		*102*	*70-130*		
Matrix Spike (8051244-MS1) **Source: SA78629-06**										
Prepared: 16-May-08 Analyzed: 17-May-08										
Benzene	18.7		µg/l		20.0	BRL	94	70-130		
Bromodichloromethane	19.0		µg/l		20.0	BRL	95	35-155		
Bromoform	18.1		µg/l		20.0	BRL	91	45-169		
Bromomethane	16.8		µg/l		20.0	BRL	84	1-242		
Carbon tetrachloride	21.2		µg/l		20.0	BRL	106	70-140		
Chlorobenzene	18.0		µg/l		20.0	BRL	90	70-130		
Chloroethane	16.7		µg/l		20.0	BRL	84	14-230		
Chloroform	18.1		µg/l		20.0	BRL	90	51-138		
Chloromethane	19.0		µg/l		20.0	BRL	95	1-273		
Dibromochloromethane	17.6		µg/l		20.0	BRL	88	53-149		
1,2-Dichlorobenzene	22.5		µg/l		20.0	BRL	112	18-190		
1,3-Dichlorobenzene	22.0		µg/l		20.0	BRL	110	59-156		
1,4-Dichlorobenzene	21.8		µg/l		20.0	BRL	109	18-190		
1,1-Dichloroethane	19.6		µg/l		20.0	BRL	98	59-155		
1,2-Dichloroethane	18.3		µg/l		20.0	BRL	91	49-155		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051244 - SW846 5030 Water MS										
Matrix Spike (8051244-MS1) **Source: SA78629-06**										
Prepared: 16-May-08 Analyzed: 17-May-08										
1,1-Dichloroethene	17.8		µg/l		20.0	BRL	89	70-130		
trans-1,2-Dichloroethene	16.2		µg/l		20.0	BRL	81	54-156		
1,2-Dichloropropane	17.5		µg/l		20.0	BRL	88	1-210		
cis-1,3-Dichloropropene	17.5		µg/l		20.0	BRL	87	1-227		
trans-1,3-Dichloropropene	18.4		µg/l		20.0	BRL	92	17-183		
Ethylbenzene	20.6		µg/l		20.0	BRL	103	37-162		
Methylene chloride	15.7		µg/l		20.0	BRL	79	1-221		
1,1,2,2-Tetrachloroethane	19.1		µg/l		20.0	BRL	96	46-157		
Tetrachloroethene	18.7		µg/l		20.0	BRL	94	64-148		
Toluene	18.9		µg/l		20.0	BRL	94	70-130		
1,1,1-Trichloroethane	21.1		µg/l		20.0	BRL	105	52-162		
1,1,2-Trichloroethane	18.1		µg/l		20.0	BRL	91	52-150		
Trichloroethene	17.3		µg/l		20.0	BRL	86	71-157		
Trichlorofluoromethane (Freon 11)	19.4		µg/l		20.0	BRL	97	17-181		
Vinyl chloride	20.7		µg/l		20.0	BRL	103	1-251		
Surrogate: 4-Bromofluorobenzene	*50.9*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*49.3*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*56.2*		µg/l		*50.0*		*112*	*70-130*		
Surrogate: Dibromofluoromethane	*50.2*		µg/l		*50.0*		*100*	*70-130*		
Matrix Spike Dup (8051244-MSD1) **Source: SA78629-06**										
Prepared: 16-May-08 Analyzed: 17-May-08										
Benzene	18.6		µg/l		20.0	BRL	93	70-130	0.7	30
Bromodichloromethane	18.6		µg/l		20.0	BRL	93	35-155	2	30
Bromoform	17.5		µg/l		20.0	BRL	88	45-169	4	30
Bromomethane	17.3		µg/l		20.0	BRL	87	1-242	3	30
Carbon tetrachloride	20.6		µg/l		20.0	BRL	103	70-140	3	30
Chlorobenzene	18.9		µg/l		20.0	BRL	95	70-130	5	30
Chloroethane	16.5		µg/l		20.0	BRL	83	14-230	1	30
Chloroform	18.4		µg/l		20.0	BRL	92	51-138	2	30
Chloromethane	19.2		µg/l		20.0	BRL	96	1-273	1	30
