

567SERBSF10, 633

567SERBSF10,633

Site Name (Subject): TRIANGLE MACHINE & ELECTRONICS

Site ID (Document ID): NONCD0002628

Document Name (DocType): Pre-CERCLIS Screening (PSA)

Report Segment:
Description: Pre-CERCLIS Screening Assessment

Date of Document: 9/28/2009

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North Carolina Department of Environment and Natural Resources

Division of Waste Management

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Governor

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Director

Dee Freeman
Secretary

September 28, 2009

Ms. Carolyn Callihan, RPM
US EPA Region IV Waste Division
Atlanta Federal Building
61 Forsyth St., 11th Floor
Atlanta, GA 30303-3104

Subject: Triangle Machine & Electronic Co.
aka Metal Processors, Inc.
705 North Main Street
Kernersville, Forsyth County, NC, 27285

Dear Ms. Callihan:

This site was pre-screened for potential listing under CERCLA. Based on findings of this Pre-CERCLIS Screening Assessment, it is recommended that this site **not** be listed on CERCLIS for further study.

1. The coordinates of the site are 36.1289° north latitude and 80.0629° west longitude. The site reference point is the approximate center of the former facility. The site is at 705 North Main Street, approximately ½ mile northeast of downtown Kernersville (Ref. 1).
2. The Triangle Machine & Electronic Co. site is located on an approximately 0.56-acre lot with one existing building. A total of five lots associated with both Triangle Machine & Electronic Co. and Metal Processors, Inc. are located at and around the site. Combined lot size is approximately 2.23 acres, with four existing structures (Ref. 2). The site and surrounding properties are currently owned by Triangle Machine & Electronics Co. and Metal Processors, Inc., both with the same registered agent, Donald Bullard (Refs. 2,3).
3. The site is surrounded by private residences to the north and northwest, Oak Street to the west, North Main Street to the south and southeast, and open fields to the northeast (Fig. 1). The site is partially fenced and accessible to the public from the north (Ref. 4).
4. According to the NC Department of the Secretary of State Corporations database, Metal Processors, Inc. was formed on November 29, 1954 and Triangle Machine & Electronic Co. was formed on February 12, 1964 (Ref. 3). Both entities are still currently considered active, though no signs of activity were present at any of the buildings during site reconnaissances (Refs. 4, 5). One building, located at 703 North Main Street, was condemned (Ref. 5).

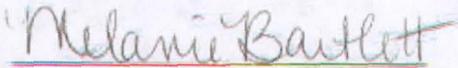
5. According to the NC Directory of Manufacturing Firms, Triangle Machine & Electronic Co. makes screws and electronic components, including welding and painting, using steel, aluminum, brass copper, and monel (a nickel-copper alloy with some iron). These same processes are also associated with Metal Processors, Inc. (Ref. 5).
6. An April 19, 1994 Report of Investigations by Bain, Palmer, & Associates, Inc. included sampling of one on-site monitoring well and one composite soil sample (Fig. 2). Groundwater sampling indicated the presence of 1,1-dichloroethene (190 micrograms per liter (ug/l)), tetrachloroethene (320 ug/l), 1,1,1-trichloroethane (1,000 ug/l), and trichloroethene (110 ug/l) at levels above NC 2L Groundwater Standards (Refs. 6, 7). Soil sampling indicated detectable quantities of arsenic (1.2 milligrams per kilogram (mg/kg)), barium (41 mg/kg), chromium (12 mg/kg), and lead (19 mg/kg). None of these levels exceed federal or state benchmarks for soil remediation (Refs. 8, 9).
7. The facility is listed in the NC Winston-Salem Regional Office's Groundwater Incident list. Groundwater Incident #12874 is described as having soil and groundwater contamination with chlorinated hydrocarbons associated with an intentional dump (Ref. 10). On October 17, 1994, a Notice of Violation (NOV) was issued by the NC Groundwater Section to Triangle Machine & Electronic Co. for the NC 2L Groundwater Standards exceedances (Ref. 11).
8. There are three residences within 200' of the site, the closest being north of the site at 116 Oak Street (Ref. 4; Fig. 1). Waterlines run along all roads in the area, including North Main Street and Oak Street (Fig. 2). All residences along Oak Street are connected to the municipal water supply.
9. The site itself slopes gently to the south, but the site occupies an area located on a topographic divide, and groundwater in deeper bedrock fractures beneath the site might flow toward, and discharge to, creeks that flow either to the north or to the southeast.
10. The nearest potable supply wells are a group of community wells, located 0.8 to 1.2 miles north-northeast of the site. A north-northwest trending perennial stream, East Belews Creek, and its tributaries, separate the site and the well locations. Inspection of topography surrounding the site indicates that two sets of bedrock fractures, a north-northwest trending set and a north trending set, are likely to exert influence on preferred groundwater flow direction in the vicinity. As segments of East Belews Creek and the evident fracture sets have a common orientation, the stream is likely to serve as an effective groundwater discharge point and a groundwater divide for the bedrock aquifer. NC Public Water Supply Section records were searched for the most recent sampling results for the eight community wells. All have been sampled within the past two years, and showed no detections of chlorinated solvents present (Ref 14). All other residences, included several mobile home parks, are connected to municipal water supply (Ref. 4).

Ms. Callihan
September 28, 2009
Page 3 of 3

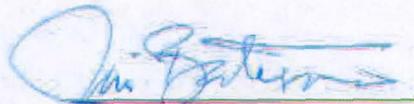
11. Overland flow for the site follows a drainage ditch along the south side of the site. Flow continues along an intermittent ditch southeast of the site for approximately 0.9 miles, before entering Reedy Fork Creek at the probable point of entry (PPE). The Wetlands Inventory Map does not indicate any wetlands along the overland flow pathway to surface water. The first HRS-qualifying wetland is located approximately 1.4 miles downstream of the PPE (Ref. 12). No surface water intakes are located anywhere along the 15-mile surface water pathway for the site (Ref. 13).

Based on these findings, it is recommended that this site not be added to CERCLIS for further study under CERCLA. This site is listed on the NC Inactive Hazardous Sites (IHS) Inventory and will be addressed under their regulatory authority. If you have any questions, please contact me at melanie.bartlett@ncmail.net or (919) 508-8480.

Sincerely,



Melanie Bartlett
Environmental Engineer
NC Superfund Section



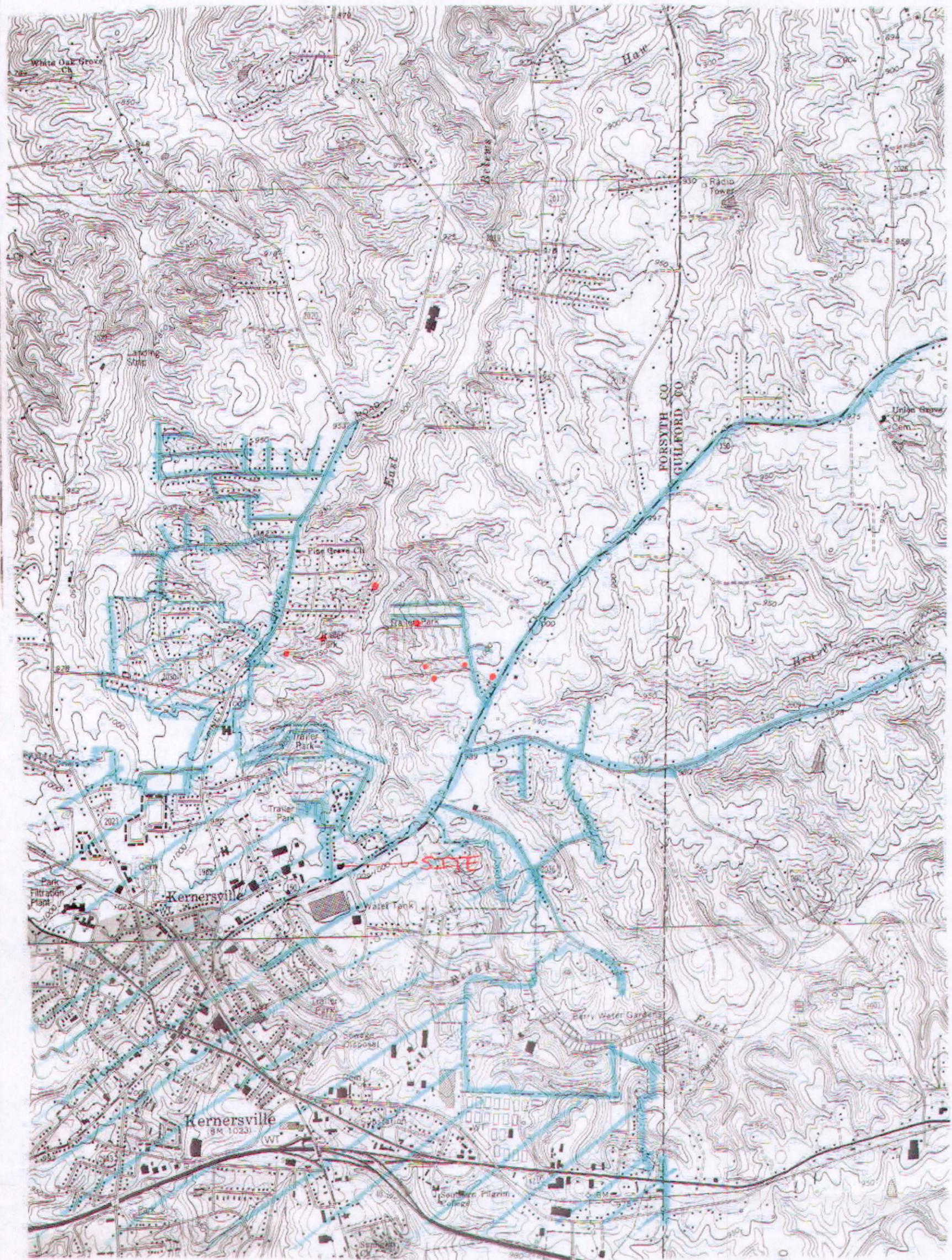
Jim Bateson, Head
Site Evaluation & Removal Branch
NC Superfund Section

Attachments

cc: File (through Jim Bateson)
Collin Day, WSRO
Charlotte Jesneck - letter only

References:

1. Site Latitude/Longitude Worksheet, February 9, 2009. 2 pages.
2. Forsyth County Tax Records, showing parcel ownership, February 12, 2009. 30 pages.
3. NC Department of the Secretary of State, Corporations Database, February 12, 2009. 11 pages.
4. Bartlett, Melanie, Memo to File, February 12, 2009. Subject: Triangle Machine & Electronics, Well Survey/Off-site reconnaissance. 7 pages.
5. NC Directory of Manufacturing Firms, summary of findings. 2 pages.
6. Allen, James M. and Stewart, John M. Report of Investigations Triangle Machine & Electronics Co, April 19, 1994. 27 pages.
7. NC Groundwater Standards, 15A NCAC 02L .0202, Effective April 1, 2005. 4 pages.
8. SCDM, January 2004. Cover page only.
9. NC IHSB Health-Based Soil Remediation Goals, October 2008. 16 pages.
10. Groundwater Incident Report #12874, October 13, 1994. 2 pages.
11. Coble, Larry D. NC Groundwater Section Notice of Violation, October 17, 1994. 4 pages.
12. Bartlett, Melanie, Memo to File, February 13, 2009. Subject: Triangle Machine & Electronics, Wetlands. 2 pages.
13. Bartlett, Melanie, Memo to File, February 10, 2009. Subject: Triangle Machine & Electronics, Community Wells/Surface Water Intakes. 1 page.
14. Bartlett, Melanie, Memo to File, March 5, 2009. Subject: Triangle Machine & Electronic Co., Somerset MHP Wells. 16 pages.



● Community Wells

— Water Lines



Site: Triangle Machine & Electronic Co

Figure 2

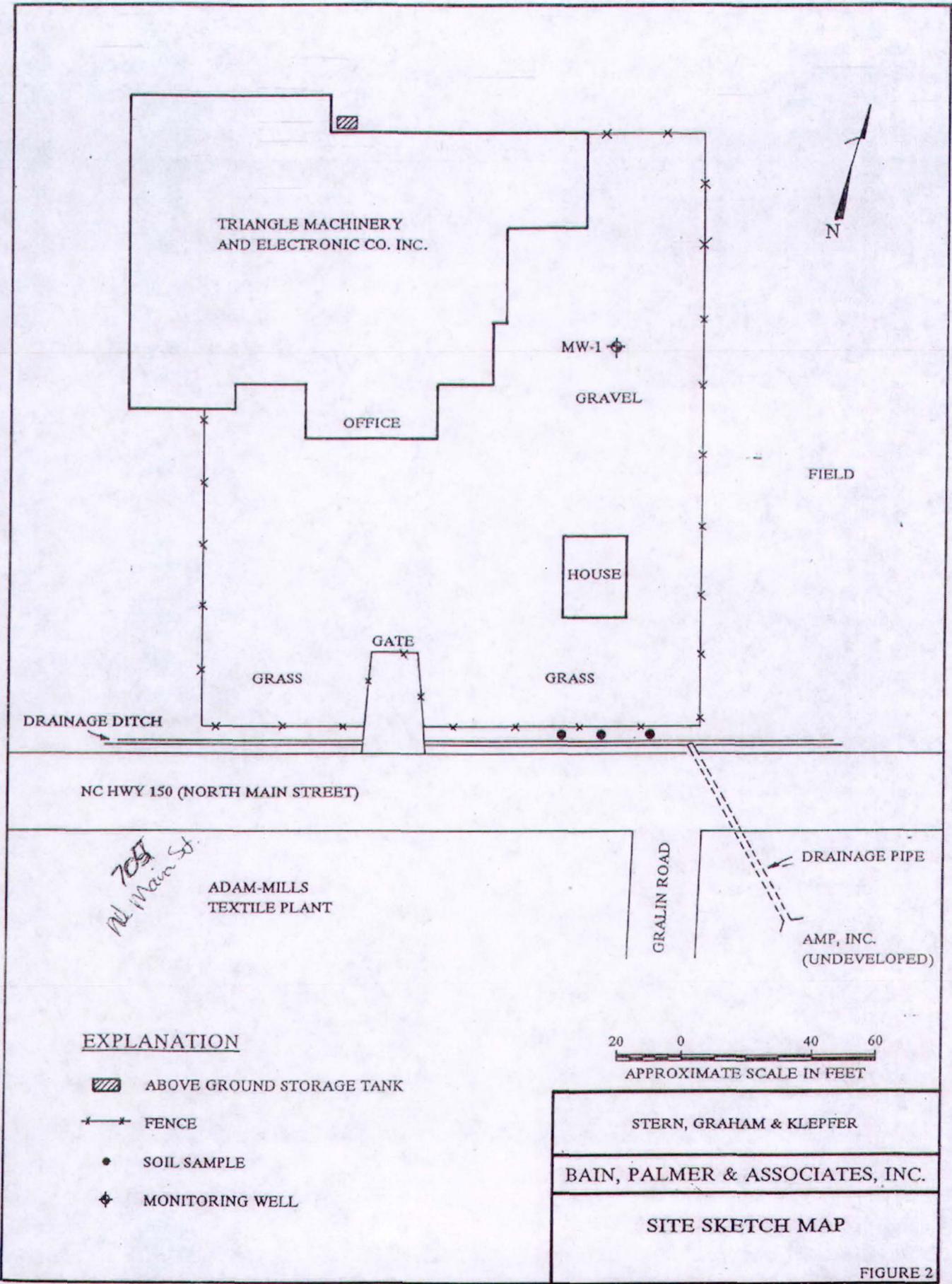
US EPA ID #: TBD

Date: 05/26/09

Kernersville, Forsyth County

Drawn By: MDB

Approximate Scale: 1:24,000

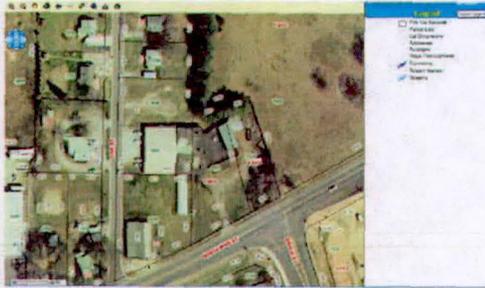


EXPLANATION

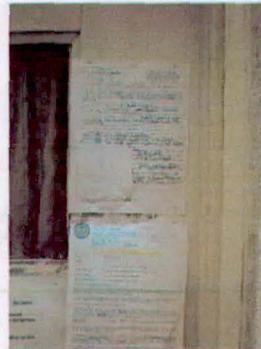
-  ABOVE GROUND STORAGE TANK
-  FENCE
-  SOIL SAMPLE
-  MONITORING WELL

20 0 40 60
 APPROXIMATE SCALE IN FEET

STERN, GRAHAM & KLEPPER
 BAIN, PALMER & ASSOCIATES, INC.
 SITE SKETCH MAP
 FIGURE 2



Photograph 1: Aerial View of Triangle Machine & Electronic Co.



Photograph 2: Condemned Building Notice On Triangle Machine & Electronic Co. Property



Photograph 3: Front View of Triangle Machine & Electronic Co.



Photograph 4: East Side View of Triangle Machine & Electronics Co.



Photograph 5: Rear View of Triangle Machine & Electronics Co.



Photograph 6: West Side View of Triangle Machine & Electronics Co.

PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

Checklist Preparer: Melanie Bartlett/Environmental Engineer 3/5/09
(Name/Title) (Date)
401 Oberlin Road, Raleigh, North Carolina 919-508-8480
(Address) (Phone)
melanie.bartlett@ncmail.net
(E-Mail Address)

Site Name: Triangle Machine & Electronic Co

Previous Names (if any): Metal Processors Inc.

Site Location: 705 North Main Street
(Street)
Kernersville North Carolina 27285
(City) (ST) (Zip)

Latitude: 36.1289⁰ **Longitude:** 80.0629⁰

Complete the following checklist. If "yes" is marked, please explain below.

	YES	NO
1. Does the site already appear in CERCLIS?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance releases have occurred, EPA approved risk assessment completed)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Please explain all "yes" answer(s), attach additional sheets if necessary: _____

Site Determination:

Enter the site into CERCLIS. Further assessment is recommended (explain below).

The site is not recommended for placement into CERCLIS (explain below).

DECISION/DISCUSSION/RATIONALE:

The Triangle Machine & Electronic Co site is located on an approximately 0.56-acre lot with one existing building. A total of five lots associated with both Triangle Machine & Electronic Co and Metal Processors Inc are located at and around the site. Combined lot size is approximately 2.23 acres, with four existing structures. The site and surrounding properties are currently owned by Triangle Machine & Electronics Co and Metal Processors Inc, both with the same registered agent, Donald L. Bullard. The site is surrounded by private residences to the north/northwest, Oak Street to the west, North Main Street to the south/southeast, and open fields to the east/northeast. The site is partially fenced and accessible to the public from the north.

Groundwater sampling on site indicated the presence of 1,1-dichloroethene (190 micrograms per liter (ug/l)), tetrachloroethene (320 ug/l), 1,1,1-trichloroethane (1,000 ug/l), and trichloroethene (110 ug/l) at levels above NC 2L Groundwater Standards. Soil sampling indicated detectable quantities of arsenic (1.2 milligrams per kilogram (mg/kg)), barium (41 mg/kg), chromium (12 mg/kg), and lead (19 mg/kg). None of these levels exceed federal or state benchmarks for soil remediation.

There are three residences within 200' of the site. Waterlines run along all roads in the area. All residences along Oak Street are connected to the municipal water supply. The nearest well, a community well, is located approximately 0.8 miles northeast of the site. A total of seven community wells are located approximately 0.8 to 1.1 miles north/northeast of the site. All other residences, included several mobile home parks, are connected to the municipal water supply.

Overland flow for the site follows an intermittent ditch for approximately 0.9 miles, before entering the probable point of entry (PPE). The Wetlands Inventory Map does not indicate any wetlands along the overland flow pathway to surface water. The first HRS-qualifying wetland is located approximately 1.4 miles downstream of the PPE. No surface water intakes are located anywhere along the 15-mile surface water pathway for the site.

The site remains on the NC Inactive Hazardous Sites (IHS) Inventory.

Regional EPA Reviewer:

Print Name/Signature

Date

State Agency/Tribe:

Print Name/Signature

Date

Melanie Bartlett / Melanie Bartlett

3/5/09

REFERENCE 1

LATITUDE AND LONGITUDE CALCULATION WORKSHEET #2

LI USING ENGINEER'S SCALE (1/60)

SITE NAME: Triangle Machine & Electronics CERCLIS #: T.B.D.
 AKA: Metal Processors Inc SSID: n.a.
 ADDRESS: 705 North Main Street
 CITY: Kernersville STATE: NC ZIP CODE: 27285

SITE REFERENCE POINT: center of building

USGS QUAD MAP NAME: Belews Creek TOWNSHIP: - N/S RANGE: - E/W

SCALE: 1 : 24,000 MAP DATE: 1994 SECTION: - 1/4 - 1/4 - 1/4

MAP DATUM 1927 1983 (CIRCLE ONE) MERIDIAN: -

COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 7.5' MAP (attach photocopy)

LONGITUDE: 80 ° 0 ' 0.00 " LATITUDE: 36 ° 7 ' 30.00 "

COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 2.5' GRID CELL:

LONGITUDE: 80 ° 2 ' 30.00 " LATITUDE: 36 ° 7 ' 30.00 "

CALCULATIONS: LATITUDE (7.5' QUADRANGLE MAP)

A) NUMBER OF RULER GRADUATIONS FROM LATITUDE GRID LINE TO SITE REF POINT: 42

B) MULTIPLY (A) BY 0.3304 TO CONVERT TO SECONDS:

A X 0.3304 = 13.88 "

C) EXPRESS IN MINUTES AND SECONDS (1' = 60") : 0 ' 13.88 "

D) ADD TO STARTING LATITUDE: 36 ° 7 ' 30.00 " + 0 ' 13.88 "

SITE LATITUDE:	36	°	7	'	43.88	"
					36.1289	°

CALCULATIONS: LONGITUDE (7.5' QUADRANGLE MAP)

A) NUMBER OF RULER GRADUATIONS FROM RIGHT LONGITUDE LINE TO SITE REF POINT: 231

B) MULTIPLY (A) BY 0.3304 TO CONVERT TO SECONDS:

A X 0.3304 = 76.32 "

C) EXPRESS IN MINUTES AND SECONDS (1' = 60") : 1 ' 16.32 "

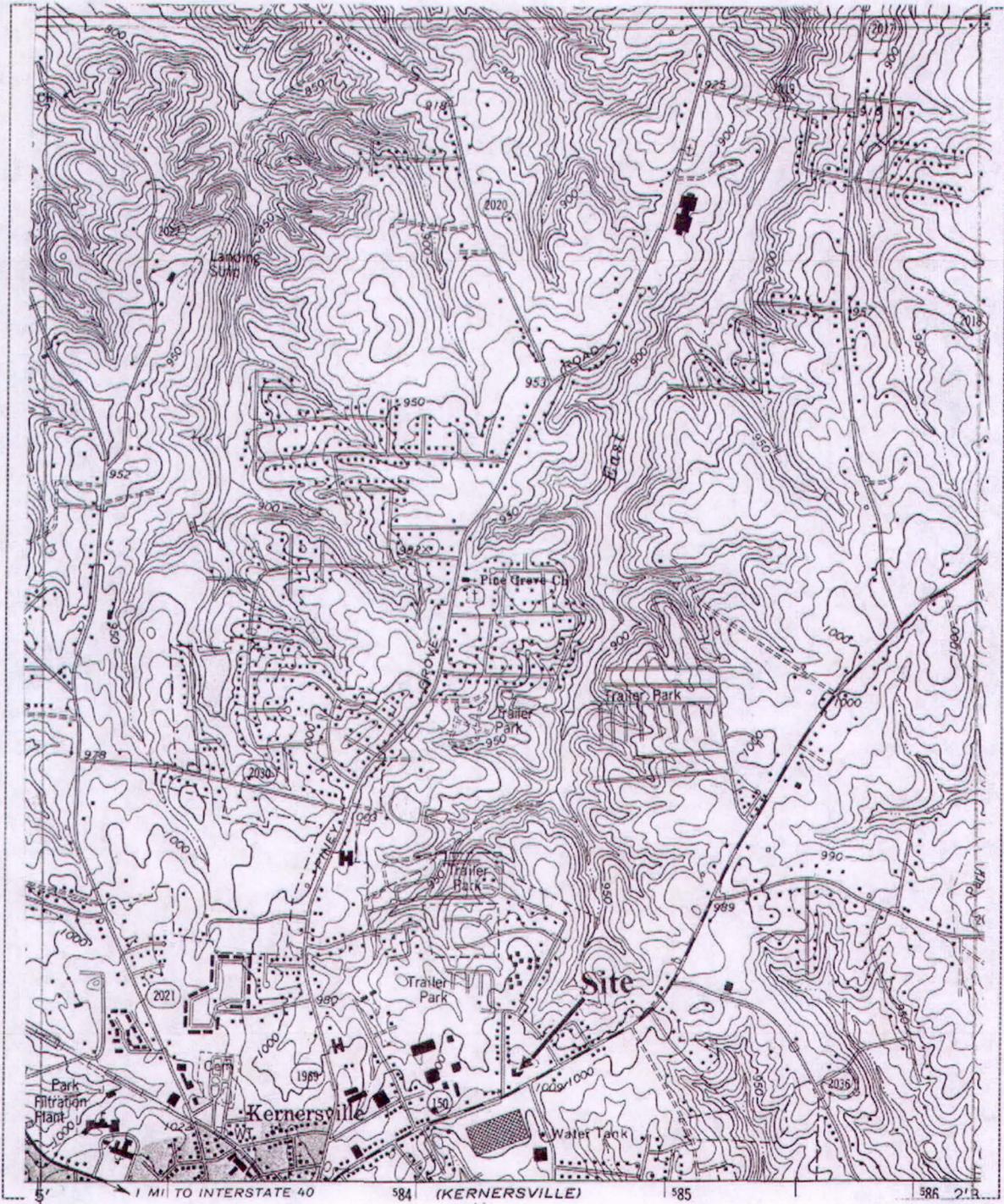
D) ADD TO STARTING LONGITUDE: 80 ° 2 ' 30.00 " + 1 ' 16.32 "

SITE LONGITUDE:	80	°	3	'	46.32	"
					80.0629	°

INVESTIGATOR: Melanie Bartlett DATE: 2/9/2009

SITE NAME: Triangle Machine & Electronics

NUMBER: T.B.D.



TOPOGRAPHIC MAP QUADRANGLE NAME: Belews Creek SCALE: 1 : 24,000

COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 2.5' GRID CELL:

LATITUDE: 36 ° 7 ' 30.00 " LONGITUDE: 80 ° 2 ' 30.00 "
36.1250 ° 80.0417 °

REFERENCE 2

		Forsyth County		Summary Appraisal Report - Commercial	
Geo-Data Explorer	Today:	2/12/2009	Bldgs:	2	January 1 Property Owner Triangle Mach & Electronic Co Property Location 703 North Main St
	Block:	5407	Lot:	004	
	PIN:	6886-67-3422.00	NF:	1.00	
	Nbrhd:	204			

Assessed Values All Cards			Current Owners												
Total Land Value:	\$107,210	Triangle Mach & Electronic Co Last 2 Recordations Available <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sale Date</th> <th>Estate</th> <th>Stamps</th> <th>Sale Price</th> <th>Book/Page</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="text-align: center;">Recorded Plat Information</td> </tr> </tbody> </table>				Sale Date	Estate	Stamps	Sale Price	Book/Page	Recorded Plat Information				
Sale Date	Estate					Stamps	Sale Price	Book/Page							
Recorded Plat Information															
Total Buildings Value:	\$21,809														
Total Misc Imp Value:	\$1,020														
Total Assessed Value(2005 reval):	\$130,000														
Mailing Address															
Triangle Mach & Electronic Co															
PO Box 508															
Kernersville, NC 27285															

Road / Topography / Utilities

Road	Topo	Util
Pub - Paved	Desirable	City Water, Gas, Sewer

Land Valuation

Type	Zoning	Acres	Sq Ft	Rate	Ut	Size	LC	RF	TO	SH	AC	EZ	Value
CL	LI		27358	2.75	1	1	1.5	1	1	0.95	1	1	\$107,210
TOTALS:		0	27358										\$107,210

Building Detail

Forsyth County considers all standard approaches to value. The assessed value on this building was determined based upon the **Cost Approach**.

Company Name		Primary Address	Occupancy	Total Gross SqFt	Net Lease SqFt	Units	
SCORPIN STEEL INC		703 North Main St	WAREH	6536	6536		
Bldg	Building Name	Physical Addr	Story	Year Built	Construction	Occupancy	Value
1		703 North Main St	1	1955	1 CB	1410-Stgwhse	\$14,385
2	Metal Stg Bldg		1	1945	1 MTL	1701-Lumb Stg	\$7,424
Total Buildings Value:						\$21,809	

Miscellaneous Improvements						The values and information provided on this property record card are based upon the best available information on 12/30/2008. This information is subject to change because of changes to the property, correction of existing information, additional information, or as the result of an appeal of the property.
Type	Const	Hgt	Area	Yr Built	Value	
Fence 6t	6'H/TR		270	1955	\$1,020	
Total Miscellaneous Value:					\$1,020	

	Forsyth County		Summary Appraisal Report - Commercial	
Geo-Data Explorer	Today: 2/12/2009	Bldgs: 2	January 1 Property Owner	
	Block: 5407	Lot: 004	Triangle Mach & Electronic Co	
	PIN: 6886-67-3422.00	NF: 1.00	Property Location:	
	Nbrhd: 204		703 North Main St	

Income Detail

Income information on this report reflects market research and not specific data from the property.

