Geological Resources, Inc.

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AND NATURAL RESOURCES
MOORESVILLE REGIONAL OFFICE

October 22, 2003

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OWM UST SECTION
03 OCT 23 AM 10: 29

Mr. Scott Ryals
North Carolina Department of Environment
and Natural Resources
Division of Waste Management
UST Section
1637 Mail Service Center
Raleigh, North Carolina 27699-1637

Re: Soil and Ground Water Assessment Report
Old Sealtest Dairy
Hickory, Catawba County
Incident No. 17262

Dear Mr. Ryals:

The purpose of this report is to present the results of soil and ground water assessment activities conducted in October 2003 at the above referenced site (**Figure 1**). The activities were conducted in accordance with Geological Resources, Inc. (GRI) Proposal No. 03-119-EC, which was submitted to the NCDENR on July 3, 2003 and approved as Task Authorization No. 17262-2 on July 31, 2003. The purpose of the activities was to determine if soil and ground water had been affected by the release from a UST system that had been located at the site, and to obtain well construction details for two out-of-service water supply wells (WSW-1 and WSW-2) identified on an abandoned residential property approximately 600 feet north of the source area during a receptor survey conducted by GRI in June 2003. The release was discovered in March 1997 during removal of two gasoline USTs, one kerosene UST and one fuel oil UST. Concentrations of gasoline- and diesel-range TPH that exceeded the regulatory action level were reported in soil samples collected during UST closure activities.

On October 1, 2003 one Type II monitoring well (MW-1) was in installed at the location of the former gasoline dispenser. The well was installed using hollow stem augers to a total depth of 50 feet with a 15-foot screened interval. The material encountered during installation of the well consisted of undifferentiated clayey silts and silts. Soil samples were collected from above the water table during the installation of MW-1 at 5 foot intervals from 5 to 30 feet and at 10 foot intervals from 30 to 40 feet with a split spoon sampler and screened with a PID. The sample exhibiting the highest PID reading, designated MW-1 (5'-7'), was collected at a depth of 5 to 7 feet. The location of the monitoring well is shown on **Figure 2**. A soil boring log and a well construction record for MW-1 have been included in **Appendix A**.

The monitoring well was gauged, developed and sampled on October 1, 2003. The depth to ground water at the time of sampling was 43.24 feet. Laboratory analysis was performed on the soil sample for VOCs using SW 846 Method 8260B. Detectable concentrations of methylene chloride (0.012 mg/kg) and MTBE (0.014 mg/kg) were reported in the soil sample. However the concentrations did not exceed the soil-to-water MCCs. No other detectable concentrations of other SW846 Method 8260 compounds were reported in the sample. Laboratory analyses were performed on the ground water sample for purgeable and aromatic volatiles using EPA Methods 601/602, EDB using EPA Method 504.1 and for VPH using the MADEP Method. Detectable concentrations of tetrachloroethene (2.3 μg/l) and trichlorofluoromethane (2.4

2301 Crown Point Executive Drive Suite F Charlotte, NC 28227
Phone: (704) 845-4010 / (888) 870-4133 Fax: (704) 845-4012

No detectable concentrations of other requested method constituents were reported in the sample. A complete report of analyses of both soil and ground water samples has been included as **Appendix B**.

GRI also inspected the two water supply wells identified during the June 2003 receptor survey on October 1, 2003. The results of the inspection indicated that WSW-1 is 2 feet in diameter with a total depth of 83 feet. The depth to ground water in WSW-1 was 63 feet. Water supply well WSW-2 is also 2 feet in diameter but was filled with scrap lumber to approximately 15 feet below grade. As a result the total depth of the WSW-2 and depth to water could not be determined.

Based on the results of the assessment activities conducted in October 2003, a soil quality violation does not exist at the site as a result of the release. In addition, the two contaminants detected in the ground water sample collected from MW-1 are not typically associated with releases of virgin petroleum hydrocarbons. Tetrachloroethene is a solvent and trichlorodiflouromethane is a common refrigerant (Freon-11). Based on this information, and the absence of other compounds normally associated with releases of petroleum products, it does not appear that ground water has been affected by the release from the USTs. Therefore, the site should be assigned a low risk classification and no further action should be required. In addition, since the contaminants detected in MW-1 do not appear to be related to the UST release, abandonment of the two water supply wells should not be the responsibility of the UST Section.

Please do not hesitate to contact the undersigned at (704) 845-4010 if you have any questions or require additional information.

Sincerely,
Geological Resources, Inc.