Dibromochloromethane	18.1		µg/l		20.0	BRL	90	53-149	3	30
1,2-Dichlorobenzene	23.4		µg/l		20.0	BRL	117	18-190	4	30
1,3-Dichlorobenzene	22.5		µg/l		20.0	BRL	112	59-156	2	30
1,4-Dichlorobenzene	21.6		µg/l		20.0	BRL	108	18-190	0.6	30
1,1-Dichloroethane	19.2		µg/l		20.0	BRL	96	59-155	2	30
1,2-Dichloroethane	18.5		µg/l		20.0	BRL	93	49-155	1	30
1,1-Dichloroethene	16.7		µg/l		20.0	BRL	83	70-130	7	30
trans-1,2-Dichloroethene	15.4		µg/l		20.0	BRL	77	54-156	5	30
1,2-Dichloropropane	17.8		µg/l		20.0	BRL	89	1-210	2	30
cis-1,3-Dichloropropene	17.6		µg/l		20.0	BRL	88	1-227	0.4	30
trans-1,3-Dichloropropene	17.6		µg/l		20.0	BRL	88	17-183	5	30
Ethylbenzene	20.3		µg/l		20.0	BRL	102	37-162	1	30
Methylene chloride	15.7		µg/l		20.0	BRL	79	1-221	0	30
1,1,2,2-Tetrachloroethane	19.2		µg/l		20.0	BRL	96	46-157	0.3	30
Tetrachloroethene	18.8		µg/l		20.0	BRL	94	64-148	0.4	30
Toluene	18.4		µg/l		20.0	BRL	92	70-130	3	30
1,1,1-Trichloroethane	20.8		µg/l		20.0	BRL	104	52-162	1	30
1,1,2-Trichloroethane	17.3		µg/l		20.0	BRL	87	52-150	5	30
Trichloroethene	17.6		µg/l		20.0	BRL	88	71-157	2	30
Trichlorofluoromethane (Freon 11)	19.5		µg/l		20.0	BRL	97	17-181	0.5	30

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051216 - SW846 3510C										
Blank (8051216-BLK1)										
Prepared & Analyzed: 16-May-08										
Isophorone	BRL		µg/l	5.00						
2-Methylnaphthalene	BRL		µg/l	5.00						
2-Methylphenol	BRL		µg/l	5.00						
3 & 4-Methylphenol	BRL		µg/l	10.0						
Naphthalene	BRL		µg/l	5.00						
2-Nitroaniline	BRL		µg/l	5.00						
3-Nitroaniline	BRL		µg/l	5.00						
4-Nitroaniline	BRL		µg/l	5.00						
Nitrobenzene	BRL		µg/l	5.00						
2-Nitrophenol	BRL		µg/l	5.00						
4-Nitrophenol	BRL		µg/l	5.00						
N-Nitrosodimethylamine	BRL		µg/l	5.00						
N-Nitrosodi-n-propylamine	BRL		µg/l	5.00						
N-Nitrosodiphenylamine	BRL		µg/l	5.00						
Pentachlorophenol	BRL		µg/l	5.00						
Phenanthrene	BRL		µg/l	5.00						
Phenol	BRL		µg/l	5.00						
Pyrene	BRL		µg/l	5.00						
Pyridine	BRL		µg/l	5.00						
1,2,4-Trichlorobenzene	BRL		µg/l	5.00						
2,4,5-Trichlorophenol	BRL		µg/l	5.00						
2,4,6-Trichlorophenol	BRL		µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	*37.0*		µg/l		*50.0*		*74*	*30-130*		
Surrogate: 2-Fluorophenol	*40.3*		µg/l		*50.0*		*81*	*15-110*		
Surrogate: Nitrobenzene-d5	*39.1*		µg/l		*50.0*		*78*	*30-130*		
Surrogate: Phenol-d5	*43.2*		µg/l		*50.0*		*86*	*15-110*		
Surrogate: Terphenyl-dl4	*36.5*		µg/l		*50.0*		*73*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*40.5*		µg/l		*50.0*		*81*	*15-110*		
LCS (8051216-BS1)										
Prepared & Analyzed: 16-May-08										
Acenaphthene	41.8		µg/l	5.00	50.0		84	40-140		
Acenaphthylene	43.1		µg/l	5.00	50.0		86	40-140		
Aniline	41.0		µg/l	5.00	50.0		82	40-140		