Effective Gross Income (EGI)				
Deductions	Percentage of PGI		Amount	
	Net Expenses			
Percentage of PGI	Percentage of EGI		Amount	
	Final Value			
Method Used	Net Income	PGI Percent	EGI Percent	Amount
	Valuation Factors			
Overall Rate Percent				

	Forsyth County		Detail Appraisal Report - Commercial	
Geo-Data Explorer	Today: 2/12/2009	Bldg: 1 of 2	January 1 Property Owner	
	Block: 5407	Lot: 004	Triangle Mach & Electronic Co	
	PIN: 6886-67-3422.00	NF: 1.00	Property Location	
	Nbrhd: 204		703 North Main St	

Cost Detail - Bldg 1 of 2

Total Value from Cost		Building Information	
Total Section Value:	\$96,046	Company Name: SCORPIN STEEL INC	Construction: 1 CB
Total Addition Value:	\$3,852	Building:	Total Story: 1
Local Multiplier: 0.96		Physical Address: 703 North Main St	Roof: Hip/Gable
Replacement Cost:	\$95,902	Occupancy: 1410-Stgwhse	Roof Cover:
Physical Depr: 70% (\$67,131)		Year Built: 1955	Ext Walls: Concrete Block
Econ/Func Depr: 50% (\$33,566)		Year Remod:	Insul Walls: No
Depriciated Value:	\$14,385	Condition:	Insul Ceiling: No
Misc Imp. Value:	\$1,020	Foundation: Concrete	
Total Bldg Value:	\$15,405		
Land Value:	\$107,210		
Total All Bldgs:	\$130,000		

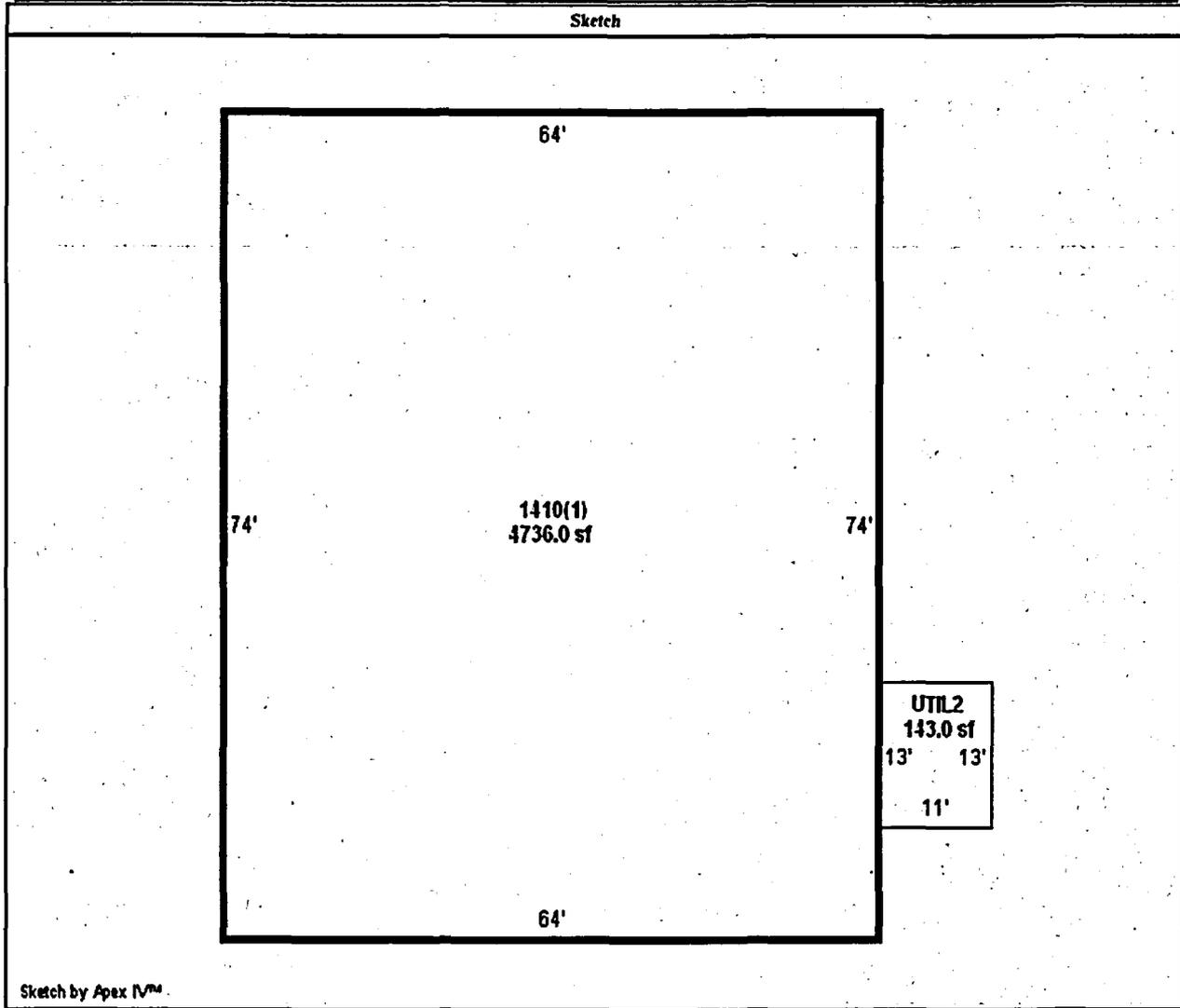
Section Detail

Section I	
Occupancy:	1410-STGWHSE
Sqft/Units:	4736
Base Cost:	17.78
Heat/AC 1:	Space Heaters 100%
Heat/AC 2:	0%
Heat Adj:	\$1.30
Adj Base:	19.08
# Stories:	1 1
Story Hgt:	12 0.959
Perimeter:	276 1.076
Cost:	1.03
Sqft Cost:	20.28
Sect Value:	\$96,046

Sketched Additions					Non-Sketched Additions				
Type	Description	Area	Rate	Value	Type	Description	Area	Rate	Value
					A C UNIT2	Air Cond Units	2	725	1450

Miscellaneous Improvements for this Bldg									
Type	Const	Area	Rate	Yr Built	Condition	Grade	Phy	EF	Value
Fence 6'/Top Rail	6H/TR	270	10.8	1955			65%		\$1,020

	Forsyth County		Detail Appraisal Report - Commercial	
Geo-Data Explorer	Today:	2/12/2009	Bldg:	1 of 2
	Block:	5407	Lot:	004
	PIN:	6886-67-3422.00	NF:	1.00
	Nbrhd:	204		
			January 1 Property Owner	
			Triangle Mach & Electronic Co	
			Property Location	
			703 North Main St	



Forsyth County		Detail Appraisal Report - Commercial	
Geo-Data Explorer	Today: 2/12/2009	Bldg: 2 of 2	January 1 Property Owner
	Block: 5407	Lot: 004	Triangle Mach & Electronic Co
	PIN: 6886-67-3422.00	NF: 1.00	Property Location
	Nbrhd: 204		703 North Main St

Cost Detail - Bldg 2 of 2

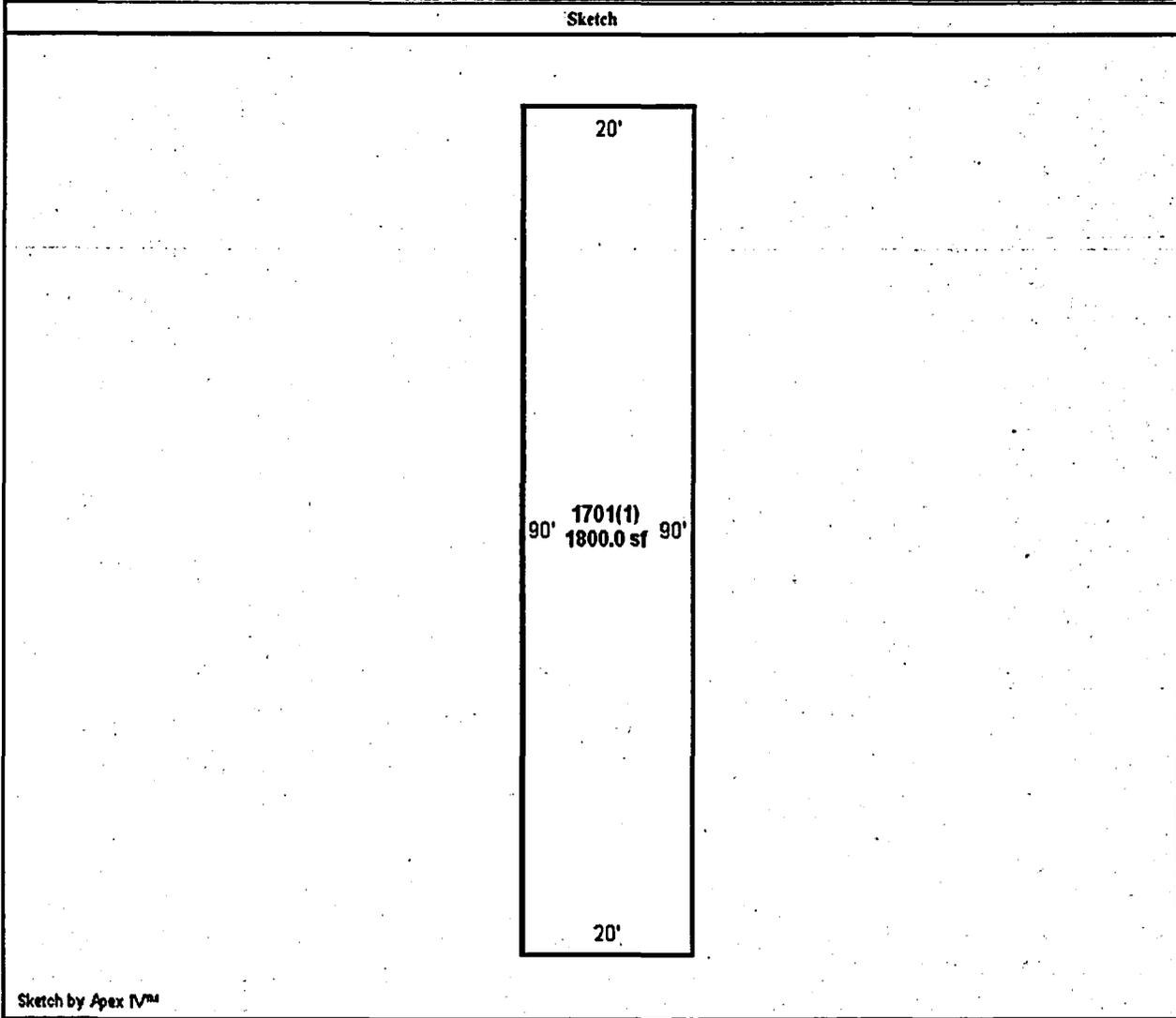
Total Value from Cost		Building Information	
Total Section Value:	\$29,772	Company Name:	SCORPIN STEEL INC Construction: 1 MTL
Total Addition Value:		Building:	Metal Stg Bldg Total Story: 1
Local Multiplier:	0.95	Physical Address:	1701-Lumb Stg Roof: Bowstring
Replacement Cost:	\$28,283	Occupancy:	1701-Lumb Stg Roof Cover: Metal
Physical Depr:	65% (\$18,384)	Year Built:	1945 Ext Walls: Metal
Econ/Func Depr:	25% (\$4,596)	Year Remod:	1982 Insul Walls: No
Depreciated Value:	\$7,424	Condition:	Average Insul Ceiling: No
Misc Imp. Value:		Foundation:	Concrete
Total Bldg Value:	\$7,424		
Land Value:	\$107,210		
Total All Bldgs:	\$130,000		

Section Detail

Section 1	
Occupancy:	1701-LUMB STG
Sqft/Units:	1800
Base Cost:	14.57
Heat/AC 1:	No Heat 100%
Heat/AC 2:	0%
Heat Adj:	
Adj Base:	14.57
# Stories:	1 1
Story Hgt:	8 0.962
Perimeter:	220 1.103
Cost:	1.07
Sqft Cost:	16.54
Sect Value:	\$29,772

Sketched Additions					Non-Sketched Additions				
Type	Description	Area	Rate	Value	Type	Description	Area	Rate	Value
Miscellaneous Improvements for this Bldg									
Type	Const	Area	Rate	Yr Built	Condition	Grade	Phy	EF	Value

	Forsyth County		Detail Appraisal Report - Commercial	
Geo-Data Explorer	Today: 2/12/2009	Bldg: 2 of 2	January 1 Property Owner	
	Block: 5407	Lot: 004	Triangle Mach & Electronic Co	
	PIN: 6886-67-3422.00	NF: 1.00	Property Location	
	Nbrhd: 204		703 North Main St	



Sketch by Apex IV™

[Close this Window](#)

Taxable Owners - PIN: 6886-67-3422.00

Last Name or Company	First Middle	Suffix	Suffix 2	Deed Date	Deed Book	Deed Page
Triangle Mach & Electronic Co				1/1/2005		

Current Owners - PIN: 6886-67-3422.00

Last Name or Company	First Middle	Suffix	Suffix 2	Deed Date	Deed Book	Deed Page
Triangle Mach & Electronic Co				1/1/2005		

Metal Processors



PIN	6886-67-4553.00	Current Deed Stamps	
Property Address	705 North Main St	Map Number	684866
Block Lot	5412 042	Assessment Method	Cost
Additional Lots		WIP	Values to be determined
Tax Jurisdiction	Kernersville	Land Value	
Anx	N	Dwelling Value	
Taxable Owner Name1	Metal Processors Inc	Commercial Value	
Taxable Owner Name2		Industrial Value	
Taxable Owner Address	PO Box 545	Misc Imp Value	
Taxable Owner City St Zip	Kernersville, NC 27284	Total Value(2005 reval)	
Taxable Deed Bk-Pg	924-455	Acreage	0.56
Taxable Deed Date	5/12/1966	Sq Ft Living Area (Res)	
Taxable Deed Stamps		Gross Sq Ft (Com)	12903
Current Owner Name1	Metal Processors Inc	Year Built (Res)	
Current Owner Name2		Year Built (Com)	1945
Current Owner Address	PO Box 545	Census Tract	31.04
Current Owner City St Zip	Kernersville, NC 27284	Zoning	LI
Current Deed Bk-Pg	924-455	Last Qualified Sale Price	
Current Deed Date	5/12/1966		

Disclaimer: Forsyth County cannot guarantee the accuracy of this information, and the County hereby disclaims all warranties, including warranties as to the accuracy of this information.

Map Scale
1 inch = 70 feet

Forsyth County		Summary Appraisal Report - Commercial	
Geo-Data Explorer	Today: 2/12/2009	Bldgs: 1	January 1 Property Owner Metal Processors Inc Property Location 705 North Main St
	Block: 5412	Lot: 042	
	PIN: 6886-67-4553.00	NF: 1.00	
	Nbrhd: 204		
Values to be determined			

Assessed Values All Cards Total Land Value: Values to be determined Total Buildings Value: Values to be determined Total Misc Imp Value: Values to be determined Total Assessed Value(2005 reval): Values to be determined		Current Owners Metal Processors Inc Last 2 Recordations Available Sale Date Estate Stamps Sale Price Book/Page Recorded Plat Information	
Mailing Address Metal Processors Inc PO Box 545 Kernersville, NC 27284			

Road / Topography / Utilities

Road	Topo	Util
Pub - Paved	Desirable	City Water, Gas, Sewer

Land Valuation

Type	Zoning	Acres	Sq Ft	Rate	Ut	Size	LC	RF	TO	SH	AC	EZ	Value
CL	LI		24341	2.75	1	1	1.5	1	1	1	1	1	
TOTALS:		0	24341										\$0

Building Detail

Forsyth County considers all standard approaches to value. The assessed value on this building was determined based upon the Cost Approach.

Company Name		Primary Address	Occupancy	Total Gross SqFt	Net Lease SqFt	Units
TRIANGLE MACHINE & ELECTRONIC		705 North Main St	MISC	12903	12903	
Bldg	Building Name	Physical Addr	Story	Year Built	Construction	Occupancy
1		705 North Main St	1	1945	1 CB	1406-Mfg Lght

Total Buildings Value:

Miscellaneous Improvements						The values and information provided on this property record card are based upon the best available information on 12/30/2008. This information is subject to change because of changes to the property, correction of existing information, additional information, or as the result of an appeal of the property.
Type	Const	Hgt	Area	Yr Built	Value	
Fence 6t	6'H/TR		252			
Total Miscellaneous Value:						

	Forsyth County	Summary Appraisal Report - Commercial
Geo-Data Explorer	Today: 2/12/2009	Bldgs: 1
	Block: 5412	Lot: 042
	PIN: 6886-67-4553.00	NF: 1.00
	Nbrhd: 204	
	Values to be determined	
	January 1 Property Owner	
	Metal Processors Inc	
	Property Location	
	705 North Main St	

Taxing Jurisdictions	Building Image				
<table border="1"> <tr> <th>Jurisdiction</th> <th>Fire District</th> </tr> <tr> <td>Kernersville 100%</td> <td>FD</td> </tr> </table>	Jurisdiction	Fire District	Kernersville 100%	FD	
Jurisdiction	Fire District				
Kernersville 100%	FD				
	5412 042 01 01/22/2007				



	Forsyth County	Summary Appraisal Report - Commercial		
Geo-Data Explorer	Today: 2/12/2009	Bldgs: 1	January 1 Property Owner	
	Block: 5412	Lot: 042	Metal Processors Inc	
	PIN: 6886-67-4553.00	NF: 1.00	Property Location	
	Nbrhd: 204		705 North Main St	
	Values to be determined			

Income Detail

Income information on this report reflects market research and not specific data from the property.

Effective Gross Income (EGI)				
Deductions	Percentage of PGI	Amount		
Net Expenses				
Percentage of PGI	Percentage of EGI	Amount		
Final Value				
Method Used	Net Income	PGI Percent	EGI Percent	Amount
Valuation Factors				
Overall Rate Percent				

	Forsyth County	Detail Appraisal Report - Commercial
Geo-Data Explorer	Today: 2/12/2009	Bldg: 1 of 1
	Block: 5412	Lot: 042
	PIN: 6886-67-4553.00	NF: 1.00
	Nbrhd: 204	
	Values to be determined	
	January 1 Property Owner	Property Location
	Metal Processors Inc	705 North Main St

Cost Detail - Bldg 1 of 1

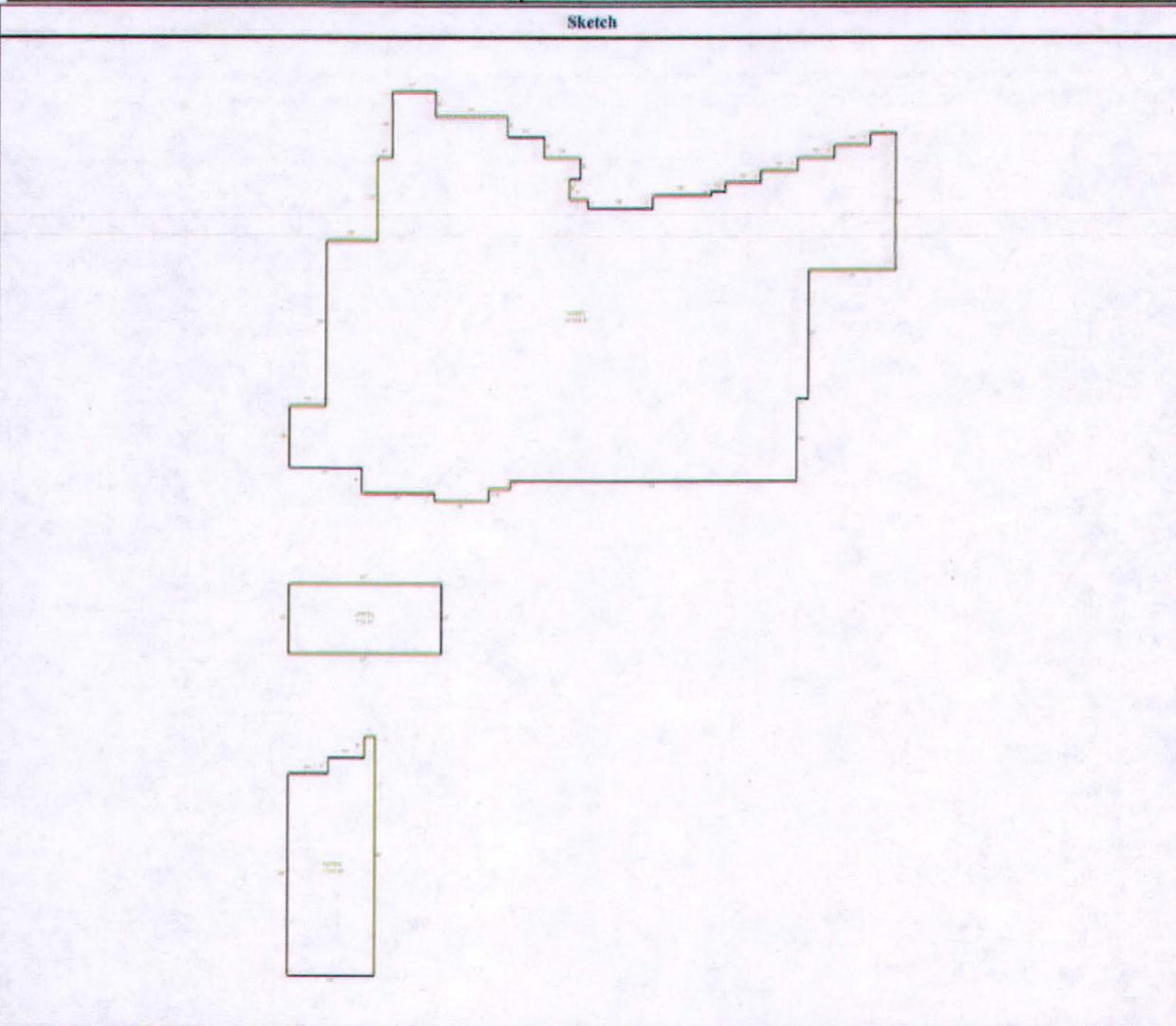
Total Value from Cost		Building Information	
Total Section Value:		Company Name: TRIANGLE MACHINE & ELECTRONIC	Construction: 1 CB
Total Addition Value:		Building:	Total Story: 1
Local Multiplier: 0.96		Physical Address: 705 North Main St	Roof: Flat
Replacement Cost:		Occupancy: 1406-Mfg Lght	Roof Cover: Built-Up
Physical Depr: 70% \$0		Year Built: 1945	Brick/Brick
Econ/Func Depr: 15% (\$41,958)		Year Remod:	Test/Concrete Block
Depreciated Value:		Condition:	Insul Walls: No
Misc Imp. Value:		Foundation: Concrete/Brick	Insul Ceiling: No
Total Bldg Value:			
Land Value:			
Total All Bldgs:			

Section Detail

Section 1	Section 2	Section 3
Occupancy: 1406-MFG LGHT	1501-OFFICE	1410-STGWHSE
Sqft/Units: 10946	714	1243
Base Cost: 21.88	53.35	17.78
Heat/AC 1: Heat Pump 100%	Forced Air 100%	Forced Air 100%
Heat/AC 2: 0%	0%	0%
Heat Adj: \$6.60	\$4.75	\$2.90
Adj Base: 28.48	58.1	20.68
# Stories: 1 1	1 1	1 1
Story Hgt: 14 1	10 0.953	8 0.885
Perimeter: 574 1.05	76 1.121	164 1.4
Cost: 1.03	1.04	1.03
Sqft Cost: 30.82	64.55	26.39
Sect Value:		

Sketched Additions					Non-Sketched Additions				
Type	Description	Area	Rate	Value	Type	Description	Area	Rate	Value
Miscellaneous Improvements for this Bldg									
Type	Const	Area	Rate	Yr Built	Condition	Grade	Phy	EF	Value
Fence 6'/Top Rail	6'H/TR	252	10.8				55%		

	Forsyth County	Detail Appraisal Report - Commercial
Geo-Data Explorer	Today: 2/12/2009	Bldg: 1 of 1
	Block: 5412	Lot: 042
	PIN: 6886-67-4553.00	NF: 1.00
	Nbrhd: 204	
	Values to be determined	
	January 1 Property Owner	
	Metal Processors Inc	
	Property Location	
	705 North Main St	



[Close this Window](#)

Taxable Owners - PIN: 6886-67-4553.00

Last Name or Company	First Middle	Suffix	Suffix 2	Deed Date	Deed Book	Deed Page
Metal Processors Inc				5/12/1966	924	455

Current Owners - PIN: 6886-67-4553.00

Last Name or Company	First Middle	Suffix	Suffix 2	Deed Date	Deed Book	Deed Page
Metal Processors Inc				5/12/1966	924	455

Metal Processors



<i>PIN</i>	6886-67-5526.00	<i>Current Deed Stamps</i>	
<i>Property Address</i>	North Main St	<i>Map Number</i>	684866
<i>Block Lot</i>	5412 043	<i>Assessment Method</i>	Cost
<i>Additional Lots</i>		<i>WIP</i>	No
<i>Tax Jurisdiction</i>	Kernersville	<i>Land Value</i>	\$50,612
<i>Anx</i>	N	<i>Dwelling Value</i>	
<i>Taxable Owner Name1</i>	Metal Processors Inc	<i>Commercial Value</i>	
<i>Taxable Owner Name2</i>		<i>Industrial Value</i>	
<i>Taxable Owner Address</i>	PO Box 545	<i>Misc Imp Value</i>	\$1,409
<i>Taxable Owner City St Zip</i>	Kernersville, NC 27284	<i>Total Value(2005 reval)</i>	\$52,000
<i>Taxable Deed Bk-Pg</i>	924-455	<i>Acreage</i>	0.33
<i>Taxable Deed Date</i>	5/12/1966	<i>Sq Ft Living Area (Res)</i>	
<i>Taxable Deed Stamps</i>		<i>Gross Sq Ft (Com)</i>	
<i>Current Owner Name1</i>	Metal Processors Inc	<i>Year Built (Res)</i>	
<i>Current Owner Name2</i>		<i>Year Built (Com)</i>	
<i>Current Owner Address</i>	PO Box 545	<i>Census Tract</i>	31.04
<i>Current Owner City St Zip</i>	Kernersville, NC 27284	<i>Zoning</i>	LI
<i>Current Deed Bk-Pg</i>	924-455	<i>Last Qualified Sale Price</i>	
<i>Current Deed Date</i>	5/12/1966		

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Map Scale
1 inch = 63 feet

	Forsyth County		Detail Appraisal Report - Land			
Geo-Data Explorer	Today:	2/12/2009	January 1 Property Owner Metal Processors Inc Property Location North Main St			
	Block:	5412			Lot:	043
	PIN:	6886-67-5526.00			NF:	1.00
	Nbrhd:	204				

Assessed Values All Cards		Current Owners	
Total Land Value:	\$50,612	Metal Processors Inc	
Total Buildings Value:			
Total Misc Imp Value:	\$1,409		
Total Assessed Value(2005 reval):	\$52,000		
Mailing Address		Last 2 Recordations Available	
Metal Processors Inc		Sale Date	Estate
PO Box 545		Stamps	Sale Price
Kernersville, NC 27284		Book/Page	
		Recorded Plat Information	

Road / Topography / Utilities

Road	Topo	Util
Pub - Paved	Desirable	City Water, Gas, Sewer

Land Valuation

Type	Zoning	Acres	Sq Ft	Rate	Ut	Size	LC	RF	TO	SH	AC	EZ	Value
CL	LI		14435	2.75	1	1	1.5	1	1	0.85	1	1	\$50,612
TOTALS:		0	14435										\$50,612

Building Detail

Forsyth County considers all standard approaches to value. The assessed value on this building was determined based upon the Cost Approach.

	Forsyth County		Detail Appraisal Report - Land			
Geo-Data Explorer	Today:	2/12/2009	January 1 Property Owner Metal Processors Inc Property Location North Main St			
	Block:	5412			Lot:	043
	PIN:	6886-67-5526.00			NF:	1.00
	Nbrhd:	204				

		Taxing Jurisdictions	
		Jurisdiction	Fire District
		Kernersville 100%	FD
		Building Image	
		Photo not available	



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Taxable Owners - PIN: 6886-67-5526.00

Last Name or Company	First Middle Suffix Suffix 2	Deed Date	Deed Book	Deed Page
Metal Processors Inc		5/12/1966	924	455

Current Owners - PIN: 6886-67-5526.00

Last Name or Company	First Middle Suffix Suffix 2	Deed Date	Deed Book	Deed Page
Metal Processors Inc		5/12/1966	924	455

Metal Processors



PIN	6886-67-3526.00	Current Deed Stamps	
Property Address	Oak St	Map Number	684866
Block Lot	5407 039	Assessment Method	Income and Expense
Additional Lots	040	WIP	No
Tax Jurisdiction	Kernersville	Land Value	\$63,938
Anx	N	Dwelling Value	
Taxable Owner Name1	Metal Processors Inc	Commercial Value	\$104,404
Taxable Owner Name2		Industrial Value	
Taxable Owner Address	PO Box 545	Misc Imp Value	
Taxable Owner City St Zip	Kernersville, NC 27284	Total Value(2005 reval)	\$156,000
Taxable Deed Bk-Pg	-	Acreage	0.36
Taxable Deed Date		Sq Ft Living Area (Res)	
Taxable Deed Stamps		Gross Sq Ft (Com)	6175
Current Owner Name1	Metal Processors Inc	Year Built (Res)	
Current Owner Name2		Year Built (Com)	1981
Current Owner Address	PO Box 545	Census Tract	31.04
Current Owner City St Zip	Kernersville, NC 27284	Zoning	LI
Current Deed Bk-Pg	-	Last Qualified Sale Price	
Current Deed Date			

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Map Scale
1 inch = 50 feet

Forsyth County				Summary Appraisal Report - Commercial			
Geo-Data Explorer	Today:	2/12/2009	Bldgs:	1	January 1 Property Owner		
	Block:	5407	Lot:	039	Metal Processors Inc		
	PIN:	6886-67-3526.00	NF:	1.00	Property Location		
	Nbrhd:	204	Oak St				

Assessed Values All Cards				Current Owners				
Total Land Value:		\$63,938	Metal Processors Inc					
Total Buildings Value:		\$104,404						
Total Misc Imp Value:								
Total Assessed Value(2005 reval):		\$156,000						
Mailing Address				Last 2 Recordations Available				
Metal Processors Inc				Sale Date	Estate	Stamps	Sale Price	Book/Page
PO Box 545				Recorded Plat Information				
Kernersville, NC 27284								

Road / Topography / Utilities

Road	Topo	Util
Pub - Paved	Desirable	

Land Valuation

Type	Zoning	Acres	Sq Ft	Rate	Ut	Size	LC	RF	TO	SH	AC	EZ	Value
CL	LI		15500	2.75	1	1	1.5	1	1	1	1	1	\$63,938
TOTALS:		0	15500										\$63,938

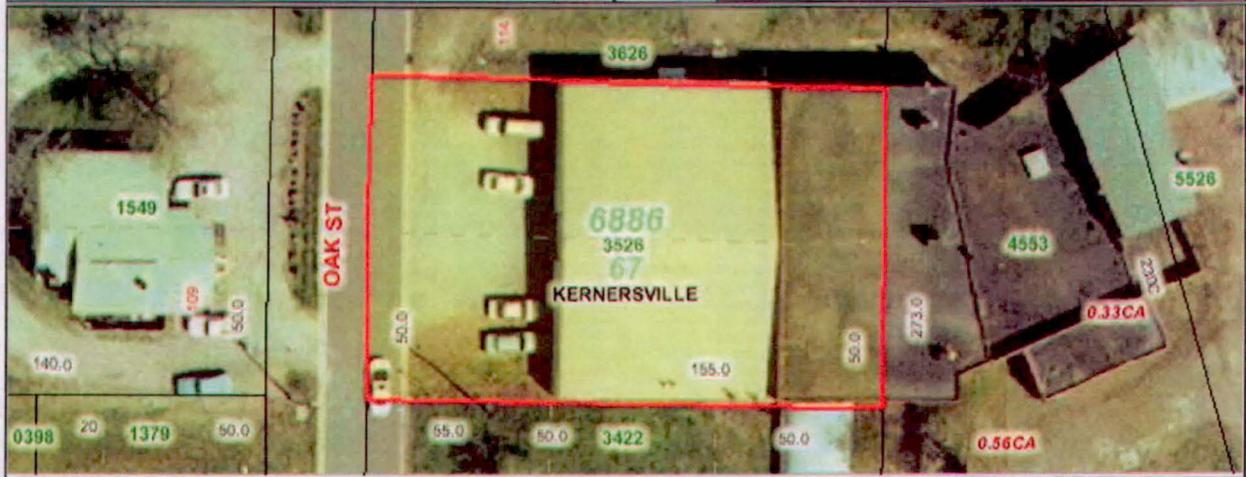
Building Detail

Forsyth County considers all standard approaches to value. The assessed value on this building was determined based upon the **Income & Expense Approach**.

