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Site Name	STATESVILLE BLVD CONTAMINATION
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Division	WASTE MANAGEMENT
Section	SUPERFUND
Program	IHS (IHS)
DocCat	FACILITY

235

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Division of Waste Management
UST Section
Mooresville Regional Office

PRE-CAP GROUNDWATER MONITORING REPORT

(Subsequent Report)

(June 5, 2007 Sampling Event)

QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NORTH CAROLINA

Latitude: 35°41' 58" N Longitude: 80°26' 6" W

NCDWM - UST Incident No. 21079
Facility ID 0-019963
Risk Classification: High 385
Land Use: Residential

Release Information
Date Discovered: April 13, 1999
Estimated Release Quantity: Unknown

Release Source: Commercial UST System
Capacity of Former USTs: (1) 6,000-gallon and (2) 10,000-gallon Gasoline USTs

Responsible Party:

Quality Oil Company, LLC
P.O. Box 2736
Winston-Salem, NC 27102-2736

Property Owners:

Mark and Martha Summers
18726 Old Statesville Rd.
Cornelius, NC 28031

NCDOT
4770 South Main St.
Salisbury, NC 28147

TerraQuest Project No. 01099

June 29, 2007

209 E. Main Street • Carrboro, North Carolina 27510
Telephone (919) 932-1590 • Facsimile (919) 932-1594
www.terraquestpc.com

Table 2
Date: 6/26/07

WATER SUPPLY WELL INFORMATION
Incident Name: Quality Mart No. 2 Incident No. 21079

Facility ID No. 0-019963

Parcel ID No. Well ID No.	Well Owner/Address	Well Address	Phone No.	Well Use	Well Depth (ft. BGS)	Type of Well	Casing Depth (ft. BGS)	Screen Interval (ft. BGS)	Distance from Source Area of Release (ft.)
330 023 APW1	William H. Beaver 219 Catawba Drive Salisbury, NC	2575 Statesville Blvd. Salisbury, NC 28144	704-636-0196	Abandoned	NA	NA	NA	NA	164
330 024 APW2	George Hupp Fink 1025 Kenley Road Salisbury, NC	2535 Statesville Blvd. Salisbury, NC 28144	704-636-4683	Abandoned	NA	NA	NA	NA	260
330 022 APW3	WW Partnership 1400 Battleground Avenue, suite 164 Greensboro, NC	114 Woodland Creek Drive Salisbury, NC 28147	704-633-2523	Abandoned	124	NA	NA	NA	145
330 108 PW2/PW6	Yorke B. & Jane Beaver 2675 Statesville Blvd. Salisbury, NC 28144	2675 Statesville Blvd. Salisbury, NC 28144	704-528-2335	Active - sole source of water	PW6 ~ 300 PW2-unknown	NA	NA	NA	355
329 047 PW3	Darell W. Cobb 2620 Staesville Blvd. Salisbury, NC 28147	2620 Staesville Blvd. Salisbury, NC 28144	704-637-6941	Active - sole source of water	unknown	NA	NA	NA	211
329 048 PW4	James Reid & Anna Cress 220 Neita Drive Salisbury, NC 28147	220 Neita Drive Salisbury, NC 28147	NA	Inactive - connected to city water	unknown	NA	NA	NA	275
329 049 PW5	James Arcus & Donnie Myers 224 Whispering Woods Orange Park, FL 32073	2660 Statesville Blvd. Salisbury, NC 28147	904-269-3356	Inactive - connected to city water	~ 200	NA	NA	NA	400
329 403 PW7	James W. Gant P.O. Box 311 Salisbury, NC 28147	185 Wilton Lane Salisbury, NC 28147	704-636-9512	Active - sole source of water	unknown	NA	NA	NA	525
329 170 PW8	Jane K. & Ted Walton 2680 Statesville Blvd. Salisbury, NC 28147	2680 Statesville Blvd. Salisbury, NC 28147	704-637-1358	Active - sole source of water	unknown	NA	NA	NA	590
330 042 PW9	Jayne Koontz Walton 2680 Statesville Blvd. Salisbury, NC 28147-7446	2720 Statesville Blvd. Salisbury, NC 28147-7446	704-636-4979	Active - sole source of water	unknown	NA	NA	NA	765
329 130 PW10	Peter & Nancy Decoster 215 Wilton Lane Salisbury, NC 28144	215 Wilton Lane Salisbury, NC 28144	704-637-0408	Active - sole source of water	unknown	NA	NA	NA	725
330 119 PW11	Richard Lee & Annie Cooley 1325 Powell Road Woodleaf, NC	2830 Statesville Blvd. Salisbury, NC 28147	NA	Inactive - connected to city water in 1999	unknown	NA	NA	NA	915
329 131 PW12	Peter & Nancy Decoster 215 Wilton Lane Salisbury, NC 28144	Wilton Lane Salisbury, NC 28147	NA	Inactive - vacant	unknown	NA	NA	NA	1,210
330 068 PW13	Piedmont Farm Credit ACCA, Inc. P.O. Box 1827 Statesville, NC	2810 Statesville Blvd. Salisbury, NC 28147	NA	Inactive - connected to city water	unknown	NA	NA	NA	1,175
329 407 PW14	Agner Family Properties 170 Frances Street Salisbury, NC	Statesville Blvd. Salisbury, NC 28147	NA	Inactive - connected to city water	unknown	NA	NA	NA	1,415
330 026 PW15	Mildred Poteat 160 Majolica Road Salisbury, NC	160 Majolica Road Salisbury, NC	NA	Secondary source well Connected to city water	~220	Drilled	NA	NA	680
330 116 PW16	Harry E. Lippard 145 Majolica Road Salisbury, NC	145 Majolica Road Salisbury, NC	NA	Active - sole source of water	~220 - 240	Drilled	120	NA	990
330 100 PW17	Steven Ray Morrison II 884 Scotts Creek Road Statesville, NC	150 Neita Drive Salisbury, NC	NA	Active - sole source of water	NA	NA	NA	NA	1,185
330 121 PW18/PW19	Clyde W. & Mary Granberry 280 Neita Drive Salisbury, NC	2715 Statesville Blvd. Salisbury, NC	NA	Active - sole source of water	PW18 - NA PW19 - NA	NA	NA	NA	675/695

Notes:
1. ft. BGS - feet below ground surface // NA - Not Available.
2. Information obtained from TerraQuest field interviews and returned survey forms.
3. Well ID numbers are displayed on Figure 2.
4. Distances are approximate
5. Note that APW1, 2, & 3 were abandoned. Also note that APW3 was formerly PW1.
6. Updated January 2007.

Table 3

Date: 6/25/07

MONITORING WELL CONSTRUCTION INFORMATION

Incident Name: Quality Mart No. 2 Incident No. 21079

Facility ID No: 0-019963

Well ID	Date Installed	Date Water Level Measured	Well Casing Depth (ft. BGS)	Screened Interval (x to y ft. BGS)	Bottom of Well (ft. BGS)	Top of Casing Elevation (feet)	Depth to Water from Top of Casing (feet)	Free Product Thickness (feet)	Groundwater Elevation (feet)	Comments
MW1	7/12/99	6/5/07	20	20-30	30	101.36	27.24	-	74.12	Type II well
MW2	7/12-13/99	6/5/07	OC: 33 IC: 37	37-48	48	101.48	28.75	-	72.73	Type III well
MW3	7/13/99	-	20	20-35	35	101.10	-	-	-	Type II well
MW3A	7/13/04	6/5/07	35	20-35	35	100.96	26.67	-	74.29	Type II well
MW4	7/13/99	-	20	20-35	35	100.00	-	-	-	Type II well
MW5	7/13/99	6/5/07	20	20-35	35	101.22	26.88	-	74.34	Type II well
MW6	3/13/00	6/5/07	15	15-25	35	95.25	22.94	-	72.31	Type II well
MW7	3/13/00	-	20	20-35	35	100.16	-	-	-	Type II well
MW8	3/14/00	-	20	20-35	35	101.18	-	-	-	Type II well
MW9	3/13/00	-	20	20-35	35	100.53	-	-	-	Type II well
MW10	5/3/00	-	19	19-24	24	95.84	-	-	-	Type II well
MW10A	7/13/04	6/5/07	27	20-27	27	97.11	24.65	-	72.46	Type II well/stickup 40"
MW11	8/30/00	-	20	20-35	35	97.71	-	-	-	Type II well
MW11A	7/12/04	6/5/07	27	20-27	27	95.57	23.72	-	71.85	Type II well/stickup 40.5"
MW12	8/30/00	-	22.5	22.5-37.5	37.5	99.27	-	-	-	Type II well
MW12A	7/13/04	6/5/07	35	20-35	35	99.47	26.47	-	73.00	Type II well
MW13	8/30/00	6/5/07	20	20-35	35	93.61	21.35	-	72.26	Type II well
MW14	11/6/00	6/5/07	15	15-35	35	93.04	21.19	-	71.85	Type II well
MW15	11/6/00	-	15	15-35	35	94.75	-	-	-	Type II well
MW15A	7/19/04	6/5/07	30	15-30	30	95.68	23.05	-	72.63	Type II well
MW16	11/7/00	6/5/07	11.5	11.5-31.5	31.5	88.12	18.53	-	69.59	Type II well
MW17	11/6/00	-	37	15-35	35	95.58	-	-	-	Type II well
MW17A	7/12/04	6/5/07	31	21-31	31	96.71	25.30	-	71.41	Type II well/stickup 43.75"
MW18	7/19-20/04	6/5/07	OC: 35 IC: 45	45-50	50	97.51	25.46	-	72.05	Type III well/stickup 43"

Notes:

1. All units in feet.
2. OC = outer casing, IC = inner casing
3. Shading indicates monitoring well is abandoned.
4. (-) indicates no product detected or not applicable.

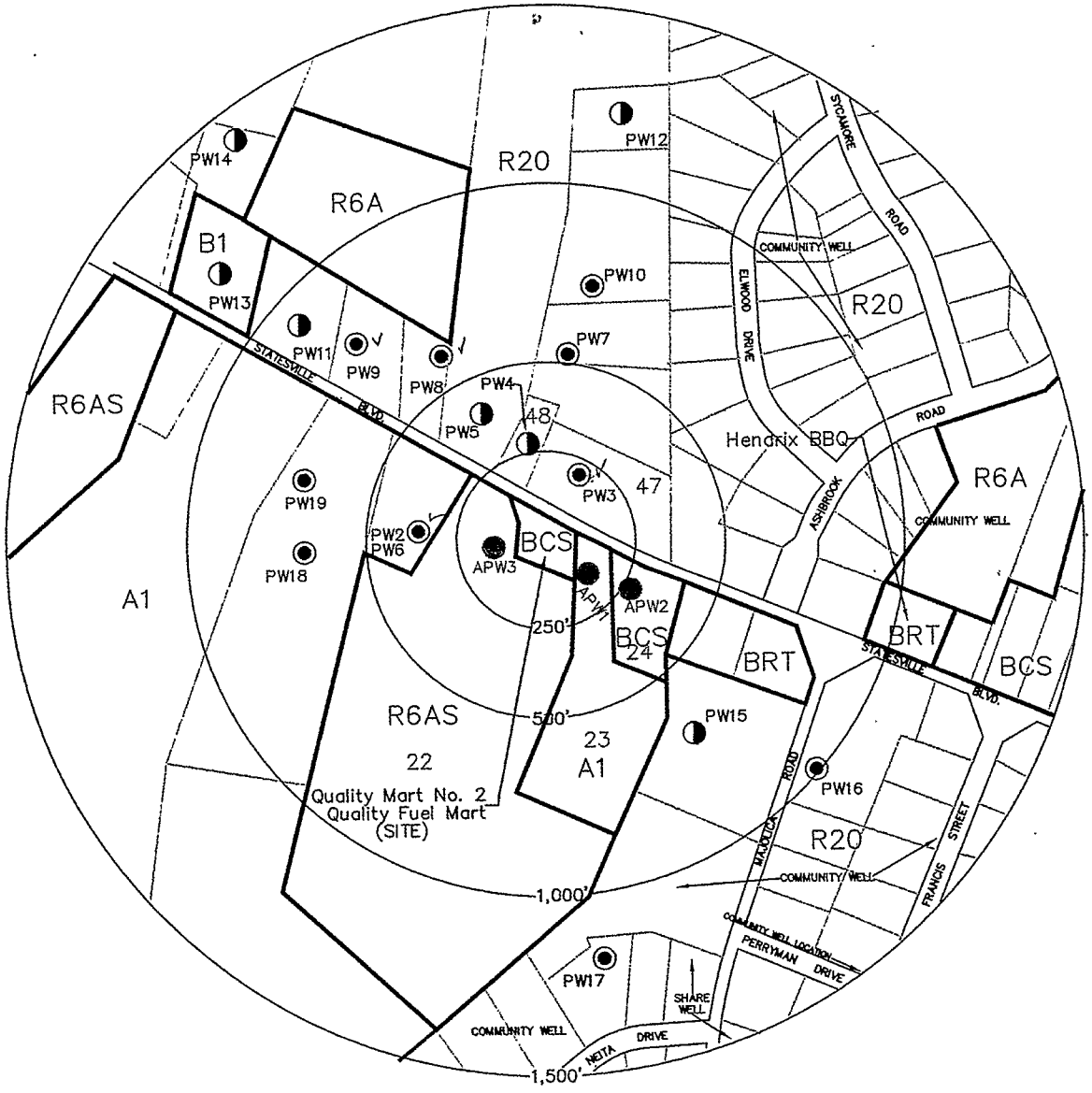
Table 4
Date: 6/26/07

SUMMARY OF GROUNDWATER SAMPLING RESULTS
Incident Name: Quality Mart No. 2 Incident No. 21079

Facility ID No: 0-019963

Analytical Method:		6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6010B(3030C digestion)
Contaminant of Concern:													
Well ID	Date Collected	Benzene	Toluene	Ethylbenzene	Total Xylenes	MtBE	IPE	Naphthalene	Isopropylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Tetrachloroethene	Lead
MW1	6/5/2007	<1.0	<5.0	<1.0	<3.0	**56.0**	**5.6**	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0
MW2	6/5/2007	<1.0	<5.0	<1.0	<3.0	**7.3**	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0
MW3A	6/5/2007	**6.7**	<5.0	**4.5**	**23.5**	**270**	**24.0**	<5.0	**1.1**	**4.1**	**3.5**	<1.0	**10.0**
MW6	6/5/2007	<1.0	<5.0	<1.0	<3.0	**18.0**	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	**7.8**
MW10A	6/5/2007	**6.5**	<5.0	<1.0	**2.1**	**130**	**3.6**	<5.0	<1.0	**8.6**	**3.1**	<1.0	<5.0
MW11A	6/5/2007	**3.8**	<5.0	<1.0	<3.0	**360**	**2.6**	<5.0	<1.0	**1.1**	**2.1**	<1.0	<5.0
MW13	6/5/2007	<1.0	<5.0	<1.0	<3.0	**24.0**	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0
MW14	6/5/2007	<1.0	<5.0	<1.0	<3.0	**1.8**	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0
MW17A	6/5/2007	<1.0	<5.0	<1.0	<3.0	**3.5**	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	**10.0**
MW18	6/5/2007	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	**1.0**	<5.0
PW3	6/5/2007	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	**1.1**	<5.0
PW15	6/5/2007	<1.0	<5.0	<1.0	<3.0	**16.0**	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	**180**
PW16	6/5/2007	<1.0	<5.0	<1.0	<3.0	**4.7**	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0
	2L Standard	1	1,000	29	530	200	70	21	70	350	350	0.7	15

Notes:
1. All results in µg/L.
2. **BOLD** denotes a detected concentration above the laboratory's sample-specific method detection limit.
3. Shading denotes a concentration above the applicable 2L Standard.
4. "<" denotes no detection at concentration above the laboratory's sample-specific method detection limit.



LEGEND

R20	Residential
R6A	Multi–Family Residential
R6AS	Multi–Family Residential
A1	Agricultural
B1	Office Business
BRT	Retail Trade Business
BCS	Convenience Service Business
———	Zoning Boundary
PW1	Active Potable Well
PW1	Inactive Potable Well
APW1	Abandoned Potable Well

The last two digits of the tax parcel number are shown for properties surrounding the site. Refer to Table 2 for the complete number and tax parcel numbers of other well owners.

Reconnaissance performed by TerraQuest in July 2004.

Properties without wells within 1,500' of the site that are not located on Statesville Blvd. receive their water supply from community wells which are located beyond 1,500'.

GRAPHIC SCALE

0' 250' 500' 1,000'

SITE VICINITY MAP
QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC WINSTON–SALEM, NC

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

PROJECT NO.	01099	DATE:	6/26/07
CHECKED BY:	MJB	SCALE:	1"=500'
DRAWN BY:	MJB/JAK	FIGURE NO.	2

Updated 3-7-11 DRAFT COPY

Quality Mart No. 2 UST Incident # 21079

No.	Tax Parcel #	Property Owner#	Property Address Location#	Owner Address#	Description#	UST Report Water Supply Well & <Notes>	Reported Municipal Connection*	Property Owner Notice of Interest	Water Supply Survey
1	330 021	RUSSELL FORBUS LEE SR &WF / RUSSELL CYNTHIA PROCTOR	Statesville Boulevard	785 BRIGGS RD, SALISBURY, NC 28147	Single Family Dwelling				Property not improved but connected to municipal water 1-31-11
2	330 121	GRANBERRY CLYDE W & WF / GRANBERRY MARY B	2715 Statesville Boulevard	280 NEITA DR, SALISBURY, NC 28147	Single Family Dwelling	**PW-18, PW-19**	**No**		
3	330 117	GRANBERRY CLYDE W & WF / GRANBERRY MARY B	Statesville Boulevard	280 NEITA DR, SALISBURY, NC 28147	Unimproved				
4	330 108	BEAVER YORKE BROWN & WF / BEAVER JANE W	2675 Statesville Boulevard	2675 STATESVILLE BLVD, SALISBURY, NC 28147	Single Family Dwelling	↓ ↓ **PW-2, PW-6**	**No**		
5	330 022	WW PARTNERSHIP	Statesville Boulevard <400 Woodland Creek Drive>	q	Apartment / Townhouse	*APW3*	No <?>		Property connected to municipal water 2-22-11
6	330 071	SUMMERS MARK L &WF / SUMMERS MARTHA J	2625 Statesville Boulevard	18726 OLD STATESVILLE RD, CORNELIUS, NC 28031	Convenience Store	*<Quality Mart No. 2 # 21079>*	No		
7	330 023	BEAVER WILLIAM HOWARD	2575 Statesville Boulevard	1300 LARCHMONT PL APT 405, SALISBURY, NC 28144	Single Family Dwelling	*APW1*	No		Not occupied, former residence demolished 2-14-11
8	330 024	FINK GEORGE HUPP	2535 Statesville Boulevard	1025 KEPLEY RD, SALISBURY, NC 28147	Unimproved		No		
9	330 074	TAYLOR BRUCE F & WF / TAYLOR ROSEMARIE H	2515 Statesville Boulevard	420 STEEPLE CHASE TRL, SALISBURY, NC 28144	Service Garage		Yes		
10	330 025	TAYLOR BRUCE F & WF/ TAYLOR ROSEMARIE H	2503 Statesville Boulevard	420 STEEPLE CHASE TRL, SALISBURY, NC 28144	Warehouse	*<Westcliff BP # 17434>*	No		
11	330 026	POTEAT MILDRED H	160 Majolica Road	4500 TANTILLA CIR, CHARLOTTE, NC 28215	Single Family Dwelling	PW-15	Yes		
12	330 027	SEAMON WESLEY MONROE	180 Majolica Road	180 MAJOLICA RD, SALISBURY, NC 28147	Single Family Dwelling	Community Well	Yes		Property connected to municipal water 1-31-11
13	330 116	LIPPARD HARRY EDWARD & WF / LIPPARD SUSAN GLOVER	145 Majolica Road	145 MAJOLICA RD, SALISBURY, NC 28147	Single Family Dwelling	**PW-16**	Yes	**Discussed w/ Susan Lippard 3-7-11. Notice of Interest Sent 3-8-11**	**Property NOT connected to municipal water 1-31-11**
14	330 119	COOLEY RICHARD LEE	Statesville Boulevard	203 COOLEY FARM RD, WOODLEAF, NC 27054	Unimproved	PW-11			

Updated 3-7-11 DRAFT COPY

Quality Mart No. 2 UST Incident # 21079

No.	Tax Parcel #	Property Owner#	Property Address Location#	Owner Address#	Description#	UST Report Water Supply Well & <Notes>	Reported Municipal Connection*	Property Owner Notice of Interest	Water Supply Survey
15	330 042	WALTON JAYNE KOONTZ	2720 Statesville Boulevard	2720 STATESVILLE BLVD, SALISBURY, NC 28147	Single Family Dwelling	**PW-9**	**No**	**Yes-Property Owner wants to proceed 2-25-11**	
16	329 170	WALTON JAYNE K & HS / WALTON TED A	2680 Statesville Boulevard	2720 STATESVILLE BLVD, SALISBURY, NC 28147	Single Family Dwelling	**PW-8**	**No**	yes	
17	329 050	MYERS DONNIE A & WF / MYERS MARGARET R	Willow Road	224 WHISPERING WOODS DR, ORANGE PARK, FL 32003	Unimproved				Property not improved or occupied 2-25-11
18	329 049	MYERS JAMES ARCUS / MYERS DONNIE A	2660 Statesville Boulevard	224 WHISPERING WOODS DR, ORANGE PARK, FL 32003	Single Family Dwelling	PW-5	Yes		Property connected to municipal water 2-25-11
19	329 048	LOUELLA M CAUBLE HEIRS	2630 Statesville Boulevard	% BRENDA HATLEY, 2640 STATESVILLE BLVD, SALISBURY, NC 28147	Single Family Dwelling	PW-4	Yes		Property connected to municipal water 2-4-11
20	329 047	VARIETY WORLD INC	2620 Statesville Boulevard	414 WILLOW RD, SALISBURY, NC 28147	Single Family Dwelling	**PW-3**	**No**	**Yes-Property Owner wants to proceed 2-2-11**	
21	329 084	HATLEY BRENDA CAUBLE	145 Wilton Lane	2640 STATESVILLE BLVD, SALISBURY, NC 28147	Single Family Dwelling		No		Property connected to municipal water 2-4-11
22	329 403	GANT ERLENE M	185 Wilton Lane	185 WILTON LN, SALISBURY, NC 28147	Single Family Dwelling	**PW-7**	**No**		
23	329 130	DECOSTER PETER &WF / DECOSTER NANCY	215 Wilton Lane	215 WILTON LN, SALISBURY, NC 28147	Single Family Dwelling	**PW-10**	**No**		
24	329C307	KELLY JAMES M & WF / KELLY MARJORIE	Statesville Boulevard	104 ASHBROOK RD, SALISBURY, NC 28147	Unimproved				

Updated 3-7-11 DRAFT COPY

Quality Mart No. 2 UST Incident # 21079

No.	Tax Parcel #	Property Owner#	Property Address Location#	Owner Address#	Description#	UST Report Water Supply Well & <Notes>	Reported Municipal Connection*	Property Owner Notice of Interest	Water Supply Survey
25	329C144	KELLY JAMES M & WF / KELLY MARJORIE	104 Ashbrook Road	104 ASHBROOK RD, SALISBURY, NC 28147	Single Family Dwelling		Yes		Property is connected to municipal water 2-3-11
26	329C282	GILLESPIE AMY L	Elmwood Drive	2231 OLD WILKESBORO RD, SALISBURY, NC 28144	Unimproved				
27	329C178	GILLESPIE AMY L	103 Elmwood Drive	2231 OLD WILKESBORO RD, SALISBURY, NC 28144	Single Family Dwelling		Yes		
28	329C122	NIEDERMAN RONALD LEE &WF / NIEDERMAN NANCY DULLI	105 Elmwood Drive	105 ELMWOOD DR, SALISBURY, NC 28147	Single Family Dwelling		Yes		
29	329C135	WAGONER LARRY D & WF / WAGONER CAROLINE K	107 Elmwood Drive	107 ELMWOOD DR, SALISBURY, NC 28147	Single Family Dwelling		Yes		Property is connected to municipal water 2-1-11
30	329C171	REZNICEK LOIS G & / WADDICK MARY L	111 Elmwood Drive	111 ELMWOOD DR, SALISBURY, NC 28147	Single Family Dwelling		Yes		
31	329C182	AMENTA ANTHONY JOSEPH SR / AMENTA JOANNE MARY	<113> Elmwood Drive	113 ELMWOOD DR, SALISBURY, NC 28147	Single Family Dwelling		Yes		
32	329C309	MCGUIRE JAMES H & WF / MCGUIRE BARBARA J	115 Elmwood Drive	115 ELMWOOD DR, SALISBURY, NC 28147	Single Family Dwelling		Yes		
33	329 076	T GARRIS PROPERTIES / C/O HENDRIX BAR-B-QUE	2488 Statesville Boulevard	450 PERRELL RD, WOODLEAF, NC 27054	Restaurant		Yes		Occupant/owner reported a municipal city water connection 2-1-11

Updated 3-7-11 DRAFT COPY

Quality Mart No. 2 UST Incident # 21079

No.	Tax Parcel #	Property Owner#	Property Address Location#	Owner Address#	Description#	UST Report Water Supply Well & <Notes>	Reported Municipal Connection*	Property Owner Notice of Interest	Water Supply Survey
34	329 183	ROLLING HILLS TOWN HOME LLC / OFFICE EQ & FURNISHD APT FIXTU	<315> Ashbrook Road	315 ASHBROOK RD, SALISBURY, NC 28147	Apartment / Townhouse		Yes		
35	329C261	T GARRIS PROPERTIES / C/O HENDRIX BAR-B-QUE	Statesville Boulevard	450 PERRELL RD, WOODLEAF, NC 27054	Unimproved				
36	329C179	KNOX JOHN W & WF / KNOX PENNY N	103 Ashbrook Road	103 ASHBROOK RD, SALISBURY, NC 28147	Single Family Dwelling		Yes		Property connected to municipal water 2-3-11
37	329C151	ALDRICH BOBBY EUGENE / ALEXANDER DOROTHY A	105 Ashbrook Road	PO BOX 2103, SALISBURY, NC 28145	Single Family Dwelling		Yes		Property connected to municipal water 2-8-11
38	329C283	ALDRICH-BRYAN DOROTHY L	105 Ashbrook Road	GREENBRIAR WEST APTS, 2220 C ST APT 104, SAN DIEGO, CA 92102	Unimproved		Yes <?>		
39	329C287	BERGER MARK S & WF / BERGER LISA A	Ashbrook Road	104 ELMWOOD DR, SALISBURY, NC 28147	Unimproved				
40	329C137	BERGER MARK S & WF / BERGER LISA A	104 Elmwood Drive	104 ELMWOOD DR, SALISBURY, NC 28147	Single Family Dwelling		Yes		
41	329C181	SHATTERLY RALPH E & WF / SHATTERLY SHARON F	106 Elmwood Drive	106 ELMWOOD DR, SALISBURY, NC 28147	Single Family Dwelling		Yes		
42	329C134	GBUNBLEE HILARY FLUMO JR	108 Elmwood Drive	108 ELMWOOD DR, SALISBURY, NC 28147	Single Family Dwelling		Yes		
43	329C180	WRIGHT RICHARD ALLEN SR & / WRIGHT RENEE S	110 Elmwood Drive	110 ELMWOOD DR, SALISBURY, NC 28147	Single Family Dwelling		Yes		Property (reported as 100 Elmwood Drive) is connected to municipal water.

Updated 3-7-11 DRAFT COPY

Quality Mart No. 2 UST Incident # 21079

No.	Tax Parcel #	Property Owner#	Property Address Location#	Owner Address#	Description#	UST Report Water Supply Well & <Notes>	Reported Municipal Connection*	Property Owner Notice of Interest	Water Supply Survey

CSA Westcliff BP # 17434

Property Address Location	Reported Municipal Connection*	Water Supply Survey
2705 Statesville Boulevard	No	
2655 Statesville Boulevard	Yes	
2640 Statesville Boulevard	Yes	Property connected to municipal water 2-4-11

#Rowan County GIS
*Melanie Reeder, City of Salisbury, January 18, 2011
NOTE: Data is draft and has not been validated.

NCDENR
North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

RECEIVED
NCDENR
Division of Waste Management
DEC 07 2010
UST Section
Mooresville Regional Office

December 3, 2010

TO: Dan Graham
Mooresville Regional Office
NC UST Section

FROM: Hanna Assefa
Environmental Toxicologist
NC Division of Waste Management

RE: Health Risk Evaluation
Lippard Well Sampling Results
PW-16
Majolica Rd.
Salisbury, Rowan County
Tracking ID: Incident 21079

During this sampling event, 4 contaminants were detected in the well water. None of the contaminants detected exceeded applicable standards. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If any contaminant concentrations exceed applicable standards for using the water for drinking and cooking, those contaminant concentrations are further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentrations with the applicable standards:

Sample ID	Contaminant	Concentration (ug/l)*	MCL (ug/l)	2L (ug/l)
LJ23003-006	Chloroform	0.57	80**	
	Chloromethane	0.65		3
	Methyl tertiary butyl ether	5.1	~~5~~	20 HA 01/07/201
	Tetrachloroethene	2.0	5	

* The abbreviation ug/l stands for micrograms of contaminant per liter of water and is roughly equivalent parts per billion.
** As total trihalomethanes.

RECOMMENDATION: None of the contaminants detected exceeded the applicable water standards. Therefore, no restrictions on the use of this water are recommended at this time.

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-508-8400 \ FAX: 919-715-4061 \ Internet: www.wastenotnc.org

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North Carolina Department of Environment and Natural Re

Beverly Eaves Perdue, Governor

Division of Waste Management
UST Section

Dee Freeman
Dexter R. Matthews

DEC

November 30, 2010

MEMORANDUM

TO: Dave Lilley, Environmental Toxicologist, Division of Waste Management
Center, Raleigh, NC 27699-1646 (FAX (919) 733-4811)

FROM: Dan Graham, Mooresville Regional Office, UST Section DG

SUBJECT: Request for Health Risk Evaluation of Water Supply
Tracking ID: Incident #21079/PW-16

Enclosed please find the analytical results for a water sample collected on October 23, 201 the Lippard water supply well, identified as PW-16, located at Majolica Road, Salisbury, Rowan Please perform a health risk evaluation and send the evaluation with your recommenda this memo to me. I will then forward the health risk evaluation and recommendation to any well

If you have questions or need additional information, please contact me at the telephone number below. Thank you for your assistance.

Attachment(s): PW-16/Lippard Well Sample Analytical Results

UST Regional Offices

Asheville (ARO) – 2090 US Highway 70, Swannanoa, NC 28778 **(828) 296-4500**

Fayetteville (FAY) – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 **(910) 433-3300**

Mooresville (MOR) – 610 East Center Avenue, Suite 301, Mooresville, NC 28115 **(704) 663-1699**

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**

Washington (WAS) – 943 Washington Square Mall, Washington, NC 27889 **(252) 946-6481**

Wilmington (WIL) – 127 Cardinal Drive Extension, Wilmington, NC 28405 **(910) 796-7215**

Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 **(336) 771-5000**

Guilford County Environmental Health, 1203 Maple Street, Greensboro, NC 27405, **(336) 641-3771**

Lippardwsw.hre102

* The abbreviation ug/l stands for micrograms of contaminant per liter of water and is roughly equivalent parts per billion.

** As total trihalomethanes.

RECOMMENDATION: None of the contaminants detected exceeded the applicable water standards. Therefore, no restrictions on the use of this water are recommended at this time.

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Phone: 919-508-8400 \ FAX: 919-715-4061 \ Internet: www.wastenotnc.org

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MAR 15 2010

UST Section
Mooresville Regional Office

March 11, 2010

Dan Graham
NCDWM-UST
Mooresville Regional Office
610 East Center Avenue, Suite 301
Mooresville, NC 28115

Re: Pre-CAP Groundwater Monitoring Report (Subsequent Report)
Quality/Quality Mart No. 2,
NCDMW-UST Incident No. 21079
Terraquest Project No. 01099

Dear Mr. Graham:

On behalf of Quality Oil Company, LLC, Terraquest Environmental Consultants, P.C. is submitting the enclosed Pre-CAP Groundwater Monitoring Report for the Quality Mart No. 2 facility.

The groundwater analytical results of the December 28, 2009 sampling event reveal the continued presence of petroleum-type compounds at concentrations that exceed the 2L Standards in groundwater near the former Quality Mart No. 2 facility. The analyses also revealed the presence of a distinctly separate petroleum-contaminant plume at the former Westcliff BP facility. Both plumes contain concentrations of MTBE that exceed the 2L Standard for that compound.