Anthracene	38.9		µg/l	5.00	50.0		78	40-140		
Azobenzene/Diphenyldiazine	45.9		µg/l	5.00	50.0		92	40-140		
Benzidine	49.0		µg/l	5.00	50.0		98	0-153		
Benzo (a) anthracene	41.3		µg/l	5.00	50.0		83	40-140		
Benzo (a) pyrene	43.3		µg/l	5.00	50.0		87	40-140		
Benzo (b) fluoranthene	41.1		µg/l	5.00	50.0		82	40-140		
Benzo (g,h,i) perylene	41.1		µg/l	5.00	50.0		82	40-140		
Benzo (k) fluoranthene	45.2		µg/l	5.00	50.0		90	40-140		
Benzoic acid	32.9		µg/l	5.00	50.0		66	12-149		
Benzyl alcohol	41.6		µg/l	5.00	50.0		83	40-140		
Bis(2-chloroethoxy)methane	39.2		µg/l	5.00	50.0		78	40-140		
Bis(2-chloroethyl)ether	38.4		µg/l	5.00	50.0		77	40-140		
Bis(2-chloroisopropyl)ether	47.9		µg/l	5.00	50.0		96	40-140		
Bis(2-ethylhexyl)phthalate	47.7		µg/l	5.00	50.0		95	40-140		
4-Bromophenyl phenyl ether	40.2		µg/l	5.00	50.0		80	40-140		
Butyl benzyl phthalate	47.8		µg/l	5.00	50.0		96	40-140		
Carbazole	56.2		µg/l	5.00	50.0		112	0-200		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051216 - SW846 3510C										
LCS (8051216-BS1)										
Prepared & Analyzed: 16-May-08										
4-Chloro-3-methylphenol	42.3		µg/l	5.00	50.0		85	30-130		
4-Chloroaniline	39.9		µg/l	5.00	50.0		80	40-140		
2-Chloronaphthalene	37.6		µg/l	5.00	50.0		75	40-140		
2-Chlorophenol	37.6		µg/l	5.00	50.0		75	30-130		
4-Chlorophenyl phenyl ether	45.0		µg/l	5.00	50.0		90	40-140		
Chrysene	43.6		µg/l	5.00	50.0		87	40-140		
Dibenzo (a,h) anthracene	43.2		µg/l	5.00	50.0		86	40-140		
Dibenzofuran	38.8		µg/l	5.00	50.0		78	40-140		
1,2-Dichlorobenzene	35.8		µg/l	5.00	50.0		72	40-140		
1,3-Dichlorobenzene	26.4		µg/l	5.00	50.0		53	40-140		
1,4-Dichlorobenzene	43.4		µg/l	5.00	50.0		87	40-140		
3,3'-Dichlorobenzidine	58.2		µg/l	5.00	50.0		116	40-140		
2,4-Dichlorophenol	38.1		µg/l	5.00	50.0		76	30-130		
Diethyl phthalate	48.4		µg/l	5.00	50.0		97	40-140		
Dimethyl phthalate	46.4		µg/l	5.00	50.0		93	40-140		
2,4-Dimethylphenol	39.1		µg/l	5.00	50.0		78	30-130		
Di-n-butyl phthalate	44.0		µg/l	5.00	50.0		88	40-140		
4,6-Dinitro-2-methylphenol	38.9		µg/l	5.00	50.0		78	30-130		
2,4-Dinitrophenol	36.3		µg/l	5.00	50.0		73	30-130		
2,4-Dinitrotoluene	42.1		µg/l	5.00	50.0		84	40-140		
2,6-Dinitrotoluene	41.6		µg/l	5.00	50.0		83	40-140		
Di-n-octyl phthalate	52.2		µg/l	5.00	50.0		104	40-140		
Fluoranthene	40.6		µg/l	5.00	50.0		81	40-140		
Fluorene	41.8		µg/l	5.00	50.0		84	40-140		
Hexachlorobenzene	39.8		µg/l	5.00	50.0		80	40-140		
Hexachlorobutadiene	40.7		µg/l	5.00	50.0		81	40-140		
Hexachlorocyclopentadiene	29.4		µg/l	5.00	50.0		59	40-140		
Hexachloroethane	40.3		µg/l	5.00	50.0		81	40-140		
Indeno (1,2,3-cd) pyrene	42.1		µg/l	5.00	50.0		84	40-140		
Isophorone	40.0		µg/l	5.00	50.0		80	40-140		
2-Methylnaphthalene	39.4		µg/l	5.00	50.0		79	40-140		