W. Scott Ball
Senior Project Manager

John E. Hess, Jr., P.G.
License No. 1395

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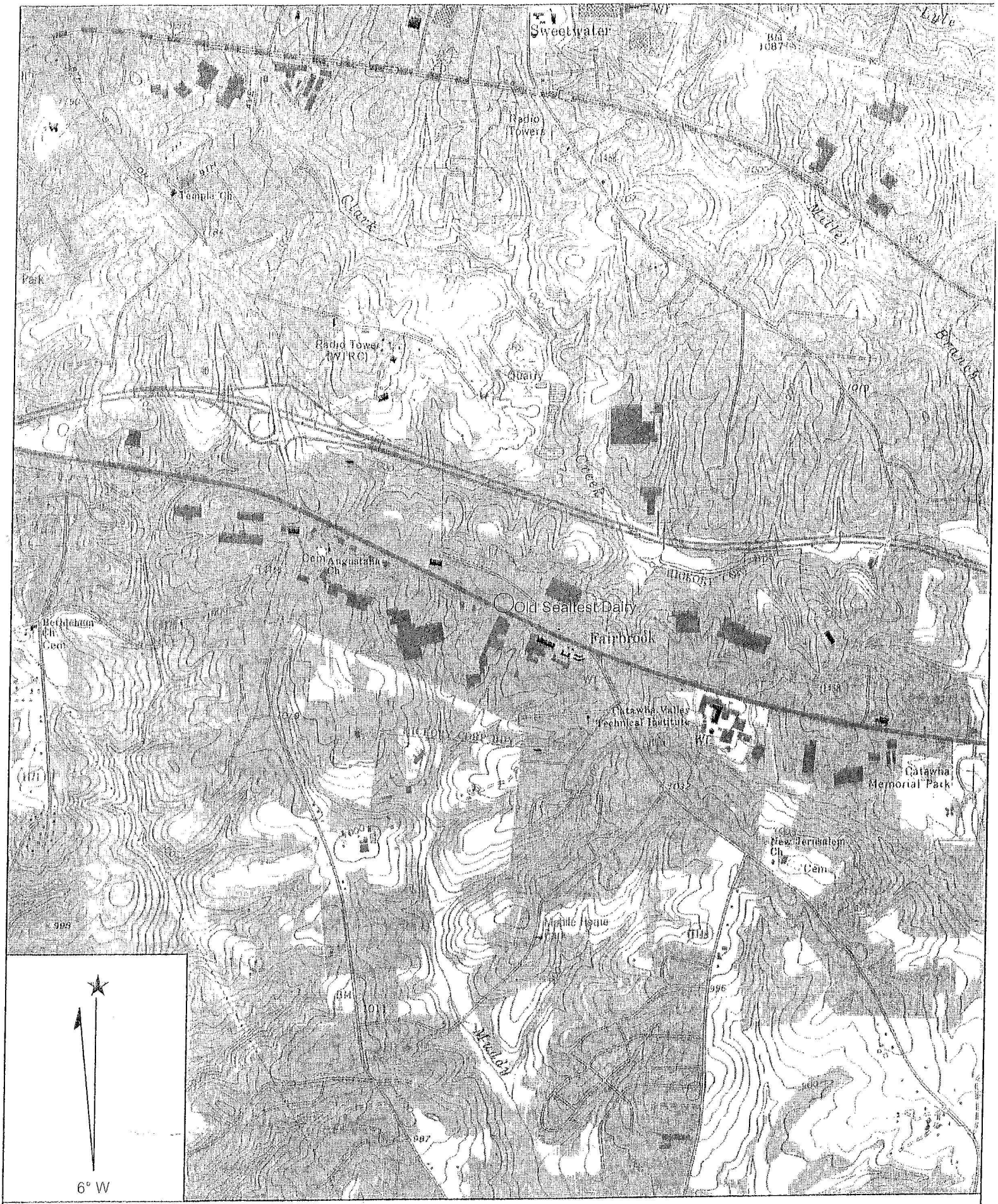
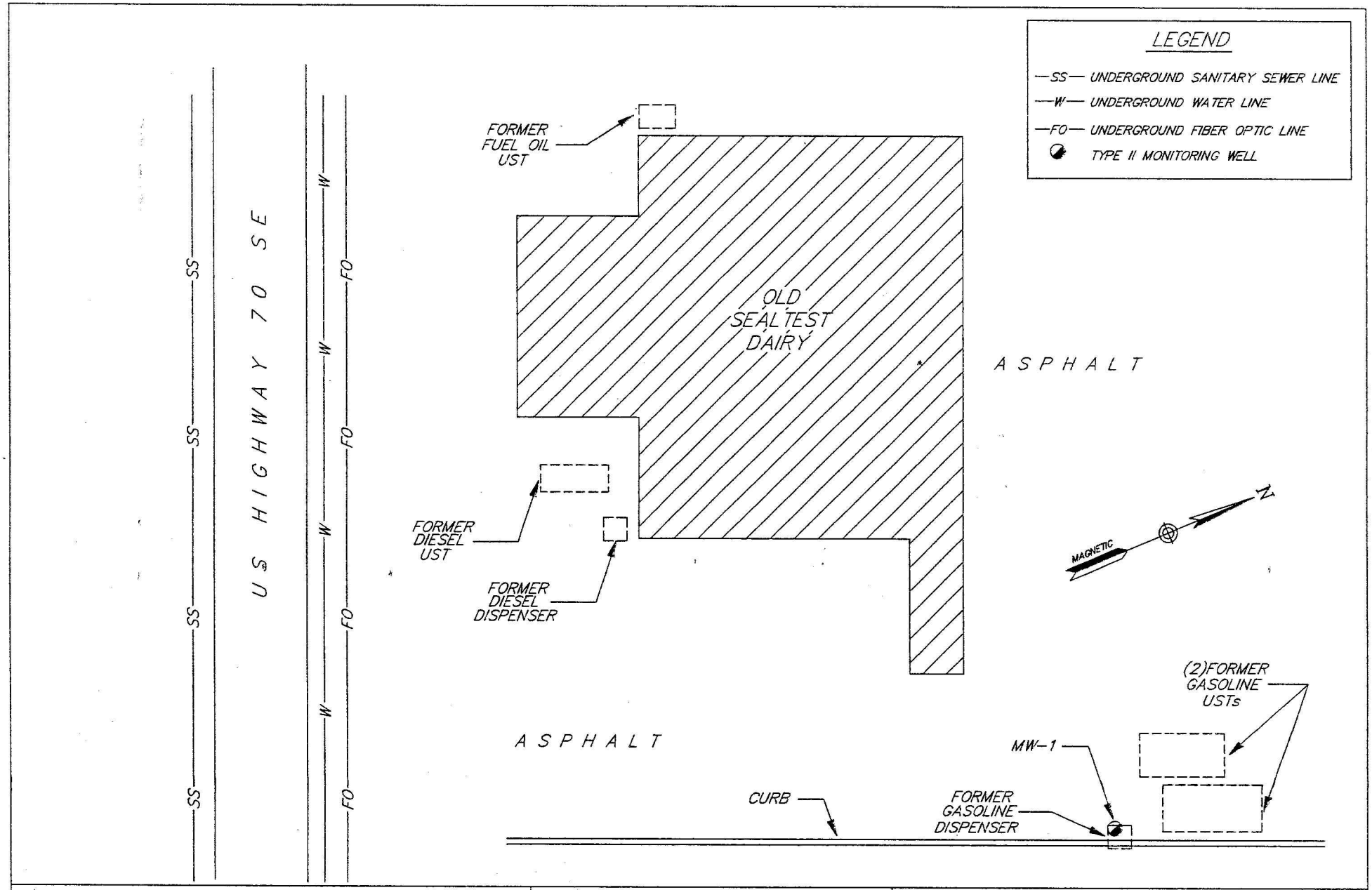
cc: file

