

**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: NeoResins Inc.		Facility/site address:		
Location of facility/site: longitude: <u>70.89</u> latitude: <u>42.52</u>	Facility SIC code(s): 2821	Street: 730 Main St		
b) Name of facility/site owner: DSM Neoresins		Town: Wilmington		
Email address of owner: Lawrence.fitch@neoresins.com		State: MA	Zip: 01887	County: Middlesex
Telephone no. of facility/site owner: (978) 661-7371		Owner is (check one): 1. Federal ___ 2. State/Tribal ___ 3. Private <input checked="" type="checkbox"/> 4. other, if so, describe:		
Fax no. of facility/site owner: (978) 661-7484				
Address of owner (if different from site):		Street:		
Town:		State:	Zip:	County:
c) Legal name of operator: ENSR Corporation		Operator telephone no: (978) 589-3300		
		Operator fax no.: (978) 589-3035	Operator email: lwarren@ensr.aecom.com	
Operator contact name and title: Laura Warren, Project Manager				

Address of operator (if different from owner):		Street: (ENSR Corporation) 2 Technology Park Drive	
Town: Westford	State: MA	Zip: 01886	County: Middlesex
d) Check "yes" or "no" for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> , if "yes," number: 03I - 096 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> , if "yes," date and tracking #: 3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 <input checked="" type="checkbox"/> N <input type="checkbox"/> , if Y, number: MAR05C328. 2. phase I or II construction storm water general permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> , if Y, number: 3. individual NPDES permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> , if Y, number: 4. any other water quality related permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> , 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: The discharge is related to the dewatering of a contaminated excavation that is approximately 0.10 acres in area. The groundwater will be pumped from the excavation to a treatment system and into an on-site storm drain and ultimately to Maple Meadow Brook, a tributary to the Ipswich River.		
b) Provide the following information about each discharge:	1) Number of discharge points:  1	2) What is the <b>maximum</b> and <b>average flow rate</b> of discharge (in cubic feet per second, ft <sup>3</sup> /s)? Max. flow <u>0.22</u> Average flow <u>0.11</u> Is maximum flow a <b>design value</b> ? Y <input checked="" type="checkbox"/> N <input type="checkbox"/> For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. Average flow is in units of cubic feet per second and is an estimate.
3) Latitude and longitude of each discharge within 100 feet: pt.1: long. <u>71.16</u> lat. <u>42.53</u> ; 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 <input checked="" type="checkbox"/> or seasonal _____? Is discharge ongoing    Yes _____ No <input checked="" type="checkbox"/> ?
c) Expected dates of discharge (mm/dd/yy): start <u>07/31/08</u> end <u>09/20/08</u>	
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	2540D	2000	4000	2.18	4000	1.09
2. Total Residual Chlorine	✓		1	grab	4500	0.01	ND	0	ND	0
3. Total Petroleum Hydrocarbons		✓	1	grab	8015M	1000	11300	6.15	11300	3.08
4. Cyanide	✓		1	grab	4500	0.01	ND	0	ND	0
5. Benzene	✓		1	grab	8260B	10	ND	0	ND	0
6. Toluene		✓	1	grab	8260B	10	230	0.125	230	0.063
7. Ethylbenzene		✓	1	grab	8260B	10	170	0.093	170	0.046
8. (m,p,o) Xylenes		✓	1	grab	8260B	10.0	2430	1.323	2430	0.661
9. Total BTEX <sup>4</sup>		✓	1	grab	8260B	10.0	2830	1.540	2830	0.770

<sup>4</sup>BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

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)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✓		1	grab	504	0.02	ND	0	ND	0
11. Methyl-tert-Butyl Ether (MtBE)	✓		1	grab	8260B	10	ND	0	ND	0
12. tert-Butyl Alcohol (TBA)	✓		1	grab	8260B	10	ND	0	ND	0
13. tert-Amyl Methyl Ether (TAME)	✓		1	grab	8260B	10	ND	0	ND	0
14. Naphthalene	✓		1	grab	8270C	10	ND	0	ND	0
15. Carbon Tetra-chloride	✓		1	grab	8260B	10	ND	0	ND	0
16. 1,4 Dichlorobenzene	✓		1	grab	8270C	1.0	ND	0	ND	0
17. 1,2 Dichlorobenzene	✓		1	grab	8270C	1.0	ND	0	ND	0
18. 1,3 Dichlorobenzene	✓		1	grab	8270C	1.0	ND	0	ND	0
19. 1,1 Dichloroethane	✓		1	grab	8260B	10.0	ND	0	ND	0
20. 1,2 Dichloroethane	✓		1	grab	8260B	10.0	ND	0	ND	0
21. 1,1 Dichloroethylene	✓		1	grab	8260B	10.0	ND	0	ND	0
22. cis-1,2 Dichloro-ethylene	✓		1	grab	8260B	10.0	ND	0	ND	0
23. Dichloromethane (Methylene Chloride)	✓		1	grab	8260B	10.0	ND	0	ND	0
24. Tetrachloroethylene	✓		1	grab	8260B	10.0	ND	0	ND	0

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)
25. 1,1,1 Trichloroethane	✓		1	grab	8260B	10.0	ND	0	ND	0
26. 1,1,2 Trichloroethane	✓		1	grab	8260B	10.0	ND	0	ND	0
27. Trichloroethylene	✓		1	grab	8260B	10.0	ND	0	ND	0
28. Vinyl Chloride	✓		1	grab	8260B	10.0	ND	0	ND	0
29. Acetone	✓		1	grab	8260B	50	ND	0	ND	0
30. 1,4 Dioxane	✓		1	grab	8260B	10.0	ND	0	ND	0
31. Total Phenols	✓		1	grab	8270	5.0	ND	0	ND	0
32. Pentachlorophenol	✓		1	grab	8270	5.0	ND	0	ND	0
33. Total Phthalates <sup>5</sup> (Phthalate esters)	✓		1	grab	8270	3.0	ND	0	ND	0
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1	grab	8270	3.0	ND	0	ND	0
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	grab	8270	1.0	ND	0	ND	0
a. Benzo(a) Anthracene	✓		1	grab	8270	1.0	ND	0	ND	0
b. Benzo(a) Pyrene	✓		1	grab	8270	1.0	ND	0	ND	0
c. Benzo(b)Fluoranthene	✓		1	grab	8270	1.0	ND	0	ND	0
d. Benzo(k) Fluoranthene	✓		1	grab	8270	1.0	ND	0	ND	0
e. Chrysene	✓		1	grab	8270	1.0	ND	0	ND	0

<sup>5</sup>The sum of individual phthalate compounds.