2-Methylphenol	39.1		µg/l	5.00	50.0		78	40-140		
3 & 4-Methylphenol	40.7		µg/l	10.0	50.0		81	40-140		
Naphthalene	37.9		µg/l	5.00	50.0		76	40-140		
2-Nitroaniline	39.5		µg/l	5.00	50.0		79	40-140		
3-Nitroaniline	51.1		µg/l	5.00	50.0		102	40-140		
4-Nitroaniline	48.3		µg/l	5.00	50.0		97	40-140		
Nitrobenzene	40.0		µg/l	5.00	50.0		80	40-140		
2-Nitrophenol	36.0		µg/l	5.00	50.0		72	30-130		
4-Nitrophenol	40.8		µg/l	5.00	50.0		82	30-130		
N-Nitrosodimethylamine	32.8		µg/l	5.00	50.0		66	40-140		
N-Nitrosodi-n-propylamine	46.2		µg/l	5.00	50.0		92	40-140		
N-Nitrosodiphenylamine	44.6		µg/l	5.00	50.0		89	40-140		
Pentachlorophenol	41.0		µg/l	5.00	50.0		82	30-130		
Phenanthrene	38.8		µg/l	5.00	50.0		78	40-140		
Phenol	38.1		µg/l	5.00	50.0		76	30-130		
Pyrene	42.4		µg/l	5.00	50.0		85	40-140		
Pyridine	29.4		µg/l	5.00	50.0		59	40-140		
1,2,4-Trichlorobenzene	36.4		µg/l	5.00	50.0		73	40-140		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051216 - SW846 3510C										
LCS (8051216-BS1)										
Prepared & Analyzed: 16-May-08										
2,4,5-Trichlorophenol	40.4		µg/l	5.00	50.0		81	30-130		
2,4,6-Trichlorophenol	42.2		µg/l	5.00	50.0		84	30-130		
Surrogate: 2-Fluorobiphenyl	*29.3*		µg/l		*50.0*		*59*	*30-130*		
Surrogate: 2-Fluorophenol	*27.2*		µg/l		*50.0*		*54*	*15-110*		
Surrogate: Nitrobenzene-d5	*30.8*		µg/l		*50.0*		*62*	*30-130*		
Surrogate: Phenol-d5	*29.8*		µg/l		*50.0*		*60*	*15-110*		
Surrogate: Terphenyl-dl4	*30.0*		µg/l		*50.0*		*60*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*32.4*		µg/l		*50.0*		*65*	*15-110*		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051106 - SW846 3510C										
Blank (8051106-BLK1)										
Prepared & Analyzed: 15-May-08										
Aroclor-1016	BRL		µg/l	0.0200						
Aroclor-1016 [2C]	BRL		µg/l	0.0200						
Aroclor-1221	BRL		µg/l	0.0200						
Aroclor-1221 [2C]	BRL		µg/l	0.0200						
Aroclor-1232	BRL		µg/l	0.0200						
Aroclor-1232 [2C]	BRL		µg/l	0.0200						
Aroclor-1242	BRL		µg/l	0.0200						
Aroclor-1242 [2C]	BRL		µg/l	0.0200						
Aroclor-1248	BRL		µg/l	0.0200						
Aroclor-1248 [2C]	BRL		µg/l	0.0200						
Aroclor-1254	BRL		µg/l	0.0200						
Aroclor-1254 [2C]	BRL		µg/l	0.0200						
Aroclor-1260	BRL		µg/l	0.0200						
Aroclor-1260 [2C]	BRL		µg/l	0.0200						
Aroclor-1262	BRL		µg/l	0.0200						
Aroclor-1262 [2C]	BRL		µg/l	0.0200						
Aroclor-1268	BRL		µg/l	0.0200						
Aroclor-1268 [2C]	BRL		µg/l	0.0200						
Surrogate: Decachlorobiphenyl (Sr)	*0.0231*		µg/l		*0.0200*		*116*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.0224*		µg/l		*0.0200*		*112*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.0194*		µg/l		*0.0200*		*97*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.0191*		µg/l		*0.0200*		*96*	*30-150*		