FIGURES



Name: HICKORY
Date: 6/24/103
Scale: 1 inch equals 2000 feet

Location: 035° 42' 17.3" N 081° 18' 00.5" W
Caption: SITE LOCATION MAP
Old Sealtest Dairy
Figure 1 Incident # 17262



Geological Resources, Inc.

Environmental and Mining Geologists

- Charlotte, North Carolina
- Greensboro, North Carolina
- Asheville, North Carolina

0 10 20

(IN FEET)

1 inch = 20 ft.

SITE MAP

Old Sealtest Dairy — US Highway 70 East

Hickory, Catawba County, NC — Incident # 17262

Date:	10/15/03	Drawn by:	A. Filardi	Figure:	2

APPENDICES

APPENDIX A
Boring Log and Well Construction Record

Geological Resources, Inc.
4913 Albemarle Road, Suite 101
Charlotte, NC 28205

Phone (704) 845-4010
Fax (704) 845-4012

SUBSURFACE LOG

Project: Old Sealtest Dairy
Location: Hickory, Catawba County, North Carolina
Boring No.: MW-1
Date Drilled: October 1, 2003
Sample Method: Split Spoon
Drilling Method: 4.25" ID HSA
Completion Details: Completed as MW-1
Driller: McCall Brothers, Inc.
Log By: Scott Ball

Depth	Well Construction	Sample Interval (feet)	OVA Reading (ppm-v)	LITHOLOGY
0				
2				
4				
6		5-7	19.7	Reddish brown clayey silt w/tan mottles; dry; slight petroleum odor.
8				
10		10-12	11.9	Reddish brown clayey silt, mottled; dry; slight petroleum odor.
12				
14		15-17	10.0	Dark brown micaceous clayey silt w/brown &tan mottles; dry; petroleum odor.
16				
18				
20		20-22	11.4	Reddish brown silt w/tan mottles; dry; slight petroleum odor.
22				
24				
26		25-27	9.6	Reddish brown clayey silt w/tan mottles; dry; slight petroleum odor.
28				
30		30-32	8.8	Brown/tan silts w/relic mineral mottling; dry; no petroleum odor.
32				
34				
36				
38				
40		40-42	4.3	Mottled dark brown/gray micaceous silt; moist; no petroleum odor.
42				
44				

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section
1636 Mail Service Center - Raleigh, N.C. 27699-1636-Phone (919) 733-3221

WELL CONSTRUCTION RECORD

WELL CONTRACTOR: Pete Florea
WELL CONTRACTOR CERTIFICATION #: 2211
STATE WELL CONSTRUCTION PERMIT#:

1. WELL USE (Check Applicable Box): Residential ☐ Municipal ☐ Industrial ☐ Agricultural ☐ Monitoring ☒
   Recovery ☐ Heat Pump Water Injection ☐ Other ☐ If Other, List Use:
2. WELL LOCATION: (Show sketch of the location below)
   Nearest Town: HICKORY County: CATAWBA
   2115 US HWY 70 SE
   (Road Name and Numbers, Community, or Subdivision and Lot No.)
3. OWNER NCDENR DWM UST SECTION
   Address 1637 MAIL SERVICE CENTER (Street or Route No.)
   RALEIGH (City or Town) NC (State) 27699-1637 (Zip Code)
4. DATE DRILLED 10/1/03
5. TOTAL DEPTH 50'
6. CUTTINGS COLLECTED YES ☐ NO ☒
7. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒
8. STATIC WATER LEVEL Below Top of Casing: 43.24 FT.
   (Use "+" If Above Top of Casing)
9. TOP OF CASING IS 0.0 FT. Above Land Surface*
   *Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118
10. YIELD (gpm): NA METHOD OF TEST
11. WATER ZONES (depth): ~43'
12. CHLORINATION: Type NA Amount
13. CASING:

	Depth From	Depth To	Ft.	Diameter	Wall Thickness or Weight/Ft.	Material
	0	35		2"	SCH80. 40	PVC

14. GROUT:

	Depth From	Depth To	Ft.	Material	Method
	0.5	30		PORTLAND	POUR

15. SCREEN:

	Depth From	Depth To	Ft.	Diameter	Slot Size	Material
	35	50		2" In.	0.010 In.	PVC
				In.	In.	
				In.	In.	