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		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		1	grab	8270	1.0	ND	0	ND	0
g. Indeno(1,2,3-cd) Pyrene	✓		1	grab	8270	1.0	ND	0	ND	0
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	grab	8270	1.0	ND	0	ND	0
h. Acenaphthene	✓		1	grab	8270	1.0	ND	0	ND	0
i. Acenaphthylene	✓		1	grab	8270	1.0	ND	0	ND	0
j. Anthracene	✓		1	grab	8270	1.0	ND	0	ND	0
k. Benzo(ghi) Perylene	✓		1	grab	8270	1.0	ND	0	ND	0
l. Fluoranthene	✓		1	grab	8270	1.0	ND	0	ND	0
m. Fluorene	✓		1	grab	8270	1.0	ND	0	ND	0
n. Naphthalene-	✓		1	grab	8270	1.0	ND	0	ND	0
o. Phenanthrene	✓		1	grab	8270	1.0	ND	0	ND	0
p. Pyrene	✓		1	grab	8270	1.0	ND	0	ND	0
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	grab	8082	0.2	ND	0	ND	0
38. Antimony	✓		1	grab	200.7	10.0	ND	0	ND	0
39. Arsenic	✓		1	grab	200.7	10.0	ND	0	ND	0
40. Cadmium	✓		1	grab	200.7	5.0	ND	0	ND	0
41. Chromium III	✓		1	grab	200.7	5.0	ND	0	ND	0
42. Chromium VI	✓		1	grab	200.7	5.0	ND	0	ND	0

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)
43. Copper	✓		1	grab	200.7	20	ND	0	ND	0
44. Lead	✓		1	grab	200.7	5	ND	0	ND	0
45. Mercury	✓		1	grab	200.7	5	ND	0	ND	0
46. Nickel	✓		1	grab	200.7	5	ND	0	ND	0
47. Selenium		✓	1	grab	200.7	10	20	0.011	20	0.005
48. Silver	✓		1	grab	200.7	5	ND	0	ND	0
49. Zinc	✓		1	grab	200.7	5	ND	0	ND	0
50. Iron		✓	1	grab	200.7	50	500	0.272	500	0.136
Other (describe):										

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

<p><i>Step 1:</i> Do any of the metals in the influent have a <b>reasonable potential</b> to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y ___ N <input checked="" type="checkbox"/></p>	<p>If yes, which metals?</p>
<p><i>Step 2:</i> For any metals which have <b>reasonable potential</b> to exceed the <b>Appendix III</b> limits, calculate the <b>dilution factor (DF)</b> 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: <u>N/A</u> DF: <u>n/a</u></p>	<p>Look up the limit calculated at the corresponding dilution factor in <b>Appendix IV</b>. Do any of the metals in the <b>influent</b> have the potential to exceed the corresponding <b>effluent</b> limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ___ N <input checked="" type="checkbox"/> If "Yes," list which metals:</p>

**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 attached schematic (Figure 2). Pumps rated for up to 100 gpm will be utilized to remove groundwater from sumps located in and around the excavation. The GW will then go through a 20,000 gallon frac. tank. From there it will be pumped through a two bag filter system: the first 20 microns in size and the second 10 microns in size. It will then be treated by two, 2,000 pound GAC filters pumped in series followed by another 20,000 gallon frac. tank and finally discharged into the onsite storm drain.

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 50 Maximum flow rate of treatment system 100 Design flow rate of treatment system 100

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 <input checked="" type="checkbox"/>	River/brook _____	Wetlands _____	Other (describe):
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b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:  
 The treated groundwater will be released into an onsite storm drain, which drains into a main onsite detention pond. From the detention pond the discharge is released into Maple Meadow Brook, a tributary to the Ipswich River.

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 B

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water n/a 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  If yes, for which pollutant(s)?

Maple Meadow Brook is listed as impaired due to flow alterations, but no data is available.

Is there a TMDL? Yes  No  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? No  or is consultation underway? 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.

Some constituents were detected in the preliminary ground water samples that cannot be found in the RGP. These constituents can be found in the lab data and are Styrene (14 ug/L), 2-Chlorotoluene (230 ug/L), n-Propylbenzene (260 ug/L), 1,3,5- Trimethylbenzene (610 ug/L), and 1,2,4-Trimethylbenzene (1100 ug/L). These constituents however will be removed by the temporary Treatment System.

**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:

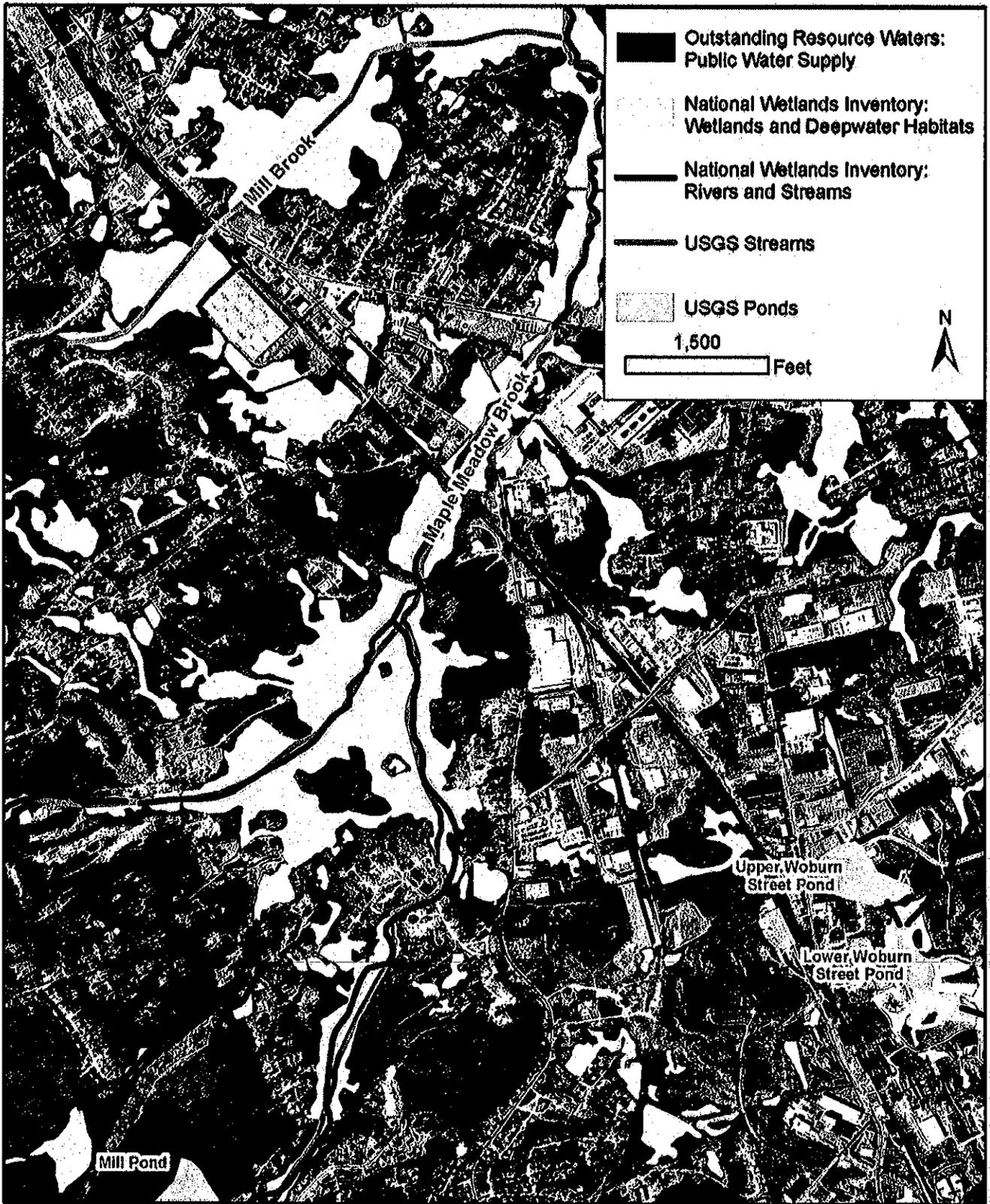
*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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: Neoresins Inc.