Terraquest is currently in the process of obtaining access to an offsite property for the purpose of installing pilot test wells and additional vertical delineation wells. Terraquest will move forward with drilling and pilot testing once access is granted and a well construction permit can be obtained.

Should you have any questions regarding this report or the project, please contact us at (919) 563-9091. Thank you.

Sincerely,

TERRAQUEST ENVIRONMENTAL CONSULTANTS, P.C.

Ryan D. Kerins
Project Manager

Enclosure: Pre-CAP Groundwater Monitoring Report

cc: Mr. Brian Rhymer – Quality Oil Company, LLC

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

PRE-CAP GROUNDWATER MONITORING REPORT

(Subsequent Report)

(December 28, 2009 Sampling Event)

QUALITY MART NO. 2
2625 STATESVILLE BLVD.
SALISBURY, NORTH CAROLINA

Latitude: 35.6994° N Longitude: 80.435° W

NCDWM - UST Incident No. 21079
Facility ID 0-019963
Risk Classification: HIGH (H285R)
Land Use: Residential

Release Information
Date Discovered: April 13, 1999
Estimated Release Quantity: Unknown

Release Source: Commercial UST System
Capacity of Former USTs: (1) 6,000-gallon and (2) 10,000-gallon Gasoline USTs

Responsible Party:

Quality Oil Company, LLC
P.O. Box 2736
Winston-Salem, NC 27102-2736

Property Owner:

Mark and Martha Summers
18726 Old Statesville Rd.
Cornelius, NC 28031

Terraquest Project No. 01099

March 11, 2010

100 E. Ruffin Street • Mebane, North Carolina 27302
Telephone (919) 563-9091 • Facsimile (919) 563-9095
www.terraquestpc.com

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Division of Waste Management

MAR 15 2010

UST Section
Mooresville Regional Office

CERTIFICATION FOR THE SUBMITTAL
OF AN ENVIRONMENTAL / GEOLOGICAL ASSESSMENT

Attached is the Pre-CAP Groundwater Monitoring Report (Subsequent Report) for:

Responsible Party:	Quality Oil Company, LLC				
Address:	P.O. Box 2736				
City:	Winston-Salem	State:	NC	Zip Code:	27102-2736
Site Name:	Quality Mart No. 2				
Address:	2625 Statesville Blvd.				
City:	Salisbury	State:	NC	Zip Code:	28147

I, Michael J. Brown, a Licensed Geologist in the State of North Carolina for Terraquest Environmental Consultants, P.C. do hereby certify that I am familiar with and have reviewed all material including figures within this report and that to the best of my knowledge the data, site assessments, figures, and other associated materials are correct and accurate. All work was performed under my direct supervision. My seal and signature are affixed below. Additional seals and/or signatures are also affixed below.

Terraquest Environmental Consultants, P.C. is licensed to practice geology in North Carolina. The certification number of the corporation is C-291.

TERRAQUEST ENVIRONMENTAL CONSULTANTS, P.C.

NORTH CAROLINA LICENSED SEAL 1185 GEOLOGIST MICHAEL J. BROWN

Ryan D. Kerins
Project Manager

Michael J. Brown, P.G.
President

1.0 INTRODUCTION

On behalf of Quality Oil Company, LLC, Terraquest Environmental Consultants, P.C. is reporting results of groundwater monitoring activities at the former Quality Mart No. 2 facility located in Salisbury, North Carolina. In compliance with the NCDWM-UST's NORR dated, October 31, 2006, Terraquest personnel conducted a groundwater monitoring event at the Quality Mart No. 2 facility on December 28, 2009. A review of that data revealed that sampling of additional Westcliff BP (Incident # 17434) groundwater monitoring wells would be beneficial in understanding the exact location of the two release incidents. Six of the Westcliff BP wells were sampled on February 15, 2010. This report details the December 28, 2009 and February 15, 2010 sampling events. These activities were pre-approved under Task Authorization No. 21079-022 and -022A.

The site location is depicted in Figure 1. The site vicinity and nearby water supply wells are depicted in Figure 2. Figure 3 depicts the layout of the site including the monitoring well network. Environmental acronyms used in this report are detailed in Appendix A along with Terraquest's technical methods and standard procedures.

2.0 GROUNDWATER FLOW DIRECTION

Prior to purging and sampling the monitoring well network, depth-to-groundwater measurements were collected on December 28, 2009 to identify the location of the phreatic aquifer and determine the direction of its flow. Groundwater measurements have been reduced to a common datum by surveying the relative elevations of the top of the casing for each monitoring well. The calculated water table elevations were plotted on a plan of the site and used to create a contour map of the water table surface as shown on Figure 4. As shown on Figure 4, groundwater is directed to the southeast as it has been historically. Elevation data collected on December 28, 2009 is summarized in Table 1 along with monitoring well construction information.

3.0 GROUNDWATER MONITORING

On December 28, 2009, Terraquest personnel sampled monitoring wells MW1, MW2, MW3A, MW5, MW6, MW10A, MW11A, MW12A, MW13, MW14, MW15A, MW17A, MW18, BPMW4, BPMW11, and potable well PW16. The Westcliff BP monitoring wells BPMW1R, BPMW2, BPMW5, BPMW12R, BPMW13R, and BPMW10 were sampled on February 15, 2010. Prior to sampling the monitoring wells, each well was purged of at least three well volumes of water using a new disposable bailer; the potable well was purged using its pump. Bailers were used to retrieve a groundwater sample from each monitoring well. Upon retrieval, samples were placed into the appropriate laboratory-prepared containers and placed on ice pending transit to a North Carolina-certified laboratory for analysis. All of the groundwater samples were submitted for analysis per 6200B for VOCs.

The analytical results revealed petroleum-type compounds at concentrations as follows:

> 2L Standards:	MW11A, MW18, BPMW4, BPMW11, BPMW2, and BPMW12R
< 2L Standards:	MW1, MW2, MW3A, MW5, MW6, MW10A, MW13, MW14, MW17A, BPMW1R, BPMW5, BPMW10, BPMW13R, and POTABLE WELL PW16
< detection limit:	MW12, MW15A

Groundwater analytical data is summarized on Table 2 and on Figure 5. The estimated extent of 2L Standard violations in groundwater is displayed on Figure 5. Note that there are not enough data points to support isoconcentration maps for any individual compound. The full analytical reports are provided in Appendix B. Historical analytical data sheets are provided for each of the former/current groundwater monitoring and potable wells in Appendix C.

4.0 CONCLUSIONS / RECOMMENDATIONS

The groundwater analytical results of the December 28, 2009 sampling event reveal the continued presence of petroleum-type compounds at concentrations that exceed the 2L Standards in groundwater near the former Quality Mart No. 2 facility. The analyses also revealed the presence of a distinctly separate petroleum-contaminant plume at the former Westcliff BP facility. Both plumes contain concentrations of MTBE that exceed the 2L Standard for that compound.

Terraquest is currently in the process of obtaining access to an offsite property for the purpose of installing pilot test wells and additional vertical delineation wells. Terraquest will move forward with drilling and pilot testing once access is granted and a well construction permit can be obtained.

5.0 LIMITATIONS

This report is limited to the investigation of dissolved petroleum hydrocarbons, such as gasoline, in groundwater and does not imply that other unforeseen adverse impacts to the environment are not present at or around the site in question. In addition, subsurface heterogeneities not identified during the current study may influence the migration of groundwater or contaminants in unpredicted ways. The limited amount of sampling and testing conducted during this study cannot practically reveal all subsurface heterogeneities. Furthermore, the subsurface conditions, particularly groundwater flow, elevations, and water quality, may vary through time. The opinions and conclusions determined in this report are in accordance with industry-accepted geologic and hydrogeologic practices at this time and location. No warranty is implied or intended.

Table 1

MONITORING WELL CONSTRUCTION INFORMATION

Date: 3/9/10

Incident Name: Quality Mart No. 2 Incident No. 21079

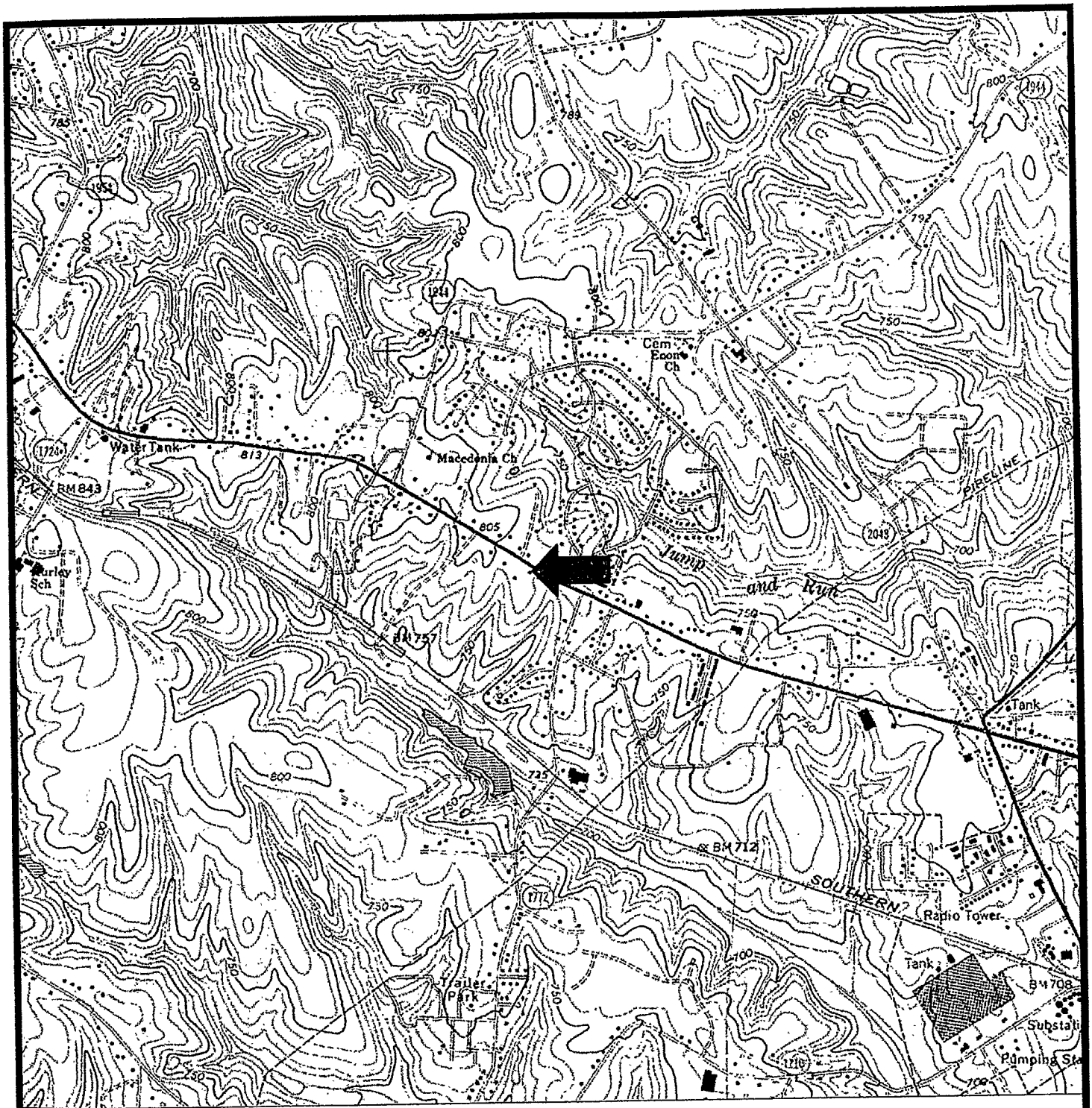
Facility ID No: 0-019963

Well ID	Date Installed	Date Water Level Measured	Well Casing Depth (ft. BGS)	Screened Interval (x to y ft. BGS)	Bottom of Well (ft. BGS)	Top of Casing Elevation (feet)	Depth to Water from Top of Casing (feet)	Free Product Thickness (feet)	Groundwater Elevation (feet)	Comments
MW1	7/12/99	12/28/09	20	20-30	30	101.36	28.67	-	72.69	Type II well
MW2	7/12-13/99	12/28/09	OC: 33 IC: 37	37-48	48	101.48	30.03	-	71.45	Type III well
MW3A	7/13/04	12/28/09	35	20-35	35	100.96	28.15	-	72.81	Type II well
MW5	7/13/99	12/28/09	20	20-35	35	101.22	28.39	-	72.83	Type II well
MW6	3/13/00	12/28/09	15	15-25	25	95.25	23.34	-	71.91	Type II well
MW10A	7/13/04	12/28/09	27	20-27	27	97.11	26.05	-	71.06	Type II well/stickup 40"
MW11A	7/12/04	12/28/09	27	20-27	27	95.57	25.82	-	69.75	Type II well/stickup 40.5"
MW12A	7/13/04	12/28/09	35	20-35	35	99.47	28.23	-	71.24	Type II well
MW13	8/30/00	12/28/09	20	20-35	35	93.61	22.79	-	70.82	Type II well
MW14	11/6/00	12/28/09	15	15-35	35	93.04	22.76	-	70.28	Type II well
MW15A	7/19/04	12/28/09	30	15-30	30	95.68	24.69	-	70.99	Type II well
MW16	11/7/00	12/28/09	11.5	11.5-31.5	31.5	88.12	DRY	-	-	Type II well
MW17A	7/12/04	12/28/09	31	21-31	31	96.71	26.91	-	69.80	Type II well/stickup 43.75"
MW18	7/19-20/04	12/28/09	OC: 35 IC: 45	45-50	50	97.51	26.99	-	70.52	Type III well/stickup 43"
FORMER WESTCLIFF BP MONITORING WELLS										
*casing elevations not relative to QM2										
BPMW1R	9/23/03	2/15/10	20	20-40	40	100.37	30.15	-	70.22	Type II well
BPMW2	1/21/97	2/15/10	15	15-35	35	99.86	30.01	-	69.85	Type II well
BPMW4	1/21/97	2/15/10	15	15-35	35	99.80	30.06	-	69.74	Type II well
BPMW5	1/21/97	2/15/10	15	15-35	35	99.48	29.35	-	70.13	Type II well
BPMW6R	9/23/03	2/15/10	19	19-39	39	100.12	29.59	-	70.53	Type II well
BPMW7	6/6/00	2/15/10	20	20-40	40	100.26	30.13	-	70.13	Type II well
BPMW8	6/6/00	2/15/10	15	15-35	35	97.30	30.40	-	66.90	Type II well
BPMW11	9/22/03	2/15/10	19	19-39	39	97.30	30.40	-	66.90	Type II well
BPMW12R	9/19/07	2/15/10	20	20-40	40	100.45	30.91	-	69.54	Type II well
BPMW13R	9/19/07	2/15/10	20	20-40	40	99.83	30.59	-	69.24	Type II well
BPT2	7/26/04	2/15/10	OC: ? IC: 52	52-57	57	100.14	-	-	-	Type III well
ABANDONED MONITORING WELLS										
BPMW1	1/21/97	2/15/10	15	15-35	35	100.14	-	-	-	Type II well
BPMW6	6/6/00	2/15/10	15	15-35	35	99.13	-	-	-	Type II well
BPT1	1/21/97	-	OC: ? IC: 55	55-60	60	99.73	-	-	-	Type III well
MW3	7/13/99	-	20	20-35	35	101.10	-	-	-	Type II well
MW4	7/13/99	-	20	20-35	35	100.00	-	-	-	Type II well
MW7	3/13/00	-	20	20-35	35	100.16	-	-	-	Type II well
MW8	3/14/00	-	20	20-35	35	101.18	-	-	-	Type II well
MW9	3/13/00	-	20	20-35	35	100.53	-	-	-	Type II well
MW10	5/3/00	-	19	19-24	24	95.84	-	-	-	Type II well
MW11	8/30/00	-	20	20-35	35	97.71	-	-	-	Type II well
MW12	8/30/00	-	22.5	22.5-37.5	37.5	99.27	-	-	-	Type II well
MW15	11/6/00	-	15	15-35	35	94.75	-	-	-	Type II well
MW17	11/6/00	-	37	15-35	35	95.58	-	-	-	Type II well

Not all Westcliff BP wells listed.

Notes:

1. All units in feet.
2. OC = outer casing, IC = inner casing
3. Casing elevations for Westcliff BP are not relative to the Quality Mart No. 2 site. Data from Applied Resource Management, P.C.
4. BP prefix indicates well is for Westcliff BP.



CONTOUR INTERVAL = 10 FEET

N

MAP SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS – ROWAN MILLS, NC

GRAPHIC SCALE

0' 2,000' 4,000'

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SITE LOCATION MAP

QUALITY MART NO. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC — WINSTON-SALEM, NC

PROJECT NO.	01099	DRAWN BY:	RDK	DATE:	3/9/10
SCALE:	1" = 2,000'	CHECKED BY:	MJB	FIGURE NO.	1

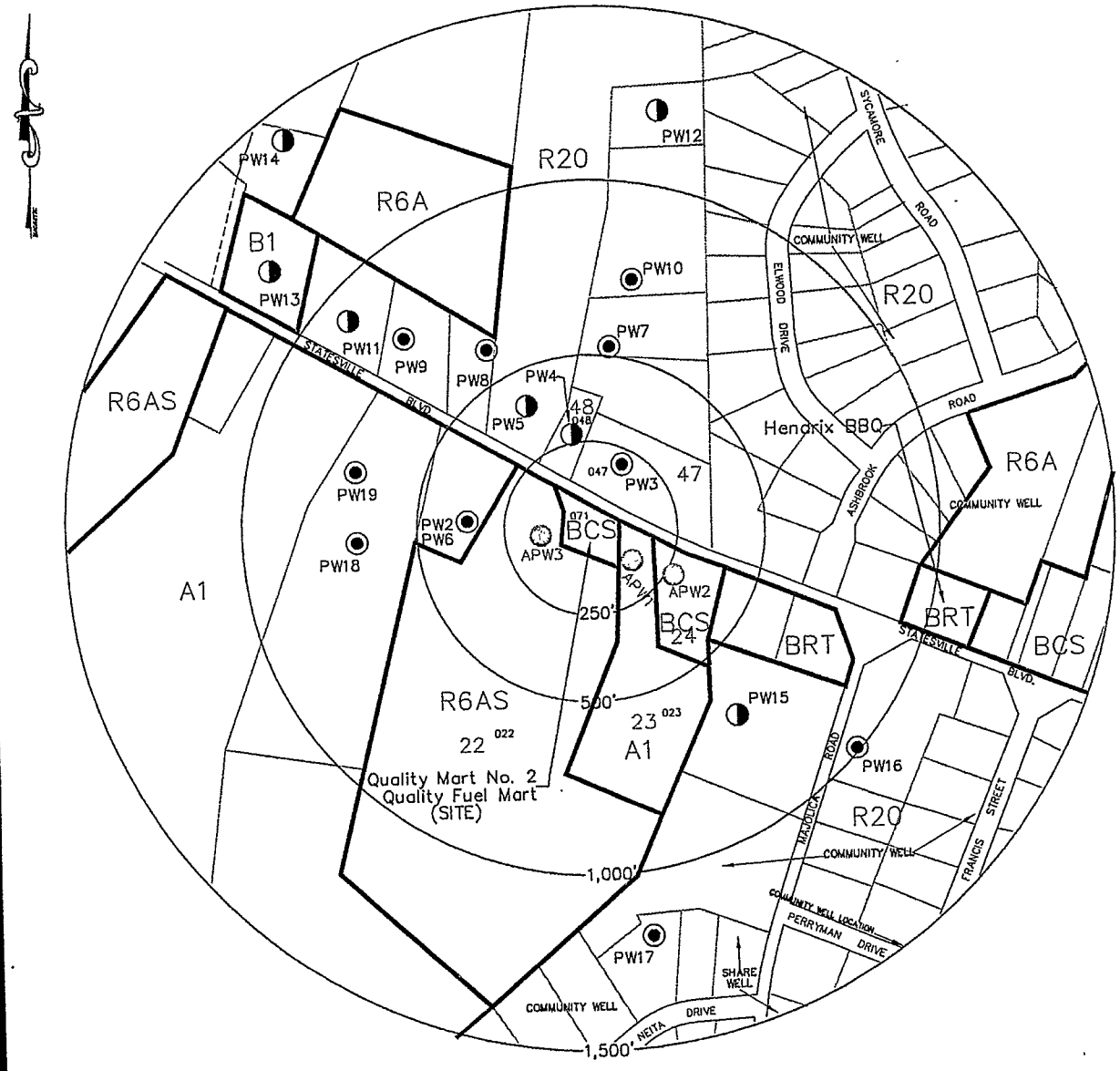
Complete Groundwater Analytical Data History for PW16

Quality Mart No. 2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IIPE	Acetone	Chloroform	Methyl ethyl ketone	Naphthalene	Tetrachloroethylene	Lead
12/20/2006	601/602	<1.0	<5.0	<1.0	<3.0	**3.2**	<1.0	-	-	-	<5.0	-	**8.0**
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**4.7**	<1.0	-	-	-	<5.0	-	<5.0
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**4.1**	<1.0	-	-	-	<1.0	-	<5.0
6/17/2008	6210D*	<1.0	<5.0	<1.0	<3.0	**6.2**	<1.0	-	-	-	-	-	<5.0
12/1/2008	6200B	<1	<5	<1	<3	**8.3**	<1	-	-	-	<5	-	-
6/26/2009	6200B	<1	<5	<1	<3	**10**	<1	-	-	-	<5	-	-
10/9/2009	6200B	<0.060	<0.060	<0.050	<0.14	**5.3**	<0.050	**77.2**	**0.083**	**64.8**	<0.34	**0.16**	-
12/28/2009	6200B	<0.060	<0.060	<0.050	<0.14	**6.6**	<0.051	<1.7	**0.11**	<1	<0.34	**0.18**	-
15A NCAC 2L .0202(g) Standards		1	600	600	500	20	70	6,000	70	4,000	6	0.7	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. * Lead results by 6010B method with 3030c digestion.
4. - = Not sampled for method specified, < -less than sample detection limit.



LEGEND

- R20 Residential
- R6A Multi–Family Residential
- R6AS Multi–Family Residential
- A1 Agricultural
- B1 Office Business
- BRT Retail Trade Business
- BCS Convenience Service Business
- Zoning Boundary
- PW1 Active Potable Well
- PW1 Inactive Potable Well
- APW1 Abandoned Potable Well

The last three digits of the tax parcel number are shown for properties surrounding the site. Refer to Table 2 in the 6/17/08 Pre–CAP Groundwater Monitoring Report for the complete number and tax parcel numbers of other well owners.

Reconnaissance updated in July 2004 by Terraquest.

Properties without wells within 1,500' of the site that are not located on Statesville Blvd. receive their water supply from community wells which are located beyond 1,500'.

GRAPHIC SCALE

0' 250' 500' 1,000'

SITE VICINITY MAP
QUALITY MART NO. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC WINSTON–SALEM, NC

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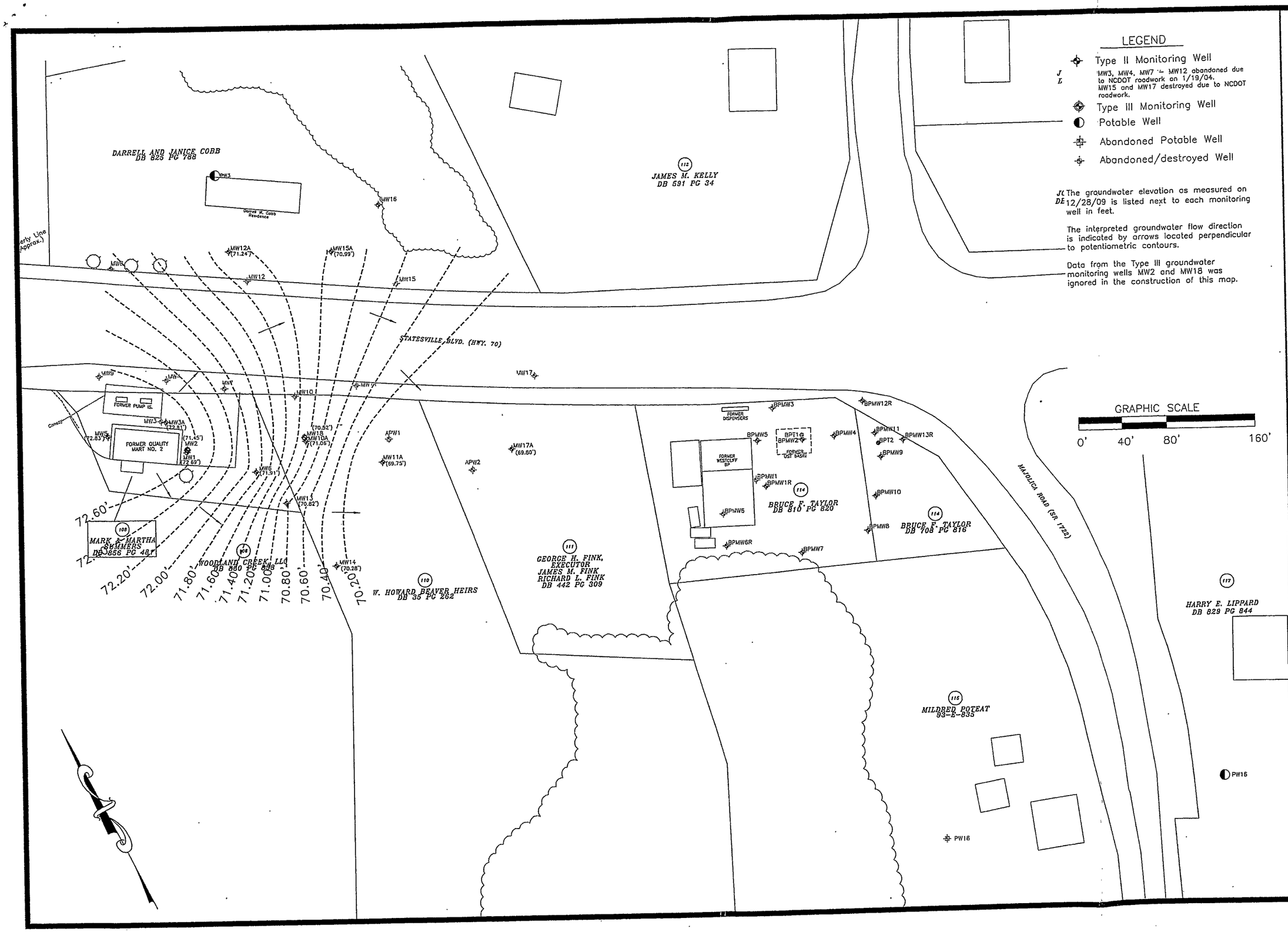
ENVIRONMENTAL CONSULTANTS, P.C.

PROJECT NO.	01099	DATE:	3/9/10
CHECKED BY:	MJB	SCALE:	1"=500'
DRAWN BY:	MJB/JAK	FIGURE NO.	2



POTENTIOMETRIC SURFACE MAP (12/28/09)
QUALITY MART NO. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

WINSTON-SALEM, NC

QUALITY OIL COMPANY, LLC

PROJECT NO: 01099	CHECKED BY: MJB/RDK	DATE: 3/9/10	
SCALE: 1"=80'	DRAWN BY: RDK/MJB	FIGURE NO. 4	

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ENVIRONMENTAL CONSULTANTS, P.C.

Table 2
Date: 3/9/10

SUMMARY OF GROUNDWATER SAMPLING RESULTS
Incident Name: Quality Mart No. 2 Incident No. 21079

Facility ID No: 0-019963

Analytical Method:		6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B
Contaminant of Concern:																
Well ID	Date Collected	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Chloroform	Ethyl alcohol	Isopropylbenzene	Methyl Chloride	Methylene chloride	Tetrachloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Bromodichloromethane
MW1	12/28/09	**0.24**	**1.4**	**0.11**	**0.63**	**10**	<0.050	<0.050	**523**	**0.057**	**0.70**	<0.52	<0.090	**0.27**	<0.10	<0.060
MW2	12/28/09	<0.060	<0.060	<0.050	<0.14	**3.1**	<0.050	<0.050	<50	<0.050	<0.090	<0.52	<0.090	<0.10	<0.10	<0.060
MW3A	12/28/09	<0.060	<0.060	<0.050	**0.15**	**9.5**	**0.65**	**0.22**	<50	<0.050	<0.090	**2.6**	<0.090	<0.10	**0.14**	<0.060
MW5	12/28/09	<0.060	<0.060	<0.050	<0.14	**13**	<0.050	<0.050	<50	<0.050	<0.090	<0.52	<0.090	<0.10	<0.10	<0.060
MW6	12/28/09	<0.060	<0.060	<0.050	<0.14	**6**	**0.083**	<0.050	<50	<0.050	<0.090	<0.52	<0.090	<0.10	<0.10	<0.060
MW10A	12/28/09	**0.22**	<0.060	<0.050	<0.14	**12.6**	**0.20**	**0.22**	<50	<0.050	<0.090	**0.61**	<0.090	**0.12**	<0.10	<0.060
MW11A	12/28/09	<3	<3	<2.5	<7	**845**	<2.5	**11.5**	<2,500	<2.5	<4.5	<26	<4.5	<5	<5	<3
MW12A	12/28/09	<0.060	<0.060	<0.050	<0.14	<0.060	<0.050	<0.050	<50	<0.050	<0.090	<0.52	<0.090	<0.10	<0.10	<0.060
MW13	12/28/09	**0.14**	<0.060	<0.050	**0.25**	**13.9**	**0.33**	<0.050	<50	<0.050	<0090	<0.52	<0.090	<0.10	<0.10	<0.060
MW14	12/28/09	<0.060	<0.060	<0.050	<0.14	**1.3**	<0.050	<0.050	<50	<0.050	<0.090	<0.52	<0.090	<0.10	<0.10	<0.060
MW15A	12/28/09	<0.060	<0.060	<0.050	<0.14	<0.060	<0.050	<0.050	<50	<0.050	<0.090	<0.52	<0.090	<0.10	<0.10	<0.060
MW17A	12/28/09	<0.060	<0.060	<0.050	<0.14	**8.3**	<0.050	<0.050	<50	<0.050	<0.090	<0.52	**0.10**	<0.10	<0.10	<0.060
MW18	12/28/09	<0.30	<0.30	<0.25	<0.70	**45.3**	**1.1**	**0.99**	<250	<0.25	<0.45	<2.6	**0.72**	<0.50	<0.50	<0.3
BPMW4	12/28/09	<0.60	<0.60	<0.50	<1.4	**172**	<0.50	**2.1**	<500	<0.50	<0.90	<5.2	<0.90	<1	<1	<0.60
BPMW11	12/28/09	<0.60	<0.60	<0.50	<1.4	**96.9**	<0.50	**2.1**	<500	<0.50	<0.90	<5.2	<0.90	<1	<1	<0.60
PW16	12/28/09	<0.060	<0.060	<0.050	<0.14	**6.6**	<0.050	**0.11**	<50	<0.050	**0.16**	<0.52	**0.18**	<0.10	<0.10	<0.60
BPMW1R	2/15/10	<0.11	<0.11	<0.11	<0.32	**0.59**	<0.12	<0.18	<20	<0.10	<0.15	<1	**0.2**	<0.10	<0.11	<0.11
BPMW2	2/15/10	<0.11	<0.11	<0.11	<0.32	**48.4**	<0.12	<0.18	<20	<0.1	<0.15	<1	<0.11	<0.10	<0.11	<0.11
BPMW5	2/15/10	<0.11	<0.11	<0.11	<0.32	**1.7**	<0.12	<0.18	<20	<0.1	<0.15	<1	**0.15**	<0.10	<0.11	<0.11
BPMW10	2/15/10	<0.11	<0.11	<0.11	<0.32	**1.6**	<0.12	**2.2**	<20	<0.1	<0.15	<1	<0.11	<0.10	<0.11	**0.26**
BPMW12R	2/15/10	<0.11	<0.11	<0.11	<0.32	**283**	<0.12	<0.18	<20	<0.1	<0.15	<1	<0.11	<0.10	<0.11	<0.11
BPMW13R	2/15/10	<0.11	<0.11	<0.11	<0.32	**9.5**	<0.12	<0.18	<20	<0.1	<0.15	<1	<0.11	<0.10	<0.11	<0.11
2L Standard		1	600	600	500	20	70	70	NE	70	NE	5	0.7	400	400	0.6
NC Drinking Water Standard						11.6										

Notes:
1. All results in µg/L.
2. **BOLD** denotes a detected concentration above the laboratory's sample-specific method detection limit.
3. Shading denotes a concentration above the applicable 2L Standard.
4. "<" denotes no detection at concentration above the laboratory's sample-specific method detection limit.