16. SAND/GRAVEL PACK:

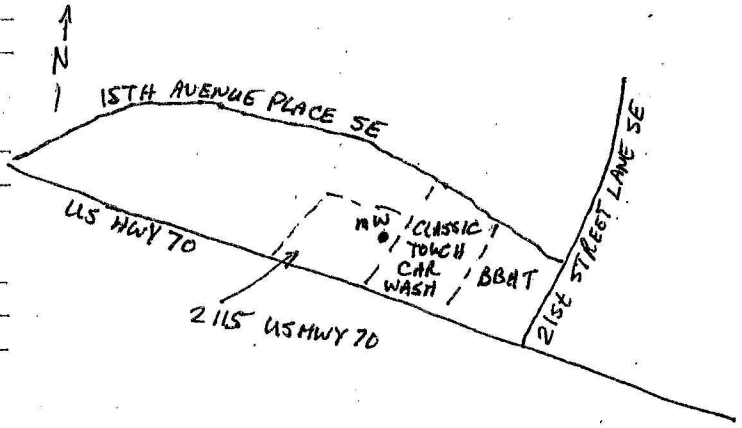
	Depth From	Depth To	Ft.	Size	Material
	33	50		#2	SILICA SAND

17. REMARKS: MW-1; BENTONITE 30-33'

DRILLING LOG From	To	DEPTH Formation Description
0	0.2'	ASPHALT
0.2	17'	REDDISH BROWN CLAYEY SILT, DRY
17'	20'	DK BROWN SILT-DRY
20'	27'	REDDISH BROWN SILT-DRY
27'	50'	DK BROWN/GRAY MOTTLED MICACEOUS SILT, MOIST @ ~42'

If additional space is needed use back of form

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Pete Florea 10-1-03
SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit original to Division of Water Quality, Groundwater Section within 30 days

GW-1 REV. 12/99

FOR OFFICE USE ONLY
Quad No:
Serial No.

APPENDIX B
Laboratory Report

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

October 09, 2003

Mr. Scott Ball
Geological Resources Inc.
2301 Crown Point Executive Dr.
Suite F
Charlotte, NC 28227

RE: Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

Dear Mr. Ball:

Enclosed are the analytical results for sample(s) received by the laboratory on October 2, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Sherri Stabel
Sherri.Stabel@pacelabs.com
Project Manager

Enclosures

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www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

Solid results are reported on a dry weight basis

Lab Sample No: 923397921 Project Sample Number: 9251810-001 Date Collected: 10/01/03 11:10
Client Sample ID: MW-1 (5-7') Matrix: Soil Date Received: 10/02/03 16:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	17.6	%		1.0	10/03/03 09:14	SWB			
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Benzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	71-43-2		
Bromobenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	108-86-1		
Bromochloromethane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	74-97-5		
Bromodichloromethane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	75-27-4		
Bromoform	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	75-25-2		
Bromomethane	ND	mg/kg	0.015	1.5	10/07/03 19:02	RWS	74-83-9		
n-Butylbenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	104-51-8		
sec-Butylbenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	135-98-8		
tert-Butylbenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	98-06-6		
Carbon tetrachloride	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	56-23-5		
Chlorobenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	108-90-7		
Chloroethane	ND	mg/kg	0.015	1.5	10/07/03 19:02	RWS	75-00-3		
Chloroform	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	67-66-3		
Chloromethane	ND	mg/kg	0.015	1.5	10/07/03 19:02	RWS	74-87-3		
2-Chlorotoluene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	95-49-8		
4-Chlorotoluene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	106-43-4		
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	96-12-8		
Dibromochloromethane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	124-48-1		
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	106-93-4		
Dibromomethane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	74-95-3		
1,2-Dichlorobenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	95-50-1		
1,3-Dichlorobenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	541-73-1		
1,4-Dichlorobenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	106-46-7		
Dichlorodifluoromethane	ND	mg/kg	0.015	1.5	10/07/03 19:02	RWS	75-71-8		
1,1-Dichloroethane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	75-34-3		
1,2-Dichloroethane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	107-06-2		
1,1-Dichloroethene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	75-35-4		
cis-1,2-Dichloroethene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	156-59-2		
trans-1,2-Dichloroethene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	156-60-5		
1,2-Dichloropropane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	78-87-5		
1,3-Dichloropropane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	142-28-9		
2,2-Dichloropropane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	594-20-7		

REPORT OF LABORATORY ANALYSIS

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NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030

Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

Lab Sample No: 923397921 Project Sample Number: 9251810-001 Date Collected: 10/01/03 11:10
Client Sample ID: MW-1 (5-7') Matrix: Soil Date Received: 10/02/03 16:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
1,1-Dichloropropene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	563-58-6		
Diisopropyl ether	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	108-20-3		
Ethylbenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	100-41-4		
Hexachloro-1,3-butadiene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	87-68-3		
Isopropylbenzene (Cumene)	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	98-82-8		
p-Isopropyltoluene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	99-87-6		
Methylene chloride	0.012	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	75-09-2		
Methyl-tert-butyl ether	0.014	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	1634-04-4		
Naphthalene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	91-20-3		
n-Propylbenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	103-65-1		
Styrene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	100-42-5		
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	630-20-6		
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	79-34-5		
Tetrachloroethene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	127-18-4		
Toluene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	108-88-3		
1,2,3-Trichlorobenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	87-61-6		
1,2,4-Trichlorobenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	120-82-1		
1,1,1-Trichloroethane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	71-55-6		
1,1,2-Trichloroethane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	79-00-5		
Trichloroethene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	79-01-6		
Trichlorofluoromethane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	75-69-4		
1,2,3-Trichloropropane	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	96-18-4		
1,2,4-Trimethylbenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	95-63-6		
1,3,5-Trimethylbenzene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	108-67-8		
Vinyl chloride	ND	mg/kg	0.015	1.5	10/07/03 19:02	RWS	75-01-4		
Xylene (Total)	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	1330-20-7		
m&p-Xylene	ND	mg/kg	0.015	1.5	10/07/03 19:02	RWS			
o-Xylene	ND	mg/kg	0.0076	1.5	10/07/03 19:02	RWS	95-47-6		
Toluene-d8 (S)	96	%		1.0	10/07/03 19:02	RWS	2037-26-5		
4-Bromofluorobenzene (S)	79	%		1.0	10/07/03 19:02	RWS	460-00-4		
Dibromofluoromethane (S)	86	%		1.0	10/07/03 19:02	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	84	%		1.0	10/07/03 19:02	RWS	17060-07-0		