LCS (8051106-BS1)										
Prepared: 15-May-08 Analyzed: 16-May-08										
Aroclor-1016	0.265		µg/l	0.0200	0.250		106	50-114		
Aroclor-1016 [2C]	0.240		µg/l	0.0200	0.250		96	50-114		
Aroclor-1260	0.269		µg/l	0.0200	0.250		107	40-127		
Aroclor-1260 [2C]	0.270		µg/l	0.0200	0.250		108	40-127		
Surrogate: Decachlorobiphenyl (Sr)	*0.0225*		µg/l		*0.0200*		*113*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.0224*		µg/l		*0.0200*		*112*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.0188*		µg/l		*0.0200*		*94*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.0183*		µg/l		*0.0200*		*92*	*30-150*		
LCS Dup (8051106-BSD1)										
Prepared: 15-May-08 Analyzed: 16-May-08										
Aroclor-1016	0.262		µg/l	0.0200	0.250		105	50-114	1	20
Aroclor-1016 [2C]	0.241		µg/l	0.0200	0.250		96	50-114	0.6	20
Aroclor-1260	0.277		µg/l	0.0200	0.250		111	40-127	3	20
Aroclor-1260 [2C]	0.260		µg/l	0.0200	0.250		104	40-127	4	20
Surrogate: Decachlorobiphenyl (Sr)	*0.0238*		µg/l		*0.0200*		*119*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.0218*		µg/l		*0.0200*		*109*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.0189*		µg/l		*0.0200*		*94*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.0181*		µg/l		*0.0200*		*91*	*30-150*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051102 - SW846 3510C										
Blank (8051102-BLK1)										
Prepared: 15-May-08 Analyzed: 19-May-08										
Non-polar material (SGT-HEM)	BRL		mg/l	1.0						
LCS (8051102-BS1)										
Prepared: 15-May-08 Analyzed: 19-May-08										
Non-polar material (SGT-HEM)	18.4		mg/l		21.5		86	81.7-90.4		

Soluble Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051150 - EPA 200 Series										
Blank (8051150-BLK1)										
Prepared & Analyzed: 21-May-08										
Iron	BRL		mg/l	0.0150						
Zinc	BRL		mg/l	0.0050						
Selenium	BRL		mg/l	0.0150						
Nickel	BRL		mg/l	0.0050						
Chromium	BRL		mg/l	0.0050						
Copper	BRL		mg/l	0.0050						
Arsenic	BRL		mg/l	0.0040						
LCS (8051150-BS1)										
Prepared & Analyzed: 21-May-08										
Selenium	1.28		mg/l	0.0150	1.25		103	85-115		
Zinc	1.31		mg/l	0.0050	1.25		105	85-115		
Iron	1.23		mg/l	0.0150	1.25		98	85-115		
Nickel	1.23		mg/l	0.0050	1.25		98	85-115		
Chromium	1.21		mg/l	0.0050	1.25		97	85-115		
Arsenic	1.26		mg/l	0.0040	1.25		101	85-115		
Copper	1.24		mg/l	0.0050	1.25		100	85-115		
Duplicate (8051150-DUP1)	**Source: SA78602-01**									
Prepared & Analyzed: 21-May-08										
Iron	17.8		mg/l	0.0150		18.4			4	20
Zinc	0.0162		mg/l	0.0050		0.0186			14	20
Selenium	BRL		mg/l	0.0150		BRL				20
Nickel	0.0015	J	mg/l	0.0050		0.0014			11	20
Copper	0.0017	J,QR8	mg/l	0.0050		0.0023			30	20
Chromium	BRL		mg/l	0.0050		BRL				20
Arsenic	0.450		mg/l	0.0040		0.468			4	20