Company Name		Primary Address		Occupancy		Total Gross SqFt		Net Lease SqFt		Units
		Oak St		WAREH		6175		6175		
Bldg	Building Name	Physical Addr	Story	Year Built	Construction	Occupancy		Value		
1		Oak St	1	1981	1 MTL	1410-Stgwhse		\$104,404		
Total Buildings Value:										\$104,404

Miscellaneous Improvements							The values and information provided on this property record card are based upon the best available information on 12/30/2008. This information is subject to change because of changes to the property, correction of existing information, additional information, or as the result of an appeal of the property.
Type	Const	Hgt	Area	Yr Built	Value		
Total Miscellaneous Value:							

	Forsyth County		Summary Appraisal Report - Commercial	
Geo-Data Explorer	Today:	2/12/2009	Bldgs:	1
	Block:	.5407	Lot:	039
	PIN:	6886-67-3526.00	NF:	1.00
	Nbrhd:	204		
			January 1 Property Owner	
			Metal Processors Inc	
			Property Location	
			Oak St	
Taxing Jurisdictions			Building Image	
Jurisdiction		Fire District		
Kernersville 100%		FD		
			5407 039 01 01/22/2007	



Forsyth County		Summary Appraisal Report - Commercial	
Geo-Data Explorer	Today: 2/12/2009	Bldgs: 1	January 1 Property Owner
	Block: 5407	Lot: 039	Metal Processors Inc
	PIN: 6886-67-3526.00	NF: 1.00	Property Location
	Nbrhd: 204		Oak St

Income Detail

Income information on this report reflects market research and not specific data from the property.

Potential Gross Income (PGI)				
Unit Description	# of Units	Annual Income/Unit	Gross Income/Unit	
Warehouse	6175	3.25	\$20,068	
Total Gross Income All Units:			\$20,068	
Miscellaneous Income (All Areas):				
Potential Gross Income:			\$20,068	
Effective Gross Income (EGI)				
Deductions	Percentage of PGI	Amount		
Vacancy/Collection Loss	5	\$1,003		
Potential Gross Income:			\$20,068	
Deductions Total:			\$1,003	
Effective Gross Income:			95% \$19,065	
Net Expenses				
Percentage of PGI	Percentage of EGI	Amount		
9.5	10	\$1,907		
Final Value				
Method Used	Net Income	PGI Percent	EGI Percent	Amount
Overall Rate		90.5	90	\$17,158
Valuation Factors				
Overall Rate Percent				
0.11				
Total Values				
Total Value from Income:			\$155,982	
Other Land:				
Furniture/Fixtures/Equipment:				
Total Assessed Value(2005 reval):			\$155,982	

	Forsyth County		Detail Appraisal Report - Commercial	
Geo-Data Explorer	Today: 2/12/2009	Bldg: 1 of 1	January 1 Property Owner	
	Block: 5407	Lot: 039	Metal Processors Inc	
	PIN: 6886-67-3526.00	NF: 1.00	Property Location	
	Nbrhd: 204		Oak St	

Cost Detail - Bldg 1 of 1

Total Value from Cost		Building Information	
Total Section Value:	\$146,533	Company Name:	Construction: 1 MTL
Total Addition Value:		Building:	Total Story: 1
Local Multiplier: 0.95		Physical Address: Oak St	Roof: Gable
Replacement Cost:	\$139,206	Occupancy: 1410-Stgwhse	Roof Cover: Metal
Physical Depr: 25% (\$34,802)		Year Built: 1981	Ext Walls: Metal
Econ/Func Depr: 0% \$0		Year Remod:	Insul Walls: Yes
Depriciated Value:	\$104,404	Condition:	Insul Ceiling: Yes
Misc Imp. Value:		Foundation: Concrete	
Total Bldg Value:	\$104,404		
Land Value:	\$63,938		
Total All Bldgs:	\$156,000		

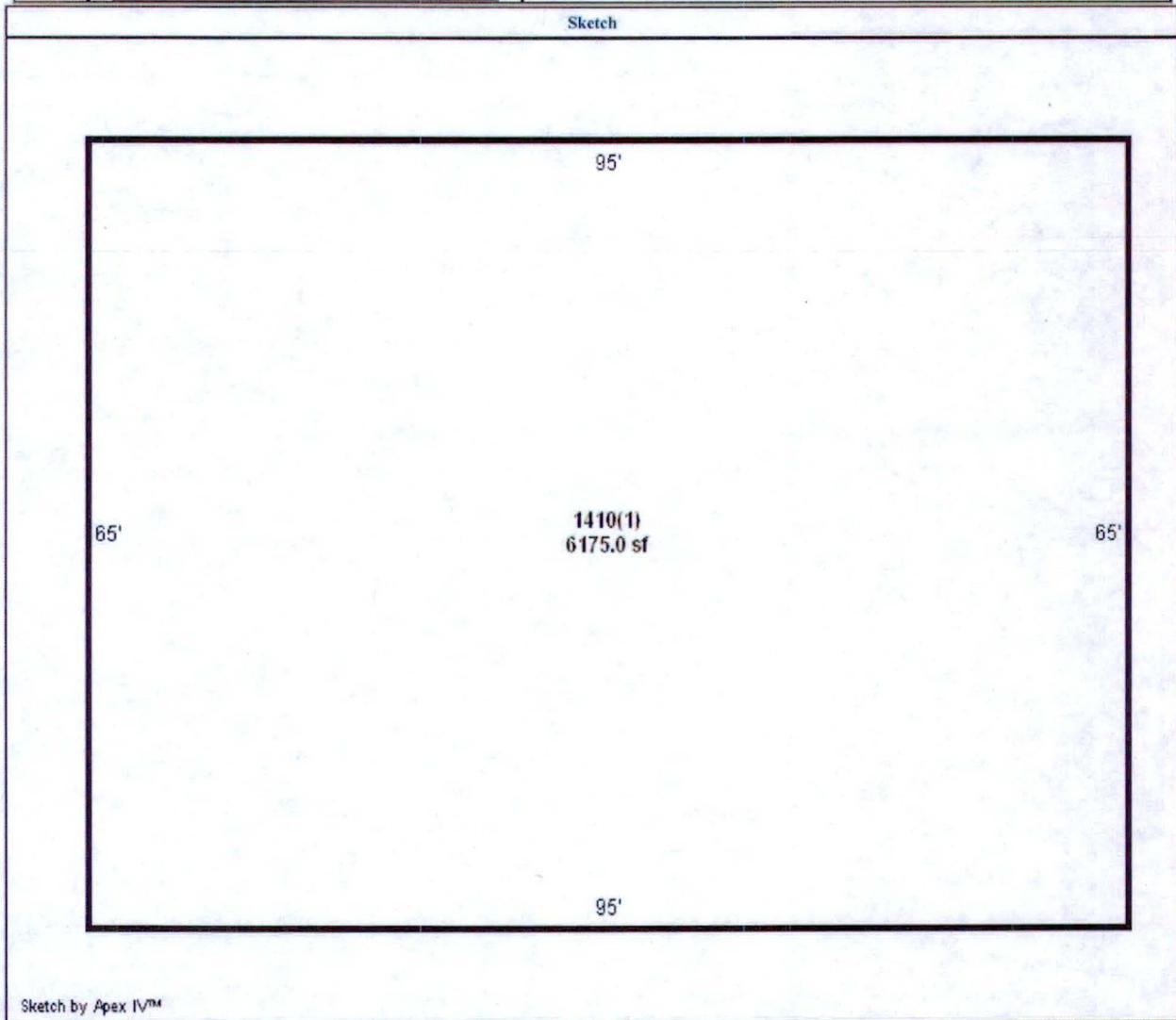
Section Detail

Section 1	
Occupancy:	1410-STGWHSE
Sqft/Units:	6175
Base Cost:	22.62
Heat/AC 1:	Space Heaters 100%
Heat/AC 2:	0%
Heat Adj:	\$1.30
Adj Base:	23.92
# Stories:	1 1
Story Hgt:	12 0.959
Perimeter:	287 1.024
Cost:	1.01
Sqft Cost:	23.73
Sect Value:	\$146,533

Sketched Additions					Non-Sketched Additions				
Type	Description	Area	Rate	Value	Type	Description	Area	Rate	Value

Miscellaneous Improvements for this Bldg									
Type	Const	Area	Rate	Yr Built	Condition	Grade	Phy	EF	Value

	Forsyth County		Detail Appraisal Report - Commercial	
Geo-Data Explorer	Today: 2/12/2009	Bldg: 1 of 1	January 1 Property Owner	
	Block: 5407	Lot: 039	Metal Processors Inc	
	PIN: 6886-67-3526.00	NF: 1.00	Property Location	
	Nbrhd: 204		Oak St	



[Close this Window](#)

Taxable Owners - PIN: 6886-67-3526.00

Last Name or Company	First	Middle	Suffix	Suffix 2	Deed Date	Deed Book	Deed Page
Metal Processors Inc					1/1/2005		

Current Owners - PIN: 6886-67-3526.00

Last Name or Company	First	Middle	Suffix	Suffix 2	Deed Date	Deed Book	Deed Page
Metal Processors Inc					1/1/2005		

Triangle Machine and Electronics



<i>PIN</i>	6886-67-3626.00	<i>Current Deed Stamps</i>	
<i>Property Address</i>	114 Oak St	<i>Map Number</i>	684866
<i>Block Lot</i>	5407 037	<i>Assessment Method</i>	Cost
<i>Additional Lots</i>	038	<i>WIP</i>	No
<i>Tax Jurisdiction</i>	Kernersville	<i>Land Value</i>	\$57,544
<i>Anx</i>	N	<i>Dwelling Value</i>	
<i>Taxable Owner Name1</i>	Triangle Mach & Electronic Co	<i>Commercial Value</i>	
<i>Taxable Owner Name2</i>		<i>Industrial Value</i>	
<i>Taxable Owner Address</i>	PO Box 508	<i>Misc Imp Value</i>	
<i>Taxable Owner City St Zip</i>	Kernersville, NC 27285	<i>Total Value(2005 reval)</i>	\$57,500
<i>Taxable Deed Bk-Pg</i>	-	<i>Acreage</i>	0.36
<i>Taxable Deed Date</i>		<i>Sq Ft Living Area (Res)</i>	
<i>Taxable Deed Stamps</i>		<i>Gross Sq Ft (Com)</i>	
<i>Current Owner Name1</i>	Triangle Mach & Electronic Co	<i>Year Built (Res)</i>	
<i>Current Owner Name2</i>		<i>Year Built (Com)</i>	
<i>Current Owner Address</i>	PO Box 508	<i>Census Tract</i>	31.04
<i>Current Owner City St Zip</i>	Kernersville, NC 27285	<i>Zoning</i>	LI
<i>Current Deed Bk-Pg</i>	-	<i>Last Qualified Sale Price</i>	
<i>Current Deed Date</i>			

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Map Scale
1 inch = 50 feet

Forsyth County		Detail Appraisal Report - Land	
Geo-Data Explorer	Today: 2/12/2009	January 1 Property Owner	
	Block: 5407 Lot: 037	Triangle Mach & Electronic Co	
	PIN: 6886-67-3626.00 NF: 1.00	Property Location	
	Nbrhd: 204	114 Oak St	

Assessed Values All Cards		Current Owners				
Total Land Value:	\$57,544	Triangle Mach & Electronic Co				
Total Buildings Value:		Last 2 Recordations Available				
Total Misc Imp Value:		Sale Date	Estate	Stamps	Sale Price	Book/Page
Total Assessed Value(2005 reval):	\$57,500	Recorded Plat Information				
Mailing Address						
Triangle Mach & Electronic Co						
PO Box 508						
Kernersville, NC 27285						

Road / Topography / Utilities

Road	Topo	Util
Pub - Paved	Desirable	City Water, Septic

Land Valuation													
Type	Zoning	Acres	Sq Ft	Rate	Ut	Size	LC	RE	TO	SH	AC	EZ	Value
CL	LI		15500	2.75	0.9	1	1.5	1	1	1	1	1	\$57,544
TOTALS:		0	15500										\$57,544

Building Detail

Forsyth County considers all standard approaches to value. The assessed value on this building was determined based upon the **Cost Approach**.

	Forsyth County		Detail Appraisal Report - Land			
Geo-Data Explorer	Today:	2/12/2009	January 1 Property Owner Triangle Mach & Electronic Co Property Location 114 Oak St			
	Block:	5407			Lot:	037
	PIN:	6886-67-3626.00			NF:	1.00
	Nbrhd:	204				

		Taxing Jurisdictions	
		Jurisdiction	Fire District
		Kernersville 100%	FD
		Building Image	
		Photo not available	



[Close this Window](#)

Taxable Owners - PIN: 6886-67-3626.00

Last Name or Company	First Middle	Suffix	Suffix 2	Deed Date	Deed Book	Deed Page
Triangle Mach & Electronic Co				1/1/2005		

Current Owners - PIN: 6886-67-3626.00

Last Name or Company	First Middle	Suffix	Suffix 2	Deed Date	Deed Book	Deed Page
Triangle Mach & Electronic Co				1/1/2005		

REFERENCE 3



Elaine F. Marshall
Secretary

North Carolina

DEPARTMENT OF THE SECRETARY OF STATE

PO Box 29622 Raleigh, NC 27626-0622 (919)807-2000

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AgentName **DONALD L BALLARD**

Businesses that DONALD L BALLARD Represents ...

Entity Name	Type	Status	Formed
Metal Processors, Inc.	BUS	Current-Active	11/29/1954
Triangle Machine & Electronic Co.	BUS	Current-Active	2/12/1964

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- [1999 Senate Bills](#)
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Elaine F. Marshall
Secretary

North Carolina

DEPARTMENT OF THE SECRETARY OF STATE

PO Box 29622 Raleigh, NC 27626-0622 (919)807-2000

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Date: 2/12/2009

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Corporation Names

Name	Name Type
NC Metal Processors, Inc.	Legal

Business Corporation Information

SOSID:	0094434
Status:	Current-Active
Date Formed:	11/29/1954
Citizenship:	Domestic
State of Inc.:	NC
Duration:	Perpetual

Registered Agent

Agent Name:	Ballard, Donald L
Registered Office Address:	1010 W. Mountain St Kernersville NC 27284
Registered Mailing Address:	1010 W. Mountain St Kernersville NC 27284
Principal Office Address:	1010 West Mountain Street Kernersville NC 27284
Principal Mailing Address:	PO Box 545 Kernersville NC 27285-0545



Elaine F. Marshall
Secretary

North Carolina

DEPARTMENT OF THE SECRETARY OF STATE

PO Box 29622 Raleigh, NC 27626-0622 (919)807-2000

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Corporate Filings For: Metal Processors, Inc.

Image	Date	Document Id	Document
	11/29/1954	000073446	INC - Articles of Incorporation
	4/22/1983	000316724	AMND - Articles of Amendment
	4/29/1983	000317158	CROA - Change of Address of Registered Office/Agent
	12/1/1989	000468000	SUSP - Revenue Suspension
	12/1/1989	000468000	RNST - Reinstatement Following Revenue Suspension
	6/27/1990	000482233	AMND - Articles of Amendment
	1/31/1992	920310270	ANRT - Annual Report
	1/27/1993	930270211	ANRT - Annual Report
	2/11/1994	940420006	ANRT - Annual Report
	2/3/1995	950340603	ANRT - Annual Report
	2/13/1996	960440217	ANRT - Annual Report

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	2/13/1997	970440566	ANRT - Annual Report
	2/4/1998	980351084	ANRT - Annual Report
	2/5/1999	990361157	ANRT - Annual Report
	11/15/1999	1999 319 24637	ANRT - Annual Report
	2/12/2001	2001 043 23334	ANRT - Annual Report
	1/28/2002	2002 028 00647	ANRT - Annual Report
	10/1/2003	2003 069 02887	ANRT - Annual Report
	1/19/2004	2004 019 01180	ANRT - Annual Report
	3/28/2005	2005 087 02135	ANRT - Annual Report
	5/1/2006	2006 121 06908	ANRT - Annual Report
	12/15/2008	2008 366 00835	ANRT - Annual Report

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CD-479 (50)
10-19-06

Business Corporation North Carolina Annual Report

SOSID: 0094434
Date Filed: 12/15/2008 2:02:00 PM
Elaine F. Marshall
North Carolina Secretary of State
2008 366 00835

This report may be filed online at the Secretary of State website: www.sos.nc.gov

Name of Business Corporation: METAL PROCESSORS, INC.

Fiscal Year Ending: 07/31/07

Month/Day/Year

State of Incorporation: NORTH CAROLINA

Secretary of State ID Number: 0094434

I hereby certify that the information requested below (required by NCGS 55-16-22) has not changed since the most recently filed annual report and is therefore complete.

Nature of Business: METAL FABRICATION

Registered Agent: DONALD L BALLARD

Registered Office Mailing Address: 1010 W. MOUNTAIN STREET

County: FORSYTH City: KERNERSVILLE State: NC Zip Code: 27284

Registered Office Street Address: 1010 W. MOUNTAIN STREET

County: FORSYTH City: KERNERSVILLE State: NC Zip Code: 27284

Signature of New Registered Agent:

(signature constitutes consent to the appointment)

Principal Office Telephone Number: (336) 993-2182

Principal Office Mailing Address: P.O. BOX 545

City: KERNERSVILLE State: NC Zip Code: 27284

Principal Office Street Address: P.O. BOX 545

City: KERNERSVILLE State: NC Zip Code: 27284

Name, Title, and Business Address of Principal Officers:

Name: DONALD L BALLARD	Title: PRESIDENT
Address: 1010 W. MOUNTAIN STREET	
City: KERNERSVILLE	State: NC ZIP: 27284

Name: MILDRED BALLARD	Title: VICE PRESIDENT
Address: 1010 W. MOUNTAIN STREET	
City: KERNERSVILLE	State: NC ZIP: 27284

Name: NAN B KOLLAR	Title: SECRETARY
Address: 1010 W. MOUNTAIN STREET	
City: KERNERSVILLE	State: NC ZIP: 27284

Certification of annual report (Must be completed by all Business Corporations).

Donald L. Ballard Pres
Signature (Form must be signed by an officer of corporation)

Dec 2 2008
Date

Donald L. Ballard

Type or Print Name

President

Title

Attachment for Additional
Principal Officers

Place this form directly
behind Form CD-479

Name of Corporation: METAL PROCESSORS, INC.

FEIN: Privacy Redaction

Name: DONALD L BALLARD Title: TREASURER
Address: 1010 W. MOUNTAIN STREET
City: KERNERSVILLE State: NC Zip: 27284

Name: _____ Title: _____
Address: _____
City: _____ State: _____ Zip: _____

Name: _____ Title: _____
Address: _____
City: _____ State: _____ Zip: _____

Name: _____ Title: _____
Address: _____
City: _____ State: _____ Zip: _____

Name: _____ Title: _____
Address: _____
City: _____ State: _____ Zip: _____

Name: _____ Title: _____
Address: _____
City: _____ State: _____ Zip: _____

Name: _____ Title: _____
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Name: _____ Title: _____
Address: _____
City: _____ State: _____ Zip: _____

Name: _____ Title: _____
Address: _____
City: _____ State: _____ Zip: _____

Name: _____ Title: _____
Address: _____
City: _____ State: _____ Zip: _____



Elaine F. Marshall
Secretary

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Corporation Names

Name	Name Type
NC Triangle Machine & Electronic Co.	Legal

Business Corporation Information

SOSID:	0151144
Status:	Current-Active
Date Formed:	2/12/1964
Citizenship:	Domestic
State of Inc.:	NC
Duration:	Perpetual

Registered Agent

Agent Name:	Ballard, Donald L
Registered Office Address:	1010 W. Mountain St Kernersville NC 27284
Registered Mailing Address:	1010 W. Mountain St Kernersville NC 27284
Principal Office Address:	1010 W. Mountain St Kernersville NC 27284
Principal Mailing Address:	PO Box 508 Kernersville NC 27285-0508

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Stock

Class	Shares	No Par Value	Par Value
COMMON	20000		10



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Corporate Filings For: Triangle Machine & Electronic Co.

Image	Date	Document Id	Document
	2/12/1964	000110010	INC - Articles of Incorporation
	4/22/1983	000316730	CROA - Change of Address of Registered Office/Agent
	5/20/1991	911400132	ANRT - Annual Report
	6/5/1992	921570020	ANRT - Annual Report
	5/17/1993	931370158	ANRT - Annual Report
	5/24/1994	941440024	ANRT - Annual Report
	12/1/1994	943345024	SUSP - Revenue Suspension
	2/1/1995	950245062	RNST - Reinstatement Following Revenue Suspension
	5/31/1995	951510160	ANRT - Annual Report
	5/7/1996	961280669	ANRT - Annual Report
	5/27/1997	971470283	ANRT - Annual Report
	1/15/1999	990151641	ANRT - Annual Report

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	11/19/1999	1999 323 27631	ANRT - Annual Report
	7/27/2001	2001 208 26050	ANRT - Annual Report
	5/5/2003	2003 125 02264	ANRT - Annual Report
	6/15/2004	2004 019 00883	ANRT - Annual Report

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SOSID: 0151144
Date Filed: 6/15/2004 11:28:00 AM
Elaine F. Marshall
North Carolina Secretary of State
2004 019 00883

CD-479 (40) **Business Corporation
North Carolina Annual Report**
7-01

Use this form only
Contact the N.C.
Annual Report for
Liability Partnersh

Name of Corporation: **TRIANGLE MACHINE AND ELECTRONI**

State of Incorporation: **NORTH CAROLINA**

Secretary of State Corp. ID Number: **0151144**

Fiscal Year Ending: **07 31 03**
Month / Day / Year

Federal Employer ID Number: **[REDACTED]**

If this is the initial annual report filing, you must complete the entire form. If your business corporation's information has not changed since the previous report, check the box and complete Line 8 only. →

1. Registered agent & registered office mailing address Agent:

Mailing Address:

2. Street address & county of registered office Street Address:

County:

3. If registered agent changed, signature of new agent: _____
(signature constitutes consent to the appointment)

4. Enter principal office address here:

5. Enter principal office telephone number here: **336 993 2125**

6. Enter name, title, and business address of principal officers here:
Complete Form CD-479A to list additional principal officers

Name:	Title:
Address:	
City:	State: Zip:

Name:	Title:
Address:	
City:	State: Zip:

Name:	Title:
Address:	
City:	State: Zip:

7. Briefly describe the nature of business:

8. Certification of annual report must be completed by all corporations

Donald L. Ballard
Signature (Form must be signed by an officer of corporation)

12/08/2003
Date

DONALD L. BALLARD

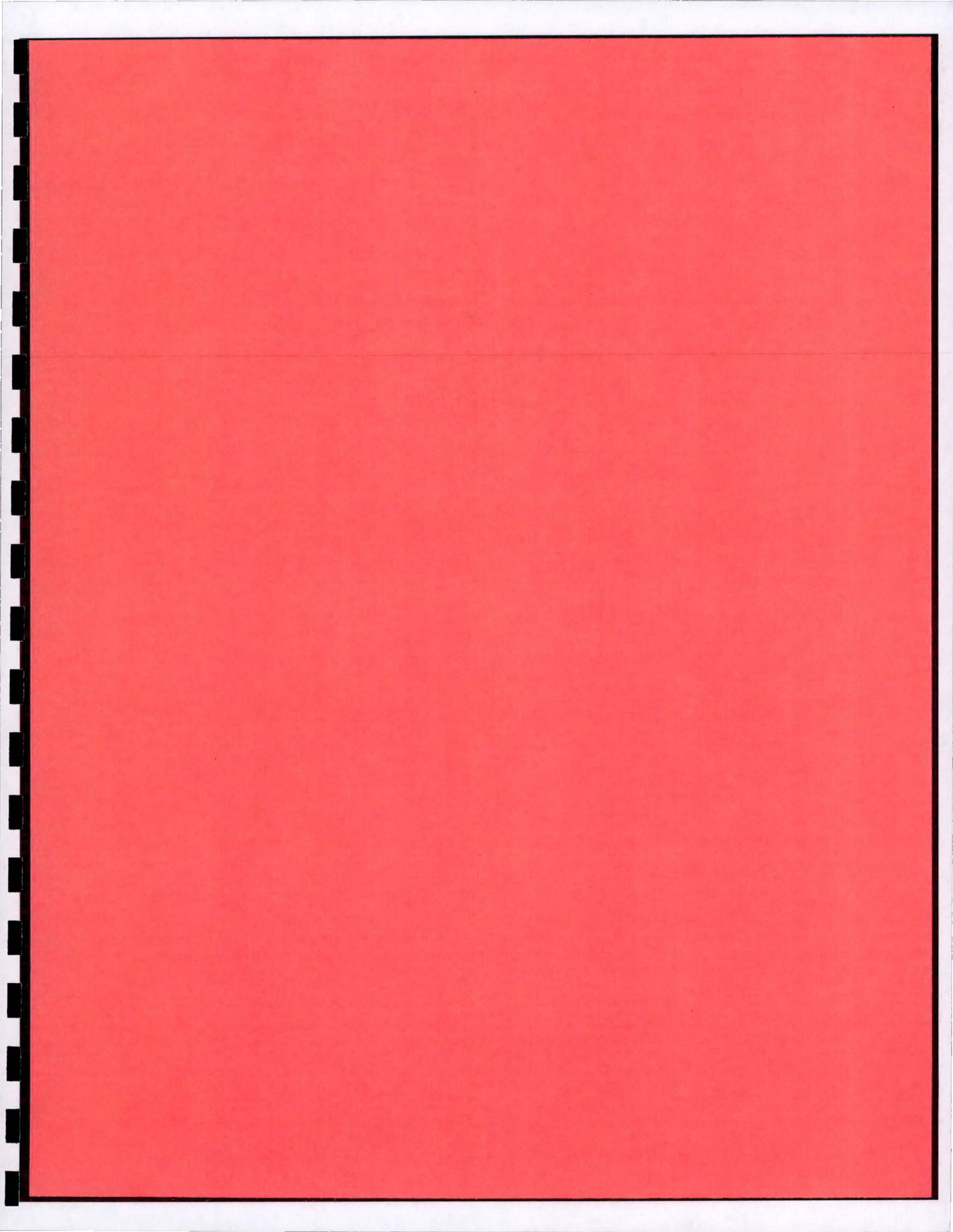
PRESIDENT

203835 1.000

7PA0.



REFERENCE 4



February 12, 2009

MEMO

To: File

From: Melanie Bartlett

Melanie Bartlett

Subject: Triangle Machine & Electronics
Kernersville, Forsyth County, NC
Well Survey/Off-site reconnaissance

On Wednesday, February 11, 2009, Melanie Bartlett and Harry Zinn of the NC Superfund Section conducted a well survey and off-site reconnaissance of the areas surrounding the above-mentioned site. Based on community well information provided on the NC Source Water Assessment Program website (http://swap.deh.enr.state.nc.us/Swap_app/viewer.htm) and water line information available with the Forsyth County website (<http://www.cityofws.org/Home/GIS/Articles/GISDataSetsForDownload> and http://maps2.co.forsyth.nc.us/geodata_08/), the well survey focused on areas primarily north and northeast of the site.

Oak Street, which runs adjacent to the property to the west and northwest was surveyed first. All homes along the entire length of the street are served by city/county water as indicated by the presence of water meters in each of the yards. Water lines and meters were also present along Bost Street, located north and northwest of the site.

Two trailer parks are located within one-half mile of the site. Interviews with residents of each of the trailer parks indicated that they are both served by city/county water. No community well was observed in either park.

Six additional trailer parks/residential communities were located within one mile of the site. Of these six communities, four are supplied water via community wells. The other two have connected to city/county water. The nearest well to the site is located approximately 0.8 miles northeast of the site in the Sommerset Community Trailer Park. An additional six community wells, including two more in the Sommerset Community Trailer Park, are located between 0.85 miles and 1.1 miles north/northeast of the site. All other residences within one mile of the site to north and northeast are supplied water via the city/county water system.

The site is partially fenced, with access to some outlying buildings available to the public. A small, white building at the intersection of Oak Street and North Main Street has been condemned by Forsyth County. The nearest residence is located immediately to the north of the site, on an adjacent property at 116 Oak Street.

CURVE FORMULAS

$$\begin{array}{l}
 T = R \tan \frac{1}{2} I \\
 T = \frac{50 \tan \frac{1}{2} I}{\text{Sin. } \frac{1}{2} D} \\
 \text{Sin. } \frac{1}{2} D = \frac{50}{R} \\
 \text{Sin. } \frac{1}{2} D = \frac{50 \tan \frac{1}{2} I}{T}
 \end{array}
 \quad
 \begin{array}{l}
 R = T \cot. \frac{1}{2} I \\
 R = \frac{50}{\text{Sin. } \frac{1}{2} D} \\
 E = R \text{ ex. sec } \frac{1}{2} I \\
 E = T \tan \frac{1}{2} I
 \end{array}
 \quad
 \begin{array}{l}
 \text{Chord def.} = \frac{\text{chord}^2}{R} \\
 \text{No. chords} = \frac{I}{D} \\
 \text{Tan. def.} = \frac{1}{2} \text{ chord def.}
 \end{array}$$

The square of any distance, divided by twice the radius, will equal the distance from tangent to curve. very nearly.