REPORT OF LABORATORY ANALYSIS

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SC Environmental 99030

Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

Lab Sample No: 923397939 Project Sample Number: 9251810-002 Date Collected: 10/01/03 16:45
Client Sample ID: MW-1 Matrix: Water Date Received: 10/02/03 16:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Semivolatiles									
EDB and DBCP in Water	Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/l	0.020	1.0	10/07/03 08:14	RPJ	106-93-4		
1-Chloro-2-bromopropane (S)	118	%		1.0	10/07/03 08:14	RPJ	301-79-56		
VPH in Water by Mass. Method	Method: VPH								
Aliphatic (C05-C08)	ND	ug/l	100	1.0	10/03/03 17:01	KSB			
Aliphatic (C09-C12)	ND	ug/l	100	1.0	10/03/03 17:01	KSB			
Aromatic (C09-C10)	ND	ug/l	100	1.0	10/03/03 17:01	KSB			
2,5-Dibromotoluene (FID)(S)	79	%		1.0	10/03/03 17:01	KSB			
2,5-Dibromotoluene (PID)(S)	87	%		1.0	10/03/03 17:01	KSB			
GC Volatiles									
Halogen. & Aromatic Vol. Orgs.	Method: EPA 601/602								
Benzene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	71-43-2		
Bromodichloromethane	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	75-27-4		
Bromoform	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	75-25-2		
Bromomethane	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	74-83-9		
Carbon tetrachloride	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	56-23-5		
Chlorobenzene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	108-90-7		
Chloroethane	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	75-00-3		
Chloroform	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	67-66-3		
Chloromethane	ND	ug/l	2.0	1.0	10/08/03 04:56	STC	74-87-3		
Dibromochloromethane	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	124-48-1		
1,2-Dichlorobenzene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	106-46-7		
Dichlorodifluoromethane	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	75-71-8		
1,1-Dichloroethane	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	75-34-3		
1,2-Dichloroethane	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	107-06-2		
1,1-Dichloroethene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	75-35-4		
trans-1,2-Dichloroethene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	156-60-5		
1,2-Dichloropropane	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	10061-02-6		
Diisopropyl ether	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	108-20-3		
Ethylbenzene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	100-41-4		
Methylene chloride	ND	ug/l	2.0	1.0	10/08/03 04:56	STC	75-09-2		
Methyl-tert-butyl ether	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	1634-04-4		

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Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

Lab Sample No: 923397939 Project Sample Number: 9251810-002 Date Collected: 10/01/03 16:45
Client Sample ID: MW-1 Matrix: Water Date Received: 10/02/03 16:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Naphthalene	ND	ug/l	2.0	1.0	10/08/03 04:56	STC	91-20-3		
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	79-34-5		
Tetrachloroethene	2.2	ug/l	1.0	1.0	10/08/03 04:56	STC	127-18-4		
Toluene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	79-00-5		
Trichloroethene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	79-01-6		
Trichlorofluoromethane	2.4	ug/l	1.0	1.0	10/08/03 04:56	STC	75-69-4		
Vinyl chloride	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	75-01-4		
m&p-Xylene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC			
o-Xylene	ND	ug/l	1.0	1.0	10/08/03 04:56	STC	95-47-6		
1-Chloro-3-fluorobenzene (S)	100	%		1.0	10/08/03 04:56	STC	625-98-9		

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Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

QC Batch: 82636 Analysis Method: VPH
QC Batch Method: VPH Analysis Description: VPH in Water by Mass. Method
Associated Lab Samples: 923397939

METHOD BLANK: 923399661
Associated Lab Samples: 923397939

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Aliphatic (C05-C08)	ug/l	ND	100	
Aliphatic (C09-C12)	ug/l	ND	100	
Aromatic (C09-C10)	ug/l	ND	100	
2,5-Dibromotoluene (FID)(S)	%	91		
2,5-Dibromotoluene (PID)(S)	%	89		

LABORATORY CONTROL SAMPLE & LCSD: 923399679 923399687

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Aliphatic (C05-C08)	ug/l	160.00	141.4	148.5	88	93	5	
Aliphatic (C09-C12)	ug/l	40.00	37.56	38.20	94	96	2	
Aromatic (C09-C10)	ug/l	40.00	46.19	45.53	115	114	1	
2,5-Dibromotoluene (FID)(S)					103	85		
2,5-Dibromotoluene (PID)(S)					103	106		

SAMPLE DUPLICATE: 923400378

Parameter	Units	923393979 Result	DUP Result	RPD	Footnotes
Aliphatic (C05-C08)	ug/l	450.0	440.0	3	
Aliphatic (C09-C12)	ug/l	130.0	120.0	5	
Aromatic (C09-C10)	ug/l	140.0	140.0	2	
2,5-Dibromotoluene (FID)(S)	%	86	99		
2,5-Dibromotoluene (PID)(S)	%	96	120		