Operator signature: 

Title: Sr. Project Manager

Date: 6/13/08



**Figure 1: Neoresins Facility**  
**(1" = 1500')**  
 730 Main Street  
 Wilmington, MA 01887

Source: Mass GIS Layers. (1979) National Wetlands Inventory: Wetlands, Deepwater Habitats, Rivers and Streams. (2003) Outstanding Resource Waters: Public Water Supply. USGS: Major Ponds and Major Streams. Available at: [www.mass.gov/mgis](http://www.mass.gov/mgis)  
 USGS. (2003) Digital Orthophoto Quarter-Quads. Available at: [seamless.usgs.gov](http://seamless.usgs.gov)

**PROJECT NUMBER:**  
 01787094-100

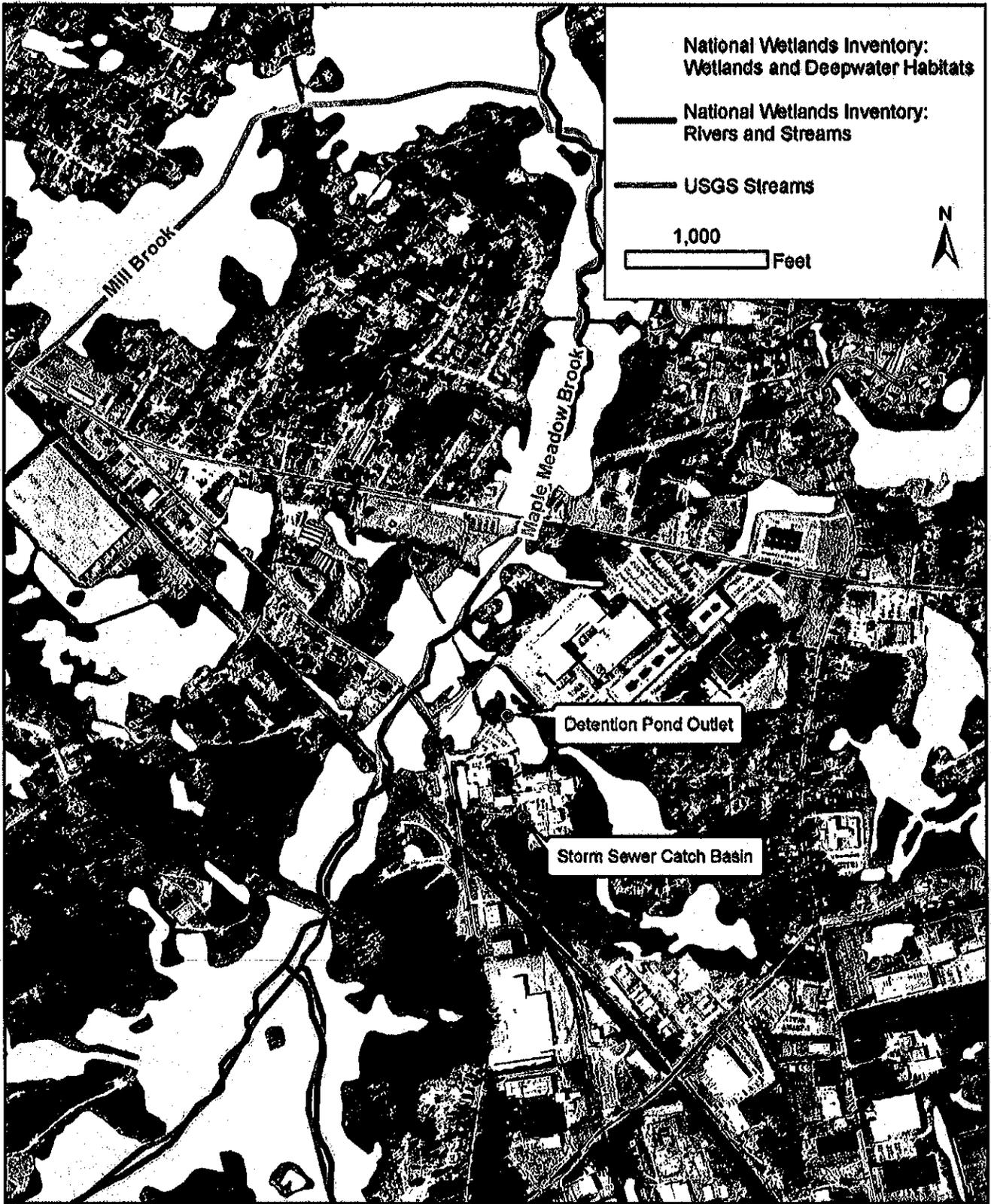
**DATE:**  
 May 08

**ENSR | AECOM**

**ENSR CORPORATION**  
 2 Technology Park Drive  
 Westford, Massachusetts

**Drawn by:**  
 KM

**Checked by:**  
 CC



**Figure 2: Neoresins Facility**  
 (1" = 1000')  
 730 Main Street  
 Wilmington, MA 01887

Source: Mass GIS Layers. (1979) National Wetlands Inventory: Wetlands, Deepwater Habitats, Rivers and Streams. (2003) Outstanding Resource Waters: Public Water Supply. USGS: Major Ponds and Major Streams. Available at: [www.mass.gov/mgis](http://www.mass.gov/mgis)  
 USGS. (2003) Digital Orthophoto Quarter-Quads. Available at: [seamless.usgs.gov](http://seamless.usgs.gov)