Parcel ID: 329 047
Owner: VARIETY WORLD INC
414 WILLOW RD
SALISBURY NC 28147-7749

COPY

NCDENR

North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director | Division of Waste Management | Michael F. Easley, Governor
William G. Ross Jr., Secretary

January 23, 2009

Current Resident
2620 Statesville Boulevard
Salisbury, North Carolina 28147

Re: **Well Sampling Results (PW3)**
2620 Statesville Boulevard
Salisbury, Rowan County, North Carolina

Dear Resident:

On December 1, 2008, Terraquest Environmental Consultants, P.C. collected a groundwater sample from a water supply well located at 2620 Statesville Boulevard in Salisbury, North Carolina. The sample was submitted for laboratory analyses as part of groundwater monitoring of Quality Mart No. 2. (Underground Storage Tank [UST] Section, Corrective Action # 21079). Results from the December 1, 2008 sampling event as reported by Terraquest Environmental Consultants, P.C. are summarized in the following table for your review.

Water Supply Well ID	Sampling Date	Constituent	Constituent Concentration (µg/L)
PW3	12/1/2008	Tetrachloroethene	1.2

µg/L = micrograms per liter (~parts per billion)

Tetrachloroethene was reported in laboratory analyses of groundwater from the onsite water supply well. The reported concentration was below the Environmental Protection Agency (EPA) Maximum Contaminant Levels (MCLs) for drinking water.

The data summarized above was used to conduct a Health Risk Evaluation (HRE) by Hanna Assefa of the Division of Waste Management. Enclosed is a copy for your review. In addition, laboratory reports from the sampling event are on file at the Mooresville Regional Office, UST Section.

610 East Center Avenue, Suite 301, Mooresville, North Carolina 28115
Phone 704-663-1699 \ FAX 704-663-6040 \ Internet http://wastenotnc.org
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I appreciate your attention to this matter. If you have questions or need additional information, please contact please contact Hanna Assefa at (919) 508-8445 or the Inactive Hazardous Sites Branch at (704) 663-1699.

Sincerely,

George D. Adams, PG & EI
Environmental Engineer II
Department of Environment and Natural Resources
Division of Waste Management
Superfund Section - Inactive Hazardous Sites Branch

Enclosure

cc: Variety World, Inc.
414 Willow Road
Salisbury, North Carolina 28147

Rowan County Health Department

January 22, 2009

MEMORANDUM

TO: George Adams, Environmental Engineer
Superfund Section, Inactive Hazardous Sites Branch (IHSB)-MRO

FROM: Hanna Assefa, Industrial Hygiene Consultant
Superfund Section, Inactive Hazardous Sites Branch (IHSB)

RE: Health Risk Evaluation
PW3 Water Supply Well
2620 Statesville Boulevard
Salisbury, Rowan County, North Carolina
IHSB # Pending

A water sample was collected from the water supply well at the subject address on December 1, 2008. Tetrachloroethene was detected in the well water at a concentration that was below its applicable standard. The standards used to determine if the water is suitable for drinking and cooking are the federal drinking water standards (USEPA MCL), or where there is no MCL, the North Carolina Groundwater Quality Standard (NC 2L).

If contaminant concentrations exceed the applicable standards for using the water for drinking and cooking, the contaminant concentrations are further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. **Therefore, based on this evaluation the water from this well can be used for drinking, cooking and all other residential purposes listed above.** The table below compares the detected contaminant concentrations with the applicable standards:

Sample #	Chemical	12/1/08 Concentrations ug/l	USEPA MCL ug/l
L377366-12	Tetrachloroethene	1.2	5

330 068
330 042
329 170
329 403
329C135
329C122
329 048
329C178
329 047
330 108
330 071
SALISBURY
330 121
WOODLAND CREEK DR
330 024
330 074
330 022
330 025
330 023
STOCKADE
330 026
330 116
330 079
329C261
329C405
329 176
329C151
329 183
0
500ft

Subject: HRE Request Statesville Boulevard
From: George Adams <george.adams@ncmail.net>
Date: Tue, 13 Jan 2009 14:46:38 -0500
To: HANNA ASSEFA <HANNA.ASSEFA@ncmail.net>

Enclosed is an HRE request. Please contact me if you have questions.
--
George Adams - George.Adams@ncmail.net
North Carolina Dept. of Environment & Natural Resources
Div. of Waste Mgt. - Superfund Section - Inactive Hazardous Sites
610 E. Center Ave., Suite 301
Mooresville, NC 28115
Ph: (704) 663-1699 Fax: (704) 663-6040

Statesville Blvd IHSB # pending HRE request PW3 1.13.09.doc	**Content-Type:** application/msword **Content-Encoding:** base64

Statesville Blvd IHSB # pending HRE request PW3 1.13.08.pdf	**Content-Type:** application/pdf **Content-Encoding:** base64

NCDENR

North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director | Division of Waste Management | Beverly Eaves Perdue, Governor
Dee Freeman, Secretary

MEMORANDUM

TO: Hanna Assefa, Industrial Hygiene Consultant
North Carolina Division of Waste Management

FROM: George Adams, Environmental Engineer
Superfund Section, Inactive Hazardous Sites Branch (IHSB)-MRO

DATE: January 13, 2009

RE: **Health Risk Evaluation Request**

PW3 Water Supply Well
2620 Statesville Boulevard
Salisbury, Rowan County, North Carolina
IHSB # Pending

Laboratory data received on December 31, 2008 from Terraquest Environmental Consultants, P.C. reported that water supply well (**PW3**) has been impacted by a volatile organic compound. The water supply well was sampled on December 1, 2008 as part of groundwater monitoring of Quality Mart No. 2. (Underground Storage Tank [UST] Section, Corrective Action # 21079). In addition, a cursory review of the UST Section incident file suggests that **PW3** supplies potable water to a residence at the above referenced location. Recent data from the UST Section incident file is summarized below for your review.

Water Supply Well ID	Sampling Date	Constituent	Constituent Concentration (µg/L)
PW3	1/15/2002	Tetrachloroethene	<1.0
PW3	3/24/2003	Tetrachloroethene	<1.0
PW3	8/5/2003	Tetrachloroethene	<1.0
PW3	1/14/2004	Tetrachloroethene	<1.0
PW3	7/21/2004	Tetrachloroethene	<1.0
PW3	12/20/2006	Tetrachloroethene	<1.0
PW3	6/5/2007	Tetrachloroethene	1.1
PW3	12/5/2007	Tetrachloroethene	1.1
PW3	6/17/2008	Tetrachloroethene	<1.0
PW3	12/1/2008	Tetrachloroethene	1.2

µg/L = micrograms per liter (~parts per billion)

The IHSB request a Health Risk Evaluation (HREs) for water supply well **PW3**. If you have questions or need additional information, please contact the Mooresville-IHSB at (704) 663-1699.

Attachments

610 East Center Avenue, Suite 301, Mooresville, North Carolina 28115
Phone 704-663-1699 \ FAX 704-663-6040 \ Internet http://wastenotnc.org
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TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

NC DEPT. OF ENVIRONMENT AND NATURAL RESOURCES
RECEIVED
DEC 31 2008
MOORESVILLE REGIONAL OFFICE UST
DIVISION OF WASTE MANAGEMENT, DWS

December 29, 2008

Variety World, Inc.
414 Willow Road
Salisbury, NC 28147-7749

Re: PW3 Water Supply Well Results (November 24, 2008)
Quality Mart No. 2 – Quality Oil Company, LLC
Salisbury, NC
NCDWM-UST Incident No.: 21079

To Whom It May Concern:

On December 1, 2008, Terraquest personnel collected a water sample from the water supply well (PW3 shown on the attached Figure) located on your property at 2620 Statesville Blvd in Salisbury, NC with the Rowan County Tax Parcel Number 329 047. The laboratory analysis revealed a 1.2 µg/L detection of tetrachloroethene. A copy of the laboratory report is attached.

A copy of the laboratory report has also been provided to the NC Department of Environment and Natural Resources Underground Storage Tank Section (c/o Dan Graham, Incident Manager) and to the Epidemiology Branch of the NC Department of Health and Human Services (c/o Ken Rudo, Toxicologist). Please contact Dan Graham at (704) 663-1699 with any questions you may have.

Sincerely

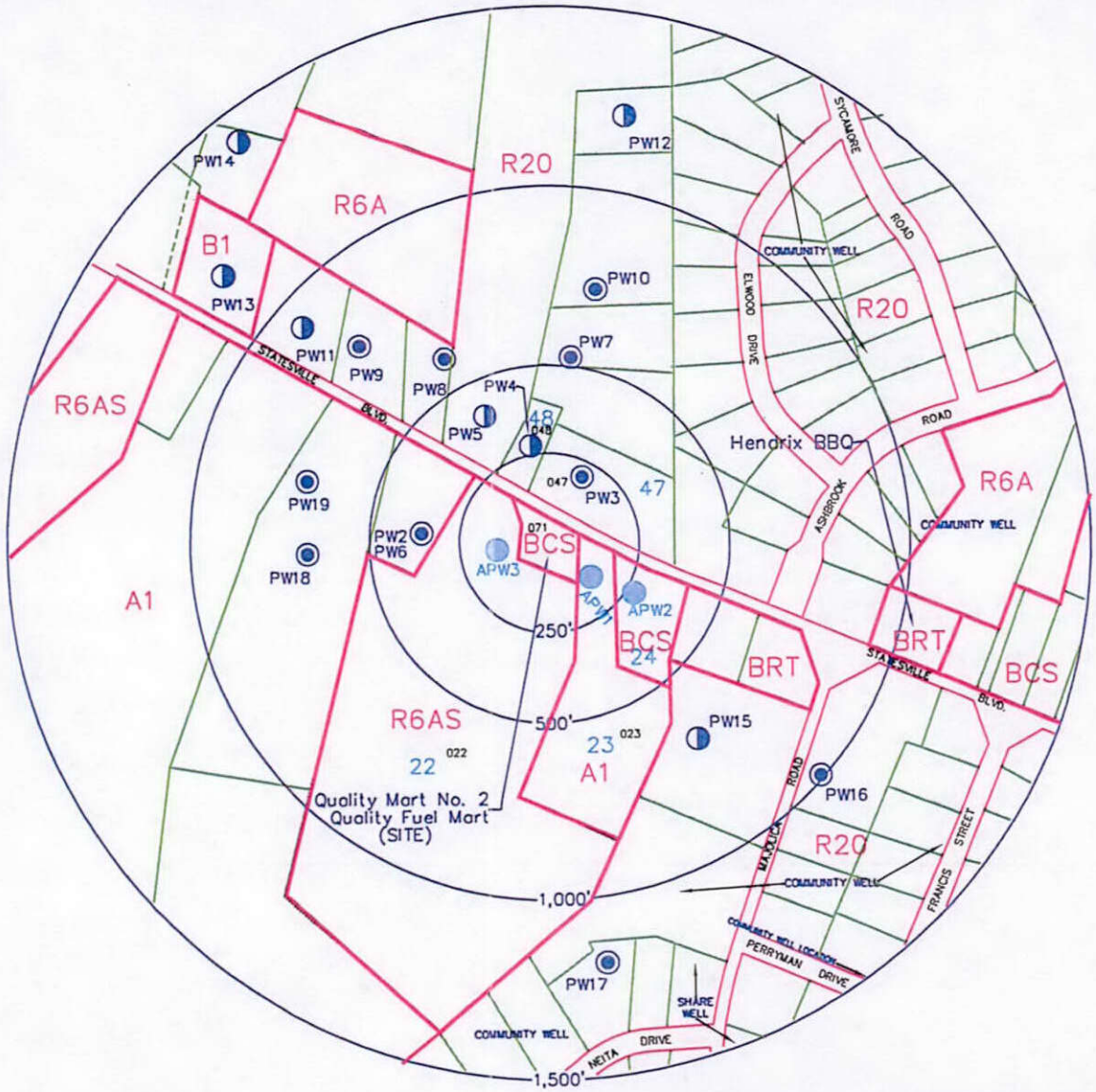
TERRAQUEST ENVIRONMENTAL CONSULTANTS, P.C.

Ryan D. Kerins
Project Manager

Attachments: Site Vicinity Map, Laboratory Report

cc: Ernie Rhymer – Quality Oil Company, LLC
Dan Graham – NCDWM-UST Mooresville Regional Office, 610 E Center Ave, Suite 301 Mooresville, NC 28115
Ken Rudo – NC Dept of Health and Human Services, Epidemiology Section, 1902 Mail Service Center, Raleigh, NC 27699

100 E. Ruffin Street • Mebane, North Carolina 27302
Telephone (919) 563-9091 • Facsimile (919) 563-9095
www.terraquestpc.com



LEGEND

R20	Residential
R6A	Multi-Family Residential
R6AS	Multi-Family Residential
A1	Agricultural
B1	Office Business
BRT	Retail Trade Business
BCS	Convenience Service Business
	Zoning Boundary
PW1	Active Potable Well
PW1	Inactive Potable Well
APW1	Abandoned Potable Well

The last three digits of the tax parcel number are shown for properties surrounding the site. Refer to Table 2 in the 6/17/08 Pre-CAP Groundwater Monitoring Report for the complete number and tax parcel numbers of other well owners.

Reconnaissance updated in July 2004 by Terraquest.

Properties without wells within 1,500' of the site that are not located on Statesville Blvd. receive their water supply from community wells which are located beyond 1,500'.

GRAPHIC SCALE

0' 250' 500' 1,000'

SITE VICINITY MAP
QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC WINSTON-SALEM, NC

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

PROJECT NO.	01099	DATE:	12/29/08
CHECKED BY:	MJB	SCALE:	1"=500'
DRAWN BY:	MJB/JAK	FIGURE NO.	2

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mike Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

December 05,2008

ESC Sample # : L377366-12

Site ID :

Project # : 01099

Date Received : December 03, 2008
Description : Quality Mart No 2

Sample ID : PW3

Collected By : W. Sorrells
Collection Date : 12/01/08 13:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B	12/04/08	1
Acrolein	BDL	50.	ug/l	6200B	12/04/08	1
Acrylonitrile	BDL	10.	ug/l	6200B	12/04/08	1
Benzene	BDL	1.0	ug/l	6200B	12/04/08	1
Bromobenzene	BDL	1.0	ug/l	6200B	12/04/08	1
Bromodichloromethane	BDL	1.0	ug/l	6200B	12/04/08	1
Bromoform	BDL	1.0	ug/l	6200B	12/04/08	1
Bromomethane	BDL	5.0	ug/l	6200B	12/04/08	1
n-Butylbenzene	BDL	1.0	ug/l	6200B	12/04/08	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B	12/04/08	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B	12/04/08	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B	12/04/08	1
Chlorobenzene	BDL	1.0	ug/l	6200B	12/04/08	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B	12/04/08	1
Chloroethane	BDL	5.0	ug/l	6200B	12/04/08	1
Chloroform	BDL	5.0	ug/l	6200B	12/04/08	1
Chloromethane	BDL	2.5	ug/l	6200B	12/04/08	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B	12/04/08	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B	12/04/08	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B	12/04/08	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B	12/04/08	1
Dibromomethane	BDL	1.0	ug/l	6200B	12/04/08	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B	12/04/08	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B	12/04/08	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B	12/04/08	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B	12/04/08	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B	12/04/08	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B	12/04/08	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B	12/04/08	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B	12/04/08	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B	12/04/08	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B	12/04/08	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B	12/04/08	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B	12/04/08	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B	12/04/08	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B	12/04/08	1
Ethylbenzene	BDL	1.0	ug/l	6200B	12/04/08	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B	12/04/08	1
Isopropylbenzene	BDL	1.0	ug/l	6200B	12/04/08	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B	12/04/08	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B	12/04/08	1
Methylene Chloride	BDL	5.0	ug/l	6200B	12/04/08	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B	12/04/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
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Mt. Juliet, TN 37122
(615) 758-5858
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mike Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

December 05,2008

ESC Sample # : L377366-12

Date Received : December 03, 2008
Description : Quality Mart No 2

Site ID :

Sample ID : PW3

Project # : 01099

Collected By : W. Sorrells
Collection Date : 12/01/08 13:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	BDL	1.0	ug/l	6200B	12/04/08	1
Naphthalene	BDL	5.0	ug/l	6200B	12/04/08	1
n-Propylbenzene	BDL	1.0	ug/l	6200B	12/04/08	1
Styrene	BDL	1.0	ug/l	6200B	12/04/08	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B	12/04/08	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B	12/04/08	1
Tetrachloroethene	1.2	1.0	ug/l	6200B	12/04/08	1
Toluene	BDL	5.0	ug/l	6200B	12/04/08	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B	12/04/08	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B	12/04/08	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B	12/04/08	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B	12/04/08	1
Trichloroethene	BDL	1.0	ug/l	6200B	12/04/08	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B	12/04/08	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	6200B	12/04/08	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B	12/04/08	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B	12/04/08	1
Vinyl chloride	BDL	1.0	ug/l	6200B	12/04/08	1
o-Xylene	BDL	1.0	ug/l	6200B	12/04/08	1
m&p-Xylenes	BDL	2.0	ug/l	6200B	12/04/08	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	6200B	12/04/08	1
Dibromofluoromethane	119.		% Rec.	6200B	12/04/08	1
a,a,a-Trifluorotoluene	108.		% Rec.	6200B	12/04/08	1
4-Bromofluorobenzene	98.1		% Rec.	6200B	12/04/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/05/08 10:43 Printed: 12/05/08 11:31

Company Name/Address:

TerraQuest Environmental Consultants PC

100 East Ruffin Street
Mebane,NC 27302

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 2 of 2

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Report to: M. Brown

Email to:

Project Description: QM #2

City/Sate Collected: Salisbury, NC

Phone: (919) 563-9091
FAX: (919) 563-9095

Client Project #: 01099

ESC Key:

Collected by: W. Sorrels

Site/Facility ID#:

P.O.#: 0109912010 8

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed:

Email? X No ___ Yes
FAX? X No ___ Yes

CoCode: TURENV (lab use only)
Template/Prelogin:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Remarks/Contaminant	Sample # (lab only)
MW17A	Grab	GW		12/1/08	1400	2		L577546-10
MW18					1405	2		11
PW3					1310	2		12
PW16					1430	2		13

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

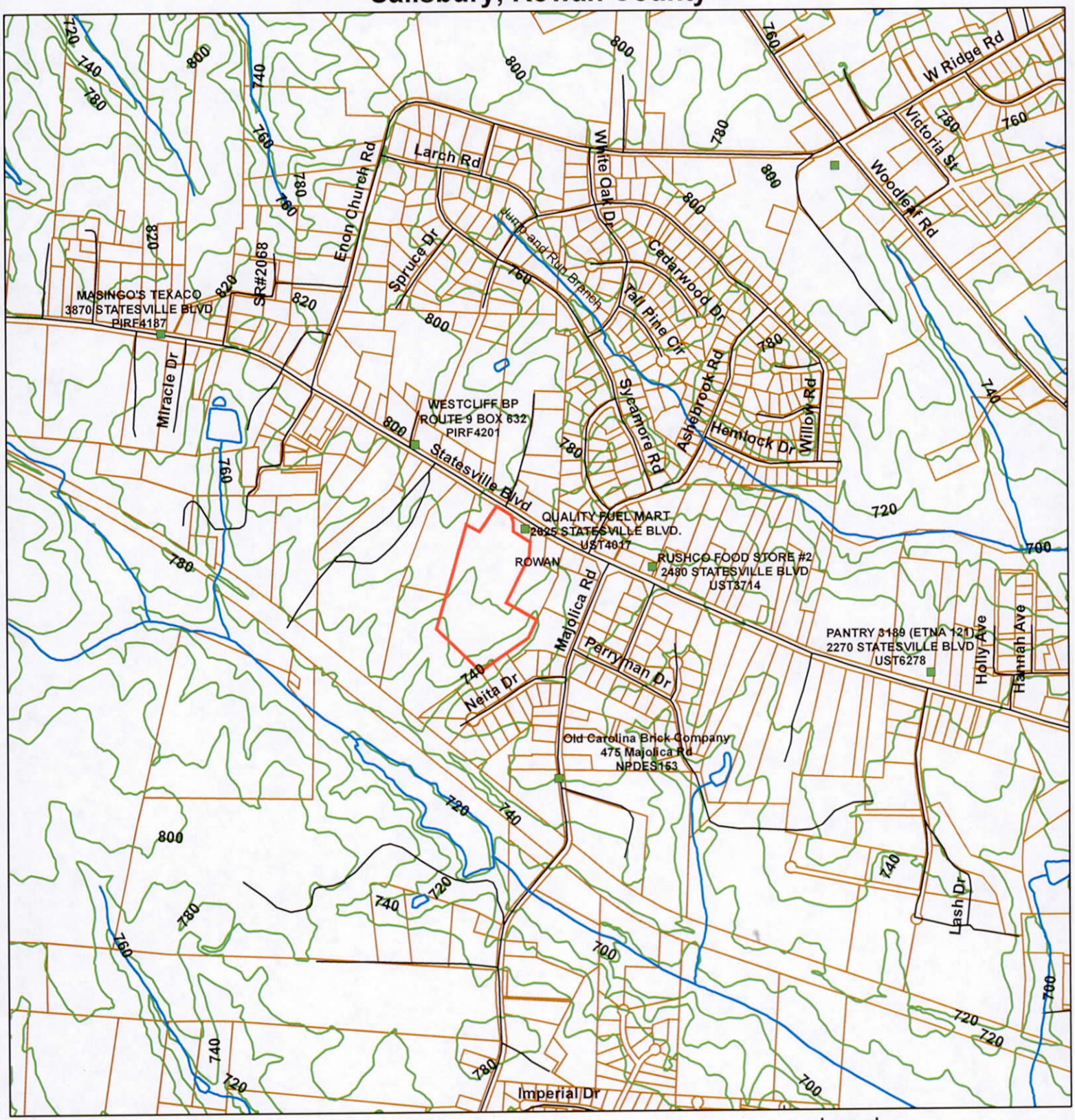
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	12/2/08	1033	Brent Kelley
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☑ Sur

Temp: 3.4 | Bottles Received: 26 FB | Date: 12/02/08 | Time: 0845

Condition: (lab use only)
CoC Seals Intact: Y N ☑ NA
pH Checked: NCF:

Statesville Blvd Public Water Well PCE Contamination
Known Potential Surrounding Contamination Sources
Salisbury, Rowan County



N
W E
S

0 500 1,000 Feet

Legend

- Rowa_dotroads
- Potential Contamination Sources
- Parcel R6AS - Public Well #3
- Yadkin Basin Lines
- Rowan_Parcels
- con_rowan_20

N.C. DEPT. OF
ENVIRONMENT, HEALTH,
& NATURAL RESOURCES

FEB 18 2000

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

February 15, 2000

G. Landon Davidson, P.G.
NC Division of Waste Management – UST Section
919 North Main Street
Mooresville, NC 28115

Re: Potable Well Sampling Results
Quality Mart No. 2
2625 Statesville Blvd., Salisbury, Rowan County
Incident No.: unassigned
Risk Classification: High

Dear Mr. Davidson:

Turner Environmental Consultants, P.C. has sampled potable wells PW1, PW2, PW3 and PW4 as per your request of January 13, 2000. Wells PW1, PW2 and PW3 did not contain any detectable concentrations of the normal target analytes of a 601/602 analysis. Well PW4 contained 3.1 ug/l (ppb) of Bromodichloromethane and 8.5 ppb of Chloroform. These compounds are typically associated with chlorination of potable water supplies. The laboratory analytical reports are enclosed for your reference.

Please call if you have any questions.

Sincerely,

TURNER ENVIRONMENTAL CONSULTANTS, P.C.

Ryan D. Turner, P.G.
President

Enclosure

c: Danny Stroud – Quality Oil Company, LLC

TURNER ENVIRONMENTAL CONSULTANTS, P.C.
110 WEST MAIN STREET • SUITE A • CARRBORO, NC 27510 • PHONE 919•932•1590 • FAX 919•932•1594

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SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Ryan Turner
Turner Environmental Consultants
110 West Main Street, Suite A
Carrboro, NC 27510

February 07,2000

ESC Sample # : L10198-01
ESC Key : TURENV-01099
Site ID :
Project # : 01099

Date Received : February 04, 2000
Description : Water - Quality Mart No 2
Sample ID : PW1
Collected By : Ryan Kerins
Collection Date : 02/03/00 12:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Bromoform	BDL	1.0	ug/l	601/602MS	02/04/00	1
Bromomethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
2-Chloroethyl vinyl ether	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chloroform	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chloromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	02/04/00	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	02/04/00	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	02/04/00	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	02/04/00	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	02/04/00	1
Naphthalene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Toluene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	02/04/00	1
o-Xylene	BDL	1.0	ug/l	601/602MS	02/04/00	1
m&p-Xylene	BDL	1.0	ug/l	601/602MS	02/04/00	1

Terrie Fudge/Ken Hayes, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Ryan Turner
Turner Environmental Consultants
110 West Main Street, Suite A
Carrboro, NC 27510

February 07,2000

Date Received : February 04, 2000
Description : Water - Quality Mart No 2
Sample ID : PW2
Collected By : Ryan Kerins
Collection Date : 02/03/00 12:48

ESC Sample # : L10198-02
ESC Key : TURENV-01099
Site ID :
Project # : 01099

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Bromoform	BDL	1.0	ug/l	601/602MS	02/04/00	1
Bromomethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
2-Chloroethyl vinyl ether	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chloroform	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chloromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	02/04/00	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	02/04/00	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	02/04/00	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	02/04/00	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	02/04/00	1
Naphthalene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Toluene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	02/04/00	1
o-Xylene	BDL	1.0	ug/l	601/602MS	02/04/00	1
m&p-Xylene	BDL	1.0	ug/l	601/602MS	02/04/00	1

Terrie Fudge/Ken Hayes, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

February 07,2000

Mr. Ryan Turner
Turner Environmental Consultants
110 West Main Street, Suite A
Carrboro, NC 27510

ESC Sample # : L10198-03

Date Received : February 04, 2000

ESC Key : TURENV-01099

Description : Water - Quality Mart No 2

Site ID :

Sample ID : PW3

Project # : 01099

Collected By : Ryan Kerins
Collection Date : 02/03/00 13:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Bromoform	BDL	1.0	ug/l	601/602MS	02/04/00	1
Bromomethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
2-Chloroethyl vinyl ether	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chloroform	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chloromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	02/04/00	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	02/04/00	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	02/04/00	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	02/04/00	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	02/04/00	1
Naphthalene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Toluene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	02/04/00	1
o-Xylene	BDL	1.0	ug/l	601/602MS	02/04/00	1
m&p-Xylene	BDL	1.0	ug/l	601/602MS	02/04/00	1

Terrie Fudge/Ken Hayes, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Ryan Turner
Turner Environmental Consultants
110 West Main Street, Suite A
Carrboro, NC 27510

February 07,2000

Date Received : February 04, 2000
Description : Water - Quality Mart No 2
Sample ID : PW4
Collected By : Ryan Kerins
Collection Date : 02/03/00 13:20

ESC Sample # : L10198-04
ESC Key : TURENV-01099
Site ID :
Project # : 01099

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Bromodichloromethane	3.1	1.0	ug/l	601/602MS	02/04/00	1
Bromoform	BDL	1.0	ug/l	601/602MS	02/04/00	1
Bromomethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
2-Chloroethyl vinyl ether	BDL	1.0	ug/l	601/602MS	02/04/00	1
Chloroform	8.5	1.0	ug/l	601/602MS	02/04/00	1
Chloromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	02/04/00	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	02/04/00	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	02/04/00	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	02/04/00	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	02/04/00	1
Naphthalene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	02/04/00	1
Toluene	BDL	1.0	ug/l	601/602MS	02/04/00	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	02/04/00	1
o-Xylene	BDL	1.0	ug/l	601/602MS	02/04/00	1
m&p-Xylene	BDL	1.0	ug/l	601/602MS	02/04/00	1

Terrie Fudge/Ken Hayes, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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TURNER ENVIRONMENTAL CONSULTANTS

110 West Main Street, Suite A
Carrboro, North Carolina 27510

Alternate billing information:

Analysis/Preservative/Container

Chain of Custody
Page 1 of 1

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
FAX (615) 758-5859

Report to: Ryan Turner	Project name: Quality Mart No. 2		
Phone: (919)-932-1590	Project #: 01049	P.O.#: 01099020300	
FAX: (919)-932-1594	Facility ID#: —	Industry: —	
Collected by (print) Ryan D. Kerins	County (Soil) —	State: NC	
Collected by (signature): Ryan D. Kerins	Rush? (Lab MUST Be Notified) ___ <24 hr ..... 200% ___ 24-48 hr ..... 100% ___ 48-72 hr 50%	Date Results Needed: 2/10/00 FAX? ✓ No ___ Yes	

CoCode: TURENV (lab use only)
Format:
Quote/Order #:
Cooler #:
Shipped Via:

Sample Location/ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Total Metals/TKN/EDB/HCl/HO/VOA						Remarks/Contaminant	Sample # (lab only)
PW1	Grab	WS	—	2/3/00	1240	3	3							40198-01
PW2			—		1248	3	3							-02
PW3			—		1305	3	3							-03
PW4			—		1320	3	3							-04

*Matrix: SS - Soil GW - Groundwater TW - Treated Groundwater WW - WasteWater WS - Water Sample WO - Waste Oil DW - Drinking Water SL - Sludge SD - Sediment OT - Other_____

Remarks:

Relinquished by: (Signature) Ryan D. Kerins (TEC)	Date: 2/3/00	Time: 15:55	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____	Condition: (lab use only)	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3°C	Bottles Received: 11	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Jerry Morris	Date: 2-4-00	Time: 10:00	pH Checked: Yes No / NCF: Yes No

Fax

Name:	Dan Graham
Organization:	NCDWM-UST Mooresville Regional Office
Fax:	704.663.6040
Phone:	704.663.1699
From:	John Long - Turner Environmental
Date:	9/25/00
Subject:	Analytical Results
Pages:	12

Mr. Graham:

Attached are the analytical results of the 8/31/00 groundwater sampling event. Monitoring well MW11 is contaminated over the 2L's, MW12 shows EDB violations and MW13 shows C5-C8 Aromatic violations. If you have any questions I can be contacted at 919.932.1590. All three of these wells are considered to be downgradient.