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QUALITY CONTROL DATA

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

QC Batch: 82745 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: EDB and DBCP in Water
Associated Lab Samples: 923397939

METHOD BLANK: 923404644
Associated Lab Samples: 923397939

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dibromoethane (EDB)	ug/l	ND	0.020	
1-Chloro-2-bromopropane (S)	%	139		

LABORATORY CONTROL SAMPLE & LCSD: 923404651 923404669

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
1,2-Dibromoethane (EDB)	ug/l	0.2500	0.2805	0.2500	112	100	11	
1-Chloro-2-bromopropane (S)					133	136		

MATRIX SPIKE: 923404685

Parameter	Units	923395685 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
1,2-Dibromoethane (EDB)	ug/l	0	0.2500	0.2906	116	
1-Chloro-2-bromopropane (S)					124	

SAMPLE DUPLICATE: 923404677

Parameter	Units	923395677 Result	DUP Result	RPD	Footnotes
1,2-Dibromoethane (EDB)	ug/l	ND	ND	NC	
1-Chloro-2-bromopropane (S)	%	149	108		

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QUALITY CONTROL DATA

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

QC Batch: 82812
QC Batch Method: EPA 601/602
Associated Lab Samples: 923397939

Analysis Method: EPA 601/602
Analysis Description: Halogen. & Aromatic Vol. Orgs.

METHOD BLANK: 923406524
Associated Lab Samples: 923397939

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	1.0	
Bromodichloromethane	ug/l	ND	1.0	
Bromoform	ug/l	ND	1.0	
Bromomethane	ug/l	ND	1.0	
Carbon tetrachloride	ug/l	ND	1.0	
Chlorobenzene	ug/l	ND	1.0	
Chloroethane	ug/l	ND	1.0	
Chloroform	ug/l	ND	1.0	
Chloromethane	ug/l	ND	2.0	
Dibromochloromethane	ug/l	ND	1.0	
1,2-Dichlorobenzene	ug/l	ND	1.0	
1,3-Dichlorobenzene	ug/l	ND	1.0	
1,4-Dichlorobenzene	ug/l	ND	1.0	
Dichlorodifluoromethane	ug/l	ND	1.0	
1,1-Dichloroethane	ug/l	ND	1.0	
1,2-Dichloroethane	ug/l	ND	1.0	
1,1-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
1,2-Dichloropropane	ug/l	ND	1.0	
cis-1,3-Dichloropropene	ug/l	ND	1.0	
trans-1,3-Dichloropropene	ug/l	ND	1.0	
Diisopropyl ether	ug/l	ND	1.0	
Ethylbenzene	ug/l	ND	1.0	
Methylene chloride	ug/l	ND	2.0	
Methyl-tert-butyl ether	ug/l	ND	1.0	
Naphthalene	ug/l	ND	2.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Toluene	ug/l	ND	1.0	
1,1,1-Trichloroethane	ug/l	ND	1.0	
1,1,2-Trichloroethane	ug/l	ND	1.0	

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QUALITY CONTROL DATA

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

METHOD BLANK: 923406524
Associated Lab Samples: 923397939

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Trichloroethene	ug/l	ND	1.0	
Trichlorofluoromethane	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
m&p-Xylene	ug/l	ND	1.0	
o-Xylene	ug/l	ND	1.0	
1-Chloro-3-fluorobenzene (S)	%	98		

LABORATORY CONTROL SAMPLE: 923406532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	20.00	19.33	97	
Bromodichloromethane	ug/l	20.00	17.55	88	
Bromoform	ug/l	20.00	18.40	92	
Bromomethane	ug/l	20.00	25.46	127	
Carbon tetrachloride	ug/l	20.00	16.92	85	
Chlorobenzene	ug/l	20.00	19.23	96	
Chloroethane	ug/l	20.00	26.17	131	
Chloroform	ug/l	20.00	16.60	83	
Chloromethane	ug/l	20.00	19.71	99	
Dibromochloromethane	ug/l	20.00	18.33	92	
1,2-Dichlorobenzene	ug/l	20.00	20.71	104	
1,3-Dichlorobenzene	ug/l	20.00	20.98	105	
1,4-Dichlorobenzene	ug/l	20.00	20.08	100	
Dichlorodifluoromethane	ug/l	20.00	28.44	142	
1,1-Dichloroethane	ug/l	20.00	17.67	88	
1,2-Dichloroethane	ug/l	20.00	16.33	82	
1,1-Dichloroethene	ug/l	20.00	17.00	85	
trans-1,2-Dichloroethene	ug/l	20.00	17.12	86	
1,2-Dichloropropane	ug/l	20.00	17.47	87	
cis-1,3-Dichloropropene	ug/l	20.00	17.91	90	
trans-1,3-Dichloropropene	ug/l	20.00	18.30	92	
Diisopropyl ether	ug/l	20.00	18.35	92	
Ethylbenzene	ug/l	20.00	20.46	102	
Methylene chloride	ug/l	20.00	16.33	82	

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QUALITY CONTROL DATA

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

LABORATORY CONTROL SAMPLE: 923406532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Methyl-tert-butyl ether	ug/l	20.00	19.46	97	
1,1,2,2-Tetrachloroethane	ug/l	20.00	18.24	91	
Tetrachloroethene	ug/l	20.00	18.84	94	
Toluene	ug/l	20.00	19.19	96	
1,1,1-Trichloroethane	ug/l	20.00	17.24	86	
1,1,2-Trichloroethane	ug/l	20.00	18.61	93	
Trichloroethene	ug/l	20.00	17.81	89	
Trichlorofluoromethane	ug/l	20.00	18.01	90	
Vinyl chloride	ug/l	20.00	22.78	114	
m&p-Xylene	ug/l	40.00	40.22	101	
o-Xylene	ug/l	20.00	19.02	95	
1-Chloro-3-fluorobenzene (S)				98	