PROJECT NUMBER:  
 01787004-400

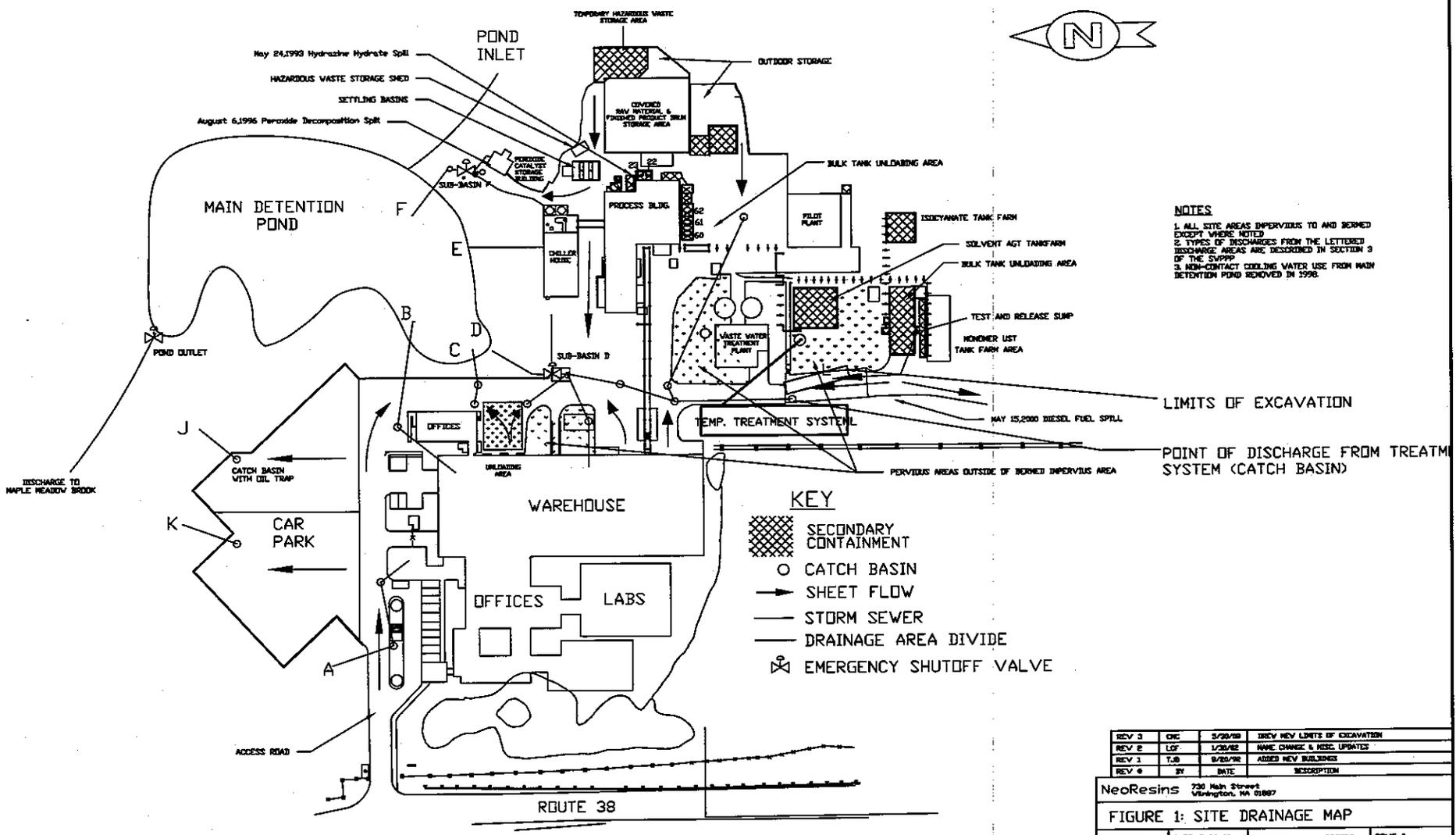
DATE:  
 May 08

ENSR | AECOM  
**ENSR CORPORATION**  
 2 Technology Park Drive  
 Westford, Massachusetts

Drawn by:  
 KM

Checked  
 by: CC

File: F:\USERS\Cherner\Projects\Neorezins\MPDES\Site Drainage Plan, Rev 1.dwg Layout: AISC\_Bt-LJ User: ccherner Plotfile: Jun 09, 2008 - 3:58pm User's:



**NOTES**  
 1. ALL SITE AREAS IMPERVIOUS TO AND BERMED EXCEPT WHERE NOTED  
 2. TYPES OF DISCHARGES FROM THE LETTERED DISCHARGE AREAS ARE DESCRIBED IN SECTION 3 OF THE SWPPP  
 3. NON-CONTACT COOLING WATER USE FROM MAIN DETENTION POND REMOVED IN 1998.

LIMITS OF EXCAVATION  
 POINT OF DISCHARGE FROM TREATMENT SYSTEM (CATCH BASIN)

- KEY**
- SECONDARY CONTAINMENT
  - CATCH BASIN
  - SHEET FLOW
  - STORM SEWER
  - DRAINAGE AREA DIVIDE
  - EMERGENCY SHUTOFF VALVE

REV 3	CHK	5/28/08	REV NEW LIMITS OF EXCAVATION
REV 2	LOF	1/23/02	MAKE CHANGE & MISC UPDATES
REV 1	TJB	8/22/00	ADDED NEW BUILDINGS
REV 0	BY	DATE	DESCRIPTION

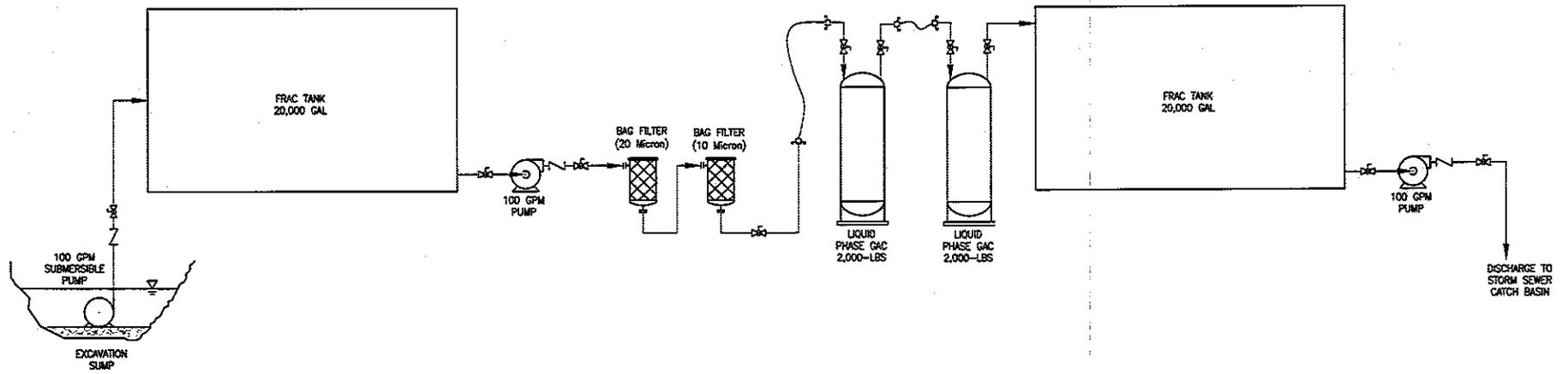
NeoResins 730 High Street  
 Wilmington, MA 01897

**FIGURE 1: SITE DRAINAGE MAP**

SCALE 1/8" = 1'-0" DATE: 5-30-08 DRAWN BY: S.J. ROGERS DRWG #

DSM NEORESINS WILMINGTON, MASSACHUSETTS		SITE DRAINAGE MAP	
DATE: 05/03/08	DRWN: RCW/WSF	FIGURE 1	

File: F:\PROJECTS\Beatrix\NewResins\01782204\Excavation Design\Permit Figures\01782-004-P-01.dwg Layout: ANSL\_B User: catherine\_Rilledt Jun 09, 2008 - 4:01pm Xref:



ENSR | AECOM

DSM NEORESINS WILMINGTON, MASSACHUSETTS		PROPOSED WATER TREATMENT SYSTEM SCHEMATIC	
DATE: 06/03/08	DRW: RCW/WSF		FIGURE 2

# **REPORT OF ANALYTICAL RESULTS**

**Case Number T0528-19**

Prepared for:

Attn: Laura Warren  
The RETEC Group  
300 Baker Ave., Ste 250  
Concord, MA 01742

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Report Date: June 2, 2008

Lab # RI010

**ANALYTICAL METHOD REPORT CERTIFICATION FORM**

Laboratory Name: New England Testing Laboratory, Inc.

Project #:

Project Location: NeoResins

RTN<sup>1</sup>:

This form provides certifications for the following data set: T0528-19

Sample Matrices: Groundwater (  ) Soil/Sediment ( ) Drinking Water ( ) Other:

<b>SW-846 Methods Used</b>	8260B ( <input checked="" type="checkbox"/> )	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( <input checked="" type="checkbox"/> )	8081A ( )	VPH ( )	6020 ( )	9014M <sup>2</sup> ( )
	8082 ( <input checked="" type="checkbox"/> )	8021B ( )	EPH ( )	7000 S <sup>3</sup> ( )	Other: ( <input checked="" type="checkbox"/> )
1. List Release Tracking Number (RTN), if known 2. M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3. S – SW-846 Methods 7000 Series. List individual method and analyte					

**An affirmative response to questions A, B, and C is required for "Presumptive Certainty" status**

<b>A</b>	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	Yes ( <input checked="" type="checkbox"/> ) No <sup>1</sup> ( )
<b>B</b>	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes ( <input checked="" type="checkbox"/> ) No <sup>1</sup> ( )
<b>C</b>	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes ( <input checked="" type="checkbox"/> ) No <sup>1</sup> ( ) Not Applicable ( )
<b>D</b>	<b><u>VPH and EPH Methods only:</u></b> Was the VPH and EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	Yes ( ) No <sup>1</sup> ( )

**A response to questions E and F below is required for "Presumptive Certainty" status**

<b>E</b>	Were all QC performance standards and recommendations for the specified methods achieved?	Yes ( <input checked="" type="checkbox"/> ) No <sup>1</sup> ( )
<b>F</b>	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes ( <input checked="" type="checkbox"/> ) No <sup>1</sup> ( )

<sup>1</sup>All NO answers must be addressed in an attached Environmental Laboratory case narrative.