SOIL Fumigation cancelled use in 83
ADDED TO Leaded Gas

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. John Long
Turner Environmental Consultants
110 West Main Street, Suite A
Carrboro, NC 27510

September 07,2000

ESC Sample # : L23923-02

ESC Key : TURENV-01099

Site ID :

Project # : 01099

Date Received : September 01, 2000

Description : Water - Quality Mart No 2

Sample ID : MW11

Collected By : John Long
Collection Date : 08/31/00 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	10.	5.0	ug/l	6010	09/03/00	1
Volatile Petroleum Hydrocarbons	2400	100	ug/l	MADEPV	09/06/00	1
C5-C8 Aliphatics	1800	100	ug/l	MADEPV	09/06/00	1
C9-C12 Aliphatics	620	100	ug/l	MADEPV	09/06/00	1
C9-C10 Aromatics	BDL	100	ug/l	MADEPV	09/06/00	1
Surrogate Recovery						
2,5-Dibromotoluene(FID)	266.		% Rec.	MADEPV	09/06/00	1
2,5-Dibromotoluene(PID)	115.		% Rec.	MADEPV	09/06/00	1
Volatile Organics						
Benzene	170	10.	ug/l	601/602MS	09/06/00	10
Bromodichloromethane	BDL	10.	ug/l	601/602MS	09/06/00	10
Bromoform	BDL	10.	ug/l	601/602MS	09/06/00	10
Bromomethane	BDL	10.	ug/l	601/602MS	09/06/00	10
Carbon Tetrachloride	BDL	10.	ug/l	601/602MS	09/06/00	10
Chlorobenzene	BDL	10.	ug/l	601/602MS	09/06/00	10
Chlorodibromomethane	BDL	10.	ug/l	601/602MS	09/06/00	10
Chloroethane	BDL	10.	ug/l	601/602MS	09/06/00	10
2-Chloroethyl vinyl ether	BDL	500	ug/l	601/602MS	09/06/00	10
Chloroform	BDL	10.	ug/l	601/602MS	09/06/00	10
Chloromethane	BDL	10.	ug/l	601/602MS	09/06/00	10
1,2-Dibromoethane	BDL	10.	ug/l	601/602MS	09/06/00	10
1,2-Dichlorobenzene	BDL	10.	ug/l	601/602MS	09/06/00	10
1,3-Dichlorobenzene	BDL	10.	ug/l	601/602MS	09/06/00	10
1,4-Dichlorobenzene	BDL	10.	ug/l	601/602MS	09/06/00	10
Dichlorodifluoromethane	BDL	10.	ug/l	601/602MS	09/06/00	10
1,1-Dichloroethane	BDL	10.	ug/l	601/602MS	09/06/00	10
1,2-Dichloroethane	BDL	10.	ug/l	601/602MS	09/06/00	10
1,1-Dichloroethene	BDL	10.	ug/l	601/602MS	09/06/00	10
trans-1,2-Dichloroethene	BDL	10.	ug/l	601/602MS	09/06/00	10
1,2-Dichloropropane	BDL	10.	ug/l	601/602MS	09/06/00	10
cis-1,3-Dichloropropene	BDL	10.	ug/l	601/602MS	09/06/00	10
trans-1,3-Dichloropropene	BDL	10.	ug/l	601/602MS	09/06/00	10
Di-isopropyl ether	BDL	50.	ug/l	601/602MS	09/06/00	10
Ethylbenzene	BDL	10.	ug/l	601/602MS	09/06/00	10
Methylene chloride	BDL	50.	ug/l	601/602MS	09/06/00	10
Methyl tert-butyl ether	320	50.	ug/l	601/602MS	09/06/00	10
Naphthalene	79.	10.	ug/l	601/602MS	09/06/00	10

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. John Long
Turner Environmental Consultants
110 West Main Street, Suite A
Carrboro, NC 27510

September 07,2000

ESC Sample # : L23923-02
ESC Key : TURENV-01099
Site ID :
Project # : 01099

Date Received : September 01, 2000
Description : Water - Quality Mart No 2
Sample ID : MW11
Collected By : John Long
Collection Date : 08/31/00 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1,2,2-Tetrachloroethane	BDL	10.	ug/l	601/602MS	09/06/00	10
Tetrachloroethene	BDL	10.	ug/l	601/602MS	09/06/00	10
1,1,1-Trichloroethane	BDL	10.	ug/l	601/602MS	09/06/00	10
1,1,2-Trichloroethane	BDL	10.	ug/l	601/602MS	09/06/00	10
Trichloroethene	BDL	10.	ug/l	601/602MS	09/06/00	10
Trichlorofluoromethane	BDL	10.	ug/l	601/602MS	09/06/00	10
Toluene	BDL	10.	ug/l	601/602MS	09/06/00	10
Vinyl chloride	BDL	10.	ug/l	601/602MS	09/06/00	10
o-Xylene	BDL	10.	ug/l	601/602MS	09/06/00	10
m&p-Xylene	260	10.	ug/l	601/602MS	09/06/00	10
Ethylene Dibromide	0.24	0.010	ug/l	504.1	09/07/00	1

Jovona McDowell, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. John Long
Turner Environmental Consultants
110 West Main Street, Suite A
Carrboro, NC 27510

September 07,2000

ESC Sample # : L23923-03
ESC Key : TURENV-01099
Site ID :
Project # : 01099

Date Received : September 01, 2000
Description : Water - Quality Mart No 2
Sample ID : MW12
Collected By : John Long
Collection Date : 08/31/00 10:19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	7.1	5.0	ug/l	6010	09/03/00	1
Volatile Petroleum Hydrocarbons	390	100	ug/l	MADEPV	09/06/00	1
C5-C8 Aliphatics	390	100	ug/l	MADEPV	09/06/00	1
C9-C12 Aliphatics	BDL	100	ug/l	MADEPV	09/06/00	1
C9-C10 Aromatics	BDL	100	ug/l	MADEPV	09/06/00	1
Surrogate Recovery						
2,5-Dibromotoluene(FID)	131.		% Rec.	MADEPV	09/06/00	1
2,5-Dibromotoluene(PID)	70.0		% Rec.	MADEPV	09/06/00	1
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
Bromoform	BDL	1.0	ug/l	601/602MS	09/06/00	1
Bromomethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	09/06/00	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
Chloroethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	09/06/00	1
Chloroform	BDL	1.0	ug/l	601/602MS	09/06/00	1
Chloromethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	09/06/00	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	09/06/00	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	09/06/00	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	09/06/00	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	09/06/00	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	09/06/00	1
Naphthalene	BDL	1.0	ug/l	601/602MS	09/06/00	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. John Long
Turner Environmental Consultants
110 West Main Street, Suite A
Carrboro, NC 27510

September 07,2000

ESC Sample # : L23923-03
ESC Key : TURENV-01099
Site ID :
Project # : 01099

Date Received : September 01, 2000
Description : Water - Quality Mart No 2
Sample ID : MW12
Collected By : John Long
Collection Date : 08/31/00 10:19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
Tetrachloroethene	1.7	1.0	ug/l	601/602MS	09/06/00	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
Toluene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	09/06/00	1
o-Xylene	BDL	1.0	ug/l	601/602MS	09/06/00	1
m&p-Xylene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Ethylene Dibromide	3.8	0.010	ug/l	504.1	09/07/00	1

Jovona McDowell, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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Note:
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REPORT OF ANALYSIS

Mr. John Long
Turner Environmental Consultants
110 West Main Street, Suite A
Carrboro, NC 27510

September 07,2000

ESC Sample # : L23923-04
ESC Key : TURENV-01099
Site ID :
Project # : 01099

Date Received : September 01, 2000
Description : Water - Quality Mart No 2
Sample ID : MW13
Collected By : John Long
Collection Date : 08/31/00 10:07

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	BDL	5.0	ug/l	6010	09/03/00	1
Volatile Petroleum Hydrocarbons	550	100	ug/l	MADEPV	09/06/00	1
C5-C8 Aliphatics	550	100	ug/l	MADEPV	09/06/00	1
C9-C12 Aliphatics	BDL	100	ug/l	MADEPV	09/06/00	1
C9-C10 Aromatics	BDL	100	ug/l	MADEPV	09/06/00	1
Surrogate Recovery						
2,5-Dibromotoluene(FID)	129.		% Rec.	MADEPV	09/06/00	1
2,5-Dibromotoluene(PID)	71.0		% Rec.	MADEPV	09/06/00	1
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
Bromoform	BDL	1.0	ug/l	601/602MS	09/06/00	1
Bromomethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	09/06/00	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
Chloroethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	09/06/00	1
Chloroform	BDL	1.0	ug/l	601/602MS	09/06/00	1
Chloromethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	09/06/00	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	09/06/00	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	09/06/00	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	09/06/00	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	09/06/00	1
Methyl tert-butyl ether	14.	5.0	ug/l	601/602MS	09/06/00	1
Naphthalene	BDL	1.0	ug/l	601/602MS	09/06/00	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. John Long
Turner Environmental Consultants
110 West Main Street, Suite A
Carrboro, NC 27510

September 07,2000

ESC Sample # : L23923-04
ESC Key : TURENV-01099
Site ID :
Project # : 01099

Date Received : September 01, 2000
Description : Water - Quality Mart No 2
Sample ID : MW13
Collected By : John Long
Collection Date : 08/31/00 10:07

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	09/06/00	1
Toluene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	09/06/00	1
o-Xylene	BDL	1.0	ug/l	601/602MS	09/06/00	1
m&p-Xylene	BDL	1.0	ug/l	601/602MS	09/06/00	1
Ethylene Dibromide	BDL	0.010	ug/l	504.1	09/07/00	1

Jovona McDowell, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

September 07,2000

Mr. John Long
Turner Environmental Consultants
110 West Main Street, Suite A
Carrboro, NC 27510

ESC Sample # : L23923-01
ESC Key : TURENV-01099
Site ID :
Project # : 01099

Date Received : September 01, 2000
Description : Water - Quality Mart No 2
Sample ID : MW6-1
Collected By : John Long
Collection Date : 08/31/00 10:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	39.	5.0	ug/l	6010	09/03/00	1

Jovona McDowell, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. John Long
Turner Environmental Consultants
110 West Main Street, Suite A
Carrboro, NC 27510

September 07,2000

ESC Sample # : L23923-05
ESC Key : TURENV-01099
Site ID :
Project # : 01099

Date Received : September 01, 2000
Description : Water - Quality Mart No 2
Sample ID : MW6-2
Collected By : John Long
Collection Date : 08/31/00 10:51

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	1900	5.0	ug/l	6010	09/03/00	1

Jovona McDowell, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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VPH (Aliphatics/Aromatics) Laboratory Reporting Form Continued

Client Name:	Turner Environmental	Laboratory Name	Environmental Science Corp.
Project Name:	Quality Mart No 2	NC Certification # (Lab)	375
Site Location:			

Include Appropriate Units

Sample Identification	L23923-02	L23923-03	L23923-04				
Sample Description	MW11	MW12	MW13				
Sample Matrix	water	water	water				
Collection Option (for soil)*	NA	NA	NA				
Date Collected	8/31/00	8/31/00	8/31/00				
Date Received	9/1/00	9/1/00	9/1/00				
Date Extracted	NA	NA	NA				
Date Analyzed	9/6/00	9/6/00	9/6/00				
Dry Weight	NA	NA	NA				
Dilution Factor	1	1	1				
C5-C8 aliphatics in µg/L	1800	390	550				
C9-C12 Aliphatics* in µg/L	620	<100	<100				
C9-C10 Aromatics* in µg/L	<100	<100	<100				
Surrogate % Recovery - FID	266%	131%	129%				
Surrogate % Recovery - PID	115%	70%	71%				

*Option 1=Established fill line on vial Option 2=Sampling Device (indicate brand, e.g. EnCore) Option 3= Field weight of soil

**Range results should exclude any surrogates, internal standards, or Target PAH analytes.

Percent Recovery - Fortified Blank (Spike) - PID			70
Relative Percent Difference - PID Duplicate			0
Percent Recovery - Fortified Blank (Spike) - FID	96	101	
Relative Percent Difference - FID Duplicate	0.1	0.6	

Attachment 2

VPH Laboratory Reporting Form

Initial Calibration Date July 31, 2000

Calibration Ranges and Limits

[illegible]	[illegible]	[illegible]	[illegible]
C5-C8 Aliphatics	.0062 mg/L	0.02 mg/L	0.1 mg\L
C-9-C-12 Aliphatics	.0032 mg/L	0.01 mg/L	0.1 mg\L
C9-C10 Aromatics.	.0011 mg/L	0.003 mg/L	0.1 mg\L

NOTE: Please include units as appropriate

Method of Quantitation (Circle one) Curve or Average Response Factor

Calibration Concentration Levels

[illegible]	[illegible]	[illegible]
C-5-C-8 Aliphatics	0.075 mg/L	Coef of Det (r^2) 7.600 Avg. Response
	0.375 mg/L	
	0.750 mg/L	
	7.5 mg/L	
	11.25 mg/L	
C-9-C-12 Aliphatics	0.055 mg/L	Coef of Det (r^2) 9.200 Avg. Response
	0.275 mg/L	
	0.550 mg/L	
	5.50 mg/L	
	8.25 mg/L	
C-9-C-10 Aromatics	0.010 mg/L	Coef of Det (r^2) 0.994 Linear Fit
	0.050 mg/L	
	0.100 mg/L	
	1.00 mg/L	
	1.50 mg/L	

NOTE: Please indicate units as appropriate.

Calibration Check Date 9/5/00

Calibration

[illegible]	[illegible]	[illegible]	[illegible]
C-5-C-8 Aliphatics	0.75	0.0	0.75
C-9-C-12 Aliphatics	0.55	1.8	0.54
C-9-C-10 Aromatics	0.10	6.2	0.09

MDL=Method Detection Limit
ML=Minimum Limit
RL= Reportable Limit

RPD= Relative Percent Difference
%RSD= Percent Relative Standard Deviation
CCC= Correlation Coefficient of Curve

Turner Environmental
Quality Mart No 2
L23923-02 through -04

Alternate billing information:

Analysis/Preservative/Container

Chain of Custody
Page 1 of 1

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
FAX (615) 758-5859

TURNER ENVIRONMENTAL CONSULTANTS
110 West Main Street, Suite A
Carrboro, North Carolina 27510

Report to: John Long
Project name: Quality Mart No. 2
Phone: (919)-932-1590
Project #: 01099
P.O.#: 0109908310 0
FAX: (919)-932-1594
Facility ID#: –
Industry: –

Collected by (print): John Long
County (Soil): –
State: NC
Collected by (signature): John Long
Rush? (Lab MUST Be Notified)
___ <24 hr 200%
___ 24-48 hr 100%
___ 48-72 hr 50%
Date Results Needed: 9/7/00
FAX? ___ No X Yes

Sample Location/ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	EDB + MTBE + BTEX / HCl / 40mL vial	MADEP VPH / HCl / 40mL vial	Remarks/Contaminant	Sample # (lab only)
MW6-1	Grab	GW	–	8/31/00	10:50	1				
MW11			–		10:30	10	X	X		
MW12			–		10:19	10	X	X		
MW13			–		10:07	10	X	X		
MW6-2					10:51	1				

*Matrix: SS - Soil GW - Groundwater TW - Treated Groundwater WW - WasteWater WS - Water Sample WO - Waste Oil DW - Drinking Water SL - Sludge SD - Sediment OT - Other_____

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
John Long	8/31/00	2:30		
Relinquished by:	Date:	Time:	Received by:	
Relinquished by: (Signature)	Date:	Time:		

NCDENR
North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

October 29, 2009

RECEIVED
NCDENR
Division of Waste Management

NOV 10 2009

UST Section
Mooresville Regional Office

TO: Dan Graham
Mooresville Regional Office
NC UST Section

FROM: David Lilley DEL
Environmental Toxicologist
NC Division of Waste Management

RE: Health Risk Evaluation
Quality Mart # 2
Incident No. 21079
Lippard Well Sampling Results
Majolica Road
Salisbury, NC

During this sampling event, five contaminants were detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If any contaminant concentrations exceed applicable standards for using the water for drinking and cooking, those contaminant concentrations are further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentrations with the applicable standards:

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OCT 28 2009
SUPERFUND SECTION

NCDENR

North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue, Governor

Division of Waste Management
UST Section

Dee Freeman, Secretary
Dexter R. Matthews, Director

October 28, 2009

MEMORANDUM

TO: Dave Lilley, Environmental Toxicologist, Division of Waste Management, 1646 Mail Service Center, Raleigh, NC 27699-1646 (FAX (919) 733-4811)

FROM: Dan Graham, Mooresville Regional Office, UST Section DG

SUBJECT: Request for Health Risk Evaluation of Water Supply
Tracking ID: Incident #21079

Enclosed please find the analytical results for a water sample collected on October 9, 2009 from the Lippard water supply well, identified as PW-16, located at Majolica Road, Salisbury, Rowan County. Please perform a health risk evaluation and send the evaluation with your recommendation and a copy of this memo to me. I will then forward the health risk evaluation and recommendation to any well users.

If you have questions or need additional information, please contact me at the address or telephone number below. Thank you for your assistance.

Attachment(s): PW-16/Lippard Well Sample Analytical Results

UST Regional Offices

Asheville (ARO) – 2090 US Highway 70, Swannanoa, NC 28778 **(828) 296-4500**

Fayetteville (FAY) – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 **(910) 433-3300**

Mooresville (MOR) – 610 East Center Avenue, Suite 301, Mooresville, NC 28115 **(704) 663-1699**

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**

Washington (WAS) – 943 Washington Square Mall, Washington, NC 27889 **(252) 946-6481**

Wilmington (WIL) – 127 Cardinal Drive Extension, Wilmington, NC 28405 **(910) 796-7215**

Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 **(336) 771-5000**

Guilford County Environmental Health, 1203 Maple Street, Greensboro, NC 27405, **(336) 641-3771**

Lippardwsw.hre09

Sample ID	Contaminant	Concentration (ug/l)*	MCL (ug/l)	2L (ug/l)
F68687-3	Acetone	77.2		700
	Chloroform	0.083	80**	
	Methyl Ethyl Ketone	64.8		4,200
	Methyl Tert Butyl Ether	5.3		200***
	Tetrachloroethylene	0.16	5	

* The abbreviation ug/l stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

** As total trihalomethanes.

*** The present 2L standard for MTBE is 200 ug/l. However, the proposed update to the 2L standard and the lower limit of the US EPA Drinking Water Advisory are both 20 ug/l, and this value is used for comparison to MTBE concentrations in well water.

RECOMMENDATION: None of the contaminants detected exceeded the applicable water standards. Therefore, no restrictions on the use of this water are recommended at this time.

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

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JAN 16 2008
Division of Waste Management
UST Section
Mooresville Regional Office

PRE-CAP GROUNDWATER MONITORING REPORT

(Subsequent Report)

(December 5, 2007 Sampling Event)

QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NORTH CAROLINA

Latitude: 35°41' 58" N Longitude: 80°26' 6" W

NCDWM - UST Incident No. 21079
Facility ID 0-019963
Risk Classification: High 385
Land Use: Residential

Release Information
Date Discovered: April 13, 1999
Estimated Release Quantity: Unknown

Release Source: Commercial UST System
Capacity of Former USTs: (1) 6,000-gallon and (2) 10,000-gallon Gasoline USTs

Responsible Party:	Property Owners:	
Quality Oil Company, LLC P.O. Box 2736 Winston-Salem, NC 27102-2736	Mark and Martha Summers 18726 Old Statesville Rd. Cornelius, NC 28031	NCDOT 4770 South Main St. Salisbury, NC 28147

TerraQuest Project No. 01099

January 11, 2008

100 E. Ruffin Street • Mebane, North Carolina 27302
Telephone (919) 563-9091 • Facsimile (919) 563-9095
www.terraquestpc.com

Table 1

SITE HISTORY (UST SYSTEM INFORMATION)

Date: 1/11/08 Incident Name: Quality Mart No. 2 Incident Number: 21079 Facility ID No: 0-019963

UST	Product	Capacity (Gallons)	Date Installed	Date Closed	Release Discovered
T1	Used Oil	550	5/8/58	11/1/1998	NO
T2	Gasoline	10,000	5/6/67	7/11/1991	NO
T3	Gasoline	6,000	5/5/1970	7/11/1991	NO
T4	Gasoline	10,000	5/6/67	7/11/1991	NO
T5	Gasoline	12,000	7/11/91	8/11-29/03	YES
T6	Gasoline	8,000	7/11/91	8/11-29/03	YES
T7	Gasoline	8,000	7/11/91	8/11-29/03	YES

Notes:

1. Information obtained from the North Carolina UST Database Records, Quality Oil Company, LLC, and Mark Summers.
2. Refer to figure 3 for the location of the former UST's.
3. T5,T6,and T7 ownership transferred to Mark Summers in April of 1999.
4. Release suspected to originate from old product lines of former UST system.

Table 2

Date: 1/11/08

WATER SUPPLY WELL INFORMATION

Incident Name: Quality Mart No. 2 Incident No 21079

Facility ID No. 0-019963

Parcel ID No. Well ID No.	Well Owner/Address	Well Address	Phone No.	Well Use	Well Depth (ft. BGS)	Type of Well	Casing Depth (ft. BGS)	Screen Interval (ft. BGS)	Distance from Source Area of Release (ft.)
330 023 APW1	William H. Beaver 219 Catawba Drive Salisbury, NC	2575 Statesville Blvd. Salisbury, NC 28144	704-636-0196	Abandoned	NA	NA	NA	NA	164
330 024 APW2	George Hupp Fink 1025 Kenley Road Salisbury, NC	2535 Statesville Blvd. Salisbury, NC 28144	704-636-4883	Abandoned	NA	NA	NA	NA	260
330 022 APW3	WW Partnership 1400 Battleground Avenue, suite 164 Greensboro, NC	114 Woodland Creek Drive Salisbury, NC 28147	704-633-2523	Abandoned	124	NA	NA	NA	145
330 108 PW2/PW6	Yorke B. & Jane Beaver 2675 Statesville Blvd. Salisbury, NC 28144	2675 Statesville Blvd. Salisbury, NC 28144	704-528-2335	Active - sole source of water	PW6 ~ 300 PW2-unknown	NA	NA	NA	355
329 047 PW3	Darell W. Cobb 2620 Staesville Blvd. Salisbury, NC 28147	2620 Staesville Blvd. Salisbury, NC 28144	704-637-6941	Active - sole source of water	unknown	NA	NA	NA	211
329 048 PW4	James Reid & Anna Cress 220 Neita Drive Salisbury, NC 28147	220 Neita Drive Salisbury, NC 28147	NA	Inactive - connected to city water	unknown	NA	NA	NA	275
329 049 PW5	James Arcus & Donnie Myers 224 Whispering Woods Orange Park, FL 32073	2660 Statesville Blvd. Salisbury, NC 28147	904-269-3356	Inactive - connected to city water	~ 200	NA	NA	NA	400
329 403 PW7	James W. Gant P.O. Box 311 Salisbury, NC 28147	185 Wilton Lane Salisbury, NC 28147	704-636-9512	Active - sole source of water	unknown	NA	NA	NA	525
329 170 PW8	Jane K. & Ted Walton 2680 Statesville Blvd. Salisbury, NC 28147	2680 Statesville Blvd. Salisbury, NC 28147	704-637-1358	Active - sole source of water	unknown	NA	NA	NA	590
330 042 PW9	Jayne Koontz Walton 2680 Statesville Blvd. Salisbury, NC 28147-7446	2720 Statesville Blvd. Salisbury, NC 28147-7446	704-636-4979	Active - sole source of water	unknown	NA	NA	NA	765
329 130 PW10	Peter & Nancy Decoster 215 Wilton Lane Salisbury, NC 28144	215 Wilton Lane Salisbury, NC 28144	704-637-0408	Active - sole source of water	unknown	NA	NA	NA	725
330 119 PW11	Richard Lee & Annie Cooley 1325 Powell Road Woodleaf, NC	2830 Statesville Blvd. Salisbury, NC 28147	NA	Inactive - connected to city water in 1999	unknown	NA	NA	NA	915
329 131 PW12	Peter & Nancy Decoster 215 Wilton Lane Salisbury, NC 28144	Wilton Lane Salisbury, NC 28147	NA	Inactive - vacant	unknown	NA	NA	NA	1,210
330 068 PW13	Piedmont Farm Credit ACCA, Inc. P.O. Box 1827 Statesville, NC	2810 Statesville Blvd. Salisbury, NC 28147	NA	Inactive - connected to city water	unknown	NA	NA	NA	1,175
329 407 PW14	Agner Family Properties 170 Frances Street Salisbury, NC	Statesville Blvd. Salisbury, NC 28147	NA	Inactive - connected to city water	unknown	NA	NA	NA	1,415
330 026 PW15	Mildred Poteat 160 Majolica Road Salisbury, NC	160 Majolica Road Salisbury, NC	NA	Secondary source well Connected to city water	~220	Drilled	NA	NA	680
330 116 PW16	Harry E. Lippard 145 Majolica Road Salisbury, NC	145 Majolica Road Salisbury, NC	NA	Active - sole source of water	~220 - 240	Drilled	120	NA	990
330 100 PW17	Steven Ray Morrison II 884 Scotts Creek Road Statesville, NC	150 Neita Drive Salisbury, NC	NA	Active - sole source of water	NA	NA	NA	NA	1,185
330 121 PW18/PW19	Clyde W. & Mary Granberry 280 Neita Drive Salisbury, NC	2715 Statesville Blvd. Salisbury, NC	NA	Active - sole source of water	PW18 - NA PW19 - NA	NA	NA	NA	675/695

Notes:
1. ft. BGS - feet below ground surface // NA - Not Available.
2. Information obtained from TerraQuest field interviews and returned survey forms.
3. Well ID numbers are displayed on Figure 2.
4. Distances are approximate
5. Note that APW1, 2, & 3 were abandoned. Also note that APW3 was formerly PW1.
6. Updated January 2007.

Table 3

Date:1/11/08

MONITORING WELL CONSTRUCTION INFORMATION

Incident Name: Quality Mart No. 2 Incident No. 21079

Facility ID No: 0-019963

Well ID	Date Installed	Date Water Level Measured	Well Casing Depth (ft. BGS)	Screened Interval (x to y ft. BGS)	Bottom of Well (ft. BGS)	Top of Casing Elevation (feet)	Depth to Water from Top of Casing (feet)	Free Product Thickness (feet)	Groundwater Elevation (feet)	Comments
MW1	7/12/99	12/5/07	20	20-30	30	101.36	29.17	-	72.19	Type II well
MW2	7/12-13/99	12/5/07	OC: 33 IC: 37	37-48	48	101.48	30.33	-	71.15	Type III well
MW3	7/13/99		20	20-35	35	101.10	-	-	-	Type II well
MW3A	7/13/04	12/5/07	35	20-35	35	100.96	28.24	-	72.72	Type II well
MW4	7/13/99		20	20-35	35	100.00				Type II well
MW5	7/13/99	12/5/07	20	20-35	35	101.22	28.42	-	72.80	Type II well
MW6	3/13/00	12/5/07	15	15-25	35	95.25	24.27	-	70.98	Type II well
MW7	3/13/00		20	20-35	35	100.16				Type II well
MW8	3/14/00		20	20-35	35	101.18				Type II well
MW9	3/13/00		20	20-35	35	100.53				Type II well
MW10	5/3/00		19	19-24	24	95.84				Type II well
MW10A	7/13/04	12/5/07	27	20-27	27	97.11	26.93	-	70.18	Type II well/stickup 40"
MW11	8/30/00		20	20-35	35	97.71	-	-	-	Type II well
MW11A	7/12/04	12/5/07	27	20-27	27	95.57	26.46	-	69.11	Type II well/stickup 40.5"
MW12	8/30/00		22.5	22.5-37.5	37.5	99.27				Type II well
MW12A	7/13/04	12/5/07	35	20-35	35	99.47	28.63	-	70.84	Type II well
MW13	8/30/00	12/5/07	20	20-35	35	93.61	23.93	-	69.68	Type II well
MW14	11/6/00	12/5/07	15	15-35	35	93.04	24.00	-	69.04	Type II well
MW15	11/6/00		15	15-35	35	94.75				Type II well
MW15A	7/19/04	12/5/07	30	15-30	30	95.68	25.43	-	70.25	Type II well
MW16	11/7/00	12/5/07	11.5	11.5-31.5	31.5	88.12	20.07	-	68.05	Type II well
MW17	11/6/00		37	15-35	35	95.58				Type II well
MW17A	7/12/04	12/5/07	31	21-31	31	96.71	28.21	-	68.50	Type II well/stickup 43.75"
MW18	7/19-20/04	12/5/07	OC: 35 IC: 45	45-50	50	97.51	27.93	-	69.58	Type III well/stickup 43"

Notes:

1. All units in feet.
2. OC = outer casing, IC = inner casing
3. Shading indicates monitoring well is abandoned.
4. (-) indicates no product detected or not applicable.

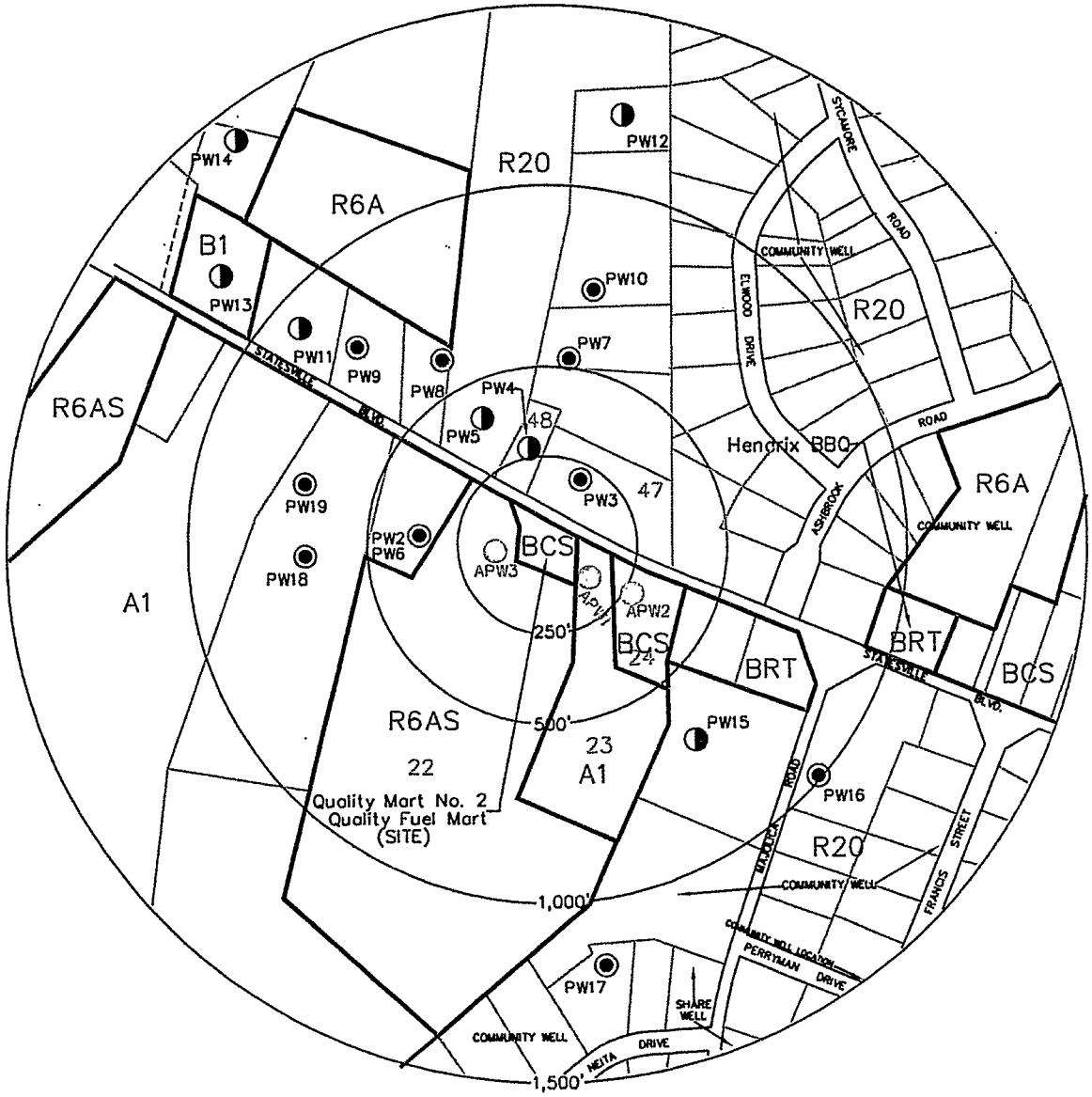
Table 4
Date: 1/11/08

SUMMARY OF GROUNDWATER SAMPLING RESULTS
Incident Name: Quality Mart No. 2 Incident No. 21079

Facility ID No: 0-019963

Analytical Method:		6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6210D+MtBE+IPE	6010B(3030C digestion
Contaminant of Concern:											
Well ID	Date Collected	Benzene	Toluene	Ethylbenzene	Total Xylenes	MtBE	IPE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Tetrachloroethene	Lead
MW2	12/5/2007	<1.0	<5.0	<1.0	<3.0	**2.0**	<1.0	<1.0	<1.0	<1.0	<5.0
MW3A	12/5/2007	**3.6**	<5.0	**1.0**	**11.1**	**140**	**17**	**2.1**	**2.1**	<1.0	**21.0**
MW6	12/5/2007	<1.0	<5.0	<1.0	<3.0	**14.0**	<1.0	<1.0	<1.0	<1.0	**150**
MW10A	12/5/2007	**49.0**	<120	<25	<75	**1,300**	**27.0**	**31.0**	<25	<25	<5.0
MW11A	12/5/2007	**17.0**	<50	<10	<30	**700**	**10.0**	<10	<10	<10	<5.0
MW13	12/5/2007	**2.6**	<5.0	<1.0	**3.9**	**75.0**	**2.3**	**1.3**	<1.0	<1.0	**6.5**
MW14	12/5/2007	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
MW17A	12/5/2007	<1.0	<5.0	<1.0	<3.0	**150**	**2.6**	<1.0	<1.0	<1.0	**5.1**
MW18	12/5/2007	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	**1.2**	<5.0
PW3	12/5/2007	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	**1.1**	<5.0
PW16	12/5/2007	<1.0	<5.0	<1.0	<3.0	**4.1**	<1.0	<1.0	<1.0	<1.0	<5.0
	2L Standard	1	1,000	550	530	200	70	350	350	0.7	15

Notes:
1. All results in µg/L.
2. **BOLD** denotes a detected concentration above the laboratory's sample-specific method detection limit.
3. Shading denotes a concentration above the applicable 2L Standard.
4. "<" denotes no detection at concentration above the laboratory's sample-specific method detection limit.