To find angle for a given distance and deflection.

Rule 1. Multiply the given distance by .01745 (def. for 1° for 1 ft.) and divide given deflection by the product.

Rule 2. Multiply given deflection by 57.3, and divide the product by the given distance.

To find deflection for a given angle and distance. Multiply the angle by .01745, and the product by the distance.

GENERAL DATA

RIGHT ANGLE TRIANGLES. Square the altitude, divide by twice the base. Add quotient to base for hypotenuse.

Given Base 100, Alt. $10.10^2 \div 200 = .5$. $100 + .5 = 100.5$ hyp.

Given Hyp. 100, Alt. $25.25^2 \div 200 = 3.125$. $100 - 3.125 = 96.875 = \text{Base}$.

Error in first example, .002; in last, .045.

To find Tons of Rail in one mile of track: multiply weight per yard by 11, and divide by 7.

LEVELING. The correction for curvature and refraction, in feet and decimals of feet is equal to $0.574 d^2$, where d is the distance in miles. The correction for curvature alone is closely $\frac{1}{2} d^2$. The combined correction is negative.

PROBABLE ERROR. If d_1, d_2, d_3 , etc. are the discrepancies of various results from the mean, and if $\sum d^2$ = the sum of the squares of these differences and n = the number of observations, then the probable error of the

$$\text{mean} = \pm 0.6745 \sqrt{\frac{\sum d^2}{n(n-1)}}$$

MINUTES IN DECIMALS OF A DEGREE

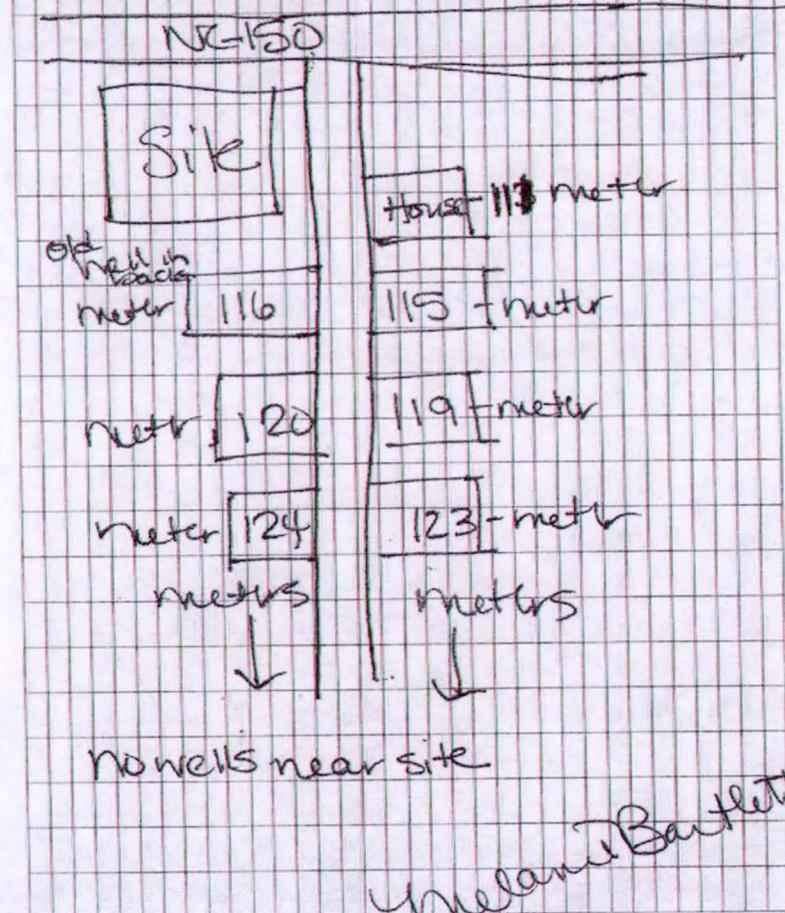
1'	.0167	11'	.1833	21'	.3500	31'	.5167	41'	.6833	51'	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

INCHES IN DECIMALS OF A FOOT

1-16	3-32	$\frac{1}{8}$	3-16	$\frac{1}{4}$	5-16	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729
1	2	3	4	5	6	7	8	9	10	11
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167

Triangle Machine + Electronic 6/2/11/09

60° F Overcast
Melanie Bartlett, Harry Zinn
2:00 pm arrived @ site
GW Survey



2/11/09

MHPs near site

~~MHP~~

MHP

MHP

per resident
served by
City/County
- no well present

two nearest MHPs

- no well visible
- residents confirmed they were supplied H₂O by City

McBrides MHP

- 2 wells GPS
- well #1 021114A
- well #2 021114B

Applegate Well Aqua

- well #1 021114c

uplanie
Bawle

2/11/09

Lynnwood Park

-well #1 021114D

Somerset Community

well #1 ~~021114D~~ Blank

well #2 021114E

well #3 021114F

Avondale Estates

well #1 - meter pulled

-water meter boxes @ well

No Name - across street

-well #1 - meter pulled - water
meter present

waterlines / hydrants present
along all roads

3:00pm departed site

Melanie
Bartlett

Map of Triangle Machine & Electronic Co Incorporated (336) 993-2125

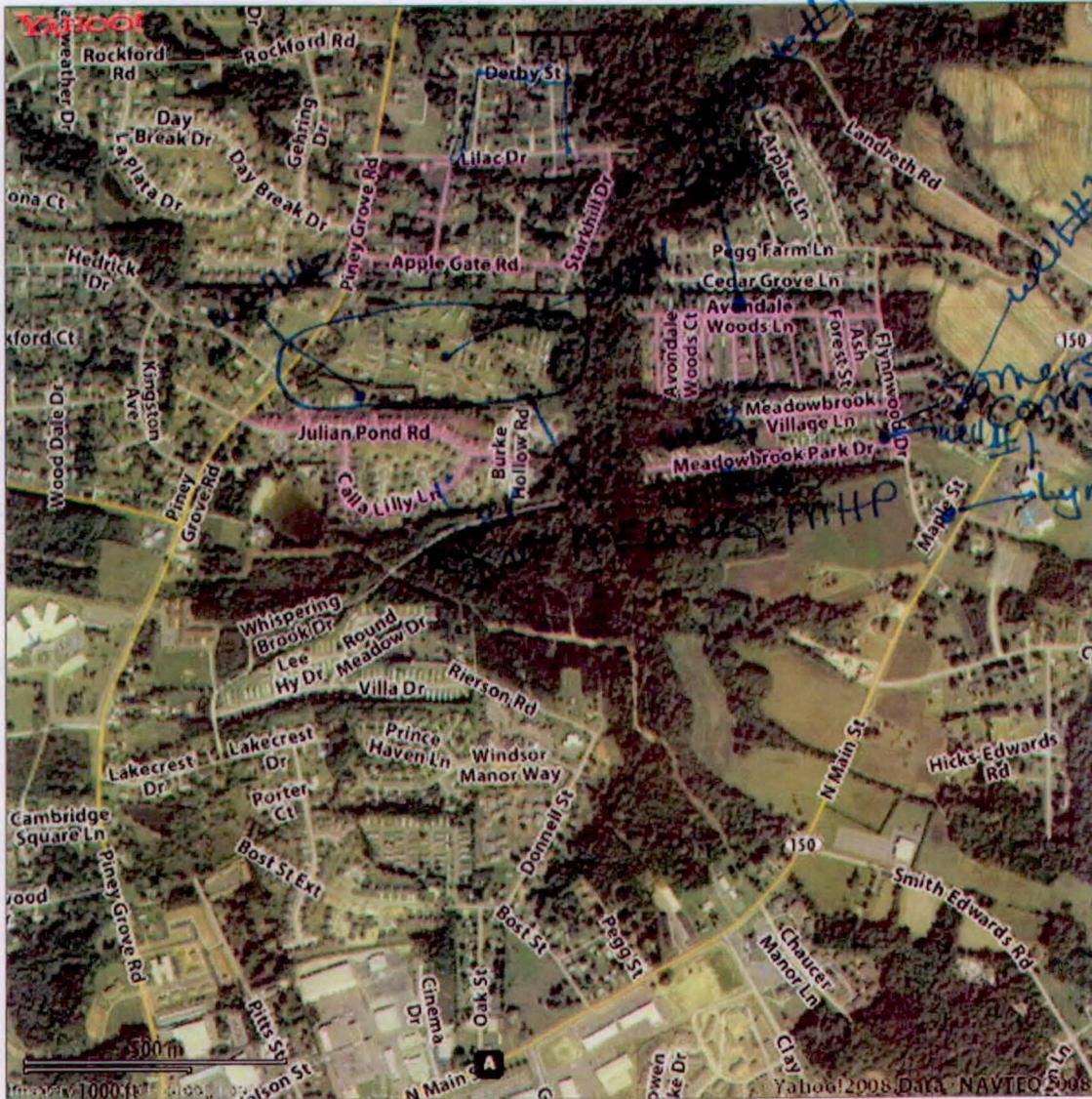


Handwritten: Town Hall



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

Map of Triangle Machine & Electronic Co Incorporated (336) 993-2125



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

GPS for Triangle Machine and Electronic Co - 2/11/09

Longitude	Latitude	HAE	Easting	Northing	Elevation above MSL	Well Name	File Name	Horizontal Precision	Std Deviation
-80.05612	36.14021	263.07	514548.993	265663.42	263.07	Sommerset Community 3	N021114F_3.cor	1.7	0.599884
-80.0529	36.14006	268.641	514838.191	265644.102	268.641	Sommerset Community 1	<Blank>	1.8	0.635316
-80.06324	36.14172	260.934	513909.863	265838.066	260.934	McBride Well 2	N021114A_3.cor	1.5	0.848735
-80.06508	36.14073	264.208	513743.109	265730.163	264.208	McBride Well 1	N021114B_3.cor	1.6	0.677245
-80.05914	36.14478	253.581	514282.58	266173.166	253.581	Applegate Well 1	N021114C_3.cor	2	0.989838
-80.05158	36.1385	274.946	514955.162	265470.053	274.946	Lynnwood Park Well	N021114D_3.cor	1.4	0.701778
-80.0554	36.13972	266.204	514612.969	265608.744	266.204	Sommerset Community 2	N021114E_3.cor	1.9	0.691566

REFERENCE 5

NONCD0002628 TRIANGLE MACHINE & ELECTRONICS 705 N.MAIN STREET KERNERSVILLE

Triangle Machine & Electronic	75	10, 14	no address, (estab 1927);
Triangle Machine & Electronic Co; and Allied Tool & Machine (estab 1927); Metal Processors (703 N. Main). Note that Metal Processors poss at other Kernersville location prior to this	37, 75	10, 14, 15	Main St N, 705 and Oak St; (estab 1964); screw and electronic components, welding & painting from steel, aluminum, brass, copper, and monel; well at 116 Oak St. 11/08 recon & photos; noted inspector condemned bldg 5/20/08 (Whittaker, Inspector)

NOTE: monel is a nickel copper alloy with some iron. Highly corrosion resistant.

1. NC Directory of Manufacturing Firms – 1944, located in State Library of North Carolina. Only 52 counties showed industries of potential concern to NC Superfund.
2. Sanborn Maps
3. NC Directory of Manufacturing Firms, 1948 (not a very valuable ref., but does have some street addresses)
4. Dept. of Commerce Industrial Directory & Reference book, 1938.
5. Site Universe Report, Zeller, Craig, RPM, USEPA; Memo to Green, Richard D. et. al. January 23, 2001.
6. Fertilizer plant search, Nov. 2002 memo, Jeanette Stanley.
7. NC Directory of Manufacturing Firms, 1956 (or 1958 supplement)
8. NC Directory of Manufacturing Firms, 1960
- 8.5. 1962 supplement to 1960 directory
9. NC Directory of Manufacturing Firms, 1964
10. NC Directory of Manufacturing Firms, 1968
11. *Navassa – The Town and its People*. Eulis A. Willis. 1995.
12. De Rossett, W. L. , “Wilmington, N.C., 1902.
13. Lead Smelter Sites apparently unknown to federal and state authorities” (see Mike Deaton; google search)
14. NC Directory of Manufacturing Firms, 1972
15. NC Directory of Manufacturing Firms, 1976

*Note that where the source provided a range for the number of employees (e.g. 16 – 25), the average of the two number is entered here. Where source provided a range of 0 – 50, “<50” was entered. For industries showing estimated populations as greater ranges (e.g. 500 – 1000), the average was listed. Starting in 1964, the 0 – 50 size category was broken down into 0 – 25 and 25 – 50. For those businesses that were listed prior to 1964 and showed a 0 – 25 size in 1964, the number of employees was changed from <50 to <25. For those showing 25 – 50 employees, the listing was left at <50.

REFERENCE 6

REPORT OF INVESTIGATIONS
TRIANGLE MACHINE &
ELECTRONICS CO.
KERNERSVILLE, N.C

PREPARED FOR
STERN, GRAHAM, & KLEPFER

APRIL 19, 1994



BAIN, PALMER & ASSOCIATES, INC.
environmental consultants

(910) 272-9713

2641-G Randleman Road, Greensboro, NC 27406

I hereby certify this 19th day of April 1994, that this report was prepared by me or under my direct supervision.

James M. Allen
James M. Allen
Geologist

John M. Stewart for
John E. Palmer, P.G.
Principal Hydrogeologist

Technical review performed by:

John M. Stewart
John M. Stewart, P.G.
Geologist
NORTH CAROLINA
LICENSED
1046
JOHN M. STEWART

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2.3	Soil Sampling	3
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3.1	Ground Water Contamination	3
3.2	Soil Analysis Results	4
4.0	CONCLUSIONS AND RECOMMENDATIONS	4

TABLES

Table 1	Results of Ground Water Analysis, Summary of Detected Compounds
Table 2	Results of Soil Analysis, Summary of Detected Compounds

FIGURES

Figure 1	Site Area Topographic Map
Figure 2	Site Sketch Map

APPENDICES

Appendix A	Boring Log
Appendix B	Monitoring Well Installation
Appendix C	Ground Water Sampling Field Data Sketch
Appendix D	Laboratory Analyses and Chain-of-Custody

**REPORT OF INVESTIGATIONS
TRIANGLE MACHINE & ELECTRONICS CO.
KERNERSVILLE, N.C.**

1.0 INTRODUCTION

1.1 Purpose

Vacant lot

The purpose of this investigation was to determine whether Triangle Machine & Electronics Co. (TME) was a potential source of chlorinated hydrocarbon and metals contamination found on an adjacent piece of property owned by Amp, Inc. To help make this determination, one shallow groundwater monitoring well was installed near the northeast corner of the TME property and sampled for volatile organic compounds. A composite soil sample was also collected near the southeast corner of the property and sampled for volatile organic compounds and metals.

1.2 Scope of Work

Authorization to proceed with this project was received in February 1994 from Mr. James W. Miles, Attorney at Law, Stern, Graham & Klepfer. The following section presents dates and activities for work conducted during this phase of investigations in the field, laboratory and office.

Activity: Monitoring Well Installation: MW-1
Date: March 14, 1994

Activity: Monitoring Well Development
Date: March 17, 1994

Activity: Monitoring Well Sampling: MW-1
Date: Samples Collected: March 17, 1994
Results Received: April 5, 1994

Activity: Composite Soil Sampling
Date: Samples Collected: March 17, 1994
Results Received: April 4, 1994

Activity: Data Analysis, Report Preparation
Dates: March and April, 1994

2.0 DESCRIPTION OF INVESTIGATIONS

2.1 Monitoring Well Installation

For this phase of the investigation, one shallow monitoring well was installed. The well was located in an area where chemicals containing chlorinated hydrocarbons were reportedly spilled on the surface (Figure 2).

The well was drilled to a total depth of approximately 33 feet. The soil was sampled every 5 feet as the boring was advanced for geologic logging and organic vapor analysis. The split-spoon samples were screened in the field with an organic vapor analyzer (OVA) to detect any volatile organic compounds that might be present in the soils. Slightly elevated OVA readings were encountered at the 8 to 10 foot and 13 to 15 foot intervals. The boring log for this well is included as Appendix A. Figure 2 is a sketch map showing the monitoring well location.

The well was constructed of 2-inch diameter, flush coupled, Schedule 40 PVC riser and a 15 foot section of 0.010-inch slot screen. A sand pack was placed to 2 feet above the screen along with a 2 foot bentonite seal and cement grout to 1.5 feet below the surface. Concrete was used as a surface seal and to secure the permanent lockable protective casing. A monitoring well construction diagram is included as Appendix B. The monitoring well was developed shortly after installation and prior to sampling.

2.2 Monitoring Well Sampling

On March 17, 1994, MW-1 was sampled for laboratory analysis. A groundwater field sampling sheet is included in Appendix C. The sample was collected according to accepted protocol and maintained under chain-of-custody until its receipt at the laboratory. The sample was analyzed using EPA Method 624 by Industrial and Environmental Analysis, Inc. (IEA), a North Carolina certified laboratory.

2.3 Soil Sampling

On March 17, 1994, one composite soil sample was collected near the southeast corner of the property. Three samples were collected along a 45 foot section of a drainage ditch on the northern side of NC Highway 150 (Figure 2). The soil samples were collected one foot below the surface using a decontaminated shovel, placed in a stainless steel bowl and mixed to form one composite sample. The sample was sent to IEA to be analyzed by SW-846 Methods 8240 for VOCs and for total RCRA metals.

3.0 RESULTS OF INVESTIGATION

3.1 Ground Water Contamination

The ground water sample analysis detected four volatile organic compounds (VOCs): 1,1-dichloroethene, tetrachloroethene, 1,1,1-trichloroethane, and trichloroethene. All of the detected compounds are in concentrations above the NCAC 2L guidelines. The Laboratory results are summarized in Table 1. The complete laboratory results are included in Appendix D.

3.2 Soil Analyses Results

No VOCs were detected in the soil sample. Four metals were detected above the quantitation limits of the analysis: arsenic (1.2 ppm), barium (41 ppm), chromium (12 ppm), and lead (19 ppm). The laboratory results are summarized in Table 2. The complete laboratory results are included in Appendix D.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The soil sample analyses detected four metals at low concentrations and at levels that are commonly found in soils of the site area. The metals detected on the AMP site were arsenic (1 ppm), barium (80 ppm), and chromium (17 ppm). The results of the soil sampling are similar and may indicate naturally occurring levels. To confirm this, we recommend collecting additional soil samples from control areas (areas known not to be contaminated) and analyzing them for metals.

The ground water sample analysis detected four volatile organic compounds. All of these compounds are present in concentrations above the present North Carolina Water Quality Standards for Ground Water (15 NCAC 2L § .0202).

The upgradient monitoring well on the AMP property (nearest to TME) detected 1,1-dichloroethene at 9 ppb and trichloroethene at 21 ppb. A map showing the direction of water flow can not be generated with data from only one well. However, the site area topographic map (Figure 1) indicates the ground water flow direction may be toward the south. Given these two pieces of information, TME may be the source of the ground water contamination found on the AMP property.

To conclusively determine the ground water flow direction and extent of onsite contamination, we would recommend installing four additional monitoring wells and sampling

7 ppb
2.8 TCE

them for VOCs. All the wells would then be surveyed to a common datum and a ground water contour map would be developed.

Under the 2L regulations, the ground water contamination should be reported to NC DEHNR.

TABLE 1
RESULTS OF GROUND WATER ANALYSIS
SUMMARY OF DETECTED COMPOUNDS
STERN, GRAHAM & KLEPFER SITE

PARAMETER	MW-1	NC 2L GUIDELINE
1,1-Dichloroethene	190	7.0
Tetrachloroethene	320	0.7
1,1,1-Trichloroethane	1,000	200
Trichloroethene	110	2.8

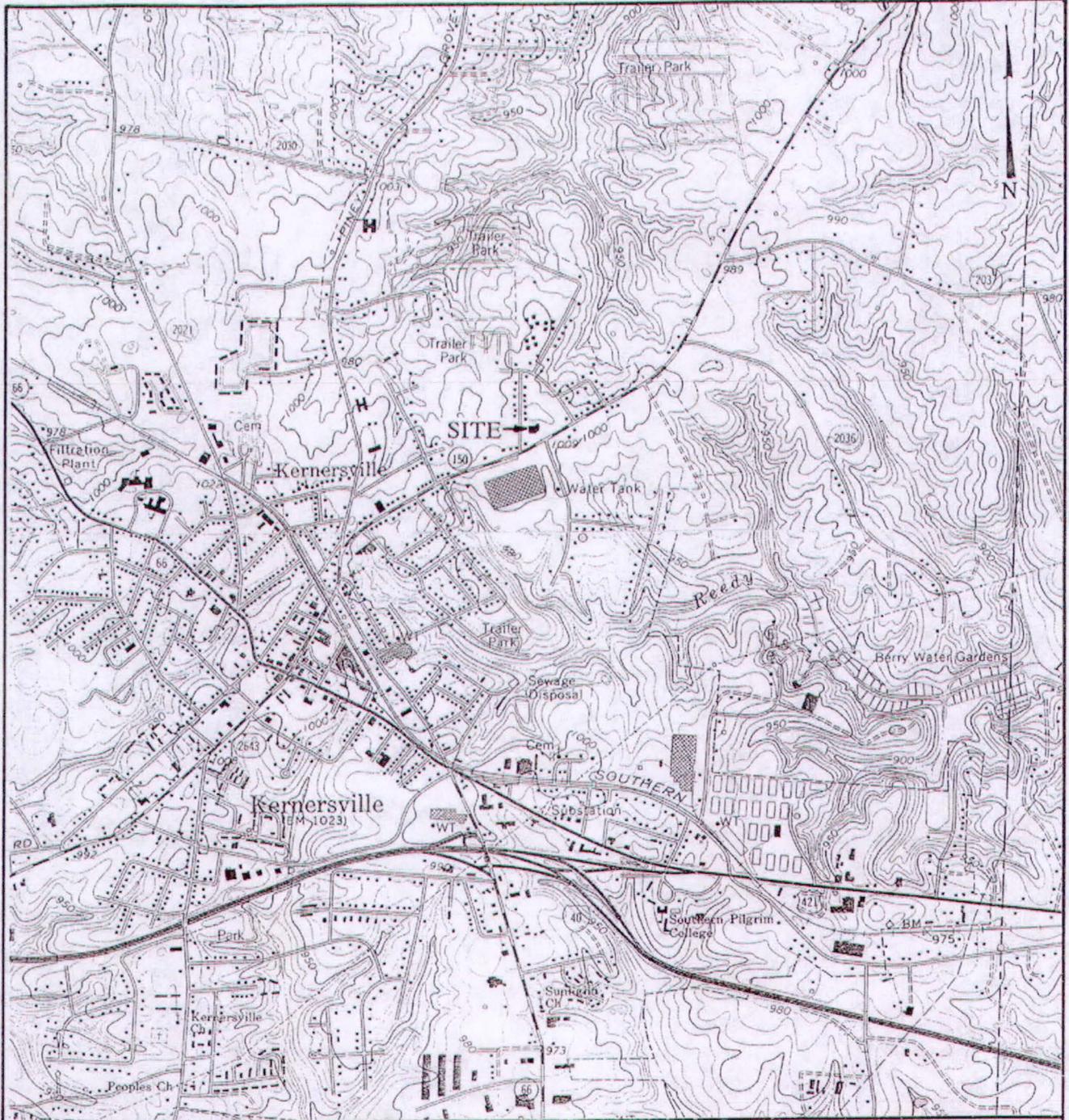
Results are in $\mu\text{g/L}$ (parts per billion)

Shaded block indicates parameters detected in concentrations above North Carolina State Guidelines.

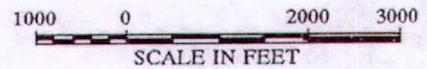
**TABLE 2
RESULTS OF SOIL ANALYSIS
SUMMARY OF DETECTED COMPOUNDS
STERN, GRAHAM & KLEPFER SITE**

PARAMETER	QUANTITATION LIMITS	RESULTS
Total Arsenic	1.0	1.2
Total Barium	20	41
Total Chromium	1.0	12
Total Lead	5.0	19

Results are in mg/kg (parts per million)



BELEWS CREEK AND KERNERSVILLE
 QUADRANGLES
 NORTH CAROLINA
 USGS 7.5 MINUTE TOPOGRAPHIC SERIES

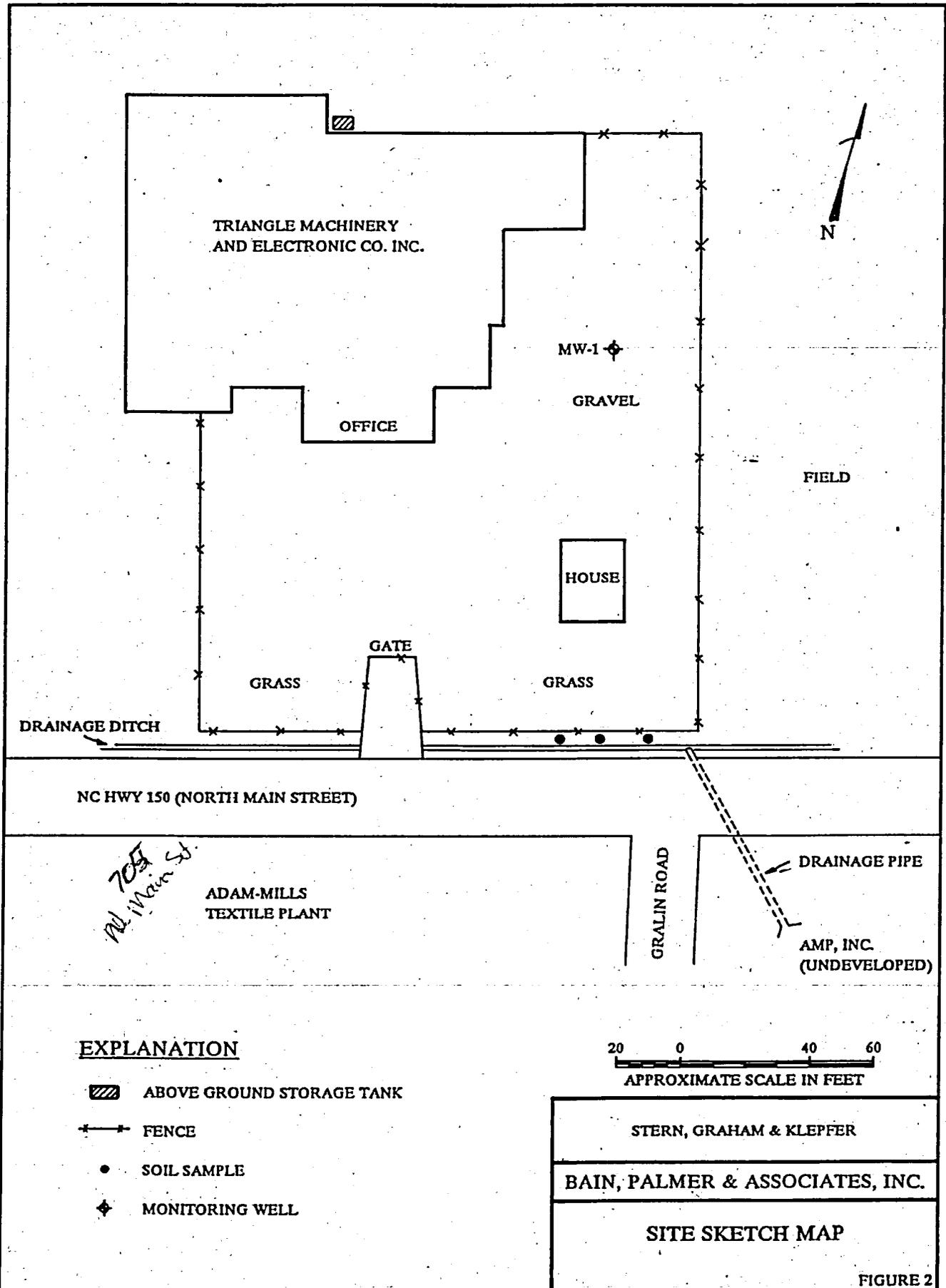


STERN, GRAHAM & KLEPFER

BAIN, PALMER & ASSOCIATES, INC.

SITE AREA TOPOGRAPHIC MAP

FIGURE 1



EXPLANATION

-  ABOVE GROUND STORAGE TANK
-  FENCE
-  SOIL SAMPLE
-  MONITORING WELL

20 0 40 60
 APPROXIMATE SCALE IN FEET

STERN, GRAHAM & KLEPPER
 BAIN, PALMER & ASSOCIATES, INC.
 SITE SKETCH MAP
 FIGURE 2

BAIN, PALMER & ASSOCIATES, INC.
Environmental Consultants

Client STERN GRAHAM AND KLEPFER Boring No. MW-1
 Project STERN GRAHAM AND KLEPFER Driller TRIGON ENGINEERING
 Total Depth 33 ft. Elevation 1010 ft. Boring Type & Size 6.25 INCH H.S. AUGER
 Date Started 3/14/94 Date Ended 3/14/94 Logged By JAMES ALLEN
 Depth to Water 15.25 FT. Date Measured 3/17/94 Water Level Elevation 994.04 ft.

DEPTH (FEET)	ELEVATION FT AMSL	BLOWS PER 6 IN.	PERCENT RECOVERY	UNIFIED CLASS.	LITHOLOGIC DESCRIPTION	REMARKS
2						Elevation is from USGS Topographic Map and is approximate.
4		8 11 15 18	63	CL	Red and gray CLAY with some FINE SAND, very stiff, some yellow weathering, dry.	OVA = 1 ppm
6						
8		2 4 5 8	63	CL	White and gray CLAY and COARSE SAND, stiff, red and yellow weathering, dry.	OVA = 50 ppm
10						
12						
14		1 2 4 4	50	CL	White and gray CLAY and FINE SAND, firm, yellow weathering, extremely micaceous, dry.	OVA = 80 ppm
16						
18		1 3 3 4	63	CL	Same as above, damp.	OVA = 6 ppm
20						

BAIN, PALMER & ASSOCIATES, INC.
Environmental Consultants

Client STERN GRAHAM AND KLEPFER Boring No. MW-1
 Project STERN GRAHAM AND KLEPFER Driller TRIGON ENGINEERING
 Total Depth 33 ft. Elevation 1010 ft. Boring Type & Size 6.25 INCH H.S. AUGER
 Date Started 3/14/94 Date Ended 3/14/94 Logged By JAMES ALLEN
 Depth to Water 15.25 FT. Date Measured 3/17/94 Water Level Elevation 994.04 ft.