Matrix Spike (8051150-MS1)	**Source: SA78602-01**									
Prepared & Analyzed: 21-May-08										
Iron	19.1	QM2	mg/l	0.0150	1.25	18.4	54	70-130		
Selenium	1.30		mg/l	0.0150	1.25	BRL	104	70-130		
Nickel	1.22		mg/l	0.0050	1.25	0.0014	98	70-130		
Zinc	1.33		mg/l	0.0050	1.25	0.0186	105	70-130		
Copper	1.28		mg/l	0.0050	1.25	0.0023	102	70-130		
Chromium	1.20		mg/l	0.0050	1.25	BRL	96	70-130		
Arsenic	1.70		mg/l	0.0040	1.25	0.468	99	70-130		
Post Spike (8051150-PS1)	**Source: SA78602-01**									
Prepared & Analyzed: 21-May-08										
Zinc	1.32		mg/l	0.0050	1.25	0.0186	104	85-115		
Iron	18.3	QM2	mg/l	0.0150	1.25	18.4	-10	85-115		
Selenium	1.29		mg/l	0.0150	1.25	BRL	104	85-115		
Nickel	1.23		mg/l	0.0050	1.25	0.0014	98	85-115		
Copper	1.27		mg/l	0.0050	1.25	0.0023	101	85-115		
Arsenic	1.68		mg/l	0.0040	1.25	0.468	97	85-115		
Chromium	1.22		mg/l	0.0050	1.25	BRL	97	85-115		
Batch 8051152 - EPA200/SW7000 Series										
Blank (8051152-BLK1)										
Prepared & Analyzed: 21-May-08										
Mercury	BRL		mg/l	0.00020						

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* Reportable Detection Limit BRL = Below Reporting Limit

Soluble Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051152 - EPA200/SW7000 Series										
LCS (8051152-BS1)										
Prepared & Analyzed: 21-May-08										
Mercury	0.00576		mg/l	0.00020	0.00500		115	85-115		
Duplicate (8051152-DUP1)	**Source: SA78602-01**									
Prepared & Analyzed: 21-May-08										
Mercury	BRL		mg/l	0.00020		BRL				20
Matrix Spike (8051152-MS1)	**Source: SA78602-01**									
Prepared & Analyzed: 21-May-08										
Mercury	0.00632	QM7	mg/l	0.00020	0.00500	BRL	126	75-125		
Post Spike (8051152-PS1)	**Source: SA78602-01**									
Prepared & Analyzed: 21-May-08										
Mercury	0.00624	QC1	mg/l	0.00020	0.00500	BRL	125	85-115		
Batch 8051249 - 200.8/No digestion										
Blank (8051249-BLK1)										
Prepared & Analyzed: 21-May-08										
Lead	BRL		mg/l	0.0002						
Antimony	BRL		mg/l	0.0002						
Cadmium	BRL		mg/l	0.0002						
Silver	BRL		mg/l	0.0002						
LCS (8051249-BS1)										
Prepared & Analyzed: 21-May-08										
Antimony	1.29		mg/l	0.0050	1.25		103	85-115		
Lead	1.43		mg/l	0.0050	1.25		115	85-115		
Silver	1.34		mg/l	0.0050	1.25		107	85-115		
Cadmium	1.45	QC2	mg/l	0.0040	1.25		116	85-115		
Duplicate (8051249-DUP1)	**Source: SA78602-01**									
Prepared & Analyzed: 21-May-08										
Lead	0.0009		mg/l	0.0002		0.0011			19	20
Antimony	0.0002	QR8	mg/l	0.0002		0.0003			25	20
Cadmium	0.00005	J	mg/l	0.0002		0.00005			6	20
Silver	0.00002	J	mg/l	0.0002		0.00003			14	20
Matrix Spike (8051249-MS1)	**Source: SA78602-01**									
Prepared & Analyzed: 21-May-08										
Lead	1.39		mg/l	0.0050	1.25	0.0011	111	70-130		