***I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.***

Signature: Richard Warila Position: Laboratory Director  
 Printed Name: Richard Warila Date: 6/3/2008

**STATEMENTS/CERTIFICATIONS REQUIRED BY THE NATIONAL ENVIRONMENTAL LABORATORY APPROVAL CONFERENCE (NELAC)**

New England Testing Laboratory is certified under the National Environmental Laboratory Approval Program (NELAP). This certification requires the following statements and certifications be included in our report.

This report shall not be reproduced, except in full, without written approval of the laboratory.

New England Testing certifies that the test results contained within this report meet all NELAC requirements except as detailed in the Case Narrative section of this report.

**SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:**

The samples listed in Table I were submitted to New England Testing Laboratory on May 28, 2008. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. The case number for this sample submission is T0528-19.

Custody records are included in this report.

**Project: Neo Resins**

**TABLE I, Samples Submitted**

Sample ID	Date Sampled	Matrix	Analysis Requested
OW28R-52808	5/28/08	Water	Table II

**TABLE II, Analysis and Methods**

<b>ANALYSIS</b>	<b>PREPARATION METHOD</b>	<b>DETERMINATIVE METHOD</b>
Total Suspended Solids	NA	2540D
Total Residual Chlorine	NA	4500 CL-G
Total Cyanide	NA	4500 CN-C,E
Hexavalent Chromium		3500 Cr-B
Volatile Organic Compounds	5030B	8260B
Total Petroleum Hydrocarbons	5030B	8015M
Ethylene Dibromide	NA	504
Semivolatile Organics	3510C	8270C
PCBs	3510C	8082
<b>Total Metals</b>		
Antimony	200.7	200.7
Arsenic	200.7	200.7
Cadmium	200.7	200.7
Chromium	200.7	200.7
Copper	200.7	200.7
Iron	200.7	200.7
Lead	200.7	200.7
Nickel	200.7	200.7
Selenium	200.7	200.7
Silver	200.7	200.7

These methods are documented in:

*Standard Methods for the Examination of Water and Wastewater*, 20<sup>th</sup> Edition, 1998, APHA, AWWA-WPCF.

*Manual of Methods for Chemical Analysis of Water and Water Wastes*, EPA-600/4-79-020 (Revised 1983), USEPA/EMSL.

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, SW-846, USEPA/OSW.

## **CASE NARRATIVE:**

### **Sample Receipt:**

No sample for ms/msd/duplicate analysis was supplied. No trip blank was supplied. No field blank was supplied. (This does not qualify the analytical results but does prevent conducting these SW-846 {Chapter 1, Section 3.4} QA Audits.)

The samples were all appropriately cooled and preserved upon receipt.

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

### **Metals:**

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

### **Volatile Organics:**

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

### **Semivolatiles:**

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

### **TPH:**

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

### **PCBs:**

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

### **EDB:**

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

### **Wet Chemistry:**

Total Suspended Solids: The appropriate quality control requirements were within limits.

Residual Chlorine: The analysis was performed after the method specified hold time of "immediately after collection".

Hexavalent Chromium: The appropriate quality control requirements were within limits.

Total Cyanide: The appropriate quality control requirements were within limits.

## Sample Results

**OW28R-52808**

Parameter	Result, mg/l	Reporting Limit	Date Analyzed
Total Suspended Solids	4	2	5/30/08
Total Residual Chlorine	N.D.	0.01	5/28/08 @ 15:50
Total Cyanide	N.D.	0.01	5/30/08
Hexavalent Chromium	N.D.	0.01	5/28/08 @ 15:55

<b>Sample: OW28R-52808</b>		<b>Analyst's Initials: M.M.</b>
<b>Case No. T0528-19</b>		
<b>Date Collected: 5/28/08</b>		
<b>Sample Matrix: Water</b>		
<b>Subject: TPH</b>		
<b>Prep Method: EPA 5030B</b>	<b>Date Extracted</b>	<b>Date Analyzed</b>
<b>Analytical Method: EPA 8015B mod.</b>	NA	5/28/08
<b>Compound</b>	<b>Concentration, ug/l (ppb)</b>	<b>Reporting Limit</b>
<b>Total Petroleum Hydrocarbons</b>	11,300	1,000
<b>Surrogates:</b>		
<b>Compound</b>	<b>% Recovery</b>	<b>Limits</b>
<b>Fluorobenzene</b>	108	70-130

## **RESULTS: EDB**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

**Sample: OW28R-52808**

**Case No. T0528-19**

**Subject: Ethylene Dibromide  
Method: EPA 504.1**

**Date Extracted: 05/30/2008  
Date Analyzed: 05/30/2008**

<u>Compound</u>	<u>Concentration ug/L (ppb)</u>	<u>Method Detection Limit, ug/L</u>	<u>Reporting Limit, ug/L</u>
Ethylene Dibromide	N.D.	0.02	0.02

## **METALS RESULTS**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

METALS RESULTS



Case Number: T0528-19  
 Sample ID: OW28R-52808  
 Date collected: 05/28/08  
 Matrix: WATER  
 Sample Type: TOTAL

Analyst MM/MG

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Antimony	7440-36-0	200.7	200.7	ND	0.01	0.01	mg/l	5/29/08	5/29/08
Arsenic	7440-38-2	200.7	200.7	ND	0.01	0.01	mg/l	5/29/08	5/29/08
Cadmium	7440-43-9	200.7	200.7	ND	0.005	0.005	mg/l	5/29/08	5/29/08
Chromium	7440-47-3	200.7	200.7	ND	0.005	0.005	mg/l	5/29/08	5/29/08
Copper	7440-50-8	200.7	200.7	ND	0.02	0.02	mg/l	5/29/08	5/29/08
Iron	7439-89-6	200.7	200.7	0.50	0.05	0.05	mg/l	5/29/08	5/29/08
Lead	7439-92-1	200.7	200.7	ND	0.005	0.005	mg/l	5/29/08	5/29/08
Nickel	7440-02-0	200.7	200.7	ND	0.005	0.005	mg/l	5/29/08	5/29/08
Selenium	7782-49-2	200.7	200.7	0.02	0.01	0.01	mg/l	5/29/08	5/29/08
Silver	7440-22-4	200.7	200.7	ND	0.005	0.005	mg/l	5/29/08	5/29/08

ND indicates not Detected

METALS RESULTS



Sample ID: Method Blank

Matrix WATER  
 Sample Type: Preparation Blank

Analyst MM/MG

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Antimony	7440-36-0	200.7	200.7	ND	0.005	0.005	mg/l	5/29/08	5/29/08
Arsenic	7440-38-2	200.7	200.7	ND	0.01	0.01	mg/l	5/29/08	5/29/08
Cadmium	7440-43-9	200.7	200.7	ND	0.005	0.005	mg/l	5/29/08	5/29/08
Chromium	7440-47-3	200.7	200.7	ND	0.005	0.005	mg/l	5/29/08	5/29/08
Copper	7440-50-8	200.7	200.7	ND	0.02	0.02	mg/l	5/29/08	5/29/08
Iron	7439-89-6	200.7	200.7	ND	0.05	0.05	mg/l	5/29/08	5/29/08
Lead	7439-92-1	200.7	200.7	ND	0.005	0.005	mg/l	5/29/08	5/29/08
Nickel	7440-02-0	200.7	200.7	ND	0.005	0.005	mg/l	5/29/08	5/29/08
Selenium	7782-49-2	200.7	200.7	ND	0.01	0.01	mg/l	5/29/08	5/29/08
Silver	7440-22-4	200.7	200.7	ND	0.005	0.005	mg/l	5/29/08	5/29/08