LEGEND

R20	Residential
R6A	Multi–Family Residential
R6AS	Multi–Family Residential
A1	Agricultural
B1	Office Business
BRT	Retail Trade Business
BCS	Convenience Service Business
——	Zoning Boundary
PW1	Active Potable Well
PW1	Inactive Potable Well
APW1	Abandoned Potable Well

The last two digits of the tax parcel number are shown for properties surrounding the site. Refer to Table 2 for the complete number and tax parcel numbers of other well owners.

Reconnaissance performed by TerraQuest in July 2004.

Properties without wells within 1,500' of the site that are not located on Statesville Blvd. receive their water supply from community wells which are located beyond 1,500'.

GRAPHIC SCALE

0' 250' 500' 1,000'

SITE VICINITY MAP
QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC WINSTON–SALEM, NC

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

PROJECT NO.	01099	DATE:	1/11/08
CHECKED BY:	MJB	SCALE:	1"=500'
DRAWN BY:	MJB/JAK	FIGURE NO.	2

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

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Division of Waste Management

JUL 31 2009

UST Section
Mooresville Regional Office

PRE-CAP GROUNDWATER MONITORING REPORT

(Subsequent Report)

(June 26, 2009 Sampling Event)

QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NORTH CAROLINA

Latitude: 35.6994° N Longitude: 80.435° W

NCDWM - UST Incident No. 21079
Facility ID 0-019963
Risk Classification: HIGH (H285R)
Land Use: Residential

Release Information
Date Discovered: April 13, 1999
Estimated Release Quantity: Unknown

Release Source: Commercial UST System
Capacity of Former USTs: (1) 6,000-gallon and (2) 10,000-gallon Gasoline USTs

Responsible Party:

Quality Oil Company, LLC
P.O. Box 2736
Winston-Salem, NC 27102-2736

Property Owner:

Mark and Martha Summers
18726 Old Statesville Rd.
Cornelius, NC 28031

Terraquest Project No. 01099

July 29, 2009

100 E. Ruffin Street • Mebane, North Carolina 27302
Telephone (919) 563-9091 • Facsimile (919) 563-9095
www.terraquestpc.com

CERTIFICATION FOR THE SUBMITTAL OF AN ENVIRONMENTAL / GEOLOGICAL ASSESSMENT

Attached is the Pre-CAP Groundwater Monitoring Report (Subsequent Report) for:

Responsible Party:	Quality Oil Company, LLC				
Address:	P.O. Box 2736				
City:	Winston-Salem	State:	NC	Zip Code:	27102-2736
Site Name:	Quality Mart No. 2				
Address:	2625 Statesville Blvd.				
City:	Salisbury	State:	NC	Zip Code:	28147

I, Michael J. Brown, a Licensed Geologist in the State of North Carolina for Terraquest Environmental Consultants, P.C. do hereby certify that I am familiar with and have reviewed all material including figures within this report and that to the best of my knowledge the data, site assessments, figures, and other associated materials are correct and accurate. All work was performed under my direct supervision. My seal and signature are affixed below. Additional seals and/or signatures are also affixed below.

Terraquest Environmental Consultants, P.C. is licensed to practice geology in North Carolina. The certification number of the corporation is C-291.

TERRAQUEST ENVIRONMENTAL CONSULTANTS, P.C.

Nick Perry
Environmental Technician

NORTH CAROLINA LICENSED SEAL 1185 GEOLOGIST MICHAEL J. BROWN

Michael J. Brown, P.G.
President

1.0 INTRODUCTION

On behalf of Quality Oil Company, LLC, Terraquest Environmental Consultants, P.C. is reporting results of groundwater monitoring activities at the former Quality Mart No. 2 facility located in Salisbury, North Carolina. In compliance with the NCDWM-UST's NORR dated, October 31, 2006, Terraquest personnel conducted a groundwater monitoring event at the Quality Mart No. 2 facility on June 26, 2009. These activities were pre-approved under Task Authorization No. 21079-020.

The site location is depicted in Figure 1. The site vicinity and nearby water supply wells are depicted in Figure 2. Figure 3 depicts the layout of the site including the monitoring well network. Technical methods and standard procedures utilized by Terraquest personnel along with environmental acronyms presented in this report are provided in Appendix A.

2.0 GROUNDWATER FLOW DIRECTION

Prior to purging and sampling the monitoring well network, depth-to-groundwater measurements were collected on June 26, 2009 to identify the location of the phreatic aquifer and determine the direction of its flow. Groundwater measurements have been reduced to a common datum by surveying the relative elevations of the top of the casing for each monitoring well. The calculated water table elevations were plotted on a plan of the site and used to create a contour map of the water table surface as shown on Figure 4. As shown on Figure 4, groundwater is directed to the southeast as it has been historically. Elevation data collected on June 26, 2009 is summarized in Table 1.

3.0 GROUNDWATER MONITORING

On June 26, 2009, Terraquest personnel sampled monitoring wells MW3A, MW5, MW6, MW11A, MW12A, MW13, MW14, MW15A, MW17A, and MW18 and potable well PW16. There

was insufficient water in monitoring wells MW1 and MW10A to collect a sample. Prior to sampling the monitoring wells, each well was purged of at least three well volumes of water using a new disposable bailer; the potable well was purged using its pump. Bailers were used to retrieve a groundwater sample from each monitoring well. Upon retrieval, samples were placed into the appropriate laboratory-prepared containers and placed on ice pending transit to a North Carolina-certified laboratory for analysis. All of the groundwater samples were submitted for analysis per 6200B for VOCs.

The analytical results revealed the presence of petroleum-type compounds at concentrations exceeding the 2L Standards in monitoring well MW18. NC Drinking Water Standards for MTBE were also exceeded in monitoring wells MW3A, MW11A, MW13, MW17A, and MW18. Petroleum-type compounds were reported for MW5, MW6, and MW14, however, the reported concentrations were below the applicable 2L Standards. Monitoring wells MW12A and MW15A did not have any petroleum-type compounds reported at concentrations in excess of the laboratory's method detection limit.

Potable well PW16 had a reported concentration of 10 µg/L of MTBE which is an increase from previous samples. PW16 is currently used as active sole-source potable wells.

Groundwater analytical data is summarized on Table 2 and on Figure 5. The estimated extent of 2L Standard violations in groundwater based on historical and recent data is displayed on Figure 5. Note that there are not enough data points to support isoconcentration maps for any individual compound. The full analytical report is provided in Appendix B. Historical analytical data sheets are provided for each of the former/current groundwater monitoring and potable wells in Appendix C.

4.0 CONCLUSIONS / RECOMMENDATIONS

Analytical results from the June 26, 2009 sampling event indicate that groundwater beneath the site remains impacted at concentrations in excess of the 2L Standards. Key points to consider are:

- Monitoring well MW10A, located offsite and downgradient of the former UST basin, could not be sampled due to insufficient water. Analytical results from December 2008 revealed an MTBE concentration of 1,700 ug/L. Similar concentrations have been reported since December 2007 and the concentrations have been increasing since July 2004 when monitoring was initiated. This indicates the plume is continuing to move in the downgradient direction. Monitoring well MW10A is currently the only Type II well with a 2L Standard violation.

- Monitoring well MW18 is a Type III well located adjacent to monitoring well MW10A. The June 26, 2009 results revealed benzene at a concentration of 2.4 ug/L and MTBE at a concentration of 320 ug/L. These results are consistent with those from December 2008. Benzene and MTBE concentrations have shown an increase since monitoring was initiated in July 2004. There are no additional Type III wells located downgradient to monitor the movement of the plume. Using the recent groundwater elevation data, Terraquest calculated there is a positive vertical gradient of 0.02 indicating the preference for groundwater to migrate deeper into the aquifer.

- Analytical data from the two furthest downgradient monitoring wells, MW11A and MW17A, showed a decrease in contaminant concentrations. A review of the analytical history and groundwater elevation data revealed that the contaminant concentrations are much lower when the groundwater elevations are higher. The recent depth-to-water measurements indicated groundwater is approximately two feet shallower in these wells compared to the last sampling event. Since the groundwater elevation data appears to be closely related to the contaminant concentrations, it is unlikely the contaminant concentrations have actually decreased significantly. For example, the MTBE concentration in monitoring well MW11 was 1,900 ug/L on December 1, 2008 and a similar concentration was noted on June 17, 2008. On June 26, 2009, the concentration was 140 ug/L. Terraquest believes the lower concentration is due to the groundwater elevation.

- Utilizing the December 1, 2008 analytical data for monitoring wells MW11A and MW17A, the extent of the 2L Standard violation is not defined in the downgradient direction.

- Analytical results from potable well PW16 revealed an MTBE concentration of 10 ug/L. The concentration of MTBE in PW16 has been increasing since monitoring was initiated

in December 2006. The property owner has refused attempts to be connected to the municipal water system.

- The property owners of the former Quality Mart No. 2 site, Mark and Martha Summers, have not allowed Terraquest access to the property for installation of a proposed remediation system. Additional assessment is needed to determine if a remediation system is required and where it should be located.

- The property located immediately downgradient of the release has not granted permission for additional assessment work beyond periodic sampling of the monitoring wells. This property formerly belonged to William H. Beaver, now deceased. The Executor of the Estate is Linda Jo Beaver Willis. Should the NCDWM-UST agree with the recommendations in this report, Terraquest will make additional efforts to obtain an access agreement for the property.

- Terraquest has received access from the next downgradient property owned by George Fink.

Recommendations:

- Obtain access agreement with Estate of William H. Beaver for additional assessment. Two additional shallow monitoring wells should be installed to further define the contaminant plume.

- An additional Type III well and two – three additional shallow wells should be installed on the George Fink property or further downgradient to further define the extent of the plume.

- Conduct another round of sampling once the additional assessment is completed and prepare a Groundwater Monitoring Report. Given the anticipated access issues and pre-approval process, Terraquest recommends this sampling event occur at the next scheduled sampling which is December 2009. Additional recommendations will be made at that time.

- As part of the next scheduled sampling, Terraquest will include monitoring wells MW4 and MW11 on the Westcliff BP property as indicated in the NCDWM-UST correspondence. Terraquest had already submitted the current pre-approval when this correspondence was received.

- Given the concentration of MTBE in potable well PW16, Terraquest recommends quarterly sampling. In addition, Terraquest will submit the results to the property owner and the State Epidemiologist for review.

5.0 LIMITATIONS

This report is limited to the investigation of dissolved petroleum hydrocarbons, such as gasoline, in groundwater and does not imply that other unforeseen adverse impacts to the environment are not present at or around the site in question. In addition, subsurface heterogeneities not identified during the current study may influence the migration of groundwater or contaminants in unpredicted ways. The limited amount of sampling and testing conducted during this study cannot practically reveal all subsurface heterogeneities. Furthermore, the subsurface conditions, particularly groundwater flow, elevations, and water quality, may vary through time. The opinions and conclusions determined in this report are in accordance with industry-accepted geologic and hydrogeologic practices at this time and location. No warranty is implied or intended.

Table 1
Date: 6/26/09

MONITORING WELL CONSTRUCTION INFORMATION
Incident Name: Quality Mart No. 2 Incident No. 21079

Facility ID No: 0-019963

Well ID	Date Installed	Date Water Level Measured	Well Casing Depth (ft. BGS)	Screened Interval (x to y ft. BGS)	Bottom of Well (ft. BGS)	Top of Casing Elevation (feet)	Depth to Water from Top of Casing (feet)	Free Product Thickness (feet)	Groundwater Elevation (feet)	Comments
MW1	7/12/99	6/26/09	20	20-30	30	101.36	28.91	-	72.45	Type II well
MW2	7/12-13/99	6/26/09	OC: 33 | IC: 37	37-48	48	101.48	30.15	-	71.33	Type III well
MW3	7/13/99	-	20	20-35	35	101.10	-	-	-	Type II well
MW3A	7/13/04	6/26/09	35	20-35	35	100.96	28.41	-	72.55	Type II well
MW4	7/13/99	-	20	20-35	35	100.00	-	-	-	Type II well
MW5	7/13/99	6/26/09	20	20-35	35	101.22	28.65	-	72.57	Type II well
MW6	3/13/00	6/26/09	15	15-25	35	95.25	23.41	-	71.84	Type II well
MW7	3/13/00	-	20	20-35	35	100.16	-	-	-	Type II well
MW8	3/14/00	-	20	20-35	35	101.18	-	-	-	Type II well
MW9	3/13/00	-	20	20-35	35	100.53	-	-	-	Type II well
MW10	5/3/00	-	19	19-24	24	95.84	-	-	-	Type II well
MW10A	7/13/04	6/26/09	27	20-27	27	97.11	26.23	-	70.88	Type II well/stickup 40"
MW11	8/30/00	-	20	20-35	35	97.71	-	-	-	Type II well
MW11A	7/12/04	6/26/09	27	20-27	27	95.57	25.43	-	70.14	Type II well/stickup 40.5"
MW12	8/30/00	-	22.5	22.5-37.5	37.5	99.27	-	-	-	Type II well
MW12A	7/13/04	6/26/09	35	20-35	35	99.47	28.29	-	71.18	Type II well
MW13	8/30/00	6/26/09	20	20-35	35	93.61	22.95	-	70.66	Type II well
MW14	11/6/00	6/26/09	15	15-35	35	93.04	22.87	-	70.17	Type II well
MW15	11/6/00	-	15	15-35	35	94.75	-	-	-	Type II well
MW15A	7/19/04	6/26/09	30	15-30	30	95.68	24.75	-	70.93	Type II well
MW16	11/7/00	6/26/09	11.5	11.5-31.5	31.5	88.12	17.81	-	70.31	Type II well
MW17	11/6/00	-	37	15-35	35	95.58	-	-	-	Type II well
MW17A	7/12/04	6/26/09	31	21-31	31	96.71	27.06	-	69.65	Type II well/stickup 43.75"
MW18	7/19-20/04	6/26/09	OC: 35 | IC: 45	45-50	50	97.51	27.10	-	70.41	Type III well/stickup 43"

Notes:
1. All units in feet.
2. OC = outer casing, IC = inner casing
3. Shading indicates monitoring well is abandoned.
4. (-) indicates no product detected or not applicable.

Figures

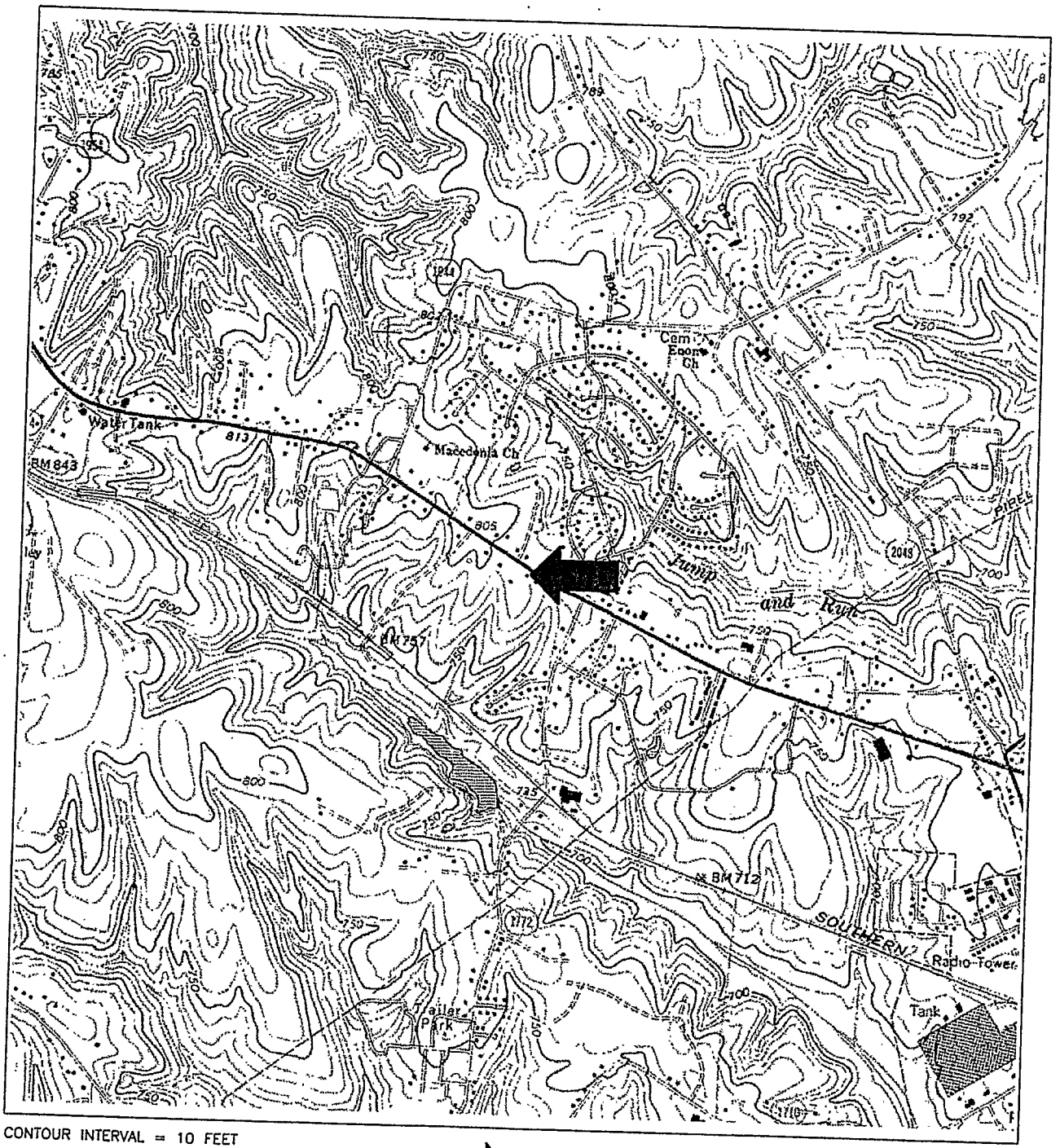
Table 2 SUMMARY OF GROUNDWATER SAMPLING RESULTS

Date: 6/26/09 Incident Name: Quality Mart No. 2 Incident No. 21079 Facility ID No.: 0-019963

Analytical Method:		6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B
Contaminant of Concern:									
Well ID	Date Collected	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
MW3A	6/26/09	<1	<5	<1	**8.3**	**120**	**11**	**2.4**	**3.9**
MW5	6/26/09	<1	<5	<1	<3	**3.8**	<1	<1	<1
MW6	6/26/09	<1	<5	<1	<3	**11**	<1	<1	<1
MW11A	6/26/09	<1	<5	<1	<3	**140**	<1	<1	<1
MW12A	6/26/09	<1	<5	<1	<3	<1	<1	<1	<1
MW13	6/26/09	<1	<5	<1	<3	**20**	<1	<1	<1
MW14	6/26/09	<1	<5	<1	<3	**7.9**	<1	<1	<1
MW15A	6/26/09	<1	<5	<1	<3	<1	<1	<1	<1
MW17A	6/26/09	<1	<5	<1	<3	**81**	<1	<1	<1
MW18	6/26/09	**2.4**	<5	<1	<3	**320**	**4.5**	<1	<1
PW16	6/26/09	<1	<5	<1	<3	**10**	<1	<1	<1
2L Standard		1	1,000	550	530	200	70	350	350
NC Drinking Water Standard						11.6			

Notes:

1. All results in µg/L.
2. **BOLD** denotes a detected concentration above the laboratory's sample-specific method detection limit.
3. Shading denotes a concentration above the applicable 2L Standard or NC Drinking Water Standard.
4. "<" denotes no detection at concentration above the laboratory's sample-specific method detection limit.



CONTOUR INTERVAL = 10 FEET

N

MAP SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS – ROWAN MILLS, NC

GRAPHIC SCALE

0' 2,000' 4,000'

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SITE LOCATION MAP

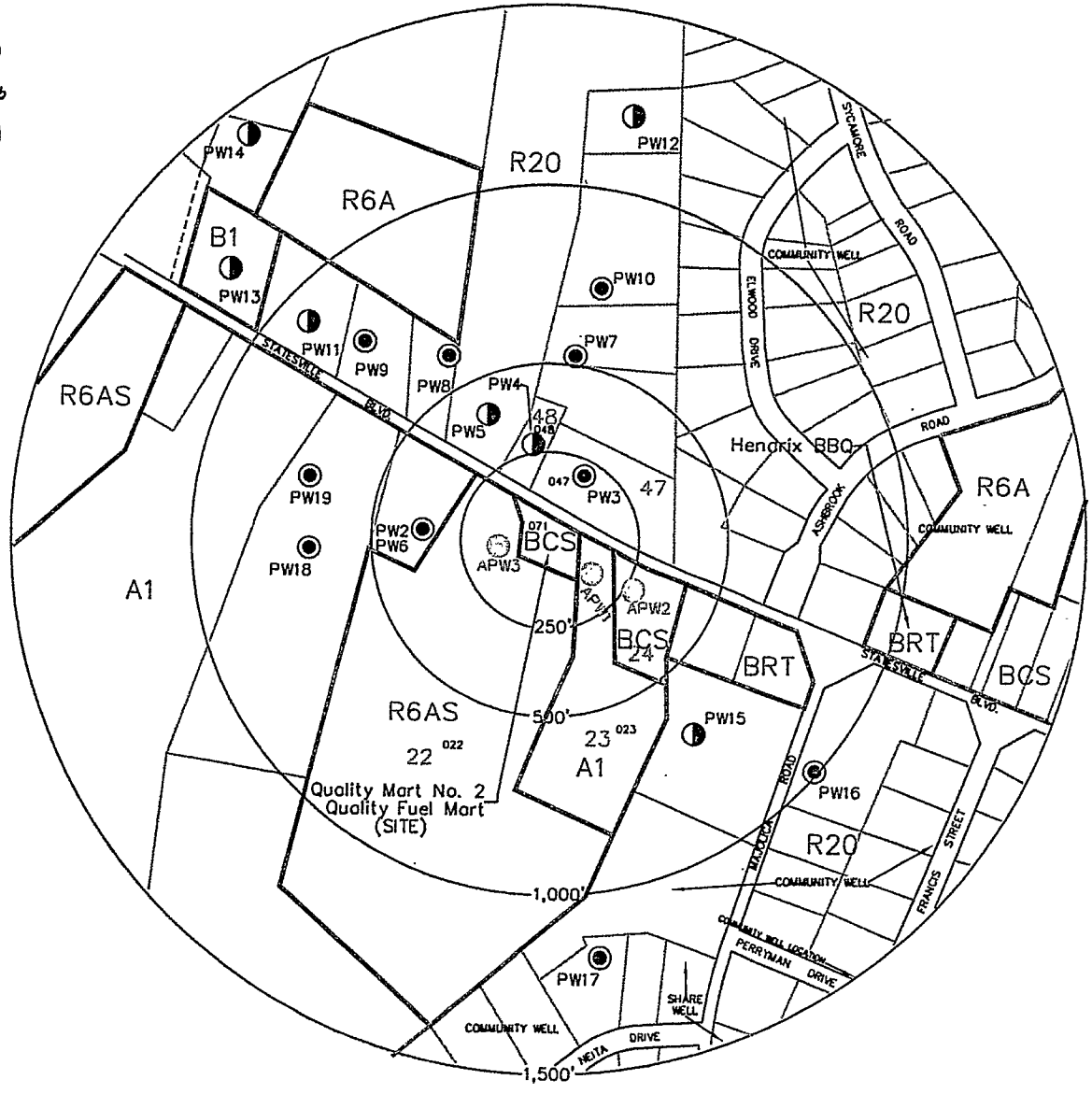
Quality Mart No. 2
2625 Statesville Blvd.
Salisbury, NC

Quality Oil Company, LLC

W-S, NC

~~Rowan County~~

PROJECT NO.	01099	DRAWN BY:	RDK	DATE:	7/2/09
SCALE:	1" = 2,000'	CHECKED BY:	MJB	FIGURE NO.	1



LEGEND

R20	Residential
R6A	Multi–Family Residential
R6AS	Multi–Family Residential
A1	Agricultural
B1	Office Business
BRT	Retail Trade Business
BCS	Convenience Service Business
——	Zoning Boundary
PW1	Active Potable Well
PW1	Inactive Potable Well
APW1	Abandoned Potable Well

The last three digits of the tax parcel number are shown for properties surrounding the site. Refer to Table 2 in the 6/17/08 Pre–CAP Groundwater Monitoring Report for the complete number and tax parcel numbers of other well owners.

Reconnaissance updated in July 2004 by Terraquest.

Properties without wells within 1,500' of the site that are not located on Statesville Blvd. receive their water supply from community wells which are located beyond 1,500'.

GRAPHIC SCALE

0' 250' 500' 1,000'

SITE VICINITY MAP
QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC · WINSTON–SALEM, NC

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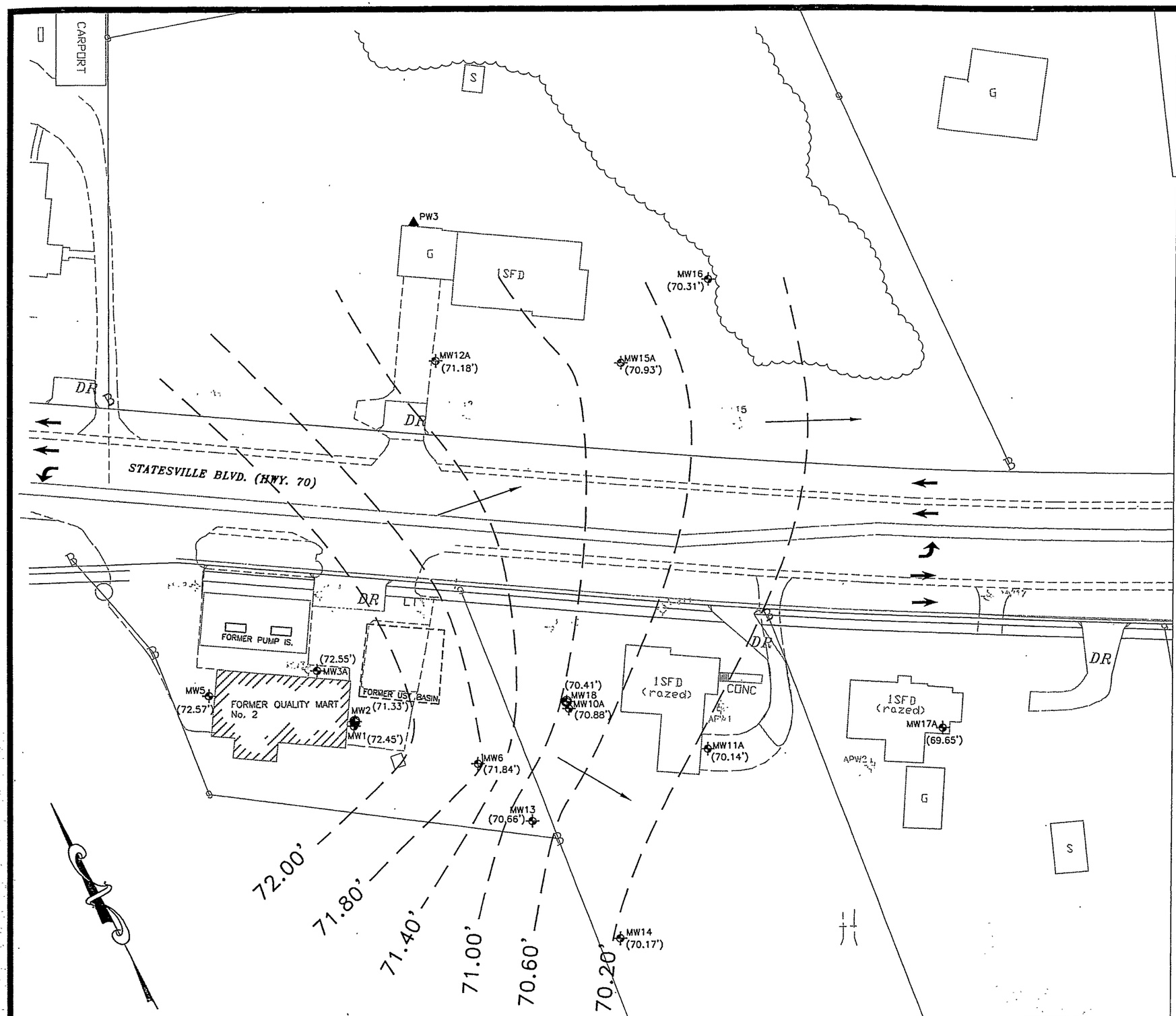
PROJECT NO.	01099	DATE:	7/2/09
CHECKED BY:	MJB	SCALE:	1"=500'
DRAWN BY:	MJB/JAK	FIGURE NO.	2



LEGEND

- Type II Monitoring Well
  MW3, MW4, MW7 – MW12 abandoned due to NCDOT roadwork on 1/19/04.
  MW15 and MW17 destroyed due to NCDOT roadwork.
- Type III Monitoring Well
- Potable Well
- Abandoned Potable Well

The groundwater elevation as measured on 6/26/09 is listed next to each monitoring well in feet.

The interpreted groundwater flow direction is indicated by arrows located perpendicular to potentiometric contours.

Data from the Type III groundwater monitoring wells MW2 and MW18 was ignored in the construction of this map.

Basemap and certain features taken from NCDOT map R-2911E Sheet 18.