MATRIX SPIKE: 923407043

Parameter	Units	923402051 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Benzene	ug/l	0	20.00	20.08	100	
Bromodichloromethane	ug/l	0	20.00	17.34	87	
Bromoform	ug/l	0	20.00	16.79	84	
Bromomethane	ug/l	0	20.00	19.50	98	
Carbon tetrachloride	ug/l	0	20.00	15.29	76	
Chlorobenzene	ug/l	0	20.00	20.32	102	
Chloroethane	ug/l	0	20.00	23.16	116	
Chloroform	ug/l	2.949	20.00	19.97	85	
Chloromethane	ug/l	0	20.00	15.09	76	
Dibromochloromethane	ug/l	0	20.00	17.45	87	
1,2-Dichlorobenzene	ug/l	0	20.00	22.16	111	
1,3-Dichlorobenzene	ug/l	0	20.00	19.80	99	
1,4-Dichlorobenzene	ug/l	0	20.00	20.83	104	
Dichlorodifluoromethane	ug/l	0	20.00	20.85	104	
1,1-Dichloroethane	ug/l	0	20.00	13.32	67	1
1,2-Dichloroethane	ug/l	0	20.00	15.70	78	
1,1-Dichloroethene	ug/l	0	20.00	15.50	78	
trans-1,2-Dichloroethene	ug/l	0	20.00	15.62	78	
1,2-Dichloropropane	ug/l	0	20.00	17.88	89	

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QUALITY CONTROL DATA

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

MATRIX SPIKE: 923407043

Parameter	Units	923402051 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
cis-1,3-Dichloropropene	ug/l	0	20.00	14.53	73	
trans-1,3-Dichloropropene	ug/l	0	20.00	17.95	90	
Diisopropyl ether	ug/l	0	20.00	19.67	98	
Ethylbenzene	ug/l	0	20.00	21.20	106	
Methylene chloride	ug/l	0	20.00	16.19	81	
Methyl-tert-butyl ether	ug/l	0	20.00	21.06	105	
1,1,2,2-Tetrachloroethane	ug/l	0	20.00	20.08	100	
Tetrachloroethene	ug/l	0	20.00	19.64	98	
Toluene	ug/l	0	20.00	19.92	100	
1,1,1-Trichloroethane	ug/l	0	20.00	15.39	77	
1,1,2-Trichloroethane	ug/l	0	20.00	19.40	97	
Trichloroethene	ug/l	0	20.00	17.36	87	
Trichlorofluoromethane	ug/l	0	20.00	15.20	76	
Vinyl chloride	ug/l	0	20.00	19.53	98	
m&p-Xylene	ug/l	0	40.00	41.01	102	
o-Xylene	ug/l	0	20.00	19.93	100	
1-Chloro-3-fluorobenzene (S)					99	

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QUALITY CONTROL DATA

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

QC Batch: 82847
QC Batch Method: EPA 8260
Associated Lab Samples: 923397921

Analysis Method: EPA 8260
Analysis Description: GC/MS VOCs 5035/8260 low level

METHOD BLANK: 923409510
Associated Lab Samples: 923397921

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	10.	
n-Butylbenzene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	10.	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	10.	
2-Chlorotoluene	ug/kg	ND	5.0	
4-Chlorotoluene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
Dibromomethane	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	10.	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

METHOD BLANK: 923409510
Associated Lab Samples: 923397921

Parameter	Units	Blank Result	Reporting Limit	Footnotes
2,2-Dichloropropane	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
Diisopropyl ether	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
Vinyl chloride	ug/kg	ND	10.	
Xylene (Total)	ug/kg	ND	5.0	
m&p-Xylene	ug/kg	ND	10.	
o-Xylene	ug/kg	ND	5.0	
Toluene-d8 (S)	%	103		
4-Bromofluorobenzene (S)	%	94		
Dibromofluoromethane (S)	%	118		
1,2-Dichloroethane-d4 (S)	%	110		

REPORT OF LABORATORY ANALYSIS

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SC Environmental 99030

Charlotte Certification IDs
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NC Drinking Water 37706
SC 99006