Antimony	1.27		mg/l	0.0050	1.25	0.0003	101	70-130		
Cadmium	1.42		mg/l	0.0040	1.25	0.00005	114	70-130		
Silver	1.28		mg/l	0.0050	1.25	0.00003	102	70-130		
Post Spike (8051249-PS1)	**Source: SA78602-01**									
Prepared & Analyzed: 21-May-08										
Antimony	1.38		mg/l	0.0050	1.25	0.0003	110	85-115		
Cadmium	1.51	QC2	mg/l	0.0040	1.25	0.00005	121	85-115		
Silver	1.36		mg/l	0.0050	1.25	0.00003	109	85-115		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8051049 - General Preparation										
Blank (8051049-BLK1)										
Prepared & Analyzed: 14-May-08										
Total Residual Chlorine	BRL		mg/l	0.020						
Blank (8051049-BLK2)										
Prepared & Analyzed: 14-May-08										
Total Residual Chlorine	BRL		mg/l	0.020						
Blank (8051049-BLK3)										
Prepared & Analyzed: 14-May-08										
Total Residual Chlorine	BRL		mg/l	0.020						
LCS (8051049-BS1)										
Prepared & Analyzed: 14-May-08										
Total Residual Chlorine	0.046		mg/l	0.020	0.0500		92	90-110		
LCS (8051049-BS2)										
Prepared & Analyzed: 14-May-08										
Total Residual Chlorine	0.047		mg/l	0.020	0.0500		94	90-110		
LCS (8051049-BS3)										
Prepared & Analyzed: 14-May-08										
Total Residual Chlorine	0.054		mg/l	0.020	0.0500		108	90-110		
Duplicate (8051049-DUP1)	**Source: SA78544-01**									
Prepared & Analyzed: 14-May-08										
Total Residual Chlorine	0.012	J	mg/l	0.020		0.010			18	20
Duplicate (8051049-DUP2)	**Source: SA78602-01**									
Prepared & Analyzed: 14-May-08										
Total Residual Chlorine	BRL		mg/l	0.020		BRL				20
Matrix Spike (8051049-MS1)	**Source: SA78544-01**									
Prepared & Analyzed: 14-May-08										
Total Residual Chlorine	0.065		mg/l	0.020	0.0500	0.010	110	80-120		
Matrix Spike (8051049-MS2)	**Source: SA78602-01**									
Prepared & Analyzed: 14-May-08										
Total Residual Chlorine	1.35		mg/l	0.500	1.25	BRL	108	80-120		
Reference (8051049-SRM1)										
Prepared & Analyzed: 14-May-08										
Total Residual Chlorine	0.100		mg/l	0.020	0.0967		103	85-115		
Batch 8051094 - General Preparation										
Blank (8051094-BLK1)										
Prepared & Analyzed: 14-May-08										
Hexavalent Chromium (soluble)	BRL		mg/l	0.005						
Blank (8051094-BLK2)										
Prepared & Analyzed: 14-May-08										
Hexavalent Chromium (soluble)	BRL		mg/l	0.005						
LCS (8051094-BS1)										
Prepared & Analyzed: 14-May-08										
Hexavalent Chromium (soluble)	0.054		mg/l	0.005				90-110		
Duplicate (8051094-DUP1)	**Source: SA78602-01**									
Prepared & Analyzed: 14-May-08										
Hexavalent Chromium (soluble)	BRL		mg/l	0.125		BRL				20

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* Reportable Detection Limit BRL = Below Reporting Limit