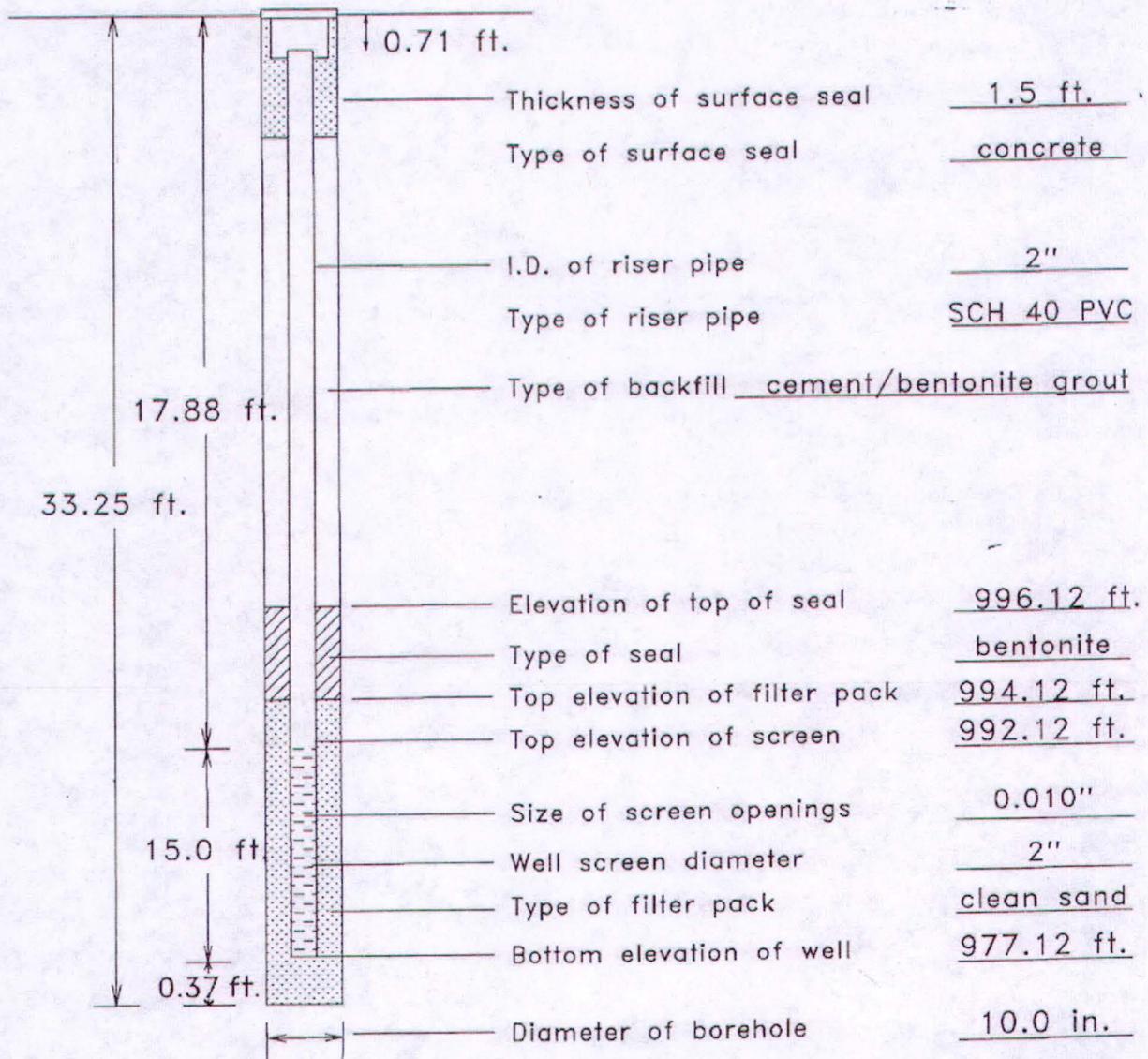
DEPTH (FEET)	ELEVATION FT AMSL	BLOWS PER 6 IN.	PERCENT RECOVERY	UNIFIED CLASS.	LITHOLOGIC DESCRIPTION	REMARKS
22						
24		2 3 3 7	75	CL	Same as above.	OVA = 6 ppm
26						
28						
30		1 1 1 5	100	CL	Same as above, wet.	OVA = 10 ppm
32					Split spoon sampling terminated at 30 ft.	
34					Auger boring terminated at 33 ft.	
36						
38						
40						

BAIN, PALMER & ASSOCIATES, INC.

MONITORING WELL INSTALLATION SKETCH

Project Stern, Graham and Klepfer Well Number MW-1
 Surveyed by Bain, Palmer and Asso. Constructed on 3/14/94
 Surveyed from 1000 ft. Depth to water measured from
 Elevation of ground surface 1010 ft. top of well pipe 15.25 ft.
 Elevation of top of well pipe 1009.29 ft. Water level elevation 994.04 ft.
 Water level taken on 3/17/94

*Base Elevation is from USGS topographic map and is approximate.



BAIN, PALMER & ASSOCIATES, INC.

Environmental Consultants

GROUNDWATER SAMPLING FIELD DATA

Location Stern, Graham

Date March 17, 1994

Source/Well MW-1

Time 9:45 to 11:20 pm

Sampled by James Allen

Weather Sunny, cool

GROUNDWATER ELEVATION

- 1) Depth to water from measuring point 15.25 ft.
- 2) Depth to well bottom from measuring point 32.00 ft.
- 3) Height of water column 16.75 ft.
- 4) Measuring point description Top of Inner Casing

WELL PURGING AND SAMPLE COLLECTION

- 1) Volume of water in well
 - a) 2" well ($v = 0.163 \times h$)
 - b) 4" well ($v = 0.651 \times h$)2.73 gal.
- 2) Volume of water removed prior to sampling 8.5 gal.
- 3) Was well pumped DRY? (circle one) YES NO

FIELD ANALYSIS

- 1) Temperature 25°C
- 2) Specific Conductance 110 μ MHOs
- 3) pH 6.0
- 4) Physical Appearance and Odor Milky white, no odor



IEA

An Aquarion Company

March 31, 1994

APR 1994
RECEIVED

John Palmer
Bain & Palmer, Inc.
2641-G Randleman Road
Greensboro, NC 27406

IEA Project No.: 631673/9403458
IEA Reference No.: W9403401
Client Project I.D.: 0278.001

Dear Mr. Palmer,

Transmitted herewith are the results of analyses on two samples submitted to our laboratory.

The sample(s) were received chilled and intact.

Analyses were performed according to approved methodologies and meet the requirements of the IEA Quality Assurance Program except where noted. Please see the enclosed reports for your results and a copy of the Chain of Custody documentation.

Thank you for selecting IEA for your sample analysis. Please do not hesitate to call your project manager representative at 1-919-677-0090 or 1-800-444-9919 should you have any questions regarding this report. We look forward to serving you in the future.

Very truly yours,

IEA, Inc.

for
William R. Drago
Laboratory Director

State Certification:

Georgia - #816
New Jersey - #67719
California - #1768
Massachusetts - NC039

Tennessee - #00296
Virginia - #00179
West Virginia - #9908C
Kentucky - #90049

Alabama - #40210
South Carolina - #99021
North Carolina - #37720/#84
Kansas - E-158/E-1189



Industrial & Environmental Analysts, Inc. (IEA)

Project #: 631-673
 Sample #: 9403458-02 Matrix: Soil
 Client Name: Bain & Palmer, Inc. Date Received: 03/18/94
 Client Proj. I.D.: 0278.001 (STERN GRAHAM) Date Sampled: 03/17/94
 Sample I.D.: SS-1

Parameter	Method	Quantitation Limits	Results	Date Prepared	Date Analyzed	Analyst
Mercury	SW-846 7471	0.10 mg/kg	BQL	03/23/94	03/25/94	JS
Arsenic	SW-846 7060	1.0 mg/kg	1.2 mg/kg	03/22/94	03/24/94	DL
Selenium	SW-846 7740	0.50 mg/kg	BQL	03/22/94	03/24/94	MM
Silver	SW-846 6010	1.0 mg/kg	BQL	03/22/94	03/23/94	FW
Barium	SW-846 6010	20 mg/kg	41 mg/kg	03/22/94	03/23/94	FW
Cadmium	SW-846 6010	0.50 mg/kg	BQL	03/22/94	03/23/94	FW
Chromium	SW-846 6010	1.0 mg/kg	12 mg/kg	03/22/94	03/23/94	FW
Lead	SW-846 6010	5.0 mg/kg	19 mg/kg	03/22/94	03/23/94	FW

Comments:

Industrial & Environmental Analysts, Inc. (IEA)

Project #: 631-673
 Sample #: 9403458 Matrix: Solid
 Client Name: Bain & Palmer, Inc. Date Received: N/A
 Client Proj. I.D.: 0278.001 (STERN GRAHAM) Date Sampled: N/A
 Sample I.D.: QC Blank

Parameter	Method	Quantitation Limits	Results	Date Prepared	Date Analyzed	Analyst
Mercury	SW-846 7471	0.10 mg/kg	BQL	03/23/94	03/25/94	JS
Arsenic	SW-846 7060	1.0 mg/kg	BQL	03/22/94	03/24/94	DL
Selenium	SW-846 7740	0.50 mg/kg	BQL	03/22/94	03/24/94	MM
Silver	SW-846 6010	1.0 mg/kg	BQL	03/22/94	03/23/94	FW
Barium	SW-846 6010	20 mg/kg	BQL	03/22/94	03/23/94	FW
Cadmium	SW-846 6010	0.50 mg/kg	BQL	03/22/94	03/23/94	FW
Chromium	SW-846 6010	1.0 mg/kg	BQL	03/22/94	03/23/94	FW
Lead	SW-846 6010	5.0 mg/kg	BQL	03/22/94	03/23/94	FW

Comments:

Corresponding Samples: 9403458-02

Post Office Box 12846
Research Triangle Park, NC 27709

Phone 919-677-0090
Fax 919-677-0427



IEA

An Aquarion Company

April 4, 1994

APR 1994
RECEIVED

John Palmer
Bain & Palmer, Inc.
2641-G Randleman Road
Greensboro, NC 27406

IEA Project No.: 631673/9403458 (Addendum)
IEA Reference No.: W9403401
Client Project I.D.: 0278.001

Dear Mr. Palmer,

Transmitted herewith are the Volatile results that were inadvertently omitted from your original report.

The sample(s) were received chilled and intact.

Analyses were performed according to approved methodologies and meet the requirements of the IEA Quality Assurance Program except where noted. Please see the enclosed reports for your results and a copy of the Chain of Custody documentation.

Thank you for selecting IEA for your sample analysis. Please do not hesitate to call your project manager representative at 1-919-677-0090 or 1-800-444-9919 should you have any questions regarding this report. We look forward to serving you in the future.

Very truly yours,

IEA, Inc.

Stephanie R. Drago
William R. Drago
Laboratory Director

State Certification:

Georgia - #816

New Jersey - #67719

California - #1768

Massachusetts - NC039

Tennessee - #00296

Virginia - #00179

West Virginia - #9908C

Kentucky - #90049

Alabama - #40210

South Carolina - #99021

North Carolina - #37720/#84

Kansas - E-158/E-1189

Monroe,
Connecticut
203-261-4458

Sunrise,
Florida
305-846-1730

Schaumburg,
Illinois
708-705-0740

N. Billerica,
Massachusetts
617-272-5212

Whippany,
New Jersey
201-428-8181



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Industrial & Environmental Analysts, Inc. (IEA)
GC/MS PURGEABLES EPA 624 COMPOUND LIST

IEA Project Number:	631-673	Date Received:	03/18/94
IEA Sample Number:	9403458-01	Date Sampled:	03/17/94
Client Name:	Bain & Palmer, Inc.	Date Analyzed:	03/31/94
Client Project ID:	0278.001	Analysis By:	Moore
Sample Identification:	MW-1	Dilution Factor:	10
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Benzene	5	BQL
2	Bromodichloromethane	5	BQL
3	Bromoform	5	BQL
4	Bromomethane	10	BQL
5	Carbon tetrachloride	5	BQL
6	Chlorobenzene	5	BQL
7	Chloroethane	10	BQL
8	2-Chloroethylvinyl ether	5	BQL
9	Chloroform	5	BQL
10	Chloromethane	10	BQL
11	Dibromochloromethane	5	BQL
12	1,2-Dichlorobenzene	5	BQL
13	1,3-Dichlorobenzene	5	BQL
14	1,4-Dichlorobenzene	5	BQL
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	190
18	1,2-Dichloroethene (total)	5	BQL
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	5	BQL
21	trans-1,3-Dichloropropene	5	BQL
22	Ethylbenzene	5	BQL
23	Methylene chloride	5	BQL
24	1,1,2,2-Tetrachloroethane	5	BQL
25	Tetrachloroethene	5	320
26	Toluene	5	BQL
27	1,1,1-Trichloroethane	5	1000
28	1,1,2-Trichloroethane	5	BQL
29	Trichloroethene	5	110
30	Trichlorofluoromethane	5	BQL
31	Vinyl Chloride	10	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
 BQL = Below Quantitation Limit
 Quantitation limits elevated due to sample dilution prior to analysis.
 Sample diluted due to high concentrations of target compounds present.

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS PURGEABLES EPA 624 COMPOUND LIST

IEA Project Number: 631-673
 IEA Sample Number: 9403458 Date Received: N/A
 Client Name: Bain & Palmer, Inc. Date Sampled: N/A
 Client Project ID: 0278.001 Date Analyzed: 03/31/94
 Sample Identification: QC Blank (VBLKK1) Analysis By: Moore
 Matrix: Water Dilution Factor: 1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Benzene	5	BQL
2	Bromodichloromethane	5	BQL
3	Bromoform	5	BQL
4	Bromomethane	10	BQL
5	Carbon tetrachloride	5	BQL
6	Chlorobenzene	5	BQL
7	Chloroethane	10	BQL
8	2-Chloroethylvinyl ether	5	BQL
9	Chloroform	5	BQL
10	Chloromethane	10	BQL
11	Dibromochloromethane	5	BQL
12	1,2-Dichlorobenzene	5	BQL
13	1,3-Dichlorobenzene	5	BQL
14	1,4-Dichlorobenzene	5	BQL
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	BQL
18	1,2-Dichloroethene (total)	5	BQL
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	5	BQL
21	trans-1,3-Dichloropropene	5	BQL
22	Ethylbenzene	5	BQL
23	Methylene chloride	5	BQL
24	1,1,2,2-Tetrachloroethane	5	BQL
25	Tetrachloroethene	5	BQL
26	Toluene	5	BQL
27	1,1,1-Trichloroethane	5	BQL
28	1,1,2-Trichloroethane	5	BQL
29	Trichloroethene	5	BQL
30	Trichlorofluoromethane	5	BQL
31	Vinyl Chloride	10	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

N/A = Not Applicable

Corresponding Samples: 9403458-01

Filename: 0331K03

FORM 624 Rev. 081792

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS PURGEABLES SW-846 METHOD 8240

IEA Project Number: 631-673
 IEA Sample Number: 9403458-02 Date Received: 03/18/94
 Client Name: Bain & Palmer, Inc. Date Sampled: 03/17/94
 Client Project ID: 0278.001 Date Analyzed: 03/28/94
 Sample Identification: SS-1 Analysis By: Larkins
 Matrix: Soil Dilution Factor: 1.0
 Moisture Correction Factor: N/A

Number	Compound	Quantitation Limit (ug/kg)	Results Concentration (ug/kg)
1	Acetone	10	BQL
2	Benzene	5	BQL
3	Bromodichloromethane	5	BQL
4	Bromoform	5	BQL
5	Bromomethane	10	BQL
6	2-Butanone	10	BQL
7	Carbon disulfide	5	BQL
8	Carbon tetrachloride	5	BQL
9	Chlorobenzene	5	BQL
10	Dibromochloromethane	5	BQL
11	Chloroethane	10	BQL
12	2-Chloroethylvinyl ether	10	BQL
13	Chloroform	5	BQL
14	Chloromethane	10	BQL
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	BQL
18	1,2-Dichloroethene (total)	5	BQL
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	5	BQL
21	trans-1,3-Dichloropropene	5	BQL
22	Ethylbenzene	5	BQL
23	2-Hexanone	10	BQL
24	Methylene chloride	5	BQL
25	4-Methyl-2-pentanone	10	BQL
26	Styrene	5	BQL
27	1,1,2,2-Tetrachloroethane	5	BQL
28	Tetrachloroethene	5	BQL
29	Toluene	5	BQL
30	1,1,1-Trichloroethane	5	BQL
31	1,1,2-Trichloroethane	5	BQL
32	Trichloroethene	5	BQL
33	Vinyl acetate	10	BQL
34	Vinyl chloride	10	BQL
35	Xylenes (total)	5	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.

BQL = Below Quantitation Limit

N/A = Not Applicable

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS PURGEABLES SW-846 METHOD 8240

IEA Project Number: 631-673
 IEA Sample Number: 9403458 Date Received: N/A
 Client Name: Bain & Palmer, Inc. Date Sampled: N/A
 Client Project ID: 0278.001 Date Analyzed: 03/28/94
 Sample Identification: QC Blank (VBLK7E) Analysis By: Porter
 Matrix: Solid Dilution Factor: 1.0
 Moisture Correction Factor: N/A

Number	Compound	Quantitation Limit (ug/kg)	Results Concentration (ug/kg)
1	Acetone	10	BQL
2	Benzene	5	BQL
3	Bromodichloromethane	5	BQL
4	Bromoform	5	BQL
5	Bromomethane	10	BQL
6	2-Butanone	10	BQL
7	Carbon disulfide	5	BQL
8	Carbon tetrachloride	5	BQL
9	Chlorobenzene	5	BQL
10	Dibromochloromethane	5	BQL
11	Chloroethane	10	BQL
12	2-Chloroethylvinyl ether	10	BQL
13	Chloroform	5	BQL
14	Chloromethane	10	BQL
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	BQL
18	1,2-Dichloroethene (total)	5	BQL
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	5	BQL
21	trans-1,3-Dichloropropene	5	BQL
22	Ethylbenzene	5	BQL
23	2-Hexanone	10	BQL
24	Methylene chloride	5	BQL
25	4-Methyl-2-pentanone	10	BQL
26	Styrene	5	BQL
27	1,1,2,2-Tetrachloroethane	5	BQL
28	Tetrachloroethene	5	BQL
29	Toluene	5	BQL
30	1,1,1-Trichloroethane	5	BQL
31	1,1,2-Trichloroethane	5	BQL
32	Trichloroethene	5	BQL
33	Vinyl acetate	10	BQL
34	Vinyl chloride	10	BQL
35	Xylenes (total)	5	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.

BQL = Below Quantitation Limit

N/A = Not Applicable

Corresponding Samples: 9403458-02

Filename: 0328702

FORM 8240 Rev. 081792

ABBREVIATIONS

A	=	Amenable
Alk	=	Alkalinity as CaCO ₃
Berb	=	Alkalinity as Bicarbonate
BOD	=	Biochemical Oxygen Demand
BQL	=	Below Quantitation Limit
c/100mL	=	Colonies per 100 mL of Sample
CEC	=	Cation Exchange Capacity
Chrom	=	Chromotropic
COD	=	Chemical Oxygen Demand
Crb	=	Alkalinity as Carbonate
D	=	Dissolved
DO	=	Dissolved Oxygen
DOC	=	Dissolved Organic Carbon
D/T	=	Distillation/Titration
E	=	Extractable (Prepped by Std M 3030C)
F	=	Free
Hex	=	Hexavalent
Hyd	=	Hydroxide
ISE	=	Ion Selective Electrode
mmpy	=	Millimeter per Year
MPN	=	Most Probable Number
N/A	=	Not Applicable
R	=	Reactivity
SA	=	Spike Added
SSR	=	Spike Sample Results
SR	=	Sample Results
Sp Cond	=	Specific Conductance
SM	=	Settleable Matter
SPC	=	Standard Plate Count
T	=	Total
TDS	=	Total Dissolved Solids
TKN	=	Total Kjeldahl Nitrogen
TMLSS	=	Total Mixed Liquor Suspended Solids
TOC	=	Total Organic Carbon
TON	=	Total Organic Nitrogen
TOX	=	Total Organic Halogens
TS	=	Total Solids
TSS	=	Total Suspended Solids
TVS	=	Total Volatile Solids
VSS	=	Volatile Suspended Solids
WAD	=	Weak and Dissociable



BAIN, PALMER & ASSOCIATES, INC.
environmental consultants

(919) 272-9713 2641-G Randleman Rd. Greensboro, NC 27406

CHAIN OF CUSTODY RECORD

Sheet 1 of 1

Sample No.	Description/Location	Date	Time	Grab	Comp	No. of Containers	Preservative	MATRIX		ANALYSES REQUESTED									
								soil	water	624	624	TOTAL RCCA METALS							
MW-1	/ UPGRADE	3/17/94	11:00am	✓		3	HCL/ICE	✓	✓	✓									
SS-1	/ WEST BANK	3/17/94	11:20am		✓	2	ICE	✓		✓	✓								

SPECIAL INSTRUCTIONS:

FIELD OBSERVATIONS:

Items/Reason	Relinquished By	Received By	Date	Time
All / Shipping	James Allen	[Signature]	3/18/94	10:00
3/18/94	James Allen			

Items/Reason	Relinquished By	Received By	Date	Time

PROJECT QUOTE NO. A9306024/A9306025

PROJECT RUSH NO. _____

PROJECT MANAGER JOHN PALMER

IEPA
631-673

PROJECT NAME STERN GRAHAM

PROJECT NUMBER 0278.001

SAMPLER(S) JAMES ALLEN

REFERENCE 7

15A NCAC 02L .0202 GROUNDWATER QUALITY STANDARDS

(a) The groundwater quality standards for the protection of the groundwaters of the state are those specified in this Rule. They are the maximum allowable concentrations resulting from any discharge of contaminants to the land or waters of the state, which may be tolerated without creating a threat to human health or which would otherwise render the groundwater unsuitable for its intended best usage.

(b) The groundwater quality standards for contaminants specified in Paragraphs (g) and (h) of this Rule shall be as listed, except that:

- (1) Where the standard for a substance is less than the practical quantitation limit, the detection of that substance at or above the practical quantitation limit shall constitute a violation of the standard.
- (2) Where two or more substances exist in combination, the Director shall consider the effects of chemical interactions as determined by the Division of Public Health and may establish maximum concentrations at values less than those established in accordance with Paragraphs (c), (g), or (h) of this Rule. In the absence of information to the contrary, in accordance with Paragraph (d) of this Rule, the carcinogenic risks associated with carcinogens present shall be considered additive and the toxic effects associated with non-carcinogens present shall also be considered additive.
- (3) Where naturally occurring substances exceed the established standard, the standard shall be the naturally occurring concentration as determined by the Director.

(c) Except for tracers used in concentrations which have been determined by the Division of Public Health to be protective of human health, and the use of which has been permitted by the Division, substances which are not naturally occurring and for which no standard is specified shall not be permitted in detectable concentrations in Class GA or Class GSA groundwaters. Any person may petition the Director to establish an interim maximum allowable concentration for a substance for which a standard has not been established under this Rule. The petitioner shall submit relevant toxicological and epidemiological data, study results, and calculations necessary to establish a standard in accordance with Paragraph (d) of this Rule. Within three months after the establishment of an interim maximum allowable concentration for a substance by the Director, the Director shall initiate action to consider adoption of a standard for that substance.

(d) Groundwater quality standards for substances in Class GA and Class GSA groundwaters are established as the least of:

- (1) Systemic threshold concentration calculated as follows: $[\text{Reference Dose (mg/kg/day)} \times 70 \text{ kg (adult body weight)} \times \text{Relative Source Contribution (.10 for inorganics; .20 for organics)}] / [2 \text{ liters/day (avg. water consumption)}]$;
- (2) Concentration which corresponds to an incremental lifetime cancer risk of 1×10^{-6} ;
- (3) Taste threshold limit value;
- (4) Odor threshold limit value;
- (5) Maximum contaminant level; or
- (6) National secondary drinking water standard.

(e) The following references, in order of preference, shall be used in establishing concentrations of substances which correspond to levels described in Paragraph (d) of this Rule.

- (1) Integrated Risk Information System (U.S. EPA).
- (2) Health Advisories (U.S. EPA Office of Drinking Water).
- (3) Other health risk assessment data published by U.S. EPA.
- (4) Other appropriate, published health risk assessment data, and scientifically valid peer-reviewed published toxicological data.

(f) Groundwater quality standards specified in Paragraphs (g) and (h) of this Rule and interim maximum allowable concentrations established pursuant to Paragraph (c) of this Rule shall be reviewed on a triennial basis. Appropriate modifications to established standards shall be made in accordance with the procedure prescribed in Paragraph (d) of this Rule where modifications are considered appropriate based on data published subsequent to the previous review.

(g) Class GA Standards. Where not otherwise indicated, the standard refers to the total concentration in milligrams per liter of any constituent in a dissolved, colloidal or particulate form which is mobile in groundwater. This does not apply to sediment or other particulate matter which is preserved in a groundwater sample as a result of well construction or sampling procedures.

- (1) acetone: 0.7
- (2) acenaphthene: 0.08
- (3) acenaphthylene: 0.21
- (4) acrylamide (propenamide): 0.000008

- (5) anthracene: 2.1
- (6) arsenic: 0.05
- (7) atrazine and chlorotriazine metabolites: 0.0030
- (8) barium: 2.0
- (9) benzene: 0.001
- (10) benzo(a)anthracene (benz(a)anthracene): 0.0000479
- (11) benzo(b)fluoranthene: 4.79×10^{-5}
- (12) benzo(k)fluoranthene: 4.79×10^{-4}
- (13) benzo(g,h,i)perylene: 0.21
- (14) benzo(a)pyrene: 4.79×10^{-6}
- (15) boron: 0.315
- (16) bromodichloromethane: 0.00056
- (17) bromoform (tribromomethane): 0.00443
- (18) n-butylbenzene: 0.07
- (19) sec-butylbenzene: 0.07
- (20) tert-butylbenzene: 0.07
- (21) butylbenzyl phthalate: 0.10
- (22) cadmium: 0.00175
- (23) caprolactam: 3.5
- (24) carbofuran: 0.035
- (25) carbon disulfide: 0.7
- (26) carbon tetrachloride: 0.000269
- (27) chlordane: 1.0×10^{-4}
- (28) chloride: 250.0
- (29) chlorobenzene: 0.05
- (30) chloroethane: 2.80
- (31) chloroform (trichloromethane): 0.07
- (32) chloromethane (methyl chloride): 2.6×10^{-3}
- (33) 2-chlorophenol: 0.00036
- (34) 2-chlorotoluene: 0.14
- (35) chromium: 0.05
- (36) chrysene: 0.00479
- (37) cis-1,2-dichloroethene: 0.07
- (38) coliform organisms (total): 1 per 100 milliliters
- (39) color: 15 color units
- (40) copper: 1.0
- (41) cyanide (free cyanide): 0.07
- (42) 2, 4-D (2,4-dichlorophenoxy acetic acid): 0.07
- (43) dibenz(a,h)anthracene: 4.7×10^{-6}
- (44) 1,2-dibromo-3-chloropropane: 2.5×10^{-5}
- (45) dichlorodifluoromethane (Freon-12; Halon): 1.4
- (46) p,p'-dichlorodiphenyl dichloroethane (DDD): 1.4×10^{-4}
- (47) p,p'-dichlorodiphenyltrichloroethane (DDT): 1.0×10^{-4}
- (48) 1,1-dichloroethane: 0.07
- (49) 1,2-dichloroethane (ethylene dichloride): 0.00038
- (50) 1,1-dichloroethylene (vinylidene chloride): 0.007
- (51) 1,2-dichloropropane: 0.00051
- (52) 1,3-dichloropropene (cis and trans isomers): 0.00019
- (53) dieldrin: 2.2×10^{-6}
- (54) di-n-butyl (or dibutyl) phthalate (DBP): 0.7
- (55) diethylphthalate (DEP): 5.0
- (56) di(2-ethylhexyl) phthalate (DEHP): 0.0025
- (57) 2,4-dimethylphenol (m-xyleneol): 0.14
- (58) di-n-octyl phthalate: 0.14
- (59) p-dioxane (1,4-diethylene dioxide): 0.007

- (60) dioxin: 2.2×10^{-10}
- (61) diphenyl (1,1-diphenyl): 0.35
- (62) dissolved solids (total): 500
- (63) disulfoton: 2.8×10^{-4}
- (64) diundecyl phthalate (Santicizer 711): 0.14
- (65) endosulfan II (beta-endosulfan): 0.0420
- (66) endrin: 0.002
- (67) endrin (total endrin: includes endrin, endrin aldehyde, and endrin ketone): 2.1×10^{-3}
- (68) epichlorohydrin (1-chloro-2,3-epoxypropane): 0.00354
- (69) ethylbenzene: 0.550
- (70) ethylene dibromide (EDB; 1,2-dibromoethane): 4.0×10^{-7}
- (71) ethylene glycol: 14.0
- (72) fluoranthene: 0.28
- (73) fluorene: 0.28
- (74) fluoride: 2.0
- (75) foaming agents: 0.5
- (76) gross alpha (adjusted) particle activity (excluding radium-226 and uranium): 15 pCi/l
- (77) heptachlor: 7.8×10^{-6}
- (78) heptachlor epoxide: 3.8×10^{-6}
- (79) heptane: 0.42
- (80) hexachlorobenzene (perchlorobenzene): 0.00002
- (81) hexachlorocyclohexane isomers (total hexachlorocyclohexane: includes alpha,beta,delta,gamma, and epsilon isomers): 1.9×10^{-5}
- (82) n-hexane: 0.42
- (83) indeno(1,2,3-cd)pyrene: 4.79×10^{-5}
- (84) iron: 0.3
- (85) isophorone: 0.0368
- (86) isopropylbenzene: 0.070
- (87) isopropyl ether (diisopropyl ether): 0.070
- (88) lead: 0.015
- (89) lindane: 2.0×10^{-4}
- (90) manganese: 0.05
- (91) mercury: 0.00105
- (92) metadichlorobenzene (1,3-dichlorobenzene): 0.170
- (93) methanol: 3.5
- (94) methoxychlor: 0.035
- (95) methylene chloride (dichloromethane): 0.0046
- (96) methyl ethyl ketone (MEK; 2-butanone): 4.20
- (97) 2-methylnaphthalene: 0.0140
- (98) 3-methylphenol (m-cresol): 0.0350
- (99) 4-methylphenol (p-cresol): 3.5×10^{-3}
- (100) methyl tert-butyl ether (MTBE): 0.2
- (101) naphthalene: 0.021
- (102) nickel: 0.1
- (103) nitrate: (as N) 10.0
- (104) nitrite: (as N) 1.0
- (105) N-nitrosodimethylamine: 7.0×10^{-7}
- (106) orthodichlorobenzene (1,2-dichlorobenzene): 0.024
- (107) oxamyl: 0.175
- (108) paradichlorobenzene (1,4-dichlorobenzene): 0.0014
- (109) pentachlorophenol: 0.00029
- (110) petroleum aliphatic carbon fraction class C5 - C8: 0.42
- (111) petroleum aliphatic carbon fraction class C9 - C18: 4.20
- (112) petroleum aliphatic carbon fraction class C19 - C36: 42.0
- (113) petroleum aromatics carbon fraction class C9 - C22: 0.210

- (114) pH: 6.5 - 8.5
- (115) phenanthrene: 0.21
- (116) phenol: 0.30
- (117) phorate: 1.4×10^{-3}
- (118) n-propylbenzene: 0.070
- (119) pyrene: 0.21
- (120) selenium: 0.05
- (121) silver: 0.0175
- (122) simazine: 0.004
- (123) styrene (ethenylbenzene): 0.1
- (124) sulfate: 250.0
- (125) tetrachloroethylene (perchloroethylene; PCE): 0.0007
- (126) 2,3,4,6-tetrachlorophenol: 0.210
- (127) toluene (methylbenzene): 1.0
- (128) toxaphene: 3.1×10^{-5}
- (129) 2, 4, 5,-TP (Silvex): 0.05
- (130) trans-1,2-dichloroethene: 0.10
- (131) 1,1,1-trichloroethane (methyl chloroform): 0.2
- (132) trichloroethylene (TCE): 0.0028
- (133) trichlorofluoromethane: 2.1
- (134) 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113): 210.0
- (135) 1,2,3- trichloropropane: 5.0×10^{-6}
- (136) 1,2,4-trimethylbenzene: 0.350
- (137) 1,3,5-trimethylbenzene: 0.350
- (138) vinyl chloride (chloroethylene): 1.5×10^{-5}
- (139) xylenes (o-, m-, and p-): 0.53
- (140) zinc: 1.05

(h) Class GSA Standards. The standards for this class shall be the same as those for Class GA except as follows:

- (1) chloride: allowable increase not to exceed 100 percent of the natural quality concentration.
- (2) total dissolved solids: 1000 mg/l.