ND indicates not Detected

## LABORATORY CONTROL SAMPLE RECOVERY

Parameter	True Value	Result	Units	Recovery, %	Internal		Date Analyzed
					LCL, %	UCL, %	
Antimony	1.00	0.91	mg/l	91	80	119	5/29/08
Arsenic	0.20	0.18	mg/l	89	80	123	5/29/08
Cadmium	1.00	0.94	mg/l	94	92	113	5/29/08
Chromium	1.00	0.92	mg/l	92	85	117	5/29/08
Copper	1.00	0.89	mg/l	89	85	117	5/29/08
Iron	10.00	8.86	mg/l	89	81	131	5/29/08
Lead	1.00	0.97	mg/l	97	93	110	5/29/08
Nickel	1.00	0.92	mg/l	92	88	115	5/29/08
Selenium	0.20	0.18	mg/l	92	85	116	5/29/08
Silver	0.20	0.17	mg/l	86	86	118	5/29/08

## **RESULTS: PCBs**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

<b>Sample: OW28R-52808</b>		Analyst's Initials: BM
<b>Case No. T0528-19</b>		
<b>Date Collected: 5/28/08</b>		
<b>Sample Matrix: Water</b>		
<b>Subject: PCBs</b>	Date Extracted	Date Analyzed
<b>Prep Method: EPA 3510C</b>	5/29/08	5/29/08
<b>Analytical Method: EPA 8082</b>		
Compound	Concentration ug/l (ppb)	Reporting Limit
Aroclor-1221	N.D.	0.2
Aroclor-1232	N.D.	0.2
Aroclor-1016/1242	N.D.	0.2
Aroclor -1248	N.D.	0.2
Aroclor -1254	N.D.	0.2
Aroclor -1260	N.D.	0.2
Aroclor -1262	N.D.	0.2
Aroclor -1268	N.D.	0.2
Surrogates:		
Compound	% Recovery	Limits
TCMX	88	42-126
DCBP	87	41-142

<b>Sample: Method Blank</b>		Analyst's Initials: BM
<b>Case No. T0528-19</b>		
<b>Date Collected: NA</b>		
<b>Sample Matrix: Water</b>		
<b>Subject: PCBs</b>	Date Extracted	Date Analyzed
<b>Prep Method: EPA 3510C</b>	5/29/08	5/29/08
<b>Analytical Method: EPA 8082</b>		
Compound	Concentration ug/l (ppb)	Reporting Limit
Aroclor-1221	N.D.	0.2
Aroclor-1232	N.D.	0.2
Aroclor-1016/1242	N.D.	0.2
Aroclor -1248	N.D.	0.2
Aroclor -1254	N.D.	0.2
Aroclor -1260	N.D.	0.2
Aroclor -1262	N.D.	0.2
Aroclor -1268	N.D.	0.2
Surrogates:		
Compound	% Recovery	Limits
TCMX	81	42-126
DCBP	81	41-142

### PCB Laboratory Control Spike

<b>Sample Matrix: Water</b>			<b>Analyst:</b>	<b>BM</b>
<b>Subject: PCB</b>	Date Extracted			Date Analyzed
<b>Prep Method: EPA 3510C</b>	5/29/08			5/29/08
<b>Analytical Method: EPA 8082</b>				
<b>Compound</b>	<b>Amount Spiked ug/L</b>	<b>Result ug/L</b>	<b>Recovery %</b>	<b>Recovery Limits</b>
Aroclor 1260	0.500	0.438	88	46-117
<b>Surrogates:</b>				
<b>Compound</b>	<b>% Recovery</b>	<b>Limits</b>		
TCMX	80	42-126		
DCBP	78	41-142		

## **RESULTS: SEMIVOLATILE ORGANIC COMPOUNDS**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: T0528-19 Client Name: ENSR Corporation  
 Method: 8270 Lab Sample ID: OW28R-52808  
 Matrix: (soil/water/air) WATER Lab File ID: B060205.D  
 Sample-wt/vol: 1000 (g/ml) ML Date Sampled: 5/28/2008  
 Level: (low/med) LOW Date Extracted: 5/29/2008  
 % Moisture: \_\_\_\_\_ Date Analyzed: 6/2/2008  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)  
 Analyst's Initials: RCM

CAS NO. COMPOUND UNITS: UG/L Q

CAS NO.	COMPOUND	UNITS: <u>UG/L</u>	Q
62-75-9	n-Nitrosodimethylamine	3.0	U
110-86-1	Pyridine	2.0	U
108-95-2	Phenol	2.0	U
62-53-3	Aniline	2.0	U
111-44-4	bis(2-Chloroethyl)ether	1.0	U
95-57-8	2-Chlorophenol	2.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
95-48-7	2-Methylphenol	2.0	U
108-60-1	bis(2-chloroisopropyl)ether	1.0	U
106-44-5	3- & 4-Methylphenol	2.0	U
621-64-7	n-Nitroso-di-n-propylamine	1.0	U
67-72-1	Hexachloroethane	1.0	U
98-95-3	Nitrobenzene	1.0	U
78-59-1	Isophorone	1.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	15	U
111-91-1	bis(2-Chloroethoxy)methane	1.0	U
120-83-2	2,4-Dichlorophenol	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
91-20-3	Naphthalene	1.0	U
106-47-8	4-Chloroaniline	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	1.0	U
77-47-4	Hexachlorocyclopentadiene	1.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U
91-58-7	2-Chloronaphthalene	1.0	U
88-74-4	2-Nitroaniline	1.0	U
131-11-3	Dimethyl phthalate	1.0	U
208-96-8	Acenaphthylene	1.0	U
606-20-2	2,6-Dinitrotoluene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: T0528-19Client Name: ENSR CorporationMethod: 8270Lab Sample ID: OW28R-52808Matrix: (soil/water/air) WATERLab File ID: B060205.DSample wt/vol: 1000 (g/ml) MLDate Sampled: 5/28/2008Level: (low/med) LOWDate Extracted: 5/29/2008

% Moisture: \_\_\_\_\_

Date Analyzed: 6/2/2008Concentrated Extract Volume: 1000 (uL)Dilution Factor: 1.0Injection Volume: 1.0 (uL)Analyst's Initials: RCM