GRAPHIC SCALE

0' 25' 50' 100'

POTENTIOMETRIC SURFACE MAP (6/26/09)
QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC

WINSTON-SALEM, NC

PROJECT NO: 01099	CHECKED BY: MJB/RDK	DATE:	7/15/09
SCALE: 1"=50'	DRAWN BY: RDK/MJB	FIGURE NO.	4

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UST Section
Mooresville Regional Office

PRE-CAP GROUNDWATER MONITORING REPORT

(Subsequent Report)

(June 17, 2008 Sampling Event)

QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NORTH CAROLINA

Latitude: 35°41' 58" N Longitude: 80°26' 6" W

NCDWM - UST Incident No. 21079
Facility ID 0-019963
Risk Classification: HIGH (H285R)
Land Use: Residential

Release Information
Date Discovered: April 13, 1999
Estimated Release Quantity: Unknown

Release Source: Commercial UST System
Capacity of Former USTs: (1) 6,000-gallon and (2) 10,000-gallon Gasoline USTs

Responsible Party:

Quality Oil Company, LLC
P.O. Box 2736
Winston-Salem, NC 27102-2736

Property Owner:

Mark and Martha Summers
18726 Old Statesville Rd.
Cornelius, NC 28031

Terraquest Project No. 01099

July 18, 2008

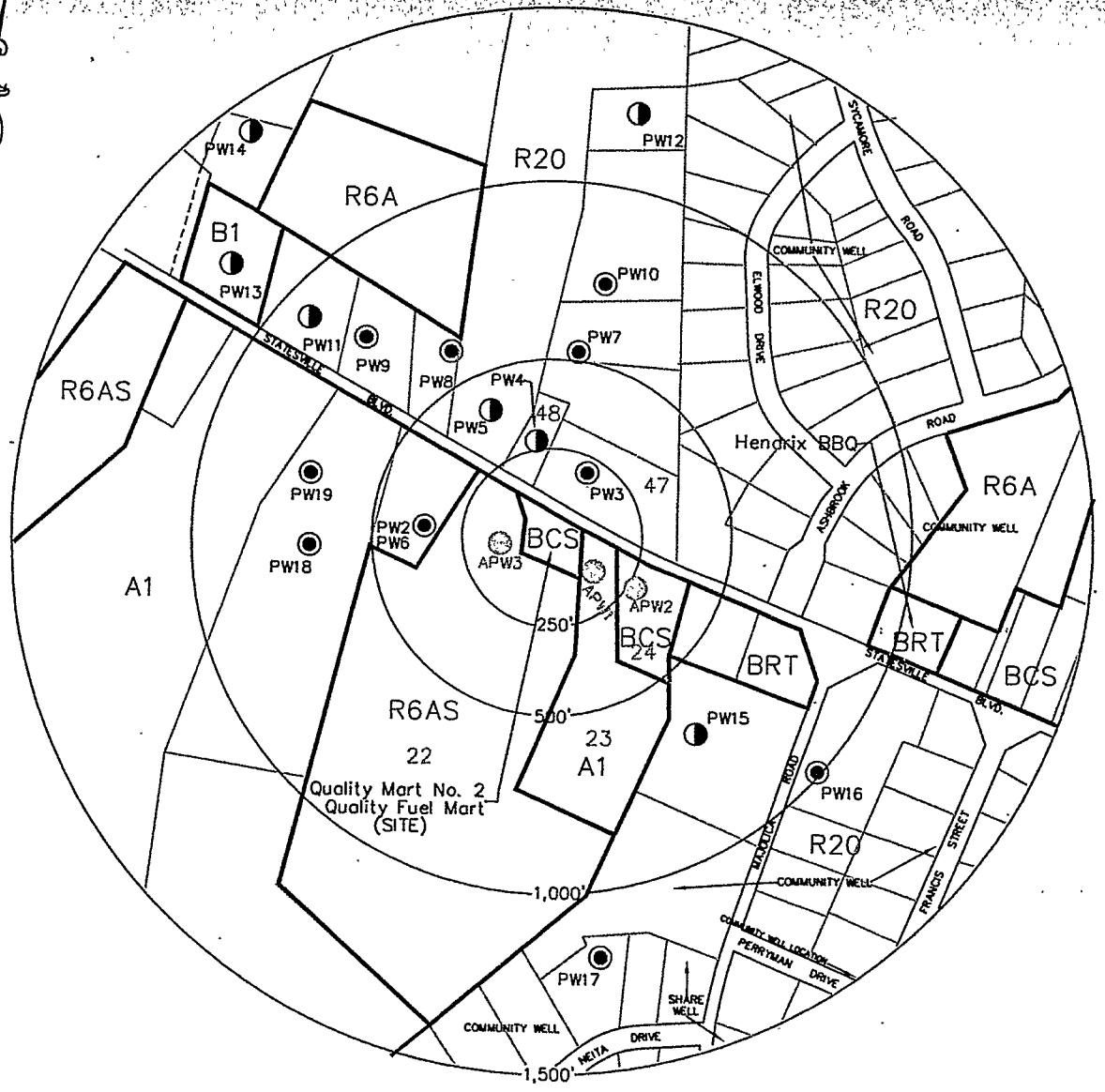
100 E. Ruffin Street • Mebane, North Carolina 27302
Telephone (919) 563-9091 • Facsimile (919) 563-9095
www.terraquestpc.com

Table 2
Date: 6/26/08

WATER SUPPLY WELL INFORMATION
Incident Name: Quality Mart No. 2 Incident No. 21079
Facility ID No. 0-019963

Parcel ID No. / Well ID No.	Well Owner/Address	Well Address	Phone No.	Well Use	Well Depth (ft. BGS)	Type of Well	Casing Depth (ft. BGS)	Screen Interval (ft. BGS)	Distance from Source Area of Release (ft.)
330 023 APW1	William H. Beaver 219 Catawba Drive Salisbury, NC	2575 Statesville Blvd. Salisbury, NC 28144	704-636-0196	Abandoned	NA	NA	NA	NA	164
330 024 APW2	George Hupp Fink 1025 Kenley Road Salisbury, NC	2535 Statesville Blvd. Salisbury, NC 28144	704-636-4883	Abandoned	NA	NA	NA	NA	260
330 022 APW3	WW Partnership 1400 Battleground Avenue, suite 164 Greensboro, NC	114 Woodland Creek Drive Salisbury, NC 28147	704-633-2523	Abandoned	124	NA	NA	NA	145
330 108 PW2/PW6	Yorke B. & Jane Beaver 2675 Statesville Blvd. Salisbury, NC 28144	2675 Statesville Blvd. Salisbury, NC 28144	704-528-2335	Active - sole source of water	PW6 ~ 300 PW2-unknown	NA	NA	NA	355
329 047 PW3	Darell W. Cobb 2620 Staesville Blvd. Salisbury, NC 28147	2620 Staesville Blvd. Salisbury, NC 28144	704-637-6941	Active - sole source of water	unknown	NA	NA	NA	211
329 048 PW4	James Reid & Anna Cress 220 Neita Drive Salisbury, NC 28147	220 Neita Drive Salisbury, NC 28147	NA	Inactive - connected to city water	unknown	NA	NA	NA	275
329 049 PW5	James Arcus & Donnie Myers 224 Whispering Woods Orange Park, FL 32073	2660 Statesville Blvd. Salisbury, NC 28147	904-269-3356	Inactive - connected to city water	~ 200	NA	NA	NA	400
329 403 PW7	James W. Gant P.O. Box 311 Salisbury, NC 28147	185 Wilton Lane Salisbury, NC 28147	704-636-9512	Active - sole source of water	unknown	NA	NA	NA	525
329 170 PW8	Jane K. & Ted Walton 2680 Statesville Blvd. Salisbury, NC 28147	2680 Statesville Blvd. Salisbury, NC 28147	704-637-1358	Active - sole source of water	unknown	NA	NA	NA	590
330 042 PW9	Jayne Koontz Walton 2680 Statesville Blvd. Salisbury, NC 28147-7446	2720 Statesville Blvd. Salisbury, NC 28147-7446	704-636-4979	Active - sole source of water	unknown	NA	NA	NA	765
329 130 PW10	Peter & Nancy Decoster 215 Wilton Lane Salisbury, NC 28144	215 Wilton Lane Salisbury, NC 28144	704-637-0408	Active - sole source of water	unknown	NA	NA	NA	725
330 119 PW11	Richard Lee & Annie Cooley 1325 Powell Road Woodleaf, NC	2830 Statesville Blvd. Salisbury, NC 28147	NA	Inactive - connected to city water in 1999	unknown	NA	NA	NA	915
329 131 PW12	Peter & Nancy Decoster 215 Wilton Lane Salisbury, NC 28144	Wilton Lane Salisbury, NC 28147	NA	Inactive - vacant	unknown	NA	NA	NA	1,210
330 068 PW13	Piedmont Farm Credit ACCA, Inc. P.O. Box 1827 Statesville, NC	2810 Statesville Blvd. Salisbury, NC 28147	NA	Inactive - connected to city water	unknown	NA	NA	NA	1,175
329 407 PW14	Agner Family Properties 170 Frances Street Salisbury, NC	Statesville Blvd. Salisbury, NC 28147	NA	Inactive - connected to city water	unknown	NA	NA	NA	1,415
330 026 PW15	Mildred Poteat 160 Majolica Road Salisbury, NC	160 Majolica Road Salisbury, NC	NA	Secondary source well Connected to city water	~220	Drilled	NA	NA	680
330 116 PW16	Harry E. Lippard 145 Majolica Road Salisbury, NC	145 Majolica Road Salisbury, NC 28147 704-636-5240	NA	Active - sole source of water	~220 - 240	Drilled	120	NA	990
330 100 PW17	Steven Ray Morrison II 884 Scotts Creek Road Statesville, NC	150 Neita Drive Salisbury, NC	NA	Active - sole source of water	NA	NA	NA	NA	1,185
330 121 PW18/PW19	Clyde W. & Mary Granberry 280 Neita Drive Salisbury, NC	2715 Statesville Blvd. Salisbury, NC	NA	Active - sole source of water	PW18 - NA PW19 - NA	NA	NA	NA	675/695

Notes:
1. ft. BGS - feet below ground surface // NA - Not Available.
2. Information obtained from TerraQuest field interviews and returned survey forms.
3. Well ID numbers are displayed on Figure 2.
4. Distances are approximate
5. Note that APW1, 2, & 3 were abandoned. Also note that APW3 was formerly PW1.
6. Updated January 2007.



LEGEND

- R20 Residential
- R6A Multi-Family Residential
- R6AS Multi-Family Residential
- A1 Agricultural
- B1 Office Business
- BRT Retail Trade Business
- BCS Convenience Service Business
- Zoning Boundary
- PW1 Active Potable Well
- PW1 Inactive Potable Well
- APW1 Abandoned Potable Well

The last two digits of the tax parcel number are shown for properties surrounding the site. Refer to Table 2 for the complete number and tax parcel numbers of other well owners.

Reconnaissance performed by TerraQuest in July 2004.

Properties without wells within 1,500' of the site that are not located on Statesville Blvd. receive their water supply from community wells which are located beyond 1,500'.

GRAPHIC SCALE

0' 250' 500' 1,000'

SITE VICINITY MAP
QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC WINSTON-SALEM, NC

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

PROJECT NO.	01099	DATE:	6/26/08
CHECKED BY:	MJB	SCALE:	1"=500'
DRAWN BY:	MJB/JAK	FIGURE NO.	2

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Tables

Figures

Appendix

PRE-CAP GROUNDWATER MONITORING REPORT

(Subsequent Report)

(January 14, 2004 Sampling Event)

QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NORTH CAROLINA

Latitude: 35°41' 58" N Longitude: 80°26' 6" W

NCDWM - UST Incident No. 21079
Facility ID 0-019963
Risk Classification: High
Land Use: Residential

Release Information
Date Discovered: April 13, 1999
Estimated Release Quantity: Unknown

Release Source: Commercial UST System
Capacity of Former USTs: (1) 6,000-gallon and (2) 10,000-gallon Gasoline USTs

Responsible Party:

Quality Oil Company, LLC
Post Office Box 2736
Winston-Salem, NC 27102-2736

Property Owner:

Mark Summers
18726 Old Statesville Rd.
Cornelius, NC 28031

TerraQuest Project No. 01099

February 10, 2004

401 W. Weaver Street · Carrboro, North Carolina 27510
Telephone (919) 932-1590 · Facsimile (919) 932-1594

Table 3
Date: 2/5/04

SUMMARY OF GROUNDWATER SAMPLING RESULTS (1/14/04)
Incident Name: Quality Mart No. 2 Incident No. 21079

Facility ID No: 0-019963

*Analytical Method:		601/602*	601/602*	601/602*	601/602*	601/602*	601/602*	601/602*	601/602*	6010B**
Contaminant of Concern:										
Well ID	Date Collected	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Tetrachloroethene	Lead
MW1	1/14/04	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	<1.0	**6.8**
MW4	1/14/04	**120**	**830**	**200**	**1,270**	**17,000**	**42.0**	**120**	<5.0	**7.0**
MW6	1/14/04	<1.0	<5.0	<1.0	<2.0	**31.0**	<5.0	<5.0	<1.0	**16.0**
MW7	1/14/04	**7.6**	**88.0**	**120**	**680**	**29.0**	<25.	**63.0**	<5.0	**6.7**
MW11	1/14/04	**25.0**	<5.0	<1.0	**6.1**	**46.0**	<5.0	**23.0**	<1.0	-
MW12	1/14/04	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	**2.0**	-
MW16	1/14/04	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	<1.0	-
PW3	1/14/04	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	<1.0	-
	2L Standard	1	1,000	29	530	200	70	21	0.7	15

Notes:
1. All results listed in this table are reported in micrograms per liter (ug/l) which is equivalent to parts per billion.
2. **BOLD** denotes a detected concentration above the laboratory's sample-specific method detection limit.
3. Shading denotes a detection at concentration(s) above the applicable 2L Standard.
4. < denotes no detection at concentrations above the laboratory's sample-specific method detection limit.
5. - indicates sample not analyzed per this analytical method.
6. * The analytical EPA Method 601/602 also included MTBE, IPE, and EDB.
7. ** Lead was analyzed by EPA Method 6010B using a 3030C digestion method.

Table 4
Date: 2/5/04

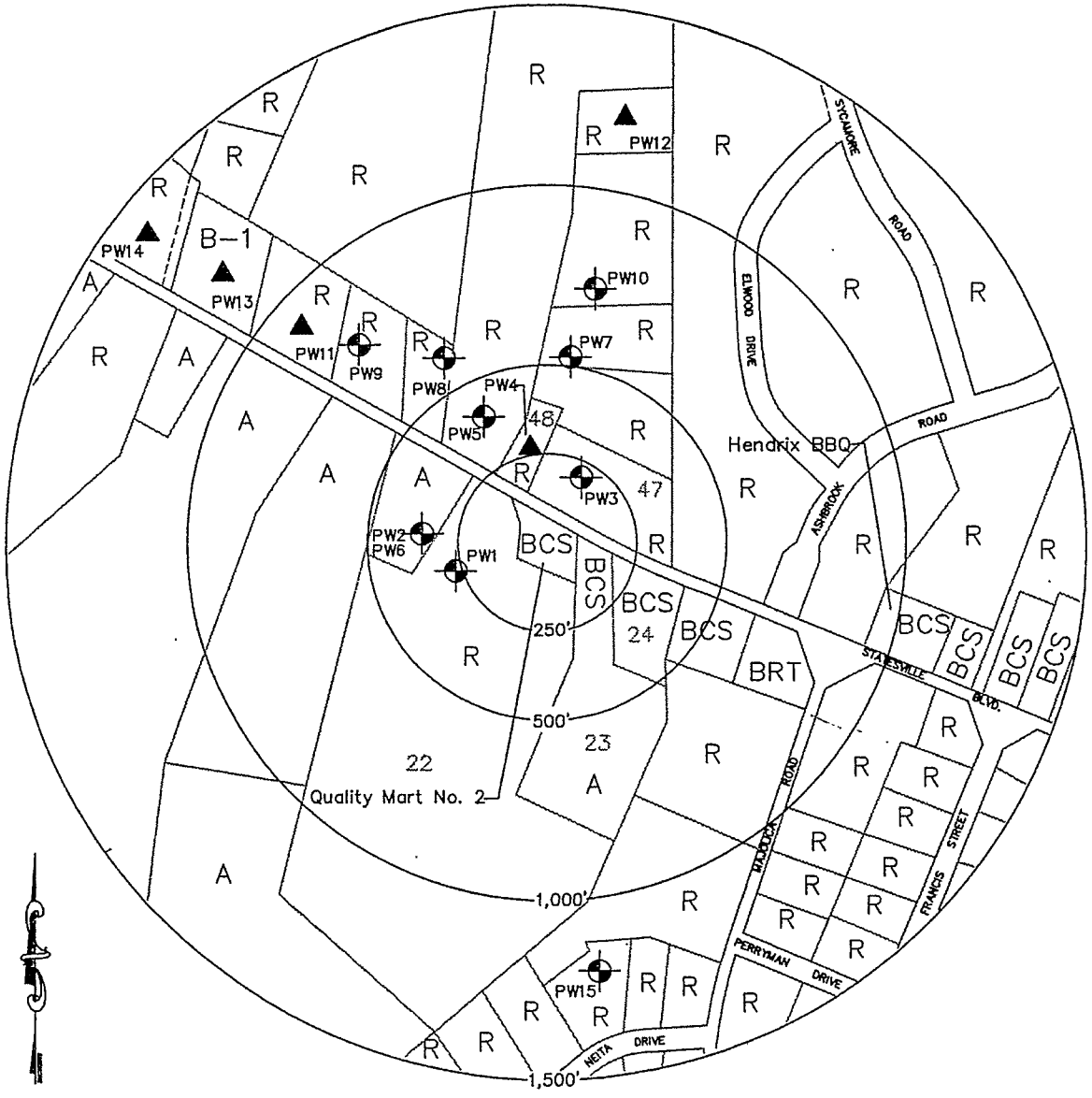
WELL CONSTRUCTION INFORMATION
Incident Name: Quality Mart No. 2 Incident No. 21079

Facility ID No: 0-019963

Well ID	Date Installed	Date Water Level Measured	Well Casing Depth (ft. BGS)	Screened Interval (x to y ft. BGS)	Bottom of Well (ft. BGS)	Top of Casing Elevation (feet)	Depth to Water from Top of Casing (feet)	Free Product Thickness (feet)	Groundwater Elevation (feet)	Comments
MW1	7/12/99	1/13/04	20	20-30	30	101.36	26.15	0	75.21	Type II well
MW2	7/12-13/99	-	OC: 33 | IC: 37	37-48	48	101.48	-	-	-	Type III well
MW3	7/13/99	-	20	20-35	35	101.10	-	-	-	Type II well
MW4	7/13/99	1/13/04	20	20-35	35	100.00	24.50	0	75.50	Type II well
MW5	7/13/99	-	20	20-35	35	101.22	-	-	-	Type II well
MW6	3/13/00	1/13/04	15	15-25	35	95.25	20.86	0	74.39	Type II well
MW7	3/13/00	1/13/04	20	20-35	35	100.16	26.20	0	73.96	Type II well
MW8	3/14/00	-	20	20-35	35	101.18	-	-	-	Type II well
MW9	3/13/00	-	20	20-35	35	100.53	-	-	-	Type II well
MW10	5/3/00	1/13/04	19	19-24	24	95.84	22.26	0	73.58	Type II well
MW11	8/30/00	1/13/04	20	20-35	35	97.71	24.31	0	73.40	Type II well
MW12	8/30/00	1/13/04	22.5	22.5-37.5	37.5	99.27	25.29	0	73.98	Type II well
MW13	8/30/00	-	20	20-35	35	93.61	-	-	-	Type II well
MW14	11/6/00	-	15	15-35	35	93.04	-	-	-	Type II well
MW15	11/6/00	-	15	15-35	35	94.75	-	-	-	Type II well
MW16	11/7/00	1/13/04	11.5	11.5-31.5	31.5	88.12	16.13	0	71.99	Type II well
MW17	11/6/00	*	37	15-35	35	95.58	*	*	*	Type II well

Notes:

1. All units in feet.
2. OC = outer casing, IC = inner casing
3. * Monitoring well MW17 could not be located due to the demolition of measuring landmarks. An attempt was made to locate the well a measuring wheel, a metal detector, and walking around in the vicinity of the well for an hour without ever locating the well.
4. Shading indicates monitoring wells that were permenantly abandoned on January 19, 2004. Note that monitoring well MW10 has been broken and MW17 can not be found.



LEGEND

R	Residential
A	Agricultural
B-1	Office Business
BRT	Retail Trade Business
BCS	Convenience Service Business
PW1	Potable Well Refer to Table 2 for well information
▲	Inactive Potable Well

Numbers surrounding Quality Mart No. 2 facility are parcel identifiers for surrounding properties. Refer to Table 3 of the CSA report for ownership details.

Information taken from Turner Environmental Consultants, P.C. reports and updated by field verification on 10/28/02.

GRAPHIC SCALE

0' 250' 500' 1,000'

1" = 500'

SITE VICINITY MAP
QUALITY MART NO. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC WINSTON-SALEM, NC

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

PROJECT NO.	01099	DATE:	2/5/04
CHECKED BY:	MJB	SCALE:	1"=500'
DRAWN BY:	MJB/JML	FIGURE NO.	2

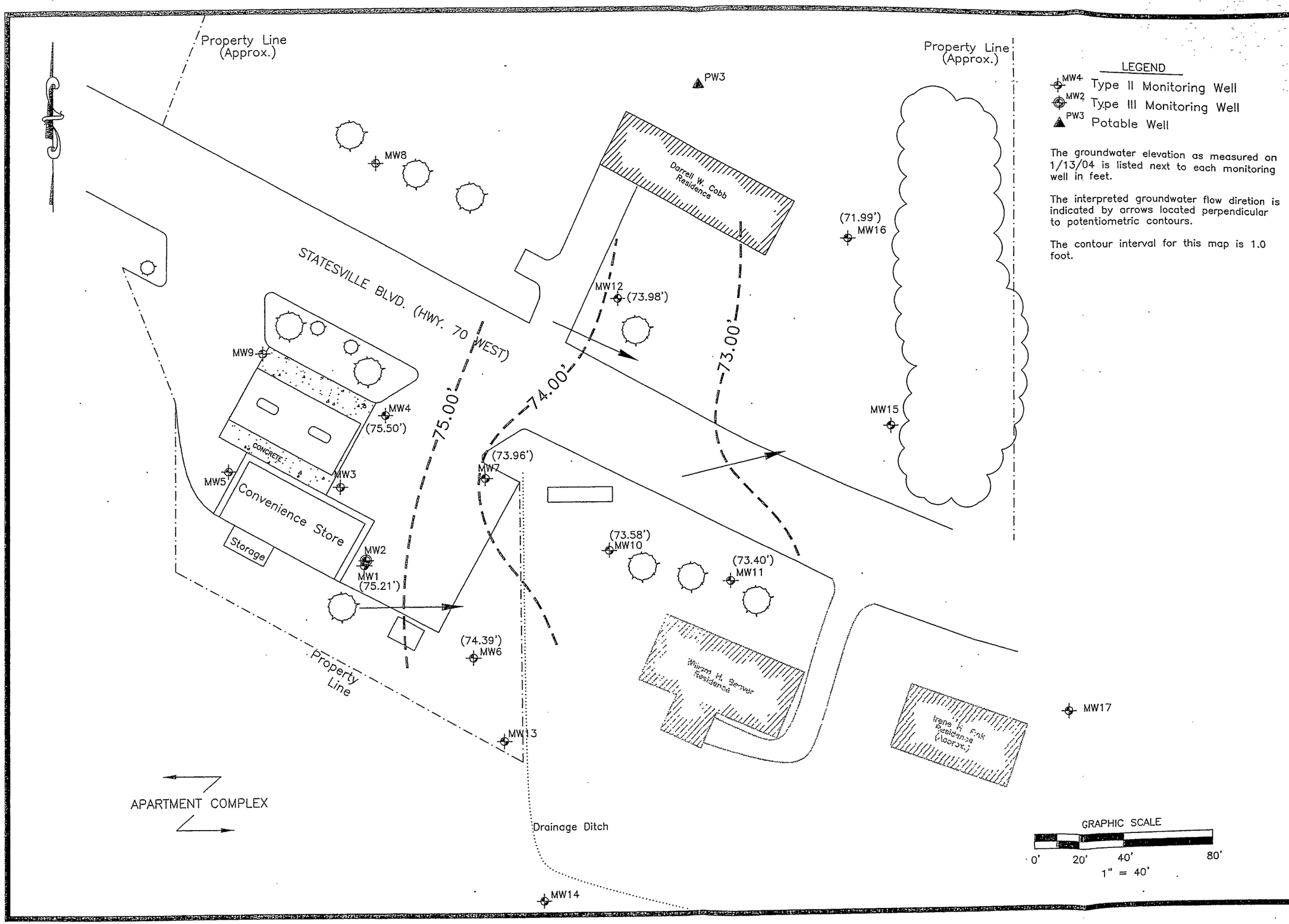
Table 2
Date: 2/5/04

WATER SUPPLY WELL INFORMATION
Incident Name: Quality Mart No. 2 Incident No. 21079

Facility ID No. 0-019963

Well ID No.	Well Owner/Address	Well Address	Phone No.	Well Use	Well Depth (ft BGS)	Type of Well	Casing Depth (ft BGS)	Screen Interval (ft BGS)	Distance from Source Area of Release (ft.)
330022/ 330023 PW1	Jane W. Beaver 2675 Statesville Blvd. Salisbury, NC 28144	2675 Statesville Blvd. Salisbury, NC 28144	704-528-2335	Active - sole source of water	124	NA	NA	NA	273
330096/ 329084 PW2/PW6	Clyde Grinberry 2815 Statesville Blvd. Salisbury, NC 28144	2815 Statesville Blvd. Salisbury, NC 28144	704-633-6106	Active - sole source of water	PW6 ~ 300 PW2-unknown	NA	NA	NA	352
329047 PW3	Darell W. Cobb 2620 Staesville Blvd. Salisbury, NC 28147	2620 Staesville Blvd. Salisbury, NC 28144	704-637-6941	Active - sole source of water	unknown	NA	NA	NA	207
329048 PW4	Brenda Hatley 2630 Statesville Blvd. Salisbury, NC 28147	2630 Statesville Blvd. Salisbury, NC 28147	704-636-6666	Inactive - connected to city water	unknown	NA	NA	NA	270
329049 PW5	Donnie Myers 224 Whispering Woods Orange Park, FL 32073	2660 Statesville Blvd. Salisbury, NC 28147	904-269-3356	Active - sole source of water	~ 200	NA	NA	NA	397
329403 PW7	James W. Gant P.O. Box 311 Salisbury, NC 28147	185 Wilton Lane Salisbury, NC 28147	704-636-9512	Active - sole source of water	unknown	NA	NA	NA	509
329170 PW8	Jane K. Walton 2680 Statesville Blvd. Salisbury, NC 28147	2680 Statesville Blvd. Salisbury, NC 28147	704-637-1358	Active - sole source of water	unknown	NA	NA	NA	594
330042 PW9	Macie Broad Koontz 2720 Statesville Blvd. Salisbury, NC 28147-7446	2720 Statesville Blvd. Salisbury, NC 28147-7446	704-636-4979	Active - sole source of water	unknown	NA	NA	NA	761
329130 PW10	Peter Decoster 215 Wilton Lane Salisbury, NC 28144	215 Wilton Lane Salisbury, NC 28144	704-637-0408	Active - sole source of water	unknown	NA	NA	NA	723
330119 PW11	Steve & Debbie Leonard 2830 Statesville Blvd. Salisbury, NC 28147	2830 Statesville Blvd. Salisbury, NC 28147	704-647-0799	Inactive - connected to city water in 1999	unknown	NA	NA	NA	907

Notes:
1. ft. BGS - feet below ground surface // NA - Not Available.
2. Information obtained from TerraQuest field interviews and returned survey forms.
3. Well ID numbers are displayed on Figure 2.



LEGEND

- MW4 Type II Monitoring Well
- MW2 Type III Monitoring Well
- PW3 Potable Well

The groundwater elevation as measured on 1/13/04 is listed next to each monitoring well in feet.

The interpreted groundwater flow diretion is indicated by arrows located perpendicular to potentiometric contours.

The contour interval for this map is 1.0 foot.

POTENTIOMETRIC SURFACE MAP (1/13/04)

QUALITY MART NO. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

WINSTON-SALEM, NC

QUALITY OIL COMPANY, LLC			
PROJECT NO: 01099	CHECKED BY: MJB	FIGURE NO. 5	
SCALE: 1"=40'	DRAWN BY: JAK	DATE: 2/5/04	

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

Complete Groundwater Analytical Data History for MW1

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
7/14/99	601/602+MTBE+IPE*	**2.4**	**1.1**	**1.6**	**18**	**150**	**5.5**	-	<.01	**180**	**230**	**100**	**120**
3/21/00	601/602+MTBE+IPE**	<10	<10	<10	**34**	**260**	<50	**14**	-	**850**	**600**	<100	**45 A**
3/22/03	601/602+MTBE+IPE***	<1.0	<5.0	<1.0	<2.0	**10**	<5.0	<5.0	-	-	-	-	-
8/5/03	601/602+MTBE+IPE***	<1.0	<5.0	<1.0	<2.0	**7.7**	<5.0	<5.0	-	-	-	-	**10**
1/14/04	601/602+MTBE+IPE****	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	<1.0	-	-	-	**6.8**
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.

Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.

EDB results reported by methods (504.1 only).

* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.

** - Also sampled for xylenes and MADEP VPH.

*** - Also sampled for EDB.

**** - Also sampled for EDB and Lead by a 3030C digestion.

- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

A - Lead results from 3/15/00 sampling event.

Complete Groundwater Analytical Data History for MW2

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
7/14/99	601/602+MTBE+IPE*	**1.2**	<1.0	<1.0	**1.1**	**17**	<5.0	-	<0.1	<100	<100	<100	**12**
3/15/00	601/602+MTBE+IPE*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	<100	<100	<100	**15**
1/15/02	601/602+MTBE+IPE	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
3/22/03	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
8/5/03	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	**8.1**	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at closure.
** - Also sampled for EDB.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW3

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
7/14/99	601/602+MTBE+IPE*	<1.0	<1.0	<1.0	**3.6**	**65**	<5.0	-	<.01	**130**	<100	<100	**240**
3/15/00	601/602+MTBE+IPE*	<1.0	<1.0	<1.0	**7.3**	**91**	<5.0	<1.0	-	**340**	**200**	<100	**8.4**
1/15/02	601/602+MTBE+IPE	<1.0	<5.0	<1.0	<2.0	**7.4**	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW4

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
7/14/99	601/602+MTBE+IPE*	**620**	**3,600**	**820**	**4,200**	**750**	<25	-	**19/14**	**27,000**	**25,000**	**10,000**	**25**
1/15/02	601/602+MTBE+IPE	**630**	**5,400**	**460**	**2,720**	<1,200	<1,200	<250	<250	-	-	-	<5
1/14/04	601/602+MTBE+IPE**	**120**	**830**	**200**	**1,270**	**17,000**	**42.0**	**120**	<5.0	-	-	-	**7.0**
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration;. Shading denotes a concentration in excess of 2L standards.
EDB results for the 7/14/99 sampling event are reported by methods (504.1 / 601).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.
** - Also sampled for EDB and Lead by a 3030C digestion.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW5

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
7/14/99	601/602+MTBE+IPE*	<1.0	**1.2**	<1.0	<3.0	<5.0	<5.0	-	<.01/<1.0	<100	<100	<100	**44**
3/15/00	601/602+MTBE+IPE*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	<1.0	<100	<100	<100	**8**
1/15/02	601/602+MTBE+IPE	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: Analysis only conducted on initial sampling and at site closure.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW6

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
3/15/00	601/602+MTBE+IPE*	**2.4**	**12**	**3**	**12.5**	<5.0	<5.0	**1.5**	<1.0	<100	**150**	<100	**1,400**
8/31/00	3030c (Pb)	-	-	-	-	-	-	-	-	-	-	-	**39,/1,900**
3/22/03	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	**7.4**	<5.0	<5.0	-	-	-	-	**280*** **
8/5/03	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	**19**	<5.0	<5.0	-	-	-	-	**19**
1/14/04	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	**31.0**	<5.0	<5.0	<1.0	-	-	-	**16.0**
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb).NOTE:504.1 Analysis only conducted on initial sampling and at site closure.
** - Also sampled for EDB and Lead by a 3030C digestion method.
*** - Groundwater samples for lead were collected on 3/24/03.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.
Lead result for 8/31/2000 represents prior to purging / after purging.

Complete Groundwater Analytical Data History for MW7

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
3/15/00	601/602+MTBE+IPE*	**910**	**5,500**	**790**	**4,300**	**2,800**	<500	**340**	<100	**32,000**	**15,000**	<2,000	**190**
1/15/02	601/602+MTBE+IPE	**770**	**7,500**	**1,200**	**6,000**	**2,900**	<1,000	**580**	-	-	-	-	**370**
3/22/03	601/602+MTBE+IPE**	**3.4**	**9.3**	**2**	**12.2**	**12**	<5.0	<5.0	-	-	-	-	**44*** **
8/5/03	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	-	-	-	-	<5.0
1/14/04	601/602+MTBE+IPE**	**7.6**	**88.0**	**120**	**680**	**29.0**	<25.	**63.0**	<5.0	-	-	-	**6.7**
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb).NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.
** - Also sampled for EDB and Lead bya 3030C digestion method.
*** - Groundwater samples for lead were collected on 3/24/03.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Appendix C

Appendix D

Complete Groundwater Analytical Data History for MW8

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
3/15/00	601/602+MTBE+IPE*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	<1.0	<100	<100	<100	**9.2**
1/15/02	601/602+MTBE+IPE	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Appendix C

Appendix D

Complete Groundwater Analytical Data History for MW9
Quality Mart No.2
Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
3/15/00	601/602+MTBE+IPE*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	<1.0	<100	<100	<100	7.1
1/15/02	601/602+MTBE+IPE	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW11

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IIPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
8/31/00	6210D+MTBE+IPE*	**170**	<10	<10	**270**	**320**	<50	**79**	**0.24**	**1,800**	**620**	<100	**10**
1/15/02	601/602+MTBE+IPE	**81**	<25	<5.0	**9.7**	**140**	<25	**7.9**	-	-	-	-	-
3/22/03	601/602+MTBE+IPE**	**48**	<5.0	**1.5**	**100**	**84**	<5.0	**46**	-	-	-	-	-
8/5/03	601/602+MTBE+IPE**	**16**	<5.0	<1.0	**11.9**	**84**	<5.0	**9.1**	-	-	-	-	-
1/14/04	601/602+MTBE+IPE**	**25.0**	<5.0	<1.0	**6.1**	**46.0**	<5.0	**23.0**	<1.0	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.
** - Also sampled for EDB.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Appendix C

Appendix D

Complete Groundwater Analytical Data History for MW12

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	Tetrachloroethene	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
8/31/00	6210D+MTBE+IPE*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	**3.8**	**1.7**	**390**	<100	<100	**7.1**
1/15/02	601/602+MTBE+IPE	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	**1.6**	-	-	-	-
3/22/03	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	-	**2.8**	-	-	-	-
8/5/03	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	-	**3.1**	-	-	-	-
1/14/04	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	<1.0	**2.0**	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	0.7	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.
** - Also sampled for EDB.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Appendix C

Appendix D

Complete Groundwater Analytical Data History for MW13

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
8/31/00	6210D+MTBE+IPE*	<1.0	<1.0	<1.0	<2.0	**14**	<5.0	<1.0	<0.010	**550**	<100	<100	<5.0
1/15/02	601/602+MTBE+IPE	<1.0	<5.0	<1.0	<2.0	**19**	<5.0	<1.0	-	-	-	-	-
3/22/03	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	.15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.
** - Also sampled for EDB.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW14

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
11/8/00	601/602+MTBE+IPE*	**1.2**	<1.0	<1.0	**2.1**	<5.0	<5.0	<1.0	<0.010	<100	<100	<100	**7.3**
1/15/02	601/602+MTBE+IPE	<1.0	<5.0	<1.0	<2.0	**6.8**	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Appendix C

Complete Groundwater Analytical Data History for MW15

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
11/8/00	601/602+MTBE+IPE*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	<0.010	<100	<100	<100	**11**
1/15/02	601/602+MTBE+IPE	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Appendix C

Appendix D

Complete Groundwater Analytical Data History for MW16

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
11/8/00	601/602+MTBE+IPE*	<1.0	**1.0**	<1.0	<2.0	<5.0	<5.0	<1.0	<0.010	<100	<100	<100	**5.7**
1/15/02	601/602+MTBE+IPE	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
3/22/03	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
8/5/03	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
1/14/04	601/602+MTBE+IPE**	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	<1.0	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.
** - Also sampled for EDB.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW17

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
11/8/00	601/602+MTBE+IPE*	<1.0	<1.0	<1.0	<2.0	**6.4**	<5.0	<1.0	<0.010	<100	<100	<100	<5.0
1/15/02	601/602+MTBE+IPE	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21	70	420	4,200	210	15

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
EDB results reported by methods (504.1).
* - Also sampled for xylenes, 504.1 EDB, MADEP VPH, and 3030c (Pb). NOTE: 504.1 Analysis only conducted on initial sampling and at site closure.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Appendix C

Appendix D

Complete Groundwater Analytical Data History for PW3

Quality Mart No. 2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene
1/15/02	601/602+MTBE+IPE	<1	<5	<1	<2	<5	<5	<1
3/24/03	601/602+MTBE+IPE	<1	<5	<1	<2	<5	<5	<1
8/5/03	601/602+MTBE+IPE	<1	<5	<1	<2	<5	<5	<1
1/14/04	601/602+MTBE+IPE+EDB	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0
15A NCAC 2L .0202(g) Standards		1	1,000	29	530	200	70	21

Notes: All results in parts per billion (ppb) except as noted.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.