(i) Class GC Waters.

- (1) The concentrations of substances which, at the time of classification exceed the standards applicable to Class GA or GSA groundwaters shall not be caused to increase, nor shall the concentrations of other substances be caused to exceed the GA or GSA standards as a result of further disposal of contaminants to or beneath the surface of the land within the boundary of the area classified GC.
- (2) The concentrations of substances which, at the time of classification, exceed the standards applicable to GA or GSA groundwaters shall not be caused to migrate as a result of activities within the boundary of the GC classification, so as to violate the groundwater or surface water quality standards in adjoining waters of a different class.
- (3) Concentrations of specific substances, which exceed the established standard at the time of classification, shall be listed in Section .0300 of this Subchapter.

History Note: Authority G.S. 143-214.1; 143B-282(a)(2);

Eff. June 10, 1979;

Amended Eff. November 1, 1994; October 1, 1993; September 1, 1992; August 1, 1989;

Temporary Amendment Eff. June 30, 2002;

Amended Eff. August 1, 2002;

Temporary Amendment Expired February 9, 2003;

Amended Eff. April 1, 2005.

REFERENCE 8

**SUPERFUND CHEMICAL DATA MATRIX
METHODOLOGY**

Prepared For EPA
January 2004

REFERENCE 9

INACTIVE HAZARDOUS SITES BRANCH HEALTH-BASED SOIL REMEDIATION GOALS¹

These health-based remediation goals must be used in conjunction with either the REC or State-Lead Guidance documents and apply only at sites with signed administrative agreements with the Division of Waste Management. In addition to these health-based goals, soils must also meet protection of groundwater remediation goals. If sensitive environments are present at a site, the branch may require the adjustment of remediation goals and/or the proposed remedial alternative.

Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Acephate*	30560-19-1			4.80E+01	N
Acetaldehyde*	75-07-0		1.10E+05	1.10E+01	C
Acetochlor	34256-82-1			2.40E+02	N
Acetone	67-64-1	3	1.10E+05	1.20E+04	N
Acetone Cyanohydrin	75-86-5		1.10E+05	4.00E+01	N
Acetonitrile	75-05-8		1.30E+05	1.70E+02	N
Acetophenone	98-86-2	3	2.30E+03	1.60E+03	N
Acrolein	107-02-8		2.50E+04	3.20E-02	N
Acrylamide*	79-06-1			1.10E-01	C
Acrylic Acid	79-10-7			6.00E+03	N
Acrylonitrile*	107-13-1		1.10E+04	2.40E-01	C
Adiponitrile	111-69-3			1.70E+06	N
Alachlor*	15972-60-8			2.40E+01	C
ALAR	1596-84-5			1.80E+03	N
Aldicarb	116-06-3			1.20E+01	N
Aldicarb Sulfone	1646-88-4			1.20E+01	N
Aldrin*	309-00-2			2.90E-02	C
Allyl	74223-64-6			3.00E+03	N
Allyl Alcohol	107-18-6			6.20E+01	N
Allyl Chloride	107-05-1		1.50E+03	3.60E-01	N
Aluminum	7429-90-5			1.50E+04	N
Aluminum Phosphide	20859-73-8			6.20E+00	N
Amdro	67485-29-4			3.60E+00	N
Ametryn	834-12-8			1.10E+02	N
Aminophenol, m-	591-27-5			9.80E+02	N
Aminophenol, p-	123-30-8			2.40E+02	N
Amitraz	33089-61-1			3.00E+01	N
Ammonia	7664-41-7			2.80E+07	N
Ammonium Perchlorate	7790-98-9			1.10E+01	N
Ammonium Sulfamate	7773-06-0			3.20E+03	N
Aniline*	62-53-3			8.50E+01	C
Antimony (metallic)	7440-36-0			6.20E+00	N
Antimony Pentoxide	1314-60-9			7.80E+00	N
Antimony Potassium Tartrate	304-61-0			1.40E+01	N
Antimony Tetroxide	1332-81-6			6.20E+00	N
Antimony Trioxide	1309-64-4			6.20E+00	N
Apollo	74115-24-5			1.60E+02	N
Aramite*	140-57-8			1.90E+01	C
Arsenic, Inorganic*	7440-38-2	2		4.40E+00	N
Arsine	7784-42-1			1.40E+04	N
Assure	76578-14-8			1.10E+02	N
Asulam	3337-71-1			6.20E+02	N

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Atrazine*	1912-24-9			2.10E+00	C
Avermectin B1	65195-55-3			4.80E+00	N
Azobenzene	103-33-3			4.90E+00	C
Barium	7440-39-3			3.00E+03	N
Baygon	114-26-1			4.80E+01	N
Bayleton	43121-43-3			3.60E+02	N
Baythroid	68359-37-5			3.00E+02	N
Benefin	1861-40-1			3.60E+03	N
Benomyl	17804-35-2			6.20E+02	N
Bentazon	25057-89-0			3.60E+02	N
Benzaldehyde	100-52-7	3	1.90E+03	1.60E+03	N
Benzene*	71-43-2		2.00E+03	1.10E+00	C
Benzenethiol	108-98-5		1.40E+03	1.60E-01	N
Benzidine	92-87-5			5.00E-04	C,M
Benzoic Acid	65-85-0			4.80E+04	N
Benzotrichloride	98-07-7		1.60E+02	4.90E-02	C
Benzyl Alcohol	100-51-6			6.20E+03	N
Benzyl Chloride	100-44-7		6.40E+01	3.80E+00	C
Beryllium and compounds	7440-41-7			3.20E+01	N
Bidrin	141-66-2			1.20E+00	N
Bifenox	42576-02-3			1.10E+02	N
Biphenthrin	82657-04-3			1.80E+02	N
Biphenyl, 1,1'-	92-52-4		2.60E+02	2.60E+02	Csat
Bis(2-chloroethoxy)methane	111-91-1			3.60E+01	N
Bis(2-chloroethyl)ether	111-44-4		3.30E+03	1.90E-01	C
Bis(2-chloro-1-methylethyl) ether	108-60-1		5.70E+02	3.50E+00	C
Bis(2-ethylhexyl)phthalate*	117-81-7			3.50E+01	C
Bis(chloromethyl)ether	542-88-1		2.80E+03	2.70E-04	C
Bisphenol A	80-05-7			6.20E+02	N
Boron And Borates Only	7440-42-8			3.20E+03	N
Boron Trifluoride	7637-07-2			2.00E+05	N
Bromate*	15541-45-4			9.10E-01	C
Bromodichloromethane*	75-27-4		9.90E+02	1.00E+01	C
Bromoform*	75-25-2			6.10E+01	C
Bromomethane	74-83-9		3.60E+03	1.60E+00	N
Bromophos	2104-96-3			6.20E+01	N
Bromoxynil	1689-84-5			2.40E+02	N
Bromoxynil Octanoate	1689-99-2			2.40E+02	N
Butadiene, 1,3-*	106-99-0		6.90E+02	7.70E-02	C
Butanol, N-	71-36-3			1.20E+03	N
Butyl Benzyl Phthlate	85-68-7			2.60E+02	C
Butylate	2008-41-5			6.20E+02	N

**INACTIVE HAZARDOUS SITES BRANCH
HEALTH-BASED SOIL REMEDIATION GOALS¹**

These health-based remediation goals must be used in conjunction with either the REC or State-Lead Guidance documents and apply only at sites with signed administrative agreements with the Division of Waste Management. In addition to these health-based goals, soils must also meet protection of groundwater remediation goals. If sensitive environments are present at a site, the branch may require the adjustment of remediation goals and/or the proposed remedial alternative.

Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Butylphthalyl Butylglycolate	85-70-1			1.20E+04	N
Cacodylic Acid	75-60-5			2.40E+02	N
Cadmium (Diet)	7440-43-9			1.40E+01	N
Caprolactam	105-60-2			6.20E+03	N
Captafol*	2425-06-1			3.20E+00	C
Captan*	133-06-2			2.10E+02	C
Carbaryl	63-25-2			1.20E+03	N
Carbazole	86-74-8			2.40E+01	C
Carbofuran	1563-66-2			6.20E+01	N
Carbon Disulfide	75-15-0	3	2.60E+02	1.30E+02	N
Carbon Tetrachloride*	56-23-5		4.80E+02	2.50E-01	C
Carbosulfan	55285-14-8			1.20E+02	N
Carboxin	5234-68-4			1.20E+03	N
Chloral Hydrate	302-17-0			1.20E+03	N
Chloramben	133-90-4			1.80E+02	N
Chloranil	118-75-2			1.20E+00	C
Chlordane*	57-74-9			1.60E+00	C
Chlordecone (Kepone)	143-50-0			3.00E-02	C
Chlorimuron, Ethyl-	90982-32-4			2.40E+02	N
Chlorine	7782-50-5			1.50E+03	N
Chlorine Dioxide	10049-04-4			4.60E+02	N
Chlorite (Sodium Salt)	7758-19-2			4.60E+02	N
Chloro-1,1-difluoroethane, 1-	75-68-3		1.20E+03	1.20E+03	Csat
Chloro-1,3-butadiene, 2-	126-99-8		8.20E+02	1.70E+00	N
Chloro-2-methylaniline HCl, 4-	3165-93-3			1.10E+00	C
Chloro-2-methylaniline, 4-	95-69-2			1.80E+00	C
Chloroacetic Acid	79-11-8			2.40E+01	N
Chloroacetophenone, 2-	532-27-4			8.60E+03	N
Chloroaniline, p-	106-47-8			4.80E+01	N
Chlorobenzene	108-90-7		8.60E+02	9.00E+00	C
Chlorobenzilate*	510-15-6			4.40E+00	C
Chlorobenzotrifluoride, 4-	98-56-6		5.50E+02	4.20E+01	N
Chlorobutane, 1-	109-69-3	3	7.90E+02	6.20E+02	N
Chlorodifluoromethane	75-45-6		1.70E+03	1.70E+03	Csat
Chloroform	67-66-3		2.70E+03	3.00E-01	C
Chloromethane*	74-87-3		1.40E+03	1.70E+00	C
Chloronaphthalene, Beta-	91-58-7		2.10E+02	2.10E+02	Csat
Chlorophenol, 2-	95-57-8		7.90E+04	7.80E+01	N
Chlorothalonil*	1897-45-6			1.60E+02	C
Chlorotoluene, o-	95-49-8	3	1.00E+03	3.20E+02	N
Chlorotoluene, p-	106-43-4		2.90E+02	2.90E+02	Csat
Chlorpropham	101-21-3			2.40E+03	N

**INACTIVE HAZARDOUS SITES BRANCH
HEALTH-BASED SOIL REMEDIATION GOALS¹**

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Chlorpyrifos	2921-88-2			3.60E+01	N
Chlorpyrifos Methyl	5598-13-0			1.20E+02	N
Chlorsulfuron	64902-72-3			6.20E+02	N
Chlorthiophos	60238-56-4			9.80E+00	N
Chromium (III) (Insoluble Salts)	16065-83-1			2.40E+04	N
Chromium VI (particulates)	18540-29-9			4.60E+01	N
Copper	7440-50-8			6.20E+02	N
Cresol, m-	108-39-4			6.20E+02	N
Cresol, o-	95-48-7			6.20E+02	N
Cresol, p-	106-44-5			6.20E+01	N
Crotonaldehyde, trans-	123-73-9		2.40E+04	3.40E-01	C
Cumene	98-82-8		3.10E+02	3.10E+02	Csat
Cyanazine*	21725-46-2			5.80E-01	C
Cyanides					
Calcium Cyanide	592-01-8			6.20E+02	N
Copper Cyanide	544-92-3			7.80E+01	N
Cyanide (CN-)	57-12-5			3.20E+02	N
Cyanogen	460-19-5			6.20E+02	N
Cyanogen Bromide	506-68-3			1.40E+03	N
Cyanogen Chloride	506-77-4			7.80E+02	N
Hydrogen Cyanide	74-90-8			3.20E+02	N
Potassium Cyanide	151-50-8			7.80E+02	N
Potassium Silver Cyanide	506-61-6			3.20E+03	N
Silver Cyanide	506-64-9			1.60E+03	N
Sodium Cyanide	143-33-9			6.20E+02	N
Thiocyanate	463-56-9		5.60E+03	3.20E+00	N
Zinc Cyanide	557-21-1			7.80E+02	N
Cyclohexane	110-82-7		1.20E+02	1.20E+02	Csat
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3			2.10E+01	C
Cyclohexanone	108-94-1			6.20E+04	N
Cyclohexylamine	108-91-8			2.40E+03	N
Cyhalothrin/karate	68085-85-8			6.20E+01	N
Cypermethrin	52315-07-8			1.20E+02	N
Cyromazine	66215-27-8			9.20E+01	N
Dacthal	1861-32-1			1.20E+02	N
Dalapon	75-99-0			3.60E+02	N
DDD	72-54-8			2.00E+00	C
DDE, p,p'-	72-55-9			1.40E+00	C
DDT*	50-29-3			1.70E+00	C
Decabromodiphenyl Ether	1163-19-5			8.60E+01	N
Demeton	8065-48-3			4.80E-01	N
Di(2-ethylhexyl)adipate*	103-23-1			4.00E+02	C

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Diallate	2303-16-4			8.00E+00	C
Diazinon	333-41-5			1.10E+01	N
Dibromo-3-chloropropane, 1,2-	96-12-8		1.10E+03	5.60E-03	C
Dibromobenzene, 1,4-	106-37-6			1.20E+02	N
Dibromochloromethane*	124-48-1		8.50E+02	5.80E+00	C
Dibromoethane, 1,2-	106-93-4		1.40E+03	3.40E-02	C
Dibromomethane (Methylene Bromide)	74-95-3		3.00E+03	1.60E+02	N
Dibutyl Phthalate	84-74-2			1.20E+03	N
Dibutyltin Compounds	NA			3.60E+00	N
Dicamba	1918-00-9			3.60E+02	N
Dichloro-2-butene, 1,4-	764-41-0		6.10E+02	3.20E-03	C
Dichloroacetic Acid*	79-43-6			9.70E+00	N
Dichlorobenzene, 1,2-	95-50-1		2.20E+02	2.20E+02	Csat
Dichlorobenzene, 1,4-	106-46-7			2.60E+00	C
Dichlorobenzidine, 3,3'-	91-94-1			1.10E+00	C
Dichlorodifluoromethane	75-71-8		8.50E+02	3.80E+01	N
Dichloroethane, 1,1-*	75-34-3		1.80E+03	3.40E+00	C
Dichloroethane, 1,2-	107-06-2		1.90E+03	4.50E-01	C
Dichloroethylene, 1,1-	75-35-4		1.20E+03	5.00E+01	N
Dichloroethylene, 1,2- (Mixed Isomers)	540-59-0		1.40E+03	1.40E+02	N
Dichloroethylene, 1,2-cis-	156-59-2		1.40E+03	1.60E+02	N
Dichloroethylene, 1,2-trans-	156-60-5		1.50E+03	2.20E+01	N
Dichlorophenol, 2,4-	120-83-2			3.60E+01	N
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7			1.40E+02	N
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6			9.80E+01	N
Dichloropropane, 1,2-*	78-87-5		1.50E+03	9.30E-01	C
Dichloropropane, 1,3-	142-28-9	3	1.60E+03	3.20E+02	N
Dichloropropanol, 2,3-	616-23-9			3.60E+01	N
Dichloropropene, 1,3-*	542-75-6		1.70E+03	1.70E+00	C
Dichlorvos*	62-73-7			1.70E+00	C
Dicyclopentadiene	77-73-6		5.90E+02	5.80E+00	N
Dieldrin*	60-57-1			3.00E-02	C
Diethyl Phthalate	84-66-2			9.80E+03	N
Diethylformamide	617-84-5			1.20E+01	N
Diethylstilbestrol	56-53-1			1.40E-03	C
Difenzoquat	43222-48-6			9.80E+02	N
Diflubenzuron	35367-38-5			2.40E+02	N
Difluoroethane, 1,1-	75-37-6		1.50E+03	1.50E+03	Csat
Diisopropyl Methylphosphonate	1445-75-6		4.30E+02	4.30E+02	Csat
Dimethipin	55290-64-7			2.40E+02	N
Dimethoate	60-51-5			2.40E+00	N
Dimethoxybenzidine, 3,3'-	119-90-4			3.50E+01	C

INACTIVE HAZARDOUS SITES BRANCH HEALTH-BASED SOIL REMEDIATION GOALS¹

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Dimethyl methylphosphonate*	756-79-6			2.90E+02	C
Dimethylaniline HCl, 2,4-	21436-96-4			8.40E-01	C
Dimethylaniline, 2,4-	95-68-1			6.50E-01	C
Dimethylaniline, N,N-	121-69-7		8.20E+02	3.20E+01	N
Dimethylformamide	68-12-2			1.20E+03	N
Dimethylphenol, 2,4-	105-67-9			2.40E+02	N
Dimethylphenol, 2,6-	576-26-1			7.40E+00	N
Dimethylphenol, 3,4-	95-65-8			1.20E+01	N
Dimethylterephthalate	120-61-6		6.10E+00	6.10E+00	Csat
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5			2.40E+01	N
Dinitrobenzene, 1,2-	528-29-0			1.20E+00	N
Dinitrobenzene, 1,3-	99-65-0			1.20E+00	N
Dinitrobenzene, 1,4-	100-25-4			1.20E+00	N
Dinitrophenol, 2,4-	51-28-5			2.40E+01	N
Dinitrotoluene Mixture, 2,4/2,6-*	25321-14-6			7.10E-01	C
Dinitrotoluene, 2,4-	121-14-2			2.40E+01	N
Dinitrotoluene, 2,6-	606-20-2			1.20E+01	N
Dinitrotoluene, 2-Amino-4,6-	35572-78-2			3.00E+01	N
Dinitrotoluene, 4-Amino-2,6-	19406-51-0			3.00E+01	N
Dinoseb	88-85-7			1.20E+01	N
Dioxane, 1,4-	123-91-1			4.40E+01	C
Dioxins		4			
Hexachlorodibenzo-p-dioxin	34465-46-8			4.50E-05	C
Hexachlorodibenzo-p-dioxin, Mixture	NA			9.40E-05	C
HpCDD, 2,3,7,8-	37871-00-4			4.50E-04	C
OCDD	3268-87-9			1.50E-02	C
PeCDD, 2,3,7,8-	36088-22-9			4.50E-06	C
TCDD, 2,3,7,8-*	1746-01-6			4.50E-06	C
Diphenamid	957-51-7			3.60E+02	N
Diphenylamine	122-39-4			3.00E+02	N
Diphenylhydrazine, 1,2-	122-66-7			6.10E-01	C
Diquat	85-00-7			2.60E+01	N
Direct Black 38	1937-37-7			6.60E-02	C
Direct Blue 6	2602-46-2			6.60E-02	C
Direct Brown 95	16071-86-6			7.20E-02	C
Disulfoton	298-04-4			4.80E-01	N
Dithiane, 1,4-	505-29-3			1.20E+02	N
Diuron	330-54-1			2.40E+01	N
Dodine	2439-10-3			4.80E+01	N
Endosulfan	115-29-7			7.40E+01	N
Endothall	145-73-3			2.40E+02	N
Endrin	72-20-8			3.60E+00	N

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Epichlorohydrin	106-89-8		8.40E+03	3.60E+00	N
Epoxybutane, 1,2-	106-88-7		1.20E+04	3.00E+01	N
EPTC ³	759-94-4		6.20E+02	4.00E+02	N
Ethephon	16672-87-0			6.20E+01	N
Ethion	563-12-2			6.20E+00	N
Ethoxyethanol Acetate, 2-	111-15-9			3.60E+03	N
Ethoxyethanol, 2-	110-80-5			4.80E+04	N
Ethyl Acetate	141-78-6		1.10E+04	1.10E+04	Csat
Ethyl Acrylate	140-88-5		2.60E+03	1.30E+01	C
Ethyl Chloride	75-00-3		2.20E+03	2.20E+03	Csat
Ethyl Ether ³	60-29-7		8.20E+03	3.20E+03	N
Ethyl Methacrylate	97-63-2		1.20E+03	1.20E+03	Csat
Ethyl-p-nitrophenyl Phosphonate	2104-64-5			1.20E-01	N
Ethylbenzene ³	100-41-4		5.50E+02	5.70E+00	C
Ethylene Cyanohydrin	109-78-4			3.60E+02	N
Ethylene Diamine	107-15-3			1.10E+03	N
Ethylene Glycol	107-21-1			2.40E+04	N
Ethylene Glycol Monobutyl Ether	111-76-2			6.20E+03	N
Ethylene Oxide	75-21-8		1.10E+05	1.60E-01	C
Ethylene Thiourea	96-45-7			9.80E-01	N
Ethylphthalyl Ethyl Glycolate	84-72-0			3.60E+04	N
Express	101200-48-0			9.80E+01	N
Fenamiphos	22224-92-6			3.00E+00	N
Fenpropathrin	39515-41-8			3.00E+02	N
Fluometuron	2164-17-2			1.60E+02	N
Fluorine (Soluble Fluoride)	7782-41-4			9.40E+02	N
Fluridone	59756-60-4			9.80E+02	N
Flurprimidol	56425-91-3			2.40E+02	N
Flutolanil	66332-96-5			7.40E+02	N
Fluvalinate	69409-94-5			1.20E+02	N
Folpet*	133-07-3			1.40E+02	C
Fomesafen	72178-02-0			2.60E+00	C
Fonofos	944-22-9			2.40E+01	N
Formaldehyde	50-00-0			2.40E+03	N
Formic Acid	64-18-6			2.40E+04	N
Fosetyl-AL	39148-24-8			3.60E+04	N
Furans		4			
Furan	110-00-9		6.80E+03	1.60E+01	N
HpCDF, 2,3,7,8-	38998-75-3			3.70E-04	C
HxCDF, 2,3,7,8-	55684-94-1			3.70E-05	C
OCDF	39001-02-0			1.20E-02	C
PeCDF, 1,2,3,7,8-	57117-41-6			1.20E-04	C

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
PeCDF, 2,3,4,7,8-	57117-31-4			1.20E-05	C
TCDF, 2,3,7,8-	51207-31-9			3.70E-05	C
Furazolidone	67-45-8			1.30E-01	C
Furfural	98-01-1			3.60E+01	N
Furium	531-82-8			3.20E-01	C
Furmecyclox	60568-05-0			1.60E+01	C
Glufosinate, Ammonium	77182-82-2			4.80E+00	N
Glycidyl	765-34-4			4.80E+00	N
Glyphosate	1071-83-6			1.20E+03	N
Goal	42874-03-3			3.60E+01	N
Haloxyfop, Methyl	69806-40-2			6.20E-01	N
Harmony	79277-27-3			1.60E+02	N
Heptachlor*	76-44-8			1.10E-01	C
Heptachlor Epoxide*	1024-57-3			5.30E-02	C
Hexabromobenzene	87-82-1			2.40E+01	N
Hexachlorobenzene*	118-74-1			3.00E-01	C
Hexachlorobutadiene*	87-68-3			6.20E+00	C
Hexachlorocyclohexane, Alpha-	319-84-6			7.70E-02	C
Hexachlorocyclohexane, Beta-	319-85-7			2.70E-01	C
Hexachlorocyclohexane, Gamma- (Lindane)*	58-89-9			5.20E-01	C
Hexachlorocyclohexane, Technical	608-73-1			2.70E-01	C
Hexachlorocyclopentadiene	77-47-4			7.40E+01	N
Hexachloroethane	67-72-1			1.20E+01	N
Hexachlorophene	70-30-4			3.60E+00	N
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)*	121-82-4			5.50E+00	C
Hexamethylene Diisocyanate, 1,6-	822-06-0		4.10E+03	7.40E-01	N
Hexane, N ³	110-54-3		1.40E+02	1.10E+02	N
Hexanedioic Acid	124-04-9			2.40E+04	N
Hexazinone	51235-04-2			4.00E+02	N
Hydrazine	302-01-2			2.10E-01	C
Hydrazine Sulfate	10034-93-2			2.10E-01	C
Hydrogen Chloride	7647-01-0			5.60E+06	N
Hydrogen Sulfide	7783-06-4			5.60E+05	N
Imazalil	35554-44-0			1.60E+02	N
Imazaquin	81335-37-7			3.00E+03	N
Iprodione	36734-19-7			4.80E+02	N
Iron	7439-89-6			1.10E+04	N
Isobutyl Alcohol ³	78-83-1		9.60E+03	4.60E+03	N
Isophorone*	78-59-1			5.10E+02	C
Isopropalin	33820-53-0			1.80E+02	N
Isopropyl Methyl Phosphonic Acid	1832-54-8			1.20E+03	N
Isoxaben	82558-50-7			6.20E+02	N

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Kerb	23950-58-5			9.20E+02	N
Lactofen	77501-63-4			2.40E+01	N
Lead Compounds					
Lead and Compounds	7439-92-1	5		4.00E+02	
Tetraethyl Lead	78-00-2			1.20E-03	N
Linuron	330-55-2			2.40E+01	N
Lithium Perchlorate	7791-03-9			1.10E+01	N
Londax	83055-99-6			2.40E+03	N
Malathion	121-75-5			2.40E+02	N
Maleic Anhydride	108-31-6			1.20E+03	N
Maleic Hydrazide	123-33-1			6.20E+03	N
Malononitrile	109-77-3			1.20E+00	N
Mancozeb	8018-01-7			3.60E+02	N
Maneb	12427-38-2			6.20E+01	N
Manganese (Water)	7439-96-5			3.60E+02	N
MCPA	94-74-6			6.20E+00	N
MCPB	94-81-5			1.20E+02	N
MCPD	93-65-2			1.20E+01	N
Mephosfolan	950-10-7			1.10E+00	N
Mepiquat Chloride	24307-26-4			3.60E+02	N
Mercury Compounds					
Mercuric Chloride	7487-94-7			4.60E+00	N
Mercuric Sulfide	1344-48-5			4.60E+00	N
Mercury (elemental)	7439-97-6	3	3.10E+00	1.30E+00	N
Mercury, Inorganic Salts	NA			4.60E+00	N
Methyl Mercury	22967-92-6			1.60E+00	N
Phenylmercuric Acetate	62-38-4			9.80E-01	N
Merphos	150-50-5			3.60E-01	N
Merphos Oxide	78-48-8			3.60E-01	N
Metalaxyl	57837-19-1			7.40E+02	N
Methacrylonitrile	126-98-7		4.50E+03	6.40E-01	N
Methamidophos	10265-92-6			6.20E-01	N
Methanol	67-56-1			6.20E+03	N
Methidathion	950-37-8			1.20E+01	N
Methomyl	16752-77-5			3.00E+02	N
Methoxy-5-nitroaniline, 2-	99-59-2			9.90E+00	C
Methoxychlor	72-43-5			6.20E+01	N
Methoxyethanol Acetate, 2-	110-49-6			2.40E+01	N
Methoxyethanol, 2-	109-86-4			3.60E+01	N
Methyl Acetate	79-20-9	3	2.90E+04	1.60E+04	N
Methyl Acrylate	96-33-3		6.90E+03	4.60E+02	N
Methyl Ethyl Ketone (2-Butanone)	78-93-3	3	2.80E+04	5.60E+03	N