CAS NO.	COMPOUND	UNITS:	UG/L	Q
99-09-2	3-Nitroaniline		1.0	U
83-32-9	Acenaphthene		1.0	U
51-28-5	2,4-Dinitrophenol		5.0	U
100-02-7	4-Nitrophenol		5.0	U
132-64-9	Dibenzofuran		1.0	U
121-14-2	2,4-Dinitrotoluene		1.0	U
84-66-2	Diethyl phthalate		1.0	U
86-73-7	Fluorene		1.0	U
7005-72-3	4-Chlorophenyl phenyl ether		1.0	U
100-01-6	4-Nitroaniline		1.0	U
534-52-1	4,6-Dinitro-2-methylphenol		5.0	U
86-30-6	n-Nitrosodiphenylamine		1.0	U
101-55-3	4-Bromophenyl phenyl ether		1.0	U
118-74-1	Hexachlorobenzene		1.0	U
87-86-5	Pentachlorophenol		5.0	U
85-01-8	Phenanthrene		1.0	U
120-12-7	Anthracene		1.0	U
84-74-2	Di-n-butylphthalate		3.0	U
206-44-0	Fluoranthene		1.0	U
92-87-5	Benzidine		60	U
129-00-0	Pyrene		1.0	U
85-68-7	Butyl benzyl phthalate		1.0	U
91-94-1	3,3'-Dichlorobenzidine		1.0	U
56-55-3	Benzo(a)anthracene		1.0	U
218-01-9	Chrysene		1.0	U
117-81-7	bis(2-Ethylhexyl)phthalate		3.0	U
117-84-0	Di-n-octyl phthalate		3.0	U
205-99-2	Benzo(b)fluoranthene		1.0	U
207-08-9	Benzo(k)fluoranthene		1.0	U
50-32-8	Benzo(a)pyrene		1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.0	U
53-70-3	Dibenz(a,h)anthracene		1.0	U
191-24-2	Benzo(a,h,i)perylene		1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: T0528-19 Client Name: ENSR Corporation  
 Method: 8270 Lab Sample ID: SBLK080529  
 Matrix: (soil/water/air) WATER Lab File ID: B060203.D  
 Sample wt/vol: 1000 (g/ml) ML Date Sampled: 5/28/2008  
 Level: (low/med) LOW Date Extracted: 5/29/2008  
 % Moisture: \_\_\_\_\_ Date Analyzed: 6/2/2008  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)  
 Analyst's Initials: RCM

CAS NO. COMPOUND UNITS: UG/L Q

CAS NO.	COMPOUND	UNITS: <u>UG/L</u>	Q
62-75-9	n-Nitrosodimethylamine	3.0	U
110-86-1	Pyridine	2.0	U
108-95-2	Phenol	2.0	U
62-53-3	Aniline	2.0	U
111-44-4	bis(2-Chloroethyl)ether	1.0	U
95-57-8	2-Chlorophenol	2.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
95-48-7	2-Methylphenol	2.0	U
108-60-1	bis(2-chloroisopropyl)ether	1.0	U
106-44-5	3- & 4-Methylphenol	2.0	U
621-64-7	n-Nitroso-di-n-propylamine	1.0	U
67-72-1	Hexachloroethane	1.0	U
98-95-3	Nitrobenzene	1.0	U
78-59-1	Isophorone	1.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	15	U
111-91-1	bis(2-Chloroethoxy)methane	1.0	U
120-83-2	2,4-Dichlorophenol	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
91-20-3	Naphthalene	1.0	U
106-47-8	4-Chloroaniline	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	1.0	U
77-47-4	Hexachlorocyclopentadiene	1.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U
91-58-7	2-Chloronaphthalene	1.0	U
88-74-4	2-Nitroaniline	1.0	U
131-11-3	Dimethyl phthalate	1.0	U
208-96-8	Acenaphthylene	1.0	U
606-20-2	2,6-Dinitrotoluene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: T0528-19Client Name: ENSR CorporationMethod: 8270Lab Sample ID: SBLK080529Matrix: (soil/water/air) WATERLab File ID: B060203.DSample wt/vol: 1000 (g/ml) MLDate Sampled: 5/28/2008Level: (low/med) LOWDate Extracted: 5/29/2008

% Moisture: \_\_\_\_\_

Date Analyzed: 6/2/2008Concentrated Extract Volume: 1000 (uL)Dilution Factor: 1.0Injection Volume: 1.0 (uL)Analyst's Initials: RCM

CAS NO.	COMPOUND	UNITS:	<u>UG/L</u>	Q
99-09-2	3-Nitroaniline		1.0	U
83-32-9	Acenaphthene		1.0	U
51-28-5	2,4-Dinitrophenol		5.0	U
100-02-7	4-Nitrophenol		5.0	U
132-64-9	Dibenzofuran		1.0	U
121-14-2	2,4-Dinitrotoluene		1.0	U
84-66-2	Diethyl phthalate		1.0	U
86-73-7	Fluorene		1.0	U
7005-72-3	4-Chlorophenyl phenyl ether		1.0	U
100-01-6	4-Nitroaniline		1.0	U
534-52-1	4,6-Dinitro-2-methylphenol		5.0	U
86-30-6	n-Nitrosodiphenylamine		1.0	U
101-55-3	4-Bromophenyl phenyl ether		1.0	U
118-74-1	Hexachlorobenzene		1.0	U
87-86-5	Pentachlorophenol		5.0	U
85-01-8	Phenanthrene		1.0	U
120-12-7	Anthracene		1.0	U
84-74-2	Di-n-butylphthalate		3.0	U
206-44-0	Fluoranthene		1.0	U
92-87-5	Benzidine		60	U
129-00-0	Pyrene		1.0	U
85-68-7	Butyl benzyl phthalate		1.0	U
91-94-1	3,3'-Dichlorobenzidine		1.0	U
56-55-3	Benzo(a)anthracene		1.0	U
218-01-9	Chrysene		1.0	U
117-81-7	bis(2-Ethylhexyl)phthalate		3.0	U
117-84-0	Di-n-octyl phthalate		3.0	U
205-99-2	Benzo(b)fluoranthene		1.0	U
207-08-9	Benzo(k)fluoranthene		1.0	U
50-32-8	Benzo(a)pyrene		1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.0	U
53-70-3	Dibenz(a,h)anthracene		1.0	U
191-24-2	Benzo(g,h,i)perylene		1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-2

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: New England Testing Lab

Case No.: T0528-19

Lab Code: RI010

Client Name: ENSR Corporation

	S1	S2	S3	S4	S5	S6	TOT
	#	#	#	#	#	#	OUT
01 SBLK080529	26	16	57	65	66	68	0
02 SLCS080529	31	21	60	69	76	66	0
03 OW28R-52808	20	16	46	50	55	54	0

QC LIMITS

S1	=	2-Fluorophenol	(15-102)
S2	=	Phenol-d6	(15-102)
S3	=	Nitrobenzene-d5	(30-120)
S4	=	2-Fluorobiphenyl	(32-109)
S5	=	2,4,6-Tribromophenol	(48-110)
S6	=	Terphenyl-d14	(30-130)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

D Surrogate diluted out

New England Testing Laboratory, Inc.

### Semivolatile Water Laboratory Control Spike

Date Extracted: 5/29/2008  
 Date Analyzed: 6/2/2008

	Amount Spiked	Result,	Recovery	Lower Recovery	Upper Recovery
	ug/L	ug/L	%	Limit	Limit
n-Nitrosodimethylamine	50.0	13.3	27*	40	69
Pyridine	50.0	12.7	25*	40	72
Phenol	50.0	11.7	23*	30	67
Aniline	50.0	26.2	52	40	92
bis(2-Chloroethyl)ether	50.0	30.6	61	40	97
2-Chlorophenol	50.0	25.9	52	30	85
1,3-Dichlorobenzene	50.0	27.1	54	40	87
1,4-Dichlorobenzene	50.0	27.5	55	40	89
Benzyl alcohol	50.0	23.2	46	40	89
1,2-Dichlorobenzene	50.0	28.8	58	40	92
2-Methylphenol	50.0	23.6	47	32	86
bis(2-chloroisopropyl)ether	50.0	28.5	57	40	95
3- & 4-Methylphenol	50.0	21.6	43	30	80
n-Nitroso-di-n-propylamine	50.0	32.8	66	40	106
Hexachloroethane	50.0	26.6	53	40	89
Nitrobenzene	50.0	27.9	56	40	100
Isophorone	50.0	33.0	66	40	115
2-Nitrophenol	50.0	28.8	58	30	104
2,4-Dimethylphenol	50.0	31.7	63	30	114
bis(2-Chloroethoxy)methane	50.0	29.8	60	40	112
2,4-Dichlorophenol	50.0	27.5	55	30	105
1,2,4-Trichlorobenzene	50.0	25.8	52	40	98
Naphthalene	50.0	30.7	61	40	104
4-Chloroaniline	50.0	34.5	69	40	107
Hexachlorobutadiene	50.0	26.0	52	40	107
4-Chloro-3-methylphenol	50.0	32.1	64	30	116
2-Methylnaphthalene	50.0	30.1	60	40	104
Hexachlorocyclopentadiene	50.0	36.3	73	40	115
2,4,6-Trichlorophenol	50.0	34.7	69	35	114
2,4,5-Trichlorophenol	50.0	35.4	71	34	123
2-Chloronaphthalene	50.0	33.1	66	40	108
2-Nitroaniline	50.0	35.6	71	40	124
Dimethyl phthalate	50.0	36.8	74	40	119
Acenaphthylene	50.0	41.7	83	40	113
2,6-Dinitrotoluene	50.0	39.8	80	41	128
3-Nitroaniline	50.0	40.1	80	40	140
Acenaphthene	50.0	42.3	85	40	112
2,4-Dinitrophenol	50.0	42.7	85	30	130
4-Nitrophenol	50.0	23.8	48	30	101
Dibenzofuran	50.0	41.1	82	40	116
2,4-Dinitrotoluene	50.0	38.9	78	41	129
Diethyl phthalate	50.0	36.6	73	40	121

\* indicates a permissible excursion of QC criteria per MCP WSC-CAM-IIB.

### Semivolatile Water Laboratory Control Spike

Date Extracted: 5/29/2008  
 Date Analyzed: 6/2/2008

Fluorene	50.0	38.1	76	40	118
4-Chlorophenyl phenyl ether	50.0	34.1	68	40	110
4-Nitroaniline	50.0	35.9	72	40	140
4,6-Dinitro-2-methylphenol	50.0	39.0	78	33	125
n-Nitrosodiphenylamine	50.0	46.0	92	53	138
4-Bromophenyl phenyl ether	50.0	30.0	60	40	117
Hexachlorobenzene	50.0	35.4	71	48	117
Pentachlorophenol	50.0	40.6	81	54	127
Phenanthrene	50.0	45.0	90	48	115
Anthracene	50.0	47.1	94	45	121
Di-n-butylphthalate	50.0	38.3	77	40	132
Fluoranthene	50.0	44.7	89	48	122
Pyrene	50.0	46.9	94	45	120
Butyl benzyl phthalate	50.0	42.4	85	40	140
Benzo(a)anthracene	50.0	39.5	79	52	117
Chrysene	50.0	38.7	77	47	118
bis(2-Ethylhexyl)phthalate	50.0	41.2	82	40	140
Di-n-octyl phthalate	50.0	42.3	85	40	140
Benzo(b)fluoranthene	50.0	41.3	83	45	132
Benzo(k)fluoranthene	50.0	39.3	79	46	130
Benzo(a)pyrene	50.0	43.2	86	46	138
Indeno(1,2,3-cd)pyrene	50.0	40.0	80	41	140
Dibenz(a,h)anthracene	50.0	41.9	84	48	140
Benzo(g,h,i)perylene	50.0	41.4	83	40	140

\* indicates a permissible excursion of QC criteria per MCP WSC-CAM-IIB.

## **RESULTS: VOLATILE ORGANIC COMPOUNDS**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: T0528-19 Client Name: ENSR Corporation  
 Method: 8260 Lab Sample ID: OW28R-52808  
 Matrix: (soil/water) WATER Lab File ID: G01484.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 5/28/2008  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/2/2008  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 10.0  
 Analyst's Initials: mgf Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
67-64-1	Acetone	50	U
75-34-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	tert-Butyl methyl ether	10	U
156-60-5	trans-1,2 Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
594-20-7	2,2-Dichloropropane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	50	U
74-97-5	Bromochloromethane	10	U
71-56-6	1,1,1-Trichloroethane	10	U
563-58-6	1,1-Dichloropropene	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
74-95-3	Dibromomethane	10	U
108-10-1	4-Methyl-2-pentanone	10	U
106-93-4	Ethylene Dibromide	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-88-3	Toluene	230	D
10061-02-6	Trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
124-48-1	Chlorodibromomethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: T0528-19 Client Name: ENSR Corporation  
 Method: 8260 Lab Sample ID: OW28R-52808  
 Matrix: (soil/water) WATER Lab File ID: G01484.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 5/28/2008  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/2/2008  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 10.0  
 Analyst's Initials: mgf Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
100-41-4	Ethylbenzene	170	D
1330-20-7	m & p-Xylene	1600	D
95-47-6	o-Xylene	830	D
100-42-5	Styrene	14	D
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	150	D
79-34-5	1,1,2,2-Tetrachloroethene	10	U
108-86-1	Bromobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
95-49-8	2-Chlorotoluene	230	D
103-65-1	n-Propylbenzene	260	D
108-67-8	1,3,5-Trimethylbenzene	610	D
106-43-4	4-Chlorotoluene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	1100	D
135-98-8	sec-Butylbenzene	10	U
99-87-6	p-Isopropyltoluene	10	U
75-87-3	Chloromethane	10	U
75-65-0	tert butyl alcohol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
109-99-9	Tetrahydrofuran	50	U
106-46-7	1,4-Dichlorobenzene	10	U
60-29-7	Diethyl Ether	10	U
104-51-8	n-Butylbenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	40	U
91-20-3	Naphthalene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: T0528-19

Client Name: ENSR Corporation

Method: 8260

Lab Sample ID: VBLK080602

Matrix: (soil/water) WATER

Lab File ID: G07394.D

Sample wt/vol: 5.0 (g/ml) ML

Date Sampled: 5/28/2008

% Moisture

Date Analyzed: 6/2/2008

Soil Extract Volume: (uL)

Dilution Factor: 1.0

Analyst's Initials: mm

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-34-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	5.0	U
74-97-5	Bromochloromethane	1.0	U
71-56-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	1.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: T0528-19 Client Name: ENSR Corporation  
 Method: 8260 Lab Sample ID: VBLK080602  
 Matrix: (soil/water) WATER Lab File ID: G07394.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 5/28/2008  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/2/2008  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: mm Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethene	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	5.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	4.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.



2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: New England Testing Lab Contract: Neo Resins  
Lab Code: RI010 Case No.: T0528-19 SAS No.: \_\_\_\_\_ SDG No.: ENSR Cor

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VLCS080602	88	101	113	0
02	VBLK080602	86	100	119	0
03	OW28R-52808	93	98	108	0

QC LIMITS

SMC1 = 4-Bromofluorobenzene (70-130)  
SMC2 = Toluene-D8 (70-130)  
SMC3 = 1,2-Dichloroethane-D4 (70-130)

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits  
D System Monitoring Compound diluted out

New England Testing Laboratory, Inc.

### Volatile Organics Laboratory Control Spike

Date Analyzed: 06/02/08

Sample ID: VLCS080602

Compound	Spike Added (ug/L)	Spike Result (ug/L)	Recovery, %	Lower Control Limit, %	Upper Control Limit, %
1,1-Dichloroethene	50.0	40.6	81	70	130
Benzene	50.0	41.3	83	70	130
Trichloroethene	50.0	44.4	89	70	130
Toluene	50.0	45.0	90	70	130
Chlorobenzene	50.0	42.2	84	70	130