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

QUALITY CONTROL DATA

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

LABORATORY CONTROL SAMPLE: 923409528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/kg	50.00	53.72	107	
Bromobenzene	ug/kg	50.00	51.72	103	
Bromochloromethane	ug/kg	50.00	60.48	121	
Bromodichloromethane	ug/kg	50.00	53.92	108	
Bromoform	ug/kg	50.00	52.33	105	
Bromomethane	ug/kg	50.00	53.55	107	
n-Butylbenzene	ug/kg	50.00	48.36	97	
sec-Butylbenzene	ug/kg	50.00	51.25	103	
tert-Butylbenzene	ug/kg	50.00	51.79	104	
Carbon tetrachloride	ug/kg	50.00	54.85	110	
Chlorobenzene	ug/kg	50.00	53.25	107	
Chloroethane	ug/kg	50.00	55.74	111	
Chloroform	ug/kg	50.00	59.84	120	
Chloromethane	ug/kg	50.00	57.60	115	
2-Chlorotoluene	ug/kg	50.00	51.68	103	
4-Chlorotoluene	ug/kg	50.00	52.95	106	
1,2-Dibromo-3-chloropropane	ug/kg	50.00	48.09	96	
Dibromochloromethane	ug/kg	50.00	56.81	114	
1,2-Dibromoethane (EDB)	ug/kg	50.00	54.04	108	
Dibromomethane	ug/kg	50.00	54.05	108	
1,2-Dichlorobenzene	ug/kg	50.00	49.93	100	
1,3-Dichlorobenzene	ug/kg	50.00	51.75	104	
1,4-Dichlorobenzene	ug/kg	50.00	49.66	99	
Dichlorodifluoromethane	ug/kg	50.00	53.94	108	
1,1-Dichloroethane	ug/kg	50.00	60.12	120	
1,2-Dichloroethane	ug/kg	50.00	56.12	112	
1,1-Dichloroethene	ug/kg	50.00	63.81	128	
cis-1,2-Dichloroethene	ug/kg	50.00	59.76	120	
trans-1,2-Dichloroethene	ug/kg	50.00	59.91	120	
1,2-Dichloropropane	ug/kg	50.00	54.69	109	
1,3-Dichloropropane	ug/kg	50.00	53.91	108	
2,2-Dichloropropane	ug/kg	50.00	57.81	116	
1,1-Dichloropropene	ug/kg	50.00	59.15	118	
Diisopropyl ether	ug/kg	50.00	57.61	115	
Ethylbenzene	ug/kg	50.00	52.52	105	
Hexachloro-1,3-butadiene	ug/kg	50.00	43.88	88	
Isopropylbenzene (Cumene)	ug/kg	50.00	52.22	104	

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QUALITY CONTROL DATA

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

LABORATORY CONTROL SAMPLE: 923409528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
p-Isopropyltoluene	ug/kg	50.00	49.29	99	
Methylene chloride	ug/kg	50.00	57.72	115	
Methyl-tert-butyl ether	ug/kg	50.00	58.42	117	
Naphthalene	ug/kg	50.00	38.14	76	
n-Propylbenzene	ug/kg	50.00	52.55	105	
Styrene	ug/kg	50.00	53.60	107	
1,1,1,2-Tetrachloroethane	ug/kg	50.00	55.71	111	
1,1,2,2-Tetrachloroethane	ug/kg	50.00	54.03	108	
Tetrachloroethene	ug/kg	50.00	50.42	101	
Toluene	ug/kg	50.00	53.09	106	
1,2,3-Trichlorobenzene	ug/kg	50.00	37.43	75	
1,2,4-Trichlorobenzene	ug/kg	50.00	35.66	71	
1,1,1-Trichloroethane	ug/kg	50.00	58.91	118	
1,1,2-Trichloroethane	ug/kg	50.00	56.75	113	
Trichloroethene	ug/kg	50.00	53.27	107	
Trichlorofluoromethane	ug/kg	50.00	66.21	132	
1,2,3-Trichloropropane	ug/kg	50.00	55.34	111	
1,2,4-Trimethylbenzene	ug/kg	50.00	51.42	103	
1,3,5-Trimethylbenzene	ug/kg	50.00	51.06	102	
Vinyl chloride	ug/kg	50.00	56.82	114	
Xylene (Total)	ug/kg	150.00	158.5	106	
m&p-Xylene	ug/kg	100.00	105.7	106	
o-Xylene	ug/kg	50.00	52.84	106	
Toluene-d8 (S)				103	
4-Bromofluorobenzene (S)				102	
Dibromofluoromethane (S)				114	
1,2-Dichloroethane-d4 (S)				110	

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QUALITY CONTROL DATA

Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

QC Batch: 82615
QC Batch Method:
Associated Lab Samples: 923397921

Analysis Method: % Moisture
Analysis Description: Percent Moisture

SAMPLE DUPLICATE: 923398499

Parameter	Units	923391767 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	18.60	18.40	1	

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Lab Project Number: 9251810
Client Project ID: Old Sealtest Dairy

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

744575

Page: of

Required Client Information: **Section A**

Company: GEOLOGICAL RESOURCES, INC
Address: 2301 CROWN POINT EXECUTIVE DRIVE
SUITE F
CHARLOTTE, NC 28227
Phone: (704) 845-4010 Fax: (704) 845-4012

Required Client Information: **Section B**

Report To: SCOTT BALL
Copy To: —
Invoice To: GEOLOGICAL RESOURCES, INC.
P.O.
Project Name: OLD SEALTEST DAIRY
Project Number:

Client Information (Check quote/contract):
Requested Due Date: 10/10/03 *TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager:
Project #: 51810
Profile #:

Section D **Required** Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

Requested Analysis: 8260/5035 + IPE, MTBE; 601/602 + MTBE, IPE, XYLENES; EDB 504.1; VPH

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260/5035 + IPE, MTBE	601/602 + MTBE, IPE, XYLENES	EDB 504.1	VPH	Remarks / Lab ID
1	MW-1 (5-7')	SL	10/1/03	1110	4	1					2	1		X				JJ97921
2	MW-1	WT	10/1/03	7645	9				9						X	X	X	↓ 939
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					W. Scott Ball / GRI	10/2/03	1550	[signature] / Pace	10/2/03	1550
					[signature] / Pace	10/2/03	1645	[signature]	10/2	1645

SAMPLE CONDITION

Temp in °C	5.0
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

NEED LOWEST MDLS POSSIBLE ON GROUND WATER SAMPLE. RESULTS WILL DETERMINE SITE CLOSURE.
WSB

NC State lead

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: W SCOTT BALL
SIGNATURE of SAMPLER: W. Scott Ball
DATE Signed: (MM / DD / YY) 10/01/03

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev 0402