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	3	3.20E+03	1.10E+03	N
Methyl Methacrylate	80-62-6	3	2.50E+03	9.40E+02	N
Methyl Parathion	298-00-0			3.00E+00	N
Methyl Styrene (Mixed Isomers)	25013-15-4		4.50E+02	3.80E+01	N
Methyl tert-Butyl Ether (MTBE)*	1634-04-4	3	6.90E+03	3.90E+01	C
Methyl-5-Nitroaniline, 2-	99-55-8			1.50E+01	C
Methylaniline Hydrochloride, 2-	636-21-5			3.70E+00	C
Methylarsonic acid	124-58-3			1.20E+02	N
Methylene Chloride*	75-09-2		3.50E+03	1.10E+01	C
Methylene-bis(2-chloroaniline), 4,4'-*	101-14-4	M		1.20E+00	C
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1			1.10E+01	C
Methylenebisbenzenamine, 4,4'-	101-77-9			3.00E-01	C
Methylenediphenyl Diisocyanate	101-68-8			1.70E-05	N
Methylstyrene, Alpha-	98-83-9		4.50E+02	4.50E+02	Csat
Metolachlor	51218-45-2			1.80E+03	N
Metribuzin	21087-64-9			3.00E+02	N
Mirex*	2385-85-5			2.70E-02	C
Molinate	2212-67-1			2.40E+01	N
Molybdenum	7439-98-7			7.80E+01	N
Monochloramine	10599-90-3			1.60E+03	N
Monomethylaniline	100-61-8			2.40E+01	N
N,N'-Diphenyl-1,4-benzenediamine	74-31-7			3.60E+00	N
Naled	300-76-5			2.40E+01	N
Napropamide	15299-99-7			1.20E+03	N
Nickel Refinery Dust	NA			1.40E+04	C
Nickel Soluble Salts	7440-02-0			3.20E+02	N
Nickel Subsulfide	12035-72-2			6.90E+03	C
Nitrate	14797-55-8			2.60E+04	N
Nitrite	14797-65-0			1.60E+03	N
Nitrobenzene	98-95-3		2.60E+03	6.20E+00	N
Nitrofurantoin	67-20-9			8.60E+02	N
Nitrofurazone	59-87-0			3.70E-01	C
Nitroglycerin	55-63-0			1.20E+00	N
Nitroguanidine	556-88-7			1.20E+03	N
Nitromethane*	75-52-5		1.70E+04	4.70E+00	C
Nitropropane, 2-	79-46-9		4.30E+03	1.20E-02	C
Nitroso-di-N-butylamine, N-	924-16-3		1.30E+04	9.30E-02	C
Nitroso-di-N-propylamine, N-	621-64-7			6.90E-02	C
Nitroso-N-ethylurea, N-	759-73-9			4.30E-03	C,M
Nitrosodiethanolamine, N-	1116-54-7			1.70E-01	C
Nitrosodiethylamine, N-	55-18-5			7.70E-04	C,M
Nitrosodimethylamine, N-*	62-75-9			2.30E-03	C,M

**INACTIVE HAZARDOUS SITES BRANCH
HEALTH-BASED SOIL REMEDIATION GOALS¹**

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Nitrosodiphenylamine, N-	86-30-6			9.90E+01	C
Nitrosomethylethylamine, N-	10595-95-6			2.20E-02	C
Nitrosopyrrolidine, N-	930-55-2			2.30E-01	C
Nitrotoluene, o-	88-72-2		1.30E+03	2.90E+00	C
Nitrotoluene, p-*	99-99-0			3.00E+01	C
Norflurazon	27314-13-2			4.80E+02	N
Nustar	85509-19-9			8.60E+00	N
Octabromodiphenyl Ether	32536-52-0			3.60E+01	N
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX)	2691-41-0			7.6E+02	N
Octamethylpyrophosphoramidate	152-16-9			2.40E+01	N
Oryzalin	19044-88-3			6.20E+02	N
Oxadiazon	19666-30-9			6.20E+01	N
Oxamyl	23135-22-0			3.00E+02	N
Paclobutrazol	76738-62-0			1.60E+02	N
Polynuclear Aromatic Hydrocarbons (PAHs)		7			
Acenaphthene	83-32-9			6.80E+02	N
Anthracene	120-12-7			3.40E+03	N
Benz[a]anthracene	56-55-3			1.50E-01	C,M
Benzo[a]pyrene	50-32-8			1.50E-02	C,M
Benzo[b]fluoranthene	205-99-2			1.50E-01	C,M
Benzo[k]fluoranthene	207-08-9			1.50E+00	C,M
Chrysene	218-01-9			1.50E+01	C,M
Dibenz[a,h]anthracene	53-70-3			1.50E-02	C,M
Fluoranthene	206-44-0			4.60E+02	N
Fluorene	86-73-7			4.60E+02	N
Indeno[1,2,3-cd]pyrene	193-39-5			1.50E-01	C,M
Methylnaphthalene, 1-	90-12-0	3	4.60E+02	2.20E+01	C
Methylnaphthalene, 2-	91-57-6	3	4.40E+02	6.20E+01	N
Naphthalene*	91-20-3			3.90E+00	C
Pyrene	129-00-0			3.40E+02	N
Paraquat Dichloride	1910-42-5			5.40E+01	N
Parathion	56-38-2			7.40E+01	N
Polychlorinated Biphenyls (PCBs)		7		1.00E+00	6
Pebulate	1114-71-2			6.20E+02	N
Pendimethalin	40487-42-1			4.80E+02	N
Pentabromodiphenyl Ether	32534-81-9			2.40E+01	N
Pentachlorobenzene	608-93-5			9.80E+00	N
Pentachloronitrobenzene*	82-68-8			1.90E+00	C
Pentachlorophenol*	87-86-5			3.00E+00	C
Perchlorate and Perchlorate Salts	14797-73-0			1.10E+01	N
Permethrin	52645-53-1			6.20E+02	N
Phenmedipham	13684-63-4			3.00E+03	N

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Phenol	108-95-2			3.60E+03	N
Phenylenediamine, m-	108-45-2			7.40E+01	N
Phenylenediamine, o-	95-54-5			1.00E+01	C
Phenylenediamine, p-	106-50-3			2.40E+03	N
Phenylphenol, 2-	90-43-7			2.50E+02	N
Phorate	298-02-2			2.40E+00	N
Phosgene	75-44-5		8.70E+04	8.00E-02	N
Phosmet	732-11-6			2.40E+02	N
Phosphine	7803-51-2			4.60E+00	N
Phosphoric Acid	7664-38-2			2.80E+06	N
Phosphorus, White	7723-14-0			3.20E-01	N
Phthalic Acid, P-	100-21-0			1.20E-04	N
Phthalic Anhydride	85-44-9			2.40E-04	N
Picloram	1918-02-1			8.60E+02	N
Pirimiphos, Methyl	29232-93-7			1.20E+02	N
Polybrominated Biphenyls*	59536-65-1			1.60E-02	C
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9			1.70E+05	N
Potassium Perchlorate	7778-74-7			1.10E+01	N
Prochloraz*	67747-09-5			3.20E+00	C
Profluralin	26399-36-0			7.40E+01	N
Prometon	1610-18-0			1.80E+02	N
Prometryn	7287-19-6			4.80E+01	N
Propachlor	1918-16-7			1.60E+02	N
Propanil	709-98-8			6.20E+01	N
Propargite	2312-35-8			2.40E+02	N
Propargyl Alcohol	107-19-7			2.40E+01	N
Propazine	139-40-2			2.40E+02	N
Propham	122-42-9			2.40E+02	N
Propiconazole	60207-90-1			1.60E+02	N
Propylene Glycol	57-55-6			2.40E+05	N
Propylene Glycol Dinitrate	6423-43-4		1.40E+03	1.20E+01	N
Propylene Glycol Monoethyl Ether	1569-02-4			8.60E+03	N
Propylene Glycol Monomethyl Ether	107-98-2			8.60E+03	N
Propylene Oxide*	75-56-9		6.80E+04	1.90E+00	C
Pursuit	81335-77-5			3.00E+03	N
Pydrin	51630-58-1			3.00E+02	N
Pyridine	110-86-1		3.00E+05	1.60E+01	N
Quinalphos	13593-03-8			6.20E+00	N
Quinoline	91-22-5			1.60E-01	C
Refractory Ceramic Fibers	NA			8.60E+06	N
Resmethrin	10453-86-8			3.60E+02	N
Ronnel	299-84-3			6.20E+02	N

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Rotenone	83-79-4			4.80E+01	N
Savey	78587-05-0			3.00E+02	N
Selenious Acid	7783-00-8			7.80E+01	N
Selenium	7782-49-2			7.80E+01	N
Selenourea	630-10-4			6.20E+01	N
Sethoxydim	74051-80-2			1.10E+03	N
Silver	7440-22-4			7.80E+01	N
Simazine*	122-34-9			4.00E+00	C
Sodium Acifluorfen	62476-59-9			1.60E+02	N
Sodium Azide	26628-22-8			6.20E+01	N
Sodium Diethyldithiocarbamate	148-18-5			1.80E+00	C
Sodium Fluoroacetate	62-74-8			2.40E-01	N
Sodium Metavanadate	13718-26-8			1.60E+01	N
Sodium Perchlorate	7601-89-0			1.10E+01	N
Stirofos (Tetrachlorovinphos)*	961-11-5			2.00E+01	C
Strontium, Stable	7440-24-6			9.40E+03	N
Strychnine	57-24-9			3.60E+00	N
Styrene	100-42-5		1.00E+03	1.00E+03	Csat
Systhane	88671-89-0			3.00E+02	N
TCMTB	21564-17-0			3.60E+02	N
Tebuthiuron	34014-18-1			8.60E+02	N
Temephos	3383-96-8			2.40E+02	N
Terbacil	5902-51-2			1.60E+02	N
Terbufos	13071-79-9			3.00E-01	N
Terbutryn	886-50-0			1.20E+01	N
Tetrachlorobenzene, 1,2,4,5-	95-94-3			3.60E+00	N
Tetrachloroethane, 1,1,1,2-	630-20-6		7.50E+02	2.00E+00	C
Tetrachloroethane, 1,1,2,2-	79-34-5		2.10E+03	5.90E-01	C
Tetrachloroethylene	127-18-4		1.80E+02	5.70E-01	C
Tetrachlorophenol, 2,3,4,6-	58-90-2			3.60E+02	N
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1			2.40E-02	C
Tetraethyl Dithiopyrophosphate	3689-24-5			6.20E+00	N
Tetrafluoroethane, 1,1,1,2-	811-97-2		8.20E+02	8.20E+02	Csat
Tetryl (Trinitrophenylmethylnitramine)	479-45-8			4.80E+01	N
Thallium (I) Nitrate	10102-45-1			1.40E+00	N
Thallium (Soluble Salts)	7440-28-0			1.00E+00	N
Thallium Acetate	563-68-8			1.40E+00	N
Thallium Carbonate	6533-73-9			1.30E+00	N
Thallium Chloride	7791-12-0			1.30E+00	N
Thallium Sulfate	7446-18-6			1.30E+00	N
Thiobencarb	28249-77-6			1.20E+02	N
Thiofanox	39196-18-4			3.60E+00	N

**INACTIVE HAZARDOUS SITES BRANCH
HEALTH-BASED SOIL REMEDIATION GOALS¹**

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Thiophanate, Methyl	23564-05-8			9.80E+02	N
Thiram	137-26-8			6.20E+01	N
Tin	7440-31-5			9.40E+03	N
Toluene	108-88-3		9.30E+02	9.30E+02	Csat
Toluene diisocyanate mixture (TDI)	26471-62-5		2.10E+03	1.10E+01	N
Toluene-2,4-diamine	95-80-7			1.30E-01	C
Toluene-2,5-diamine	95-70-5			7.40E+03	N
Toluene-2,6-diamine	823-40-5			3.60E+02	N
Toluidine, o- (Methylaniline, 2-)	95-53-4			2.70E+00	C
Toluidine, p-	106-49-0			2.60E+00	C
Toxaphene	8001-35-2			4.40E-01	C
Tralomethrin	66841-25-6			9.20E+01	N
Triallate	2303-17-5			1.60E+02	N
Triasulfuron	82097-50-5			1.20E+02	N
Tribromobenzene, 1,2,4-	615-54-3			6.20E+01	N
Tributyltin Compounds	NA			3.60E+00	N
Tributyltin Oxide	56-35-9			3.60E+00	N
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1		9.40E+02	9.40E+02	Csat
Trichloroaniline HCl, 2,4,6-	33663-50-2			1.70E+01	C
Trichloroaniline, 2,4,6-	634-93-5			1.40E+01	C
Trichlorobenzene, 1,2,4-*	120-82-1	3	2.20E+02	1.74E+01	N
Trichloroethane, 1,1,1-	71-55-6		6.80E+02	6.80E+02	Csat
Trichloroethane, 1,1,2-*	79-00-5		5.60E+02	1.10E+00	C
Trichloroethylene	79-01-6		7.50E+02	2.80E+00	C
Trichlorofluoromethane	75-69-4		1.30E+03	1.60E+02	N
Trichlorophenol, 2,4,5-	95-95-4			1.20E+03	N
Trichlorophenol, 2,4,6-*	88-06-2			1.20E+01	N
Trichlorophenoxy) Propionic Acid, 2(2,4,5-	93-72-1			9.80E+01	N
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5			1.20E+02	N
Trichloropropane, 1,1,2-	598-77-6		1.40E+03	7.80E+01	N
Trichloropropane, 1,2,3-	96-18-4		1.60E+03	9.10E-02	C
Tridiphane	58138-08-2			3.60E+01	N
Triethylamine	121-44-8		5.50E+04	3.40E+01	N
Trifluralin*	1582-09-8			6.30E+01	C
Trimethyl Phosphate	512-56-1			1.30E+01	N
Trimethylbenzene, 1,2,4-	95-63-6		2.50E+02	1.30E+01	N
Trinitrobenzene, 1,3,5-	99-35-4			4.40E+02	N
Trinitrotoluene, 2,4,6-*	118-96-7			1.90E+01	C
Tri-n-butyltin	688-73-3			3.60E+00	N
Uranium (Soluble Salts)	NA			4.60E+01	N
Vanadium Pentoxide	1314-62-1			1.40E+02	N
Vanadium Sulfate	36907-42-3			3.20E+02	N

INACTIVE HAZARDOUS SITES BRANCH HEALTH-BASED SOIL REMEDIATION GOALS¹

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Contaminant	CASRN	Foot note	Csat (mg/kg)	RG (ppm) (mg/kg)	See footnote 8
Vanadium and Compounds	NA			7.80E+01	N
Vanadium, Metallic	7440-62-2			1.10E+02	N
Vanadyl Sulfate	27774-13-6			3.20E+02	N
Vernolate	1929-77-7			1.20E+01	N
Vinclozolin	50471-44-8			3.00E+02	N
Vinyl Acetate	108-05-4		2.80E+03	2.00E+02	N
Vinyl Bromide	593-60-2		1.70E+03	1.10E-01	C
Vinyl Chloride	75-01-4		4.00E+03	6.00E-02	C,M
Warfarin	81-81-2			3.60E+00	N
Xylene, Mixture	1330-20-7	3	3.00E+02	1.20E+02	N
Xylene, P-	106-42-3		4.50E+02	4.50E+02	Csat
Xylene, m-	108-38-3		4.40E+02	4.40E+02	Csat
Xylene, o-	95-47-6		3.00E+02	3.00E+02	Csat
Zinc (Metallic)	7440-66-6			4.60E+03	N
Zinc Phosphide	1314-84-7			4.60E+00	N
Zineb	12122-67-7			6.20E+02	N

- * - Contaminant exhibits both carcinogenic and non-carcinogenic effects. The lower of the carcinogenic remediation goal at 1.0E-06 risk or the non-carcinogenic remediation goal at a hazard quotient of 0.2 is listed.
- 1 - Adapted from the 2008 USEPA Regional Screening Tables. Cleanup below method detection limits using analytical methods prescribed in the guidelines, is not required.
- 2 - The arsenic value is the non-carcinogenic value because the carcinogenic value is below the laboratory method detection limit (MDL).
- 3 - When adjusting the remediation goals for a chemical as described in appendix E of the REC guidelines, its Soil Saturation Concentration (Csat) must not be exceeded unless protection of groundwater concentration have been met.
- 4 - Remediation goals for dioxins and furans can also be calculated as a toxic equivalency concentration (TEQ) by using the toxicity equivalence factor (TEF) methodology. (See TEF table for dioxins and furans.)
- 5 - The RG is based on USEPA guidance on lead cleanup levels. The value cannot be adjusted.
- 6 - Remediation goals for carcinogenic PAHs can also be calculated as a toxic equivalency concentration (TEQ) by using the toxicity equivalence factor (TEF) methodology. (See TEF table for carcinogenic PAHs.)
- 7 - The RG is based on USEPA policy for cleanup of PCBs at Superfund Sites. The Branch is currently reviewing the PCB remediation goal policy and may issue further guidance at a later date.
- 8 - C - The RG is based on the carcinogenic endpoint and corresponds to an excess lifetime cancer risk of 1 in 1,000,000.
N - The RG is based on the non-carcinogenic endpoint and corresponds to a hazard quotient of 0.2.
M - Contaminant is a mutagen.
Csat - Soil Saturation Concentration.
- NA- Not available.

**INACTIVE HAZARDOUS SITES BRANCH
Toxic Equivalent Factor Tables for Calculation of Soil Remediation Goals**

Toxic Equivalent Factor (TEF) Table for Dioxins and Furans

CHEMICAL	CASRN	TEF*
Dioxins and Furans⁴		
CDDs		
2,3,7,8-TetraCDD		1
1,2,3,7,8-PentaCDD		1
1,2,3,4,7,8-HexaCDD		0.1
1,2,3,6,7,8-HexaCDD		0.1
1,2,3,7,8,9-HexaCDD		0.1
1,2,3,4,6,7,8-HeptaCDD		0.01
1,2,3,4,6,7,8,9-OctaCDD		0.0003
CDFs		
2,3,7,8-TetraCDF		0.1
1,2,3,7,8-PentaCDF		0.03
2,3,4,7,8-PentaCDF		0.3
1,2,3,4,7,8-HexaCDF		0.1
1,2,3,6,7,8-HexaCDF		0.1
1,2,3,7,8,9-HexaCDF		0.1
2,3,4,6,7,8-HexaCDF		0.1
1,2,3,4,6,7,8-HeptaCDF		0.01
1,2,3,4,7,8,9-HeptaCDF		0.01
1,2,3,4,6,7,8,9-OctaCDF		0.0003

Toxic Equivalent Factor (TEF) Table for Carcinogenic Polyaromatic Hydrocarbons (PAHs)

CHEMICAL	CASRN	TEF*
Polynuclear aromatic hydrocarbons⁶		
Benzo[a]pyrene	50328	1.0
Benzo[b]fluoranthene	205992	0.1
Benzo[k]fluoranthene	207089	0.01
Benz[a]anthracene	56553	0.1
Chrysene	218019	0.001
Dibenz[a,h]anthracene	53703	1.0
Indeno(1,2,3-cd)pyrene	193395	0.1

*These toxic equivalent factors (TEF) are to be used as per footnotes 4 and 6 on the previous page.

REFERENCE 10

POLLUTION INCIDENT/U.S.T. LEAK REPORTING FORM

Department of Environment, Health, Natural Resources
 Division of Environmental Management
 GROUNDWATER SECTION

Confirm. GW Contamination (Y/N)
 Major Soil Contamination (Y/N)
 Minor Soil Contaminatin (Y/N)

Incident # 12874
 Date Incident Occurred
 or Leak Detected 7/19/94

INCIDENT DESCRIPTION

Incident Location/Name Triangle Machine & Electronics Co.
 Address 705 North Main Street
 City/Town Kernersville County Forsyth Region Winston-Salem
 Briefly Describe Incident An initial investigative report for the facility was submitted to the WSPD on Jul 19, 1994. The report contained the laboratory results of a groundwater sample collected from a monitoring well installed at the facility. The results indicated the presence of chlorinated hydrocarbons in concentrations exceeding 2L standards.

POTENTIAL SOURCE OWNER-OPERATOR

Potential Source Owner-Operator Joseph J. Kollar Telephone (910) 993-3231
 Company Triangle Machine & Electronics Co. Street Address 113 Court St.
 City Kernersville County Forsyth State NC Zip Code 27284

OWNERSHIP
 0. N/A 1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State
OPERATION TYPE
 0. N/A 1. Public Service 2. Agricultural 3. Residential 4. Educational/Relig. 5. Industrial 6. Commercial 7. Mining

POLLUTANTS INVOLVED

MATERIALS INVOLVED	AMOUNT LOST	AMOUNT RECOVERED
<u>Chlorinated Hydrocarbons</u>	<u>N/A</u>	<u>N/A</u>

SOURCE OF POLLUTION

PRIMARY SOURCE OF POLLUTION (Select one)	PRIMARY POLLUTANT TYPE (Select one)	LOCATION	SETTING
<input checked="" type="radio"/> 1. Intentional dump	1. Pesticide/herbicide	<input checked="" type="radio"/> 1. Facility	1. Residential
2. Pit, pond, lagoon	2. Radioactive waste	2. Railroad	<input checked="" type="radio"/> 2. Industrial
3. Leak-underground	3. Gasoline/diesel	3. Waterway	3. Urban
4. Spray irrigation	4. Heating oil	4. Pipeline	4. Rural
5. Land application	5. Other petroleum prod.	5. Dumpsite	
6. Animal feedlot	6. Sewage/septage	6. Highway	
7. Source unknown	7. Fertilizers	7. Residence	
8. Septic tank	8. Sludge	8. Other	
9. Sewer line	9. Solid waste leachate		
10. Stockpile	<input checked="" type="radio"/> 10. Metals		
11. Landfill	11. Other inorganics		
12. Spill-surface	<input checked="" type="radio"/> 12. Other organics		

Site Priority Ranking 50E

D.E.M. Regional Contact Stephen Williams Signature Stephen Williams Date 10/13/94

IMPACT ON DRINKING WATER SUPPLY

WELLS AFFECTED 1. YES 2. NO

NUMBER OF WELLS AFFECTED _____

Well(s) Contaminated: (Users Name)

1.

2.

3.

4.

5.

Circle Appropriate Responses

Lab Samples Taken By:

1. DEM

2. DHS

3. Responsible Party

4. Other

5. None

Samples Taken Include:

1. Groundwater

2. Soil

LOCATION OF INCIDENT

7 1/2 Min. Quad Name

Lat. : Deg : Min : Sec :

5 Min. Quad Number

Long. : Deg : Min : Sec :

Draw Sketch of Area or Attach Additional Maps

REFERENCE 11

State of North Carolina
Department of Environment,
Health and Natural Resources
Winston-Salem Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Leesha Fuller, Regional Manager



NOTICE OF VIOLATION OF N.C.A.C. TITLE 15A SUBCHAPTER 2L
CLASSIFICATIONS AND WATER QUALITY STANDARDS
APPLICABLE TO THE GROUNDWATERS OF NORTH CAROLINA

October 17, 1994

CERTIFIED MAIL NUMBER: P-536 301 354
RETURN RECEIPT REQUESTED

Joseph J. Kollar
Triangle Machine & Electronics Co.
113 Corum Street
Kernersville, NC 27284

SUBJECT: Triangle Machine & Electronics Co., 705 North Main Street, Kernersville,
Forsyth County

Dear Mr. Kollar:

Chapter 143, North Carolina General Statutes, authorizes and directs the Environmental Management Commission of the Department of Environment, Health, and Natural Resources to protect and preserve the water and air resources of the State. The Division of Environmental Management has the delegated authority to enforce adopted pollution control rules and regulations.

The purpose of N.C.A.C. Title 15A Subchapter 2L is to maintain and preserve the quality of the groundwaters, prevent and abate pollution and contamination of the waters of the State, protect public health, and permit management of the groundwaters for their best usage by the citizens of North Carolina.

The Winston-Salem Regional Office of the North Carolina Division of Environmental Management received a report of investigation for the subject location on July 19, 1994. The report contained the laboratory results of a groundwater sample that was collected from a

Triangle Machine & Electronics Co.

October 17, 1994

page 2

monitoring well that was installed at the facility. The results indicated the presence of the following chlorinated hydrocarbons (parts per billion): 1,1-Dichloroethene at 190 ppb, Tetrachloroethene at 320 ppb, 1,1,1-Trichloroethane at 1,000 ppb, and Trichloroethene at 110 ppb.

These contaminant concentrations exceed the maximum allowable concentrations for such substances as specified in N.C.A.C. Title 15A 2L .0202. Therefore, they are in violation of the water quality standards for the groundwaters of the State. Please reference the following excerpt from Subchapter 2L which specifies corrective action as follows:

N.C.A.C. Title 15A 2L .0106 Corrective Action

- (a) *Where groundwater quality has been degraded, the goal of any required corrective action shall be restoration to the level of the standards, or as closely thereto as is economically and technologically feasible. In all cases involving requests to the Director for approval of corrective action plans, or termination of corrective action, the responsibility for providing all information required by this Rule lies with the person(s) making the request.*
- (b) *Any person conducting or controlling an activity which results in the discharge of a waste or hazardous substance or oil to the groundwaters of the State, or in proximity thereto, shall take immediate action to terminate and control the discharge, mitigate any hazards resulting from exposure to the pollutants and notify the Department of the discharge.*
- (c) *Any person conducting or controlling an activity which has not been permitted by the Division and which results in an increase in the concentration of a substance in excess of the standard, other than agricultural operations, shall:*
 - (1) *immediately notify the Division of the activity that has resulted in the increase and the contaminant concentration levels;*

Triangle Machine & Electronics Co.
October 17, 1994
page 3

- (2) *take immediate action to eliminate the source or sources of contamination;*
- (3) *submit a report to the Director assessing the cause, significance and extent of the violation; and*
- (4) *implement an approved corrective action plan for restoration of groundwater quality in accordance with a schedule established by the Director, or his designee.*

It is our understanding that you and/or your firm are responsible for the aforementioned violations. Subsequently, you are considered as the party responsible for eliminating the source of contamination and restoring groundwater quality.

You are required to submit a comprehensive site assessment which describes the full vertical and horizontal extent of the contamination. An adequate report must be received by this office on or before 90 days after receipt of this notice. A corrective action plan should be submitted to this office within sixty (60) days after submitting a comprehensive site assessment.

It is requested that within fifteen (15) days, you submit a written response describing your plans to achieve compliance. Should you dispute our assessment of responsibility, please include documentation of your position in your response.

Failure to submit the report required or failure to expeditiously eliminate the contaminant source and restore groundwater quality in the affected area may result in the recommendation of enforcement action including: (1) the issuance of a special order against you under the authority of G.S. 143-215.2, (2) a request to the Attorney General to institute an action for injunctive relief and (3) a civil penalty of up to \$10,000 per day in accordance with G.S. 143-215.6.

Submittal of the above referenced report(s) does not relieve you of the responsibility for continued investigation and cleanup at this site.

Triangle Machine & Electronics Co.
October 17, 1994
page 4

Please do not hesitate to contact Stephen Williams regarding any questions you may have about this matter.

Sincerely,

Larry D. Coble

Larry D. Coble
Regional Supervisor

LDC/sbw

Enclosure

cc: Incident Management Unit
✓ WSRO Files
Forsyth County Health Department

Is your RETURN ADDRESS completed on the reverse side?	SENDER: <ul style="list-style-type: none">• Complete items 1 and/or 2 for additional services.• Complete items 3, and 4a & b.• Print your name and address on the reverse of this form so that we can return this card to you.• Attach this form to the front of the mailpiece, or on the back if space does not permit.• Write "Return Receipt Requested" on the mailpiece below the article number.• The Return Receipt will show to whom the article was delivered and the date delivered.	I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
	3. Article Addressed to: <i>Joseph J Kollar Triangle Machine + Elect. 113 Corum St. Kernersville NC 27284</i>	4a. Article Number <i>Q-536 301 354</i>
	4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
	5. Signature (Addressee) <i>Mark S Johnston</i>	7. Date of Delivery <i>10-21-94</i>
	6. Signature (Agent)	8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 *U.S. GPO: 1993-352-714

DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

45E T0E 9E5-d

REFERENCE 12

February 13, 2009

MEMO

To: File

From: Melanie Bartlett

Melanie Bartlett

Subject: Triangle Machine & Electronics
Kernersville, Forsyth County, NC
Wetlands

Information concerning wetlands was obtained at the following location:

<http://www.fws.gov/wetlands/Data/Mapper.html>

The nearest HRS-qualifying wetland is located along Reedy Fork Creek, approximately 1.5 miles downstream from the PPE for the site.

Triangle Machine and Electronic Co



Legend

- Ohio_wet_scan**
- 0
 - 1
 - Out of range
- Interstate**
- Major Roads**
- Other Road
 - Interstate
 - State highway
 - US highway
 - Roads
- Cities**
- USGS Quad Index 24K**
- Lower 48 Wetland Polygons**
- Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
- Lower 48 Available Wetland Data**
- Non-Digital
 - Digital
 - No Data
 - Scan
- NHD Streams**
- Counties 100K
 - States 100K
 - South America
 - North America

Map center: 36° 7' 41" N, 80° 3' 5" W



Scale: 1:20,000

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

REFERENCE 13

February 10, 2009

MEMO

To: File

From: Melanie Bartlett *Melanie Bartlett*

Subject: Triangle Machine & Electronics
Kernersville, Forsyth County, NC
Community Wells/Surface Water Intakes

Review of the NC Source Water Assessment Program Database (http://swap.deh.enr.state.nc.us/Swap_app/viewer.htm) shows several community wells present in the areas north and northeast of the site. In addition, no surface water intakes appear along the probable 15-mile surface water pathway for the site.

REFERENCE 14

March 5, 2009

MEMO

To: File

From: Melanie Bartlett *Melanie Bartlett*

Subject: Triangle Machine & Electronic Co.
Kernersville, Forsyth County, NC
Somerset MHP Wells

Today I spoke with Dave McCartney of the NC PWS Section concerning the above-mentioned wells. According to their records (PWSID# 0234134), wells for this system have shown no VOCs detected during their last sampling events. The most recent, in December 2008, were clean for all VOCs for Well #2 (the nearest well to the site). The well is 200' deep and is on annual sampling for VOCs at the source.