ENVIRONMENTAL CONSULTANTS, P.C.

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NCDENR
Division of Waste Management

JUL 31 2009

UST Section
Mooresville Regional Office

PRE-CAP GROUNDWATER MONITORING REPORT

(Subsequent Report)

(June 26, 2009 Sampling Event)

QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NORTH CAROLINA

Latitude: 35.6994° N Longitude: 80.435° W

NCDWM - UST Incident No. 21079
Facility ID 0-019963
Risk Classification: HIGH (H285R)
Land Use: Residential

Release Information
Date Discovered: April 13, 1999
Estimated Release Quantity: Unknown

Release Source: Commercial UST System
Capacity of Former USTs: (1) 6,000-gallon and (2) 10,000-gallon Gasoline USTs

Responsible Party:

Quality Oil Company, LLC
P.O. Box 2736
Winston-Salem, NC 27102-2736

Property Owner:

Mark and Martha Summers
18726 Old Statesville Rd.
Cornelius, NC 28031

Terraquest Project No. 01099

July 29, 2009

100 E. Ruffin Street • Mebane, North Carolina 27302
Telephone (919) 563-9091 • Facsimile (919) 563-9095
www.terraquestpc.com

Complete Groundwater Analytical Data History for MW3A

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Isopropylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	Lead
7/21/2004	601/602*	<25	<120	<25	<50	**690**	<120	<25	<25	<25	<120	**13**
12/20/2006	601/602*	**3.9**	<5.0	**1.6**	**5.4**	**300**	**24**	<1.0	<1.0	<1.0	<5.0	**13**
6/5/2007	601/602*	**6.7**	<5.0	**4.5**	**23.5**	**270**	**24**	**1.1**	**4.1**	**3.5**	<5.0	**10**
12/5/2007	6210D	**3.6**	<5.0	**1.0**	**11.1**	**140**	**17**	<1.0	**2.1**	**2.1**	<5.0	**21**
6/17/2008	6210D	**1.1**	<5.0	<1.0	**6.5**	**100**	**7.6**	-	**1.3**	**1.1**	-	<5.0
12/1/2008	6200B	<5	<25	<5	<15	**120**	**14**	<5	<5	<5	<25	-
6/26/2009	6200B	<1	<5	<1	**8.3**	**120**	**11**	<1	**2.4**	**3.9**	<5	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	70	350	350	21	15

Notes:
1. All results in µg/L.
2. * Lead results by 6010B method with 3030c digestion.
3. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
4. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW5

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
7/14/1999	601/602*	<1.0	**1.2**	<1.0	<3.0	<5.0	<5.0	-	<.01	<100	<100	<100	44
3/15/2000	601/602*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	<100	<100	<100	8
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	5
12/1/2008	6200B	<1	<5	<1	<3	**3.1**	<1	<5	-	-	-	-	-
6/26/2009	6200B	<1	<5	<1	<3	**3.8**	<1	<5	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW6

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
3/15/2000	601/602*	**2.4**	**12**	**3**	**12.5**	<5.0	<5.0	**1.5**	<1.0	<100	**150**	<100	**1,400**
8/31/2000	3030c (Pb)	-	-	-	-	-	-	-	-	-	-	-	**39./1,900**
3/22/2003	601/602*	<1.0	<5.0	<1.0	<2.0	**7.4**	<5.0	<5.0	-	-	-	-	**280*** **
8/5/2003	601/602*	<1.0	<5.0	<1.0	<2.0	**19**	<5.0	<5.0	-	-	-	-	**19**
1/14/2004	601/602*	<1.0	<5.0	<1.0	<2.0	**31**	<5.0	<5.0	-	-	-	-	**16**
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	**38**	<5.0	<5.0	-	-	-	-	**64**
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	**14**	<1.0	<5.0	-	-	-	-	**34.0**
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**18**	<1.0	<5.0	-	-	-	-	**7.8**
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**14**	<1.0	<5.0	<1.0	-	-	-	**150**
6/26/2009	6200B	<1	<5	<1	<3	**11**	<1	<5	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.
6. Lead result for 8/31/2000 represents prior to purging / after purging.

Complete Groundwater Analytical Data History for MW10A

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Lead
7/21/2004	601/602*	<1.0	<5.0	<1.0	**1**	**81**	<5.0	<5.0	<1.0	<1.0	<5.0
12/20/2006	601/602*	**1.0**	<5.0	<1.0	<3.0	**40.0**	<1.0	<5.0	<1.0	<1.0	<5.0
6/5/2007	6210D*	**6.5**	<5.0	<1.0	**2.1**	**130**	**3.6**	<5.0	**8.6**	**3.1**	<5.0
12/5/2007	6210D*	**49.0**	<120	<25	<75	**1,300**	**27.0**	<120	**31.0**	<25	<5.0
6/17/2008	6210D*	**130**	<50	<10	**83**	**3,500**	**57**	-	**100**	**32**	<5.0
12/1/2008	6200B	**93**	<50	<10	**46**	**1,700**	**43**	<50	**75**	**24**	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	350	350	15

Notes:
1. All results in µg/L.
2. * Lead results by 6010B method with 3030c digestion.
3. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
4. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW11A

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Lead
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	**35**	<5.0	<5.0	<1.0	<1.0	<5.0
12/20/2006	601/602*	**5.4**	<5.0	<1.0	<3.0	**270**	<1.0	**5.9**	<1.0	<1.0	<5.0
6/5/2007	6210D*	**3.8**	<5.0	<1.0	<3.0	**360**	**2.6**	<5.0	**1.1**	**2.1**	<5.0
12/5/2007	6210D*	**17.0**	<50	<10	<30	**700**	**10.0**	<50	<10	<10	<5.0
6/17/2008	6210D*	**54**	<50	<10	<30	**1,800**	**20**	-	**23**	**13**	<5.0
12/1/2008	6200B	**44**	<10	<10	<30	**1,900**	**24**	<50	<10	<10	-
6/26/2009	6200B	<1	<5	<1	<3	**140**	<1	<5	<1	<1	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	350	350	15

Notes:
1. All results in µg/L.
2. * Lead results by 6010B method with 3030c digestion.
3. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
4. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW12A

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Lead
12/1/2008	6200B	<1	<5	<1	<3	<1	<1	<5	-
6/26/2009	6200B	<1	<5	<1	<3	<1	<1	<5	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	15

Notes:
1. All results in µg/L.
2. * Lead results by 6010B method with 3030c digestion.
3. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
4. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW13

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	1,2,4-Trimethlbenzene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
8/31/2000	6210D*	<1.0	<1.0	<1.0	<2.0	**14**	<5.0	<1.0	-	<0.010	**550**	<100	<100	<5.0
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	**19**	<5.0	<1.0	-	-	-	-	-	-
3/22/2003	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-	-
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	**14**	<5.0	<1.0	-	-	-	-	-	<5.0
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	**9.8**	<1.0	<5.0	-	-	-	-	-	**16.0**
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**24.0**	<1.0	<5.0	-	-	-	-	-	<5.0
12/5/2007	6210D*	**2.6**	<5.0	<1.0	**3.9**	**75.0**	**2.3**	<5.0	**1.3**	<1.0	-	-	-	**6.5**
6/17/2008	6210D*	**2.7**	<5.0	<1.0	**2.2**	**160**	**4.0**	-	**1.8**	-	-	-	-	<5.0
12/1/2008	6200B	<1	<5	<1	<3	**69**	**1.4**	<5	<1	-	-	-	-	-
6/26/2009	6200B	<1	<5	<1	<3	**20**	<1	<5	<1	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	350	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with a 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW14

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
11/8/2000	601/602*	**1.2**	<1.0	<1.0	**2.1**	<5.0	<5.0	<1.0	<0.010	<100	<100	<100	**7.3**
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	**6.8**	<5.0	<1.0	-	-	-	-	-
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	<5.0
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<5.0	-	-	-	-	<5.0
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**1.8**	<1.0	<5.0	-	-	-	-	<5.0
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<5.0	<1.0	-	-	-	<5.0
6/17/2008	6210D*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	-	-	-	-	-	<5.0
12/1/2008	6200B	<1	<5	<1	<3	<1	<1	<5	-	-	-	-	-
6/26/2009	6200B	<1	<5	<1	<3	**7.9**	<1	<5	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with a 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW15A

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Lead
12/1/2008	6200B	<1	<5	<1	<3	<1	<1	<5	-
6/26/2009	6200B	<1	<5	<1	<3	<1	<1	<5	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	15

Notes: 1. All results in µg/L.

Lead analysis by method 6010B with a 3030c preparation method.

Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.

- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW17A

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Chloroform	Lead
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	**7.7**	<5.0	<5.0	**1.1**	<5.0
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	**4.7**	<1.0	<5.0	<5.0	**8.0**
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**3.5**	<1.0	<5.0	<5.0	**10.0**
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**150**	**2.6**	<5.0	<5.0	**5.1**
6/17/2008	6210D*	<1.0	<5.0	<1.0	<3.0	**250**	**3.3**	-	-	<5.0
12/1/2008	6200B	<1	<5	<1	<3	**200**	**2**	<5	<5	-
6/26/2009	6200B	<1	<5	<1	<3	**81**	<1	<5	<5	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	0.19	15

Notes:
1. All results in µg/L.
2. * Lead results by 6010B method with 3030c digestion.
3. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
4. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW18

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Tetrachloroethene	Lead
7/21/2004	601/602*	**1.8**	<5.0	<1.0	<2.0	**35**	<5.0	<5.0	<	**9.2**
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	**3.3**	<1.0	<5.0	<1.0	<5.0
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<5.0	**1.0**	<5.0
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<5.0	**1.2**	<5.0
6/17/2008	6210D*	<1.0	<5.0	<1.0	<3.0	**170**	<1.0	-	**1.0**	<5.0
12/1/2008	6200B	**9.8**	<5	<1	<3	**360**	**7.5**	**7.2**	<1	-
6/26/2009	6200B	**2.4**	<5	<1	<3	**320**	**4.5**	<5	<1	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	0.7	15

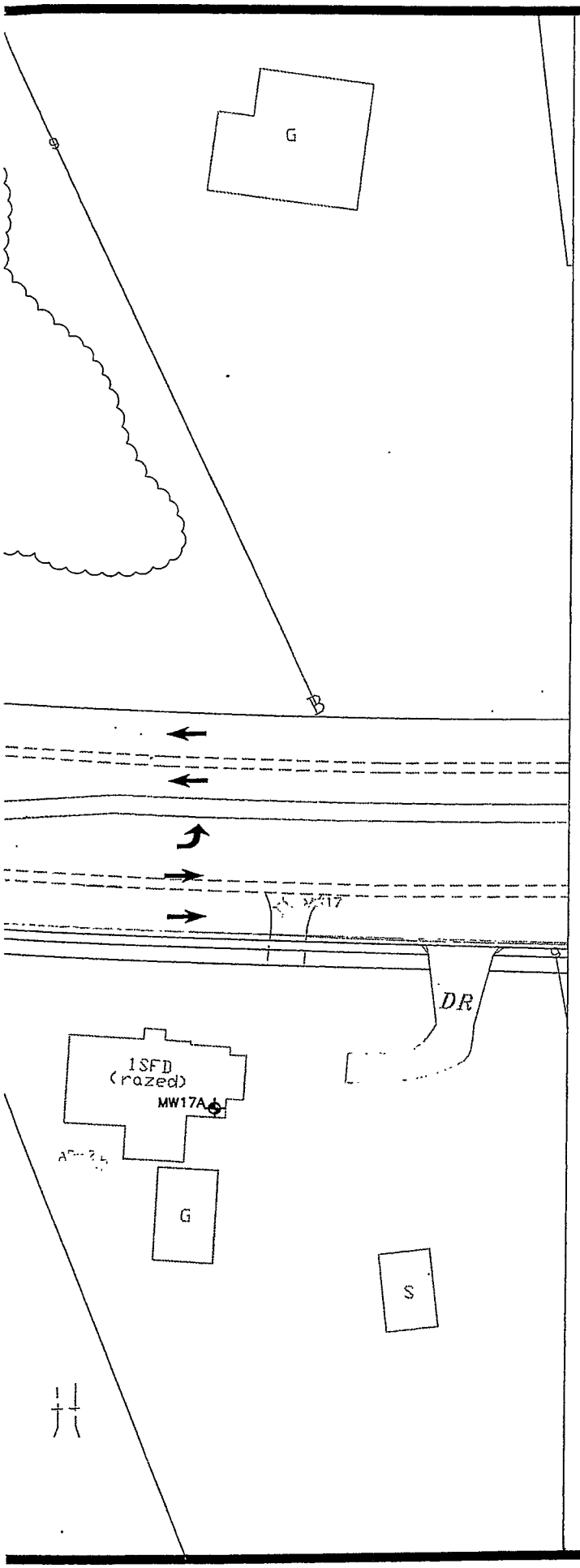
Notes:
1. All results in µg/L.
2. * Lead results by 6010B method with 3030c digestion.
3. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
4. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for PW16
Quality Mart No. 2
Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Lead
12/20/2006	601/602	<1.0	<5.0	<1.0	<3.0	**3.2**	<1.0	<5.0	**8.0**
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**4.7**	<1.0	<5.0	<5.0
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**4.1**	<1.0	<1.0	<5.0
6/17/2008	6210D*	<1.0	<5.0	<1.0	<3.0	**6.2**	<1.0	-	<5.0
12/1/2008	6200B	<1	<5	<1	<3	**8.3**	<1	<5	-
6/26/2009	6200B	<1	<5	<1	<3	**10**	<1	<5	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. * Lead results by 6010B method with 3030c digestion.
4. - = Not sampled for method specified, < -less than sample detection limit.

ADD 11.6 ug/l STANDARD FOR MTBE



LEGEND

- Type II Monitoring Well
  MW3, MW4, MW7 – MW12 abandoned due to NCDOT roadwork on 1/19/04. MW15 and MW17 destroyed due to NCDOT roadwork.
- Type III Monitoring Well
- Potable Well
- Abandoned Potable Well

Basemap and certain features taken from NCDOT map R-2911E Sheet 18.

GRAPHIC SCALE

0' 25' 50' 100'

SITE LAYOUT AND MONITORING WELL NETWORK
QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC

WINSTON-SALEM, NC

PROJECT NO: 01099	CHECKED BY: MJB/RDK	DATE:	7/2/09
SCALE: 1"=50'	DRAWN BY: RDK/MJB	FIGURE NO.	3

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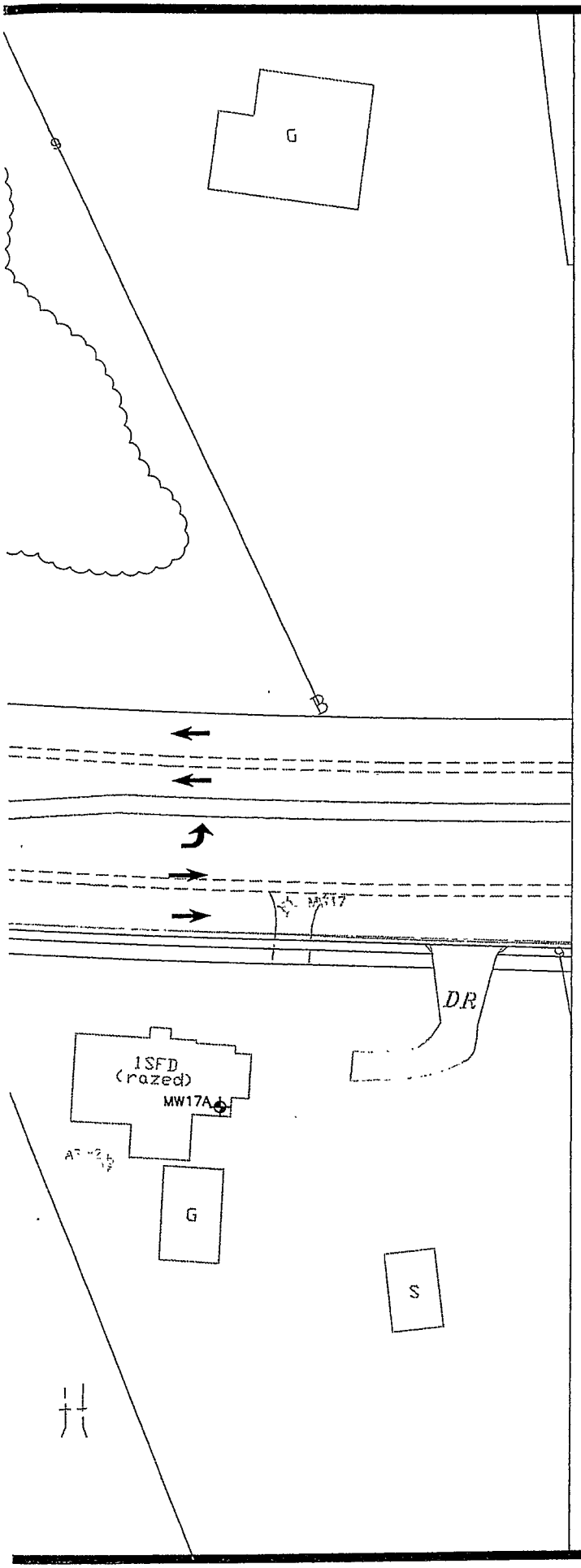
ENVIRONMENTAL CONSULTANTS, P.C.



LEGEND

- Type II Monitoring Well
  MW3, MW4, MW7 – MW12 abandoned due to NCDOT roadwork on 1/19/04. MW15 and MW17 destroyed due to NCDOT roadwork.
- Type III Monitoring Well
- Potable Well
- Abandoned Potable Well

Basemap and certain features taken from NCDOT map R-2911E Sheet 18.

GRAPHIC SCALE

0' 25' 50' 100'

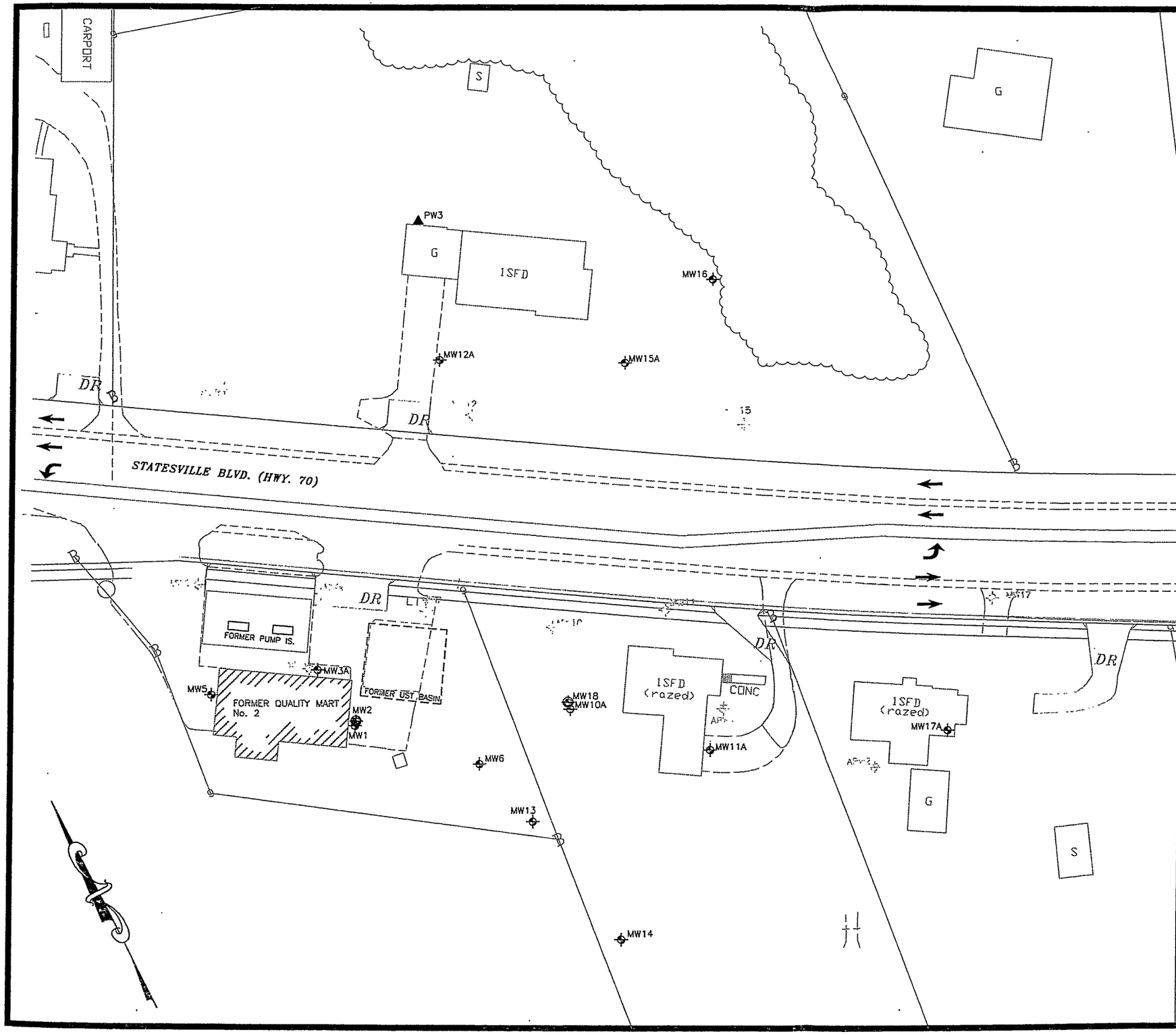
SITE LAYOUT AND MONITORING WELL NETWORK
QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC

WINSTON-SALEM, NC

PROJECT NO: 01099	CHECKED BY: MJB/RDK	DATE:	7/2/09
SCALE: 1"=50'	DRAWN BY: RDK/MJB	FIGURE NO.	3

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.



LEGEND

- Type II Monitoring Well
  MW3, MW4, MW7 – MW12 abandoned due to NCDOT roadwork on 1/19/04. MW15 and MW17 destroyed due to NCDOT roadwork.
- Type III Monitoring Well
- Potable Well
- Abandoned Potable Well

Basemap and certain features taken from NCDOT map R-2911E Sheet 18.

GRAPHIC SCALE

0' 25' 50' 100'

SITE LAYOUT AND MONITORING WELL NETWORK
QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC

WINSTON-SALEM, NC

PROJECT NO: 01099	CHECKED BY: MJB/RDK	DATE: 7/2/09	
SCALE: 1"=50'	DRAWN BY: RDK/MJB	FIGURE NO. 3	

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

COMPREHENSIVE SITE ASSESSMENT

FOR THE FORMER

Westcliff BP

SALISBURY, NORTH CAROLINA

PREPARED FOR:
MID-STATE PETROLEUM, INC.

JUNE 30, 2000

PREPARED BY:

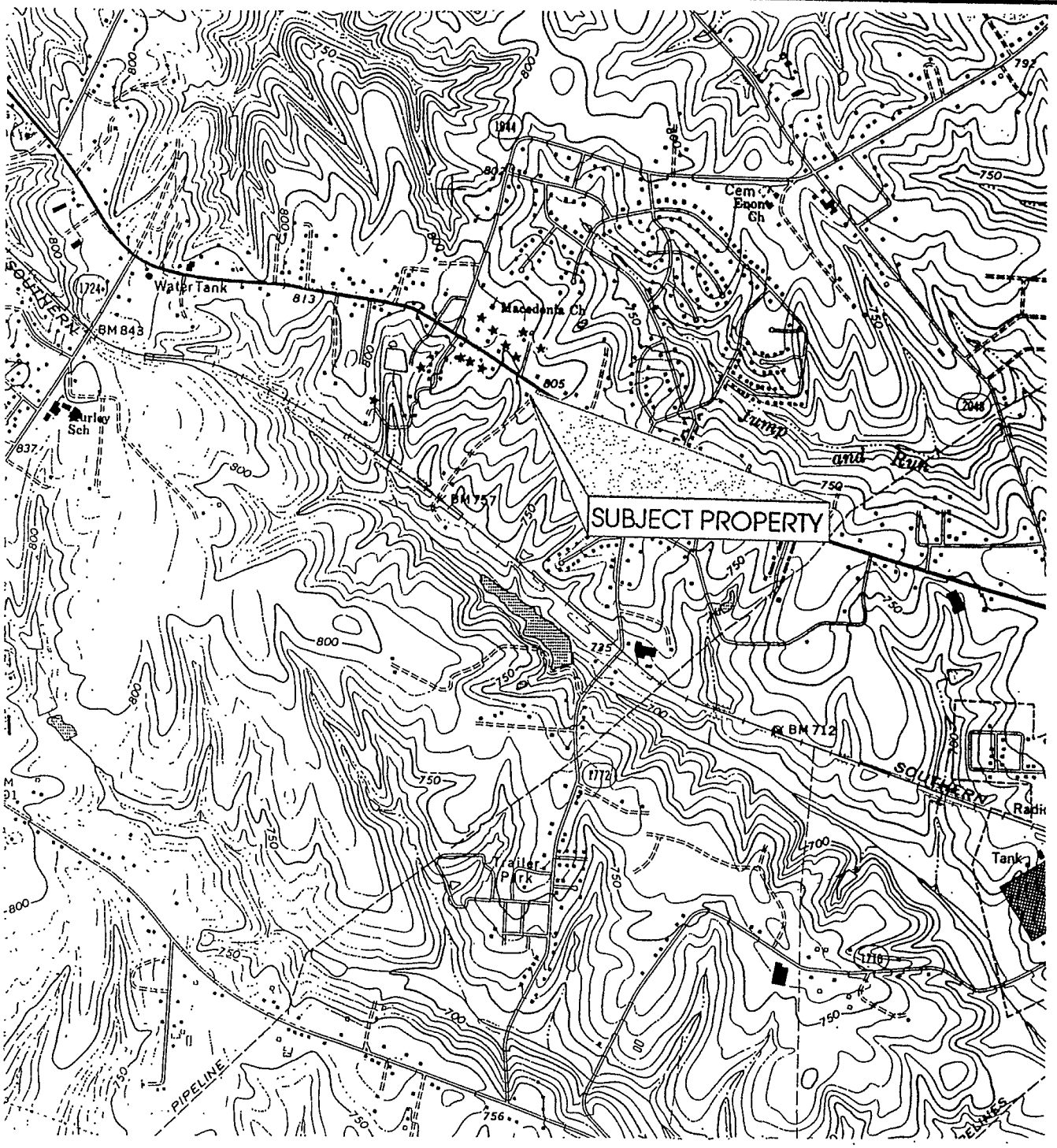
APPLIED RESOURCE MANAGEMENT, PC
P. O. BOX 882
HAMPSTEAD, NORTH CAROLINA 28443
(910) 270-2919
FAX 270-2988

TABLE 1

KNOWN WATER SUPPLY WELLS

FORMER WESTCLIFF BP
SALISBURY, NORTH CAROLINA

WELL ADDRESS	TYPE OF WELL
2720 Statesville Rd.	Private
2680 Statesville Rd.	Private
2705 Statesville Rd.	Private
2675 Statesville Rd.	Private
2655 Statesville Rd.	Private
2640 Statesville Rd.	Private
2620 Statesville Rd.	Private
185 Wilton Dr.	Private
215 Wilton Dr.	Private
160 Magolica St.	Private
Perryman Dr.	Community Well



United States Department of the Interior
Geological Survey
"Rowan Mills, N.C." 1969

Contour Interval - 10 Feet

LEGEND

★ Domestic Well Locations

N

QUADRANGLE LOCATION

Applied Resource Management PC
P.O. Box 882, Hampstead, NC 28443
(910) 270-2919 FAX 270-2988

TITLE: SITE MAP WITH SURROUNDING DOMESTIC WELL LOCATIONS				FIGURE: 4
JOB: 9707	SCALE: 1" = 2,000	DATE: 4/02/99	DRAWN BY: DHC	

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

NC DEPT. OF ENVIRONMENT
AND NATURAL RESOURCES
RECEIVED

DEC 23 2008

MOORESVILLE REGIONAL OFFICE, UST
DIVISION OF WASTE MANAGEMENT, SWS

PRE-CAP GROUNDWATER MONITORING REPORT

(Subsequent Report)

(December 1, 2008 Sampling Event)

QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NORTH CAROLINA

Latitude: 35°41' 58" N Longitude: 80°26' 6" W

NCDWM - UST Incident No. 21079
Facility ID 0-019963
Risk Classification: HIGH (H285R)
Land Use: Residential

Release Information
Date Discovered: April 13, 1999
Estimated Release Quantity: Unknown

Release Source: Commercial UST System
Capacity of Former USTs: (1) 6,000-gallon and (2) 10,000-gallon Gasoline USTs

Responsible Party:

Quality Oil Company, LLC
P.O. Box 2736
Winston-Salem, NC 27102-2736

Property Owner:

Mark and Martha Summers
18726 Old Statesville Rd.
Cornelius, NC 28031

Terraquest Project No. 01099

December 19, 2008

100 E. Ruffin Street • Mebane, North Carolina 27302
Telephone (919) 563-9091 • Facsimile (919) 563-9095
www.terraquestpc.com

Table 1
Date: 12/10/08

MONITORING WELL CONSTRUCTION INFORMATION
Incident Name: Quality Mart No. 2 Incident No. 21079

Facility ID No: 0-019963

Well ID	Date Installed	Date Water Level Measured	Well Casing Depth (ft. BGS)	Screened Interval (x to y ft. BGS)	Bottom of Well (ft. BGS)	Top of Casing Elevation (feet)	Depth to Water from Top of Casing (feet)	Free Product Thickness (feet)	Groundwater Elevation (feet)	Comments
MW1	7/12/99	12/1/08	20	20-30	30	101.36	dry	-	-	Type II well
MW2	7/12-13/99	12/1/08	OC: 33 IC: 37	37-48	48	101.48	31.89	-	69.59	Type III well
MW3	7/13/99	-	20	20-35	35	101.10	-	-	-	Type II well
MW3A	7/13/04	12/1/08	35	20-35	35	100.96	29.74	-	71.22	Type II well
MW4	7/13/99	-	20	20-35	35	100.00	-	-	-	Type II well
MW5	7/13/99	12/1/08	20	20-35	35	101.22	29.96	-	71.26	Type II well
MW6	3/13/00	-	15	15-25	35	95.25	dry	-	-	Type II well
MW7	3/13/00	-	20	20-35	35	100.16	-	-	-	Type II well
MW8	3/14/00	-	20	20-35	35	101.18	-	-	-	Type II well
MW9	3/13/00	-	20	20-35	35	100.53	-	-	-	Type II well
MW10	5/3/00	-	19	19-24	24	95.84	-	-	-	Type II well
MW10A	7/13/04	12/1/08	27	20-27	27	97.11	27.99	-	69.12	Type II well/stickup 40"
MW11	8/30/00	-	20	20-35	35	97.71	-	-	-	Type II well
MW11A	7/12/04	12/1/08	27	20-27	27	95.57	27.46	-	68.11	Type II well/stickup 40.5"
MW12	8/30/00	-	22.5	22.5-37.5	37.5	99.27	-	-	-	Type II well
MW12A	7/13/04	12/1/08	35	20-35	35	99.47	30.97	-	68.50	Type II well
MW13	8/30/00	12/1/08	20	20-35	35	93.61	24.86	-	68.75	Type II well
MW14	11/6/00	12/1/08	15	15-35	35	93.04	25.03	-	68.01	Type II well
MW15	11/6/00	-	15	15-35	35	94.75	-	-	-	Type II well
MW15A	7/19/04	12/1/08	30	15-30	30	95.68	26.57	-	69.11	Type II well
MW16	11/7/00	-	11.5	11.5-31.5	31.5	88.12	dry	-	-	Type II well
MW17	11/6/00	-	37	15-35	35	95.58	-	-	-	Type II well
MW17A	7/12/04	12/1/08	31	21-31	31	96.71	29.42	-	67.29	Type II well/stickup 43.75"
MW18	7/19-20/04	12/1/08	OC: 35 IC: 45	45-50	50	97.51	29.06	-	68.45	Type III well/stickup 43"

Notes:
1. All units in feet.
2. OC = outer casing, IC = inner casing
3. Shading indicates monitoring well is abandoned.
4. (-) indicates no product detected or not applicable.

Table 2
Date: 12/10/08

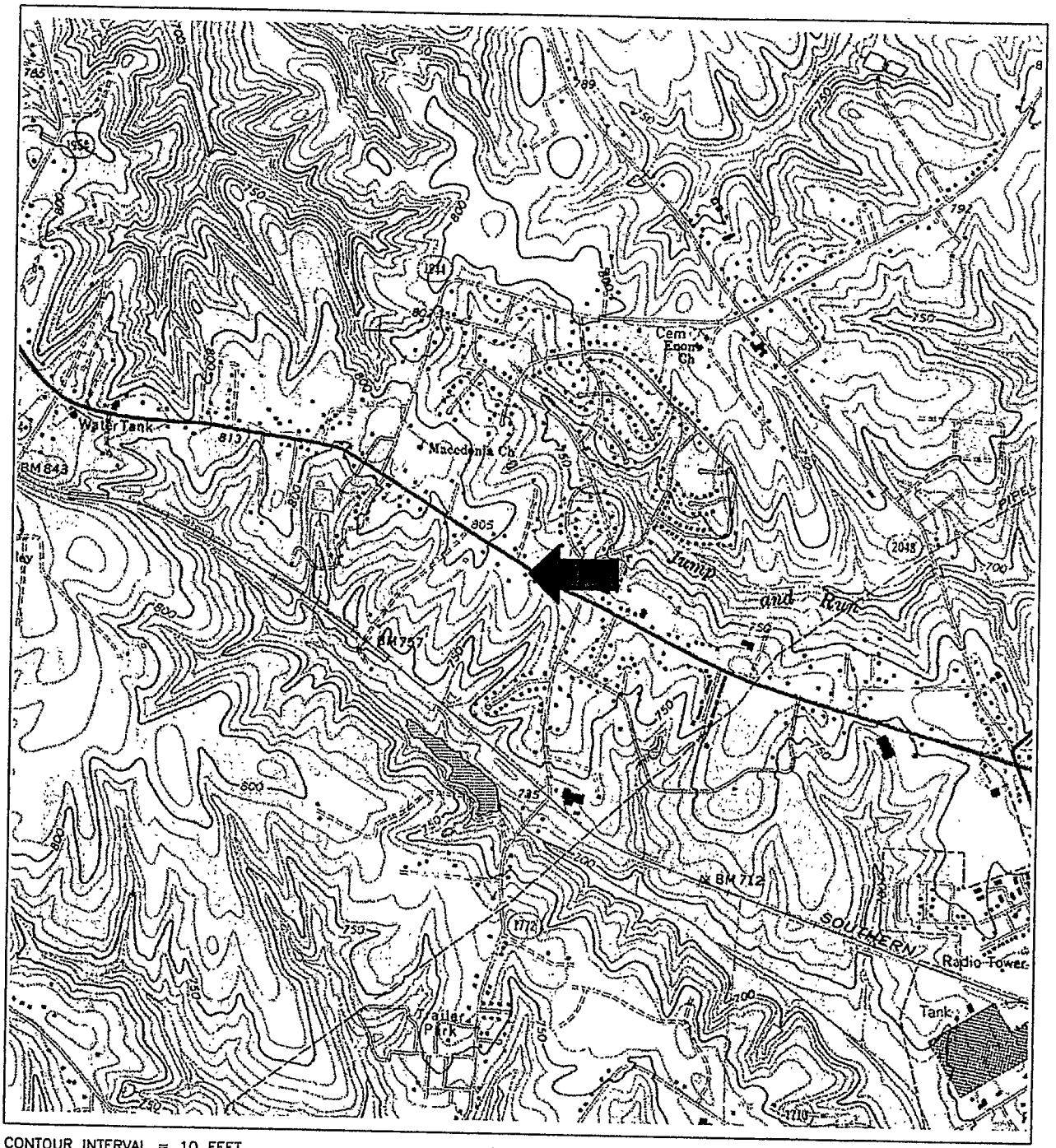
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Incident Name: Quality Mart No. 2 Incident No. 21079

Facility ID No: 0-019963

Analytical Method:		6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B
Contaminant of Concern:											
Well ID	Date Collected	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Tetrachloroethene	Napthalene
MW2	12/1/08	<1	<5	<1	<3	**2.4**	<1	<1	<1	<1	<5
MW3A	12/1/08	<5	<25	<5	<15	**120**	**14**	<5	<5	<5	<25
MW5	12/1/08	<1	<5	<1	<3	**3.1**	<1	<1	<1	<1	<5
MW10A	12/1/08	**93**	<50	<10	**46**	**1,700**	**43**	**75**	**24**	<10	<50
MW11A	12/1/08	**44**	<10	<10	<30	**1,900**	**24**	<10	<10	<10	<50
MW12A	12/1/08	<1	<5	<1	<3	<1	<1	<1	<1	<1	<5
MW13	12/1/08	<1	<5	<1	<3	**69**	**1.4**	<1	<1	<1	<5
MW14	12/1/08	<1	<5	<1	<3	<1	<1	<1	<1	<1	<5
MW15A	12/1/08	<1	<5	<1	<3	<1	<1	<1	<1	<1	<5
MW17A	12/1/08	<1	<5	<1	<3	**200**	**2**	<1	<1	<1	<5
MW18	12/1/08	**9.8**	<5	<1	<3	**360**	**7.5**	**1.9**	**2.1**	<1	**7.2**
PW3	12/1/08	<1	<5	<1	<3	<1	<1	<1	<1	**1.2**	<5
PW16	12/1/08	<1	<5	<1	<3	**8.3**	<1	<1	<1	<1	<5
	2L Standard	1	1,000	550	530	200	70	350	350	0.7	21

Notes:
1. All results in µg/L.
2. **BOLD** denotes a detected concentration above the laboratory's sample-specific method detection limit.
3. Shading denotes a concentration above the applicable 2L Standard.
4. "<" denotes no detection at concentration above the laboratory's sample-specific method detection limit.

Figures Appendix A Appendix B



CONTOUR INTERVAL = 10 FEET

N

MAP SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS – ROWAN MILLS, NC

GRAPHIC SCALE

0' 2,000' 4,000'

TERRAquest

ENVIRONMENTAL CONSULTANTS, P.C.

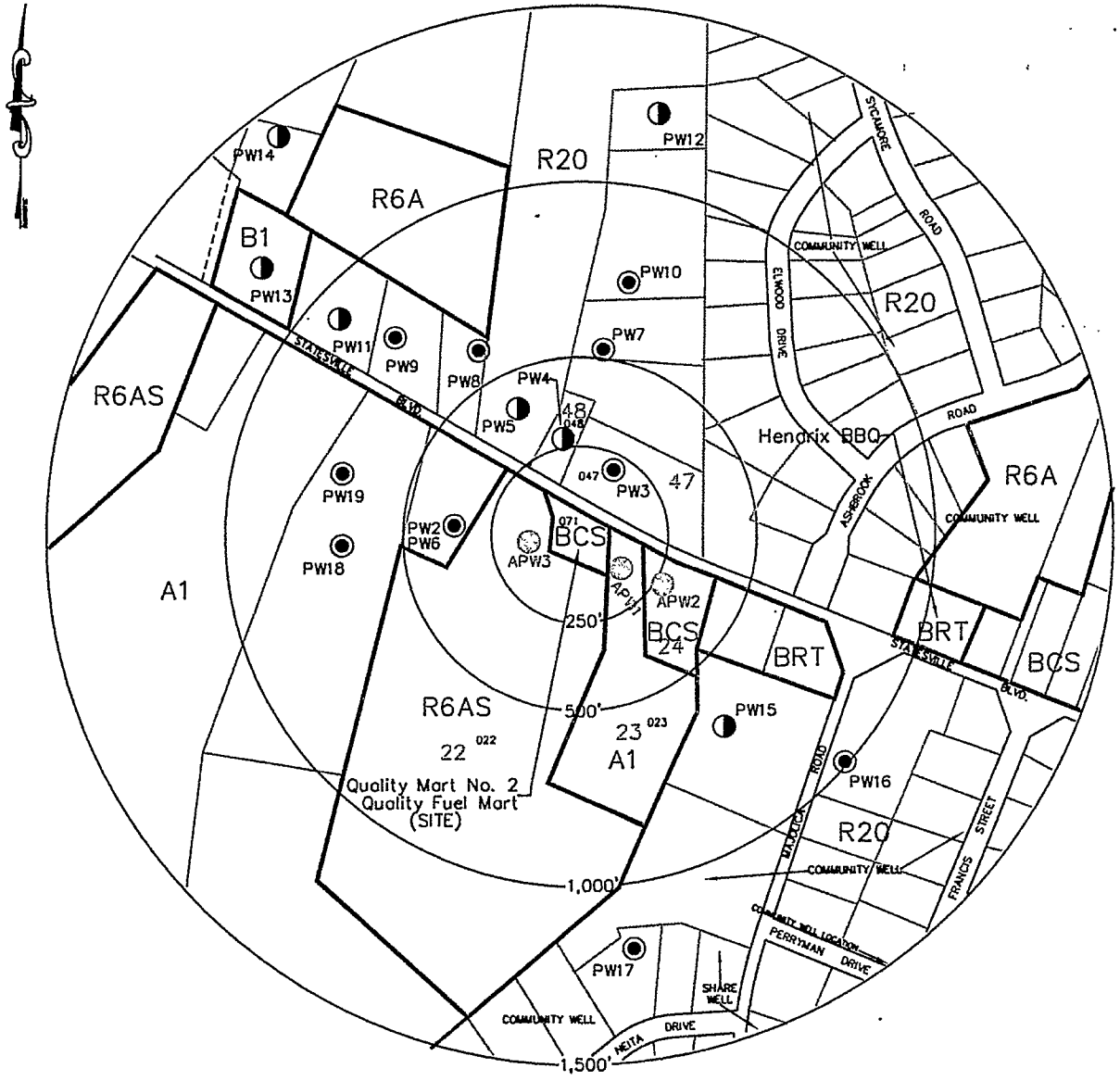
SITE LOCATION MAP

Quality Mart No. 2
2625 Statesville Blvd.

Quality Oil Company, LLC

Rowan County

PROJECT NO.	01099	DRAWN BY:	RDK	DATE:	12/10/08
SCALE:	1" = 2,000'	CHECKED BY:	MJB	FIGURE NO.	1



LEGEND

R20	Residential
R6A	Multi-Family Residential
R6AS	Multi-Family Residential
A1	Agricultural
B1	Office Business
BRT	Retail Trade Business
BCS	Convenience Service Business
———	Zoning Boundary
PW1	Active Potable Well
PW1	Inactive Potable Well
APW1	Abandoned Potable Well

The last three digits of the tax parcel number are shown for properties surrounding the site. Refer to Table 2 in the 6/17/08 Pre-CAP Groundwater Monitoring Report for the complete number and tax parcel numbers of other well owners.

Reconnaissance updated in July 2004 by Terraquest.

Properties without wells within 1,500' of the site that are not located on Statesville Blvd. receive their water supply from community wells which are located beyond 1,500'.

GRAPHIC SCALE

0' 250' 500' 1,000'

SITE VICINITY MAP
QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC WINSTON-SALEM, NC

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

PROJECT NO.	01099	DATE:	12/10/08
CHECKED BY:	MJB	SCALE:	1"=500'
DRAWN BY:	MJB/JAK	FIGURE NO.	2

Complete Groundwater Analytical Data History for MW1

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
7/14/1999	601/602*	**2.4**	**1.1**	**1.6**	**18**	**150**	**5.5**	-	<.01	**180**	**230**	**100**	**120**
3/21/2000	601/602*	<10	<10	<10	**34**	**260**	<50	**14**	-	**850**	**600**	<100	**45**
3/22/2003	601/602*	<1.0	<5.0	<1.0	<2.0	**10**	<5.0	<5.0	-	-	-	-	-
8/5/2003	601/602*	<1.0	<5.0	<1.0	<2.0	**7.7**	<5.0	<5.0	-	-	-	-	**10**
1/14/2004	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	-	-	-	-	**6.8**
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	-	-	-	-	**61**
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	**49.0**	**4.8**	<5.0	-	-	-	-	<5.0
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**56.0**	**5.6**	<5.0	-	-	-	-	<5.0
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. ** Lead results from 3/15/00 sampling event.
6. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW2

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
7/14/1999	601/602*	**12**	<1.0	<1.0	**1.1**	**17**	<5.0	-	<0.1	<100	<100	<100	**12**
3/15/2000	601/602*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	<100	<100	<100	**15**
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
3/22/2003	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
8/5/2003	601/602*	<1.0	<5.0	<1.0	<2.0	**8.1**	<5.0	<1.0	-	-	-	-	-
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	-				
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	**5.4**	<1.0	<5.0	-	-	-	-	<5.0
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**7.3**	<1.0	<5.0	-	-	-	-	<5.0
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**2.0**	<1.0	<5.0	<1.0	-	-	-	<5.0
6/17/2008	6210D*	<1.0	<5.0	<1.0	<3.0	**4.0**	<1.0	-	-	-	-	-	<5.0
12/1/2008	6200B	<1	<5	<1	<3	**2.4**	<1	<5	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis by method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW3

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
7/14/1999	601/602*	<1.0	<1.0	<1.0	**3.6**	**65**	<5.0	-	<.01	**130**	<100	<100	**240**
3/15/2000	601/602*	<1.0	<1.0	<1.0	**7.3**	**91**	<5.0	<1.0	-	**340**	**200**	<100	**8.4**
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	**7.4**	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW3A

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Isopropylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	Lead
7/21/2004	601/602*	<25	<120	<25	<50	**690**	<120	<25	<25	<25	<120	**13**
12/20/2006	601/602*	**3.9**	<5.0	**1.6**	**5.4**	**300**	**24**	<1.0	<1.0	<1.0	<5.0	**13**
6/5/2007	601/602*	**6.7**	<5.0	**4.5**	**23.5**	**270**	**24**	**1.1**	**4.1**	**3.5**	<5.0	**10**
12/5/2007	6210D	**3.6**	<5.0	**1.0**	**11.1**	**140**	**17**	<1.0	**2.1**	**2.1**	<5.0	**21**
6/17/2008	6210D	**1.1**	<5.0	<1.0	**6.5**	**100**	**7.6**	-	**1.3**	**1.1**	-	<5.0
12/1/2008	6200B	<5	<25	<5	<15	**120**	**14**	<5	<5	<5	<25	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	70	350	350	21	15

Notes:
1. All results in µg/L.
2. * Lead results by 6010B method with 3030c digestion.
3. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
4. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW4

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
7/14/1999	601/602*	**620**	**3,600**	**820**	**4,200**	**750**	<25	-	**19/14**	**27,000**	**25,000**	**10,000**	**25**
1/15/2002	601/602*	**630**	**5,400**	**460**	**2,720**	<1,200	<1,200	<250	-	-	-	-	<5
1/14/2004	601/602*	**120**	**830**	**200**	**1,270**	**17,000**	**42.0**	**120**	-	-	-	-	**7.0**
15A NCAC 2L .0202(g) Standards		1	1,000	550**	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results for the 7/14/99 sampling event are reported by methods (504.1 / 601). Only 504.1 results reported for future samples.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. ** The 2L Standard for ethylbenzene changed from 29 µg/L to 550 µg/L on 2/1/06.
6. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW5

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
7/14/1999	601/602*	<1.0	**1.2**	<1.0	<3.0	<5.0	<5.0	-	<.01	<100	<100	<100	**44**
3/15/2000	601/602*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	<100	<100	<100	8
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	5
12/1/2008	6200B	<1	<5	<1	<3	3.1	<1	<5	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW6

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
3/15/2000	601/602*	**2.4**	**12**	**3**	**12.5**	<5.0	<5.0	**1.5**	<1.0	<100	**150**	<100	**1,400**
8/31/2000	3030c (Pb)	-	-	-	-	-	-	-	-	-	-	-	**39./1,900**
3/22/2003	601/602*	<1.0	<5.0	<1.0	<2.0	**7.4**	<5.0	<5.0	-	-	-	-	**280*** **
8/5/2003	601/602*	<1.0	<5.0	<1.0	<2.0	**19**	<5.0	<5.0	-	-	-	-	**19**
1/14/2004	601/602*	<1.0	<5.0	<1.0	<2.0	**31**	<5.0	<5.0	-	-	-	-	**16**
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	**38**	<5.0	<5.0	-	-	-	-	**64**
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	**14.0**	<1.0	<5.0	-	-	-	-	**34.0**
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**18.0**	<1.0	<5.0	-	-	-	-	**7.8**
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**14.0**	<1.0	<5.0	<1.0	-	-	-	**150**
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.
6. Lead result for 8/31/2000 represents prior to purging / after purging.

Complete Groundwater Analytical Data History for MW7

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
3/15/2000	601/602*	**910**	**5,500**	**790**	**4,300**	**2,800**	<500	**340**	<100	**32,000**	**15,000**	<2,000	**190**
1/15/2002	601/602*	**770**	**7,500**	**1,200**	**6,000**	**2,900**	<1,000	**580**	-	-	-	-	**370**
3/22/2003	601/602*	**3.4**	**9.3**	**2**	**12.2**	**12**	<5.0	<5.0	-	-	-	-	**44*** **
8/5/2003	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	-	-	-	-	<5.0
1/14/2004	601/602*	**7.6**	**88.0**	**120**	**680**	**29.0**	<25.	**63.0**	-	-	-	-	**6.7**
15A NCAC 2L .0202(g) Standards		1	1,000	550**	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. ** The 2L Standard for ethylbenzene changed from 29 µg/L to 550 µg/L on 2/1/06.
6. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW8

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
3/15/2000	601/602*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	<1.0	<100	<100	<100	**9.2**
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with a 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW9

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
3/15/2000	601/602*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	<1.0	<100	<100	<100	**7.1**
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with a 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW10

Quality Mart #2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB	Chloroform	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
		WELL DRY, NO SAMPLES												
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	70	420	4,200	210	15

Notes:

Complete Groundwater Analytical Data History for MW10A

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Lead
7/21/2004	601/602*	<1.0	<5.0	<1.0	**1**	**81**	<5.0	<5.0	<1.0	<1.0	<5.0
12/20/2006	601/602*	**1.0**	<5.0	<1.0	<3.0	**40.0**	<1.0	<5.0	<1.0	<1.0	<5.0
6/5/2007	6210D*	**6.5**	<5.0	<1.0	**2.1**	**130**	**3.6**	<5.0	**8.6**	**3.1**	<5.0
12/5/2007	6210D*	**49.0**	<120	<25	<75	**1,300**	**27.0**	<120	**31.0**	<25	<5.0
6/17/2008	6210D*	**130**	<50	<10	**83**	**3,500**	**57**	-	**100**	**32**	<5.0
12/1/2008	6200B	**93**	<50	<10	**46**	**1,700**	**43**	<50	**75**	**24**	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	350	350	15

Notes:
1. All results in µg/L.
2. * Lead results by 6010B method with 3030c digestion.
3. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
4. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW11

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
8/31/2000	6210D*	**170**	<10	<10	**270**	**320**	<50	**79**	**0.24**	**1,800**	**620**	<100	**10**
1/15/2002	601/602*	**81**	<25	<5.0	**9.7**	**140**	<25	**7.9**	-	-	-	-	-
3/22/2003	601/602*	**48**	<5.0	**1.5**	**100**	**84**	<5.0	**46**	-	-	-	-	-
8/5/2003	601/602*	**16**	<5.0	<1.0	**11.9**	**84**	<5.0	**9.1**	-	-	-	-	-
1/14/2004	601/602*	**25.0**	<5.0	<1.0	**6.1**	**46.0**	<5.0	**23.0**	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW11A

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Lead
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	**35**	<5.0	<5.0	<1.0	<1.0	<5.0
12/20/2006	601/602*	**5.4**	<5.0	<1.0	<3.0	**270**	<1.0	**5.9**	<1.0	<1.0	<5.0
6/5/2007	6210D*	**3.8**	<5.0	<1.0	<3.0	**360**	**2.6**	<5.0	**1.1**	**2.1**	<5.0
12/5/2007	6210D*	**17.0**	<50	<10	<30	**700**	**10.0**	<50	<10	<10	<5.0
6/17/2008	6210D*	**54**	<50	<10	<30	**1,800**	**20**	-	**23**	**13**	<5.0
12/1/2008	6200B	**44**	<10	<10	<30	**1,900**	**24**	<50	<10	<10	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	350	350	15

Notes:
1. All results in µg/L.
2. * Lead results by 6010B method with 3030c digestion.
3. Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
4. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW12

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	Tetrachloroethene	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
8/31/2000	6210D*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	**3.8**	**1.7**	**390**	<100	<100	**7.1**
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	**1.6**	-	-	-	-
3/22/2003	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	-	**2.8**	-	-	-	-
8/5/2003	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	-	**3.1**	-	-	-	-
1/14/2004	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	-	**2.0**	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	0.7	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW12A

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Lead
12/1/2008	6200B	<1	<5	<1	<3	<1	<1	<5	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	15

Notes:
1. All results in µg/L.
2. * Lead results by 6010B method with 3030c digestion.
3. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
4. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW13

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	1,2,4-Trimethlbenzene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
8/31/2000	6210D*	<1.0	<1.0	<1.0	<2.0	**14**	<5.0	<1.0	-	<0.010	**550**	<100	<100	<5.0
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	**19**	<5.0	<1.0	-	-	-	-	-	-
3/22/2003	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-	-
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	**14**	<5.0	<1.0	-	-	-	-	-	<5.0
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	**9.8**	<1.0	<5.0	-	-	-	-	-	**16.0**
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**24.0**	<1.0	<5.0	-	-	-	-	-	<5.0
12/5/2007	6210D*	**2.6**	<5.0	<1.0	**3.9**	**75.0**	**2.3**	<5.0	**1.3**	<1.0	-	-	-	**6.5**
6/17/2008	6210D*	**2.7**	<5.0	<1.0	**2.2**	**160**	**4.0**	-	**1.8**	-	-	-	-	<5.0
12/1/2008	6200B	<1	<5	<1	<3	**69**	**1.4**	<5	<1	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	350	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with a 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW14

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
11/8/2000	601/602*	**1.2**	<1.0	<1.0	**2.1**	<5.0	<5.0	<1.0	<0.010	<100	<100	<100	**7.3**
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	**6.8**	<5.0	<1.0	-	-	-	-	-
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	<5.0
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<5.0	-	-	-	-	<5.0
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**1.8**	<1.0	<5.0	-	-	-	-	<5.0
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<5.0	<1.0	-	-	-	<5.0
6/17/2008	6210D*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	-	-	-	-	-	<5.0
12/1/2008	6200B	<1	<5	<1	<3	<1	<1	<5	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with a 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW15

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
11/8/2000	601/602*	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<1.0	<0.010	<100	<100	<100	**11**
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW15A

Quality Mart No.2

Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Lead
12/1/2008	6200B	<1	<5	<1	<3	<1	<1	<5	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	15

Notes:
1. All results in µg/L.
Lead analysis by method 6010B with a 3030c preparation method.
Bold denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
- = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW16
Quality Mart No.2
Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
11/8/2000	601/602*	<1.0	**1.0**	<1.0	<2.0	<5.0	<5.0	<1.0	<0.010	<100	<100	<100	**5.7**
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
3/22/2003	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
8/5/2003	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
1/14/2004	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	-	-	-	-	-
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	-	-	-	-	<5.0
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with a 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Analytical Data History for MW17

Quality Mart No.2
Quality Oil Company, LLC

17

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Ethylene dibromide (EDB)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
11/8/2000	601/602*	<1.0	<1.0	<1.0	<2.0	**6.4**	<5.0	<1.0	<0.010	<100	<100	<100	<5.0
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	-	-	-	-	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	70	420	4,200	210	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. EDB results reported by method 504.1 only.
4. * Lead results by 6010B method with 3030c digestion, aliphatic and aromatic hydrocarbon analysis per method MADEP VPH.
5. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for MW17A

Quality Mart No.2
Quality Oil Company, LLC

17A

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Chloroform	Lead
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	**7.7**	<5.0	<5.0	**1.1**	<5.0
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	**4.7**	<1.0	<5.0	<5.0	**8.0**
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**3.5**	<1.0	<5.0	<5.0	**10.0**
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**150**	**2.6**	<5.0	<5.0	**5.1**
6/17/2008	6210D*	<1.0	<5.0	<1.0	<3.0	**250**	**3.3**	-	-	<5.0
12/1/2008	6200B	<1	<5	<1	<3	**200**	**2**	<5	<5	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	0.19	15

Notes:
1. All results in µg/L.
2. * Lead results by 6010B method with 3030c digestion.
3. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
4. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

MW-18

Quality Mart No.2
Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Tetrachloroethene	Lead
7/21/2004	601/602*	**1.8**	<5.0	<1.0	<2.0	**35**	<5.0	<5.0	<	**9.2**
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	**3.3**	<1.0	<5.0	<1.0	<5.0
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<5.0	**1.0**	<5.0
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<5.0	**1.2**	<5.0
6/17/2008	6210D*	<1.0	<5.0	<1.0	<3.0	**170**	<1.0	-	**1.0**	<5.0
12/1/2008	6200B	**9.8**	<5	<1	<3	**360**	**7.5**	**7.2**	<1	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	0.7	15

Notes:
1. All results in µg/L.
2. * Lead results by 6010B method with 3030c digestion.
3. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
4. - = Not sampled for method specified, NE = 2L limits not established, < -less than sample detection limit.

Complete Groundwater Analytical Data History for PW3
Quality Mart No. 2
Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Tetrachloroethene	Naphthalene	Lead
1/15/2002	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	<5.0	-
3/24/2003	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	<5.0	-
8/5/2003	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	<5.0	-
1/14/2004	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	<5.0	-
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	<5.0	<5.0	<1.0	<5.0	-
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<1.0	<5.0	-
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	1.1	<5.0	-
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	1.1	<5.0	<5.0
6/17/2008	6210D*	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<1.0	-	<5.0
12/1/2008	6200B	<1	<5	<1	<3	<1	<1	1.2	<5	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	0.7	21	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. * Lead results by 6010B method with 3030c digestion.
4. - = Not sampled for method specified, < -less than sample detection limit.

Complete Groundwater Analytical Data History for PW15
Quality Mart No. 2
Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Lead
7/21/2004	601/602*	<1.0	<5.0	<1.0	<2.0	**10**	<5.0	<5.0	<5.0
12/20/2006	601/602*	<1.0	<5.0	<1.0	<3.0	**13.0**	<1.0	<5.0	<5.0
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**16.0**	<1.0	<5.0	**180**
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	15

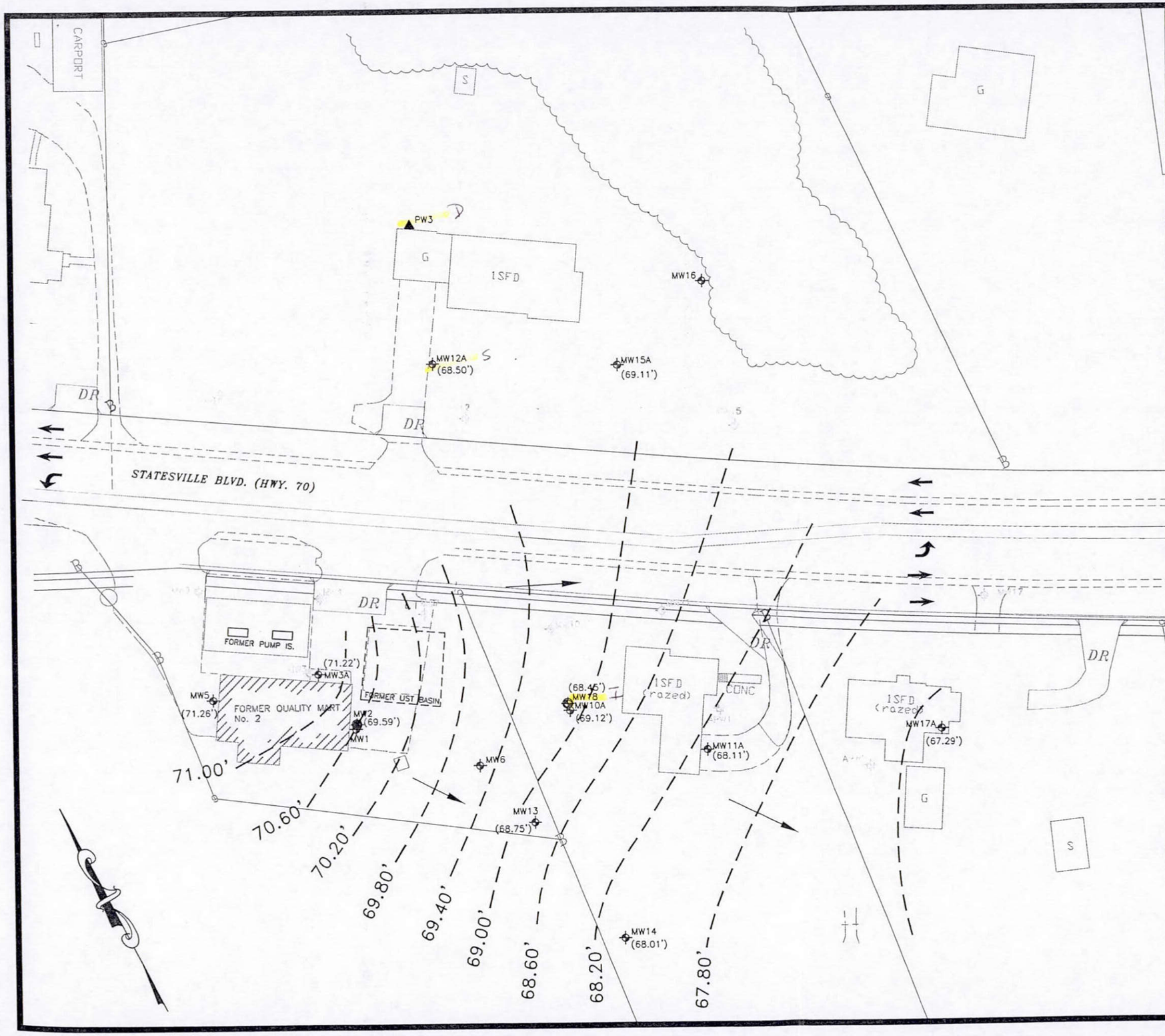
Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. * Lead results by 6010B method with 3030c digestion.

PW-16

Quality Mart No. 2
Quality Oil Company, LLC

Date	U.S. EPA Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Lead
12/20/2006	601/602	<1.0	<5.0	<1.0	<3.0	**3.2**	<1.0	<5.0	**8.0**
6/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**4.7**	<1.0	<5.0	<5.0
12/5/2007	6210D*	<1.0	<5.0	<1.0	<3.0	**4.1**	<1.0	<1.0	<5.0
6/17/2008	6210D*	<1.0	<5.0	<1.0	<3.0	**6.2**	<1.0	-	<5.0
12/1/2008	6200B	<1	<5	<1	<3	**8.3**	<1	<5	-
15A NCAC 2L .0202(g) Standards		1	1,000	550	530	200	70	21	15

Notes:
1. All results in µg/L.
2. **Bold** denotes a detected concentration; Shading denotes a concentration in excess of 2L standards.
3. * Lead results by