County Map of NC		Water System Search		Help	
Water System Detail Information					
Water System No.:	NC0234179	Federal Type:	C		
Water System Name:	APPLEGATE WATER SYSTEM	Federal Source:	GW		
Principal County Served:	FORSYTH	System Status:	A		
Principal City Served:	KERNERSVILLE	Activity Date:	09-01-1976		

Sample Number: C717283-01

Other Chemical Sample Results							
Analyte Code	Analyte Name	Method	Less Than Ind.	Level Type	Reporting Level	Concentration	MP
2986	1,1,1,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2981	1,1,1-TRICHLOROETHANE		<	MDL	.0005 MG/L		
2988	1,1,2,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2985	1,1,2-TRICHLOROETHANE		<	MDL	.0005 MG/L		
2978	1,1-DICHLOROETHANE		<	MDL	.0005 MG/L		
2977	1,1-DICHLOROETHYLENE		<	MDL	.0005 MG/L		
2410	1,1-DICHLOROPROPENE		<	MDL	.0005 MG/L		
2420	1,2,3-TRICHLOROBENZENE		<	MDL	.0005 MG/L		
2414	1,2,3-TRICHLOROPROPANE		<	MDL	.0005 MG/L		
2378	1,2,4-TRICHLOROBENZENE		<	MDL	.0005 MG/L		
2418	1,2,4-TRIMETHYLBENZENE		<	MDL	.0005 MG/L		
2980	1,2-DICHLOROETHANE		<	MDL	.0005 MG/L		
2983	1,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2424	1,3,5-TRIMETHYLBENZENE		<	MDL	.0005 MG/L		
2412	1,3-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2413	1,3-DICHLOROPROPENE		<	MDL	.0005 MG/L		
2416	2,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2990	BENZENE		<	MDL	.0005 MG/L		
2993	BROMOBENZENE		<	MDL	.0005 MG/L		
2430	BROMOCHLOROMETHANE		<	MDL	.0005 MG/L		
2943	BROMODICHLOROMETHANE		<	MDL	.0005 MG/L		
2942	BROMOFORM		<	MDL	.0005 MG/L		
2214	BROMOMETHANE		<	MDL	.0005 MG/L		
2982	CARBON TETRACHLORIDE		<	MDL	.0005 MG/L		
2989	CHLOROBENZENE		<	MDL	.0005 MG/L		
2216	CHLOROETHANE		<	MDL	.0005 MG/L		
2941	CHLOROFORM		<	MDL	.0005 MG/L		
2210	CHLOROMETHANE		<	MDL	.0005 MG/L		
2380	CIS-1,2-DICHLOROETHYLENE		<	MDL	.0005 MG/L		

2944	DIBROMOCHLOROMETHANE	<	MDL	.0005 MG/L		
2408	DIBROMOMETHANE	<	MDL	.0005 MG/L		
2212	DICHLORODIFLUOROMETHANE	<	MDL	.0005 MG/L		
2964	DICHLOROMETHANE	<	MDL	.0005 MG/L		
2992	ETHYLBENZENE	<	MDL	.0005 MG/L		
2246	HEXACHLOROBUTADIENE	<	MDL	.0005 MG/L		
2994	ISOPROPYLBENZENE	<	MDL	.0005 MG/L		
2967	M-DICHLOROBENZENE	<	MDL	.0005 MG/L		
2251	METHYL TERT-BUTYL ETHER	<	MDL	.0005 MG/L		
2422	N-BUTYLBENZENE	<	MDL	.0005 MG/L		
2998	N-PROPYLBENZENE	<	MDL	.0005 MG/L		
2248	NAPHTHALENE	<	MDL	.0005 MG/L		
2965	O-CHLOROTOLUENE	<	MDL	.0005 MG/L		
2968	O-DICHLOROBENZENE	<	MDL	.0005 MG/L		
2966	P-CHLOROTOLUENE	<	MDL	.0005 MG/L		
2969	P-DICHLOROBENZENE	<	MDL	.0005 MG/L		
2030	P-ISOPROPYLTOLUENE	<	MDL	.0005 MG/L		
2428	SEC-BUTYLBENZENE	<	MDL	.0005 MG/L		
2996	STYRENE	<	MDL	.0005 MG/L		
2426	TERT-BUTYLBENZENE	<	MDL	.0005 MG/L		
2987	TETRACHLOROETHYLENE	<	MDL	.0005 MG/L		
2991	TOLUENE	<	MDL	.0005 MG/L		
2979	TRANS- 1,2-DICHLOROETHYLENE	<	MDL	.0005 MG/L		
2984	TRICHLOROETHYLENE	<	MDL	.0005 MG/L		
2218	TRICHLOROFUOROMETHANE	<	MDL	.0005 MG/L		
2976	VINYL CHLORIDE	<	MDL	.0005 MG/L		
2955	XYLENES, TOTAL	<	MDL	.0005 MG/L		

County Map of NC		Water System Search		Help	
Water System Detail Information					
Water System No.:	NC0234167	Federal Type:	C		
Water System Name:	MCBRIDE'S MHP	Federal Source:	GW		
Principal County Served:	FORSYTH	System Status:	A		
Principal City Served:	KERNERSVILLE	Activity Date:	06-01-1970		

Sample Number: 583873V

Other Chemical Sample Results							
Analyte Code	Analyte Name	Method	Less Than Ind.	Level Type	Reporting Level	Concentration	MP
2986	1,1,1,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2981	1,1,1-TRICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2988	1,1,2,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2985	1,1,2-TRICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2978	1,1-DICHLOROETHANE		<	MDL	.0005 MG/L		
2977	1,1-DICHLOROETHYLENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2410	1,1-DICHLOROPROPENE		<	MDL	.005 MG/L		
2420	1,2,3-TRICHLOROBENZENE		<	MDL	.0005 MG/L		
2414	1,2,3-TRICHLOROPROPANE		<	MDL	.0005 MG/L		
2378	1,2,4-TRICHLOROBENZENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2418	1,2,4-TRIMETHYLBENZENE		<	MDL	.0005 MG/L		
2980	1,2-DICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2983	1,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2424	1,3,5-TRIMETHYLBENZENE		<	MDL	.0005 MG/L		
2412	1,3-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2413	1,3-DICHLOROPROPENE		<	MDL	.0005 MG/L		
2416	2,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2990	BENZENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2993	BROMOBENZENE		<	MDL	.0005 MG/L		
2430	BROMOCHLOROMETHANE		<	MDL	.0005 MG/L		
2943	BROMODICHLOROMETHANE		<	MDL	.001 MG/L		
2942	BROMOFORM		<	MDL	.001 MG/L		
2214	BROMOMETHANE		<	MDL	.0005 MG/L		

2982	CARBON TETRACHLORIDE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2989	CHLOROBENZENE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2216	CHLOROETHANE	<	MDL	.0005 MG/L	
2941	CHLOROFORM	<	MDL	.001 MG/L	
2210	CHLOROMETHANE	<	MDL	.0005 MG/L	
2380	CIS-1,2-DICHLOROETHYLENE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2944	DIBROMOCHLOROMETHANE	<	MDL	.001 MG/L	
2408	DIBROMOMETHANE	<	MDL	.0005 MG/L	
2212	DICHLORODIFLUOROMETHANE	<	MDL	.0005 MG/L	
2964	DICHLOROMETHANE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2992	ETHYLBENZENE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2246	HEXACHLORO BUTADIENE	<	MDL	.0005 MG/L	
2994	ISOPROPYLBENZENE	<	MDL	.0005 MG/L	
2967	M-DICHLOROBENZENE	<	MDL	.0005 MG/L	
2422	N-BUTYLBENZENE	<	MDL	.0005 MG/L	
2998	N-PROPYLBENZENE	<	MDL	.0005 MG/L	
2248	NAPHTHALENE	<	MDL	.0005 MG/L	
2965	O-CHLOROTOLUENE	<	MDL	.0005 MG/L	
2968	O-DICHLOROBENZENE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2966	P-CHLOROTOLUENE	<	MDL	.0005 MG/L	
2969	P-DICHLOROBENZENE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2030	P-ISOPROPYLTOLUENE	<	MDL	.0005 MG/L	
2428	SEC-BUTYLBENZENE	<	MDL	.0005 MG/L	
2996	STYRENE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2426	TERT-BUTYLBENZENE	<	MDL	.0005 MG/L	
2987	TETRACHLOROETHYLENE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2991	TOLUENE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2979	TRANS-1,2-DICHLOROETHYLENE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2984	TRICHLOROETHYLENE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2218	TRICHLOROFUOROMETHANE	<	MDL	.0005 MG/L	
2976	VINYL CHLORIDE	<	MDL	.0005 MG/L	01-01-2005 12-31-2007
2955	XYLENES, TOTAL	<	MDL	.0005 MG/L	01-01-2005 12-31-2007

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Principal County Served:	FORSYTH	System Status:	A		
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Sample Number: 583871V

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2986	1,1,1,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2981	1,1,1-TRICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2988	1,1,2,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2985	1,1,2-TRICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2978	1,1-DICHLOROETHANE		<	MDL	.0005 MG/L		
2977	1,1-DICHLOROETHYLENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
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2980	1,2-DICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2983	1,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
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2993	BROMOBENZENE		<	MDL	.0005 MG/L		
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2942	BROMOFORM		<	MDL	.001 MG/L		
2214	BROMOMETHANE		<	MDL	.0005 MG/L		

2982	CARBON TETRACHLORIDE		≤	MDL	.0005 MG/L		01-01-2005 12-31-2007
2989	CHLOROBENZENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2216	CHLOROETHANE		<	MDL	.0005 MG/L		
2941	CHLOROFORM					.0026 MG/L	
2210	CHLOROMETHANE		≤	MDL	.0005 MG/L		
2380	CIS-1,2-DICHLOROETHYLENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
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2964	DICHLOROMETHANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2992	ETHYLBENZENE		≤	MDL	.0005 MG/L		01-01-2005 12-31-2007
2246	HEXACHLORO BUTADIENE		<	MDL	.0005 MG/L		
2994	ISOPROPYLBENZENE		<	MDL	.0005 MG/L		
2967	M-DICHLOROBENZENE		<	MDL	.0005 MG/L		
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2968	O-DICHLOROBENZENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
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2969	P-DICHLOROBENZENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
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2996	STYRENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
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2987	TETRACHLOROETHYLENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
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2984	TRICHLOROETHYLENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2218	TRICHLOROFLUOROMETHANE		<	MDL	.0005 MG/L		
2976	VINYL CHLORIDE		<	MDL	.0005 MG/L		01-01-2005 12-31-2007
2955	XYLENES, TOTAL		<	MDL	.0005 MG/L		01-01-2005 12-31-2007

County Map of NC		Water System Search		Help	
Water System Detail Information					
Water System No.:	NC0234179	Federal Type:	C		
Water System Name:	APPLEGATE WATER SYSTEM	Federal Source:	GW		
Principal County Served:	FORSYTH	System Status:	A		
Principal City Served:	KERNERSVILLE	Activity Date:	09-01-1976		

Sample Number: C717284-01

Other Chemical Sample Results							
Analyte Code	Analyte Name	Method	Less Than Ind.	Level Type	Reporting Level	Concentration	MP
2986	1,1,1,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2981	1,1,1-TRICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2988	1,1,2,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2985	1,1,2-TRICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2978	1,1-DICHLOROETHANE		<	MDL	.0005 MG/L		
2977	1,1-DICHLOROETHYLENE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2410	1,1-DICHLOROPROPENE		<	MDL	.0005 MG/L		
2420	1,2,3-TRICHLOROBENZENE		<	MDL	.0005 MG/L		
2414	1,2,3-TRICHLOROPROPANE		<	MDL	.0005 MG/L		
2378	1,2,4-TRICHLOROBENZENE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2418	1,2,4-TRIMETHYLBENZENE		<	MDL	.0005 MG/L		
2980	1,2-DICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2983	1,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2424	1,3,5-TRIMETHYLBENZENE		<	MDL	.0005 MG/L		
2412	1,3-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2413	1,3-DICHLOROPROPENE		<	MDL	.0005 MG/L		
2416	2,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2990	BENZENE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2993	BROMOBENZENE		<	MDL	.0005 MG/L		
2430	BROMOCHLOROMETHANE		<	MDL	.0005 MG/L		
2943	BROMODICHLOROMETHANE		<	MDL	.0005 MG/L		
2942	BROMOFORM		<	MDL	.0005 MG/L		
2214	BROMOMETHANE		<	MDL	.0005 MG/L		

2982	CARBON TETRACHLORIDE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2989	CHLOROBENZENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2216	CHLOROETHANE	<	MDL	.0005 MG/L	
2941	CHLOROFORM	<	MDL	.0005 MG/L	
2210	CHLOROMETHANE	<	MDL	.0005 MG/L	
2380	CIS-1,2-DICHLOROETHYLENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2944	DIBROMOCHLOROMETHANE	<	MDL	.0005 MG/L	
2408	DIBROMOMETHANE	<	MDL	.0005 MG/L	
2212	DICHLORODIFLUOROMETHANE	<	MDL	.0005 MG/L	
2964	DICHLOROMETHANE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2992	ETHYLBENZENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2246	HEXACHLOROBUTADIENE	<	MDL	.0005 MG/L	
2994	ISOPROPYLBENZENE	<	MDL	.0005 MG/L	
2967	M-DICHLOROBENZENE	<	MDL	.0005 MG/L	
2251	METHYL TERT-BUTYL ETHER	<	MDL	.0005 MG/L	
2422	N-BUTYLBENZENE	<	MDL	.0005 MG/L	
2998	N-PROPYLBENZENE	<	MDL	.0005 MG/L	
2248	NAPHTHALENE	<	MDL	.0005 MG/L	
2965	O-CHLOROTOLUENE	<	MDL	.0005 MG/L	
2968	O-DICHLOROBENZENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2966	P-CHLOROTOLUENE	<	MDL	.0005 MG/L	
2969	P-DICHLOROBENZENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2030	P-ISOPROPYLTOLUENE	<	MDL	.0005 MG/L	
2428	SEC-BUTYLBENZENE	<	MDL	.0005 MG/L	
2996	STYRENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2426	TERT-BUTYLBENZENE	<	MDL	.0005 MG/L	
2987	TETRACHLOROETHYLENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2991	TOLUENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2979	TRANS-1,2-DICHLOROETHYLENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2984	TRICHLOROETHYLENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2218	TRICHLOROFLUOROMETHANE	<	MDL	.0005 MG/L	
2976	VINYL CHLORIDE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2955	XYLENES, TOTAL	<	MDL	.0005 MG/L	01-01-2008 12-31-2008

County Map of NC		Water System Search		Help	
Water System Detail Information					
Water System No.:	NC0234179	Federal Type:	C		
Water System Name:	APPLEGATE WATER SYSTEM	Federal Source:	GW		
Principal County Served:	FORSYTH	System Status:	A		
Principal City Served:	KERNERSVILLE	Activity Date:	09-01-1976		

Sample Number: C717282-01

Other Chemical Sample Results							
Analyte Code	Analyte Name	Method	Less Than Ind.	Level Type	Reporting Level	Concentration	MP
2986	1,1,1,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2981	1,1,1-TRICHLOROETHANE		<	MDL	.0005 MG/L		
2988	1,1,2,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2985	1,1,2-TRICHLOROETHANE		<	MDL	.0005 MG/L		
2978	1,1-DICHLOROETHANE		<	MDL	.0005 MG/L		
2977	1,1-DICHLOROETHYLENE		<	MDL	.0005 MG/L		
2410	1,1-DICHLOROPROPENE		<	MDL	.0005 MG/L		
2420	1,2,3-TRICHLOROBENZENE		<	MDL	.0005 MG/L		
2414	1,2,3-TRICHLOROPROPANE		<	MDL	.0005 MG/L		
2378	1,2,4-TRICHLOROBENZENE		<	MDL	.0005 MG/L		
2418	1,2,4-TRIMETHYLBENZENE		<	MDL	.0005 MG/L		
2980	1,2-DICHLOROETHANE		<	MDL	.0005 MG/L		
2983	1,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2424	1,3,5-TRIMETHYLBENZENE		<	MDL	.0005 MG/L		
2412	1,3-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2413	1,3-DICHLOROPROPENE		<	MDL	.0005 MG/L		
2416	2,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2990	BENZENE		<	MDL	.0005 MG/L		
2993	BROMOBENZENE		<	MDL	.0005 MG/L		
2430	BROMOCHLOROMETHANE		<	MDL	.0005 MG/L		
2943	BROMODICHLOROMETHANE		<	MDL	.0005 MG/L		
2942	BROMOFORM		<	MDL	.0005 MG/L		
2214	BROMOMETHANE		<	MDL	.0005 MG/L		
2982	CARBON TETRACHLORIDE		<	MDL	.0005 MG/L		
2989	CHLOROBENZENE		<	MDL	.0005 MG/L		
2216	CHLOROETHANE		<	MDL	.0005 MG/L		
2941	CHLOROFORM					0.0019 MG/L	
2210	CHLOROMETHANE		<	MDL	.0005 MG/L		
2380	CIS-1,2-DICHLOROETHYLENE		<	MDL	.0005 MG/L		

2944	DIBROMOCHLOROMETHANE	<	MDL	.0005 MG/L		
2408	DIBROMOMETHANE	<	MDL	.0005 MG/L		
2212	DICHLORODIFLUOROMETHANE	<	MDL	.0005 MG/L		
2964	DICHLOROMETHANE	<	MDL	.0005 MG/L		
2992	ETHYLBENZENE	<	MDL	.0005 MG/L		
2246	HEXACHLOROBUTADIENE	<	MDL	.0005 MG/L		
2994	ISOPROPYLBENZENE	<	MDL	.0005 MG/L		
2967	M-DICHLOROBENZENE	<	MDL	.0005 MG/L		
2251	METHYL TERT-BUTYL ETHER	<	MDL	.0005 MG/L		
2422	N-BUTYLBENZENE	<	MDL	.0005 MG/L		
2998	N-PROPYLBENZENE	<	MDL	.0005 MG/L		
2248	NAPHTHALENE	<	MDL	.0005 MG/L		
2965	O-CHLOROTOLUENE	<	MDL	.0005 MG/L		
2968	O-DICHLOROBENZENE	<	MDL	.0005 MG/L		
2966	P-CHLOROTOLUENE	<	MDL	.0005 MG/L		
2969	P-DICHLOROBENZENE	<	MDL	.0005 MG/L		
2030	P-ISOPROPYLTOLUENE	<	MDL	.0005 MG/L		
2428	SEC-BUTYLBENZENE	<	MDL	.0005 MG/L		
2996	STYRENE	<	MDL	.0005 MG/L		
2426	TERT-BUTYLBENZENE	<	MDL	.0005 MG/L		
2987	TETRACHLOROETHYLENE	<	MDL	.0005 MG/L		
2991	TOLUENE	<	MDL	.0005 MG/L		
2979	TRANS- 1,2-DICHLOROETHYLENE	<	MDL	.0005 MG/L		
2984	TRICHLOROETHYLENE	<	MDL	.0005 MG/L		
2218	TRICHLOROFLUOROMETHANE	<	MDL	.0005 MG/L		
2976	VINYL CHLORIDE	<	MDL	.0005 MG/L		
2955	XYLENES, TOTAL	<	MDL	.0005 MG/L		

County Map of NC		Water System Search		Help	
Water System Detail Information					
Water System No.:	NC0234134	Federal Type:	C		
Water System Name:	SOMERSET MHP	Federal Source:	GW		
Principal County Served:	FORSYTH	System Status:	A		
Principal City Served:	KERNERSVILLE	Activity Date:	06-01-1969		

Sample Number: 0812-02243-005

Other Chemical Sample Results							
Analyte Code	Analyte Name	Method	Less Than Ind.	Level Type	Reporting Level	Concentration	MP
2986	1,1,1,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2981	1,1,1-TRICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2988	1,1,1,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2985	1,1,2-TRICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2978	1,1-DICHLOROETHANE		<	MDL	.0005 MG/L		
2977	1,1-DICHLOROETHYLENE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2410	1,1-DICHLOROPROPENE		<	MDL	.005 MG/L		
2420	1,2,3-TRICHLOROBENZENE		<	MDL	.0005 MG/L		
2414	1,2,3-TRICHLOROPROPANE		<	MDL	.0005 MG/L		
2378	1,2,4-TRICHLOROBENZENE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2418	1,2,4-TRIMETHYLBENZENE		<	MDL	.0005 MG/L		
2980	1,2-DICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2983	1,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2424	1,3,5-TRIMETHYLBENZENE		<	MDL	.0005 MG/L		
2412	1,3-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2413	1,3-DICHLOROPROPENE		<	MDL	.0005 MG/L		
2416	2,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2990	BENZENE		<	MDL	.0005 MG/L		01-01-2008 12-31-2008
2993	BROMOBENZENE		<	MDL	.0005 MG/L		
2430	BROMOCHLOROMETHANE		<	MDL	.0005 MG/L		
2943	BROMODICHLOROMETHANE		<	MDL	.001 MG/L		
2942	BROMOFORM		<	MDL	.001 MG/L		
2214	BROMOMETHANE		<	MDL	.0005 MG/L		

2982	CARBON TETRACHLORIDE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2989	CHLOROBENZENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2216	CHLOROETHANE	<	MDL	.0005 MG/L	
2941	CHLOROFORM	<	MDL	.001 MG/L	
2210	CHLOROMETHANE	<	MDL	.0005 MG/L	
2380	CIS-1,2-DICHLOROETHYLENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2944	DIBROMOCHLOROMETHANE	<	MDL	.001 MG/L	
2408	DIBROMOMETHANE	<	MDL	.0005 MG/L	
2212	DICHLORODIFLUOROMETHANE	<	MDL	.0005 MG/L	
2964	DICHLOROMETHANE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2992	ETHYLBENZENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2246	HEXACHLOROBUTADIENE	<	MDL	.0005 MG/L	
2994	ISOPROPYLBENZENE	<	MDL	.0005 MG/L	
2967	M-DICHLOROBENZENE	<	MDL	.0005 MG/L	
2422	N-BUTYLBENZENE	<	MDL	.0005 MG/L	
2998	N-PROPYLBENZENE	<	MDL	.0005 MG/L	
2248	NAPHTHALENE	<	MDL	.0005 MG/L	
2965	O-CHLOROTOLUENE	<	MDL	.0005 MG/L	
2968	O-DICHLOROBENZENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2966	P-CHLOROTOLUENE	<	MDL	.0005 MG/L	
2969	P-DICHLOROBENZENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2030	P-ISOPROPYLTOLUENE	<	MDL	.0005 MG/L	
2428	SEC-BUTYLBENZENE	<	MDL	.0005 MG/L	
2996	STYRENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2426	TERT-BUTYLBENZENE	<	MDL	.0005 MG/L	
2987	TETRACHLOROETHYLENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2991	TOLUENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2979	TRANS-1,2-DICHLOROETHYLENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2984	TRICHLOROETHYLENE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2218	TRICHLOROFUOROMETHANE	<	MDL	.0005 MG/L	
2976	VINYL CHLORIDE	<	MDL	.0005 MG/L	01-01-2008 12-31-2008
2955	XYLENES, TOTAL	<	MDL	.0005 MG/L	01-01-2008 12-31-2008

County Map of NC		Water System Search		Help	
Water System Detail Information					
Water System No.:	NC0234134	Federal Type:	C		
Water System Name:	SOMERSET-MHP	Federal Source:	GW		
Principal County Served:	FORSYTH	System Status:	A		
Principal City Served:	KERNERSVILLE	Activity Date:	06-01-1969		

Sample Number: 229810

Other Chemical Sample Results							
Analyte Code	Analyte Name	Method	Less Than Ind.	Level Type	Reporting Level	Concentration	MP
2986	1,1,1,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2981	1,1,1-TRICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2988	1,1,2,2-TETRACHLOROETHANE		<	MDL	.0005 MG/L		
2985	1,1,2-TRICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2978	1,1-DICHLOROETHANE		<	MDL	.0005 MG/L		
2977	1,1-DICHLOROETHYLENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2410	1,1-DICHLOROPROPENE		<	MDL	.005 MG/L		
2420	1,2,3-TRICHLOROBENZENE		<	MDL	.0005 MG/L		
2414	1,2,3-TRICHLOROPROPANE		<	MDL	.0005 MG/L		
2378	1,2,4-TRICHLOROBENZENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2418	1,2,4-TRIMETHYLBENZENE		<	MDL	.0005 MG/L		
2980	1,2-DICHLOROETHANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2983	1,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2424	1,3,5-TRIMETHYLBENZENE		<	MDL	.0005 MG/L		
2412	1,3-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2413	1,3-DICHLOROPROPENE		<	MDL	.0005 MG/L		
2416	2,2-DICHLOROPROPANE		<	MDL	.0005 MG/L		
2990	BENZENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2993	BROMOBENZENE		<	MDL	.0005 MG/L		
2430	BROMOCHLOROMETHANE		<	MDL	.0005 MG/L		
2943	BROMODICHLOROMETHANE		<	MDL	.001 MG/L		
2942	BROMOFORM		<	MDL	.001 MG/L		
2214	BROMOMETHANE		<	MDL	.0005 MG/L		

2982	CARBON TETRACHLORIDE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2989	CHLOROBENZENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2216	CHLOROETHANE		<	MDL	.0005 MG/L		
2941	CHLOROFORM		<	MDL	.001 MG/L		
2210	CHLOROMETHANE					0.0033 MG/L	
2380	CIS-1,2-DICHLOROETHYLENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2944	DIBROMOCHLOROMETHANE		<	MDL	.001 MG/L		
2408	DIBROMOMETHANE		<	MDL	.0005 MG/L		
2212	DICHLORODIFLUOROMETHANE		<	MDL	.0005 MG/L		
2964	DICHLOROMETHANE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2992	ETHYLBENZENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2246	HEXACHLOROBUTADIENE		<	MDL	.0005 MG/L		
2994	ISOPROPYLBENZENE		<	MDL	.0005 MG/L		
2967	M-DICHLOROBENZENE		<	MDL	.0005 MG/L		
2422	N-BUTYLBENZENE		<	MDL	.0005 MG/L		
2998	N-PROPYLBENZENE		<	MDL	.0005 MG/L		
2248	NAPHTHALENE		<	MDL	.0005 MG/L		
2965	O-CHLOROTOLUENE		<	MDL	.0005 MG/L		
2968	O-DICHLOROBENZENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2966	P-CHLOROTOLUENE		<	MDL	.0005 MG/L		
2969	P-DICHLOROBENZENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2030	P-ISOPROPYLTOLUENE		<	MDL	.0005 MG/L		
2428	SEC-BUTYLBENZENE		<	MDL	.0005 MG/L		
2996	STYRENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2426	TERT-BUTYLBENZENE		<	MDL	.0005 MG/L		
2987	TETRACHLOROETHYLENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2991	TOLUENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2979	TRANS-1,2-DICHLOROETHYLENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2984	TRICHLOROETHYLENE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2218	TRICHLOROFLUOROMETHANE		<	MDL	.0005 MG/L		
2976	VINYL CHLORIDE		<	MDL	.0005 MG/L		01-01-2005 12-31-2005
2955	XYLENES, TOTAL		<	MDL	.0005 MG/L		01-01-2005 12-31-2005

County Map of NC		Water System Search		Help	
Water System Detail Information					
Water System No.:	NC0234134	Federal Type:	C		
Water System Name:	SOMERSET MHP	Federal Source:	GW		
Principal County Served:	FORSYTH	System Status:	A		
Principal City Served:	KERNERSVILLE	Activity Date:	06-01-1969		

Sample Number: VOC_2005_M_1132

Other Chemical Sample Results							
Analyte Code	Analyte Name	Method	Less Than Ind.	Level Type	Reporting Level	Concentration	MP
2986	1,1,1,2-TETRACHLOROETHANE	502.2	<	MRL	.0005 MG/L		
2981	1,1,1-TRICHLOROETHANE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2988	1,1,2,2-TETRACHLOROETHANE	502.2	<	MRL	.0005 MG/L		
2985	1,1,2-TRICHLOROETHANE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2978	1,1-DICHLOROETHANE	502.2	<	MRL	.0005 MG/L		
2977	1,1-DICHLOROETHYLENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2410	1,1-DICHLOROPROPENE	502.2	<	MRL	.0005 MG/L		
2420	1,2,3-TRICHLOROBENZENE	502.2	<	MRL	.0005 MG/L		
2414	1,2,3-TRICHLOROPROPANE	502.2	<	MRL	.0005 MG/L		
2378	1,2,4-TRICHLOROBENZENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2418	1,2,4-TRIMETHYLBENZENE	502.2	<	MRL	.0005 MG/L		
2980	1,2-DICHLOROETHANE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2983	1,2-DICHLOROPROPANE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2424	1,3,5-TRIMETHYLBENZENE	502.2	<	MRL	.0005 MG/L		
2412	1,3-DICHLOROPROPANE	502.2	<	MRL	.0005 MG/L		
2413	1,3-DICHLOROPROPENE	502.2	<	MRL	.0005 MG/L		
2416	2,2-DICHLOROPROPANE	502.2	<	MRL	.0005 MG/L		
2990	BENZENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2993	BROMOBENZENE	502.2	<	MRL	.0005 MG/L		
2430	BROMOCHLOROMETHANE	502.2	<	MRL	.0005 MG/L		
2943	BROMODICHLOROMETHANE	502.2	<	MRL	.001 MG/L		
2942	BROMOFORM	502.2	<	MRL	.001 MG/L		
2214	BROMOMETHANE	502.2	<	MRL	.0005 MG/L		

2982	CARBON TETRACHLORIDE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2989	CHLOROBENZENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2216	CHLOROETHANE	502.2	<	MRL	.0005 MG/L		
2941	CHLOROFORM	502.2	<	MRL	.001 MG/L		
2210	CHLOROMETHANE	502.2				0.0033 MG/L	
2380	CIS-1,2-DICHLOROETHYLENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2944	DIBROMOCHLOROMETHANE	502.2	<	MRL	.001 MG/L		
2408	DIBROMOMETHANE	502.2	<	MRL	.0005 MG/L		
2212	DICHLORODIFLUOROMETHANE	502.2	<	MRL	.0005 MG/L		
2964	DICHLOROMETHANE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2992	ETHYLBENZENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2246	HEXACHLOROBUTADIENE	502.2	<	MRL	.0005 MG/L		
2994	ISOPROPYLBENZENE	502.2	<	MRL	.0005 MG/L		
2967	M-DICHLOROBENZENE	502.2	<	MRL	.0005 MG/L		
2422	N-BUTYLBENZENE	502.2	<	MRL	.0005 MG/L		
2998	N-PROPYLBENZENE	502.2	<	MRL	.0005 MG/L		
2248	NAPHTHALENE	502.2	<	MRL	.0005 MG/L		
2965	O-CHLOROTOLUENE	502.2	<	MRL	.0005 MG/L		
2968	O-DICHLOROBENZENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2966	P-CHLOROTOLUENE	502.2	<	MRL	.0005 MG/L		
2969	P-DICHLOROBENZENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2030	P-ISOPROPYLTOLUENE	502.2	<	MRL	.0005 MG/L		
2428	SEC-BUTYLBENZENE	502.2	<	MRL	.0005 MG/L		
2996	STYRENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2426	TERT-BUTYLBENZENE	502.2	<	MRL	.0005 MG/L		
2987	TETRACHLOROETHYLENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2991	TOLUENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2979	TRANS-1,2-DICHLOROETHYLENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2984	TRICHLOROETHYLENE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2218	TRICHLOROFUOROMETHANE	502.2	<	MRL	.0005 MG/L		
2976	VINYL CHLORIDE	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007
2955	XYLENES, TOTAL	502.2	<	MRL	.0005 MG/L		01-01-2005 12-31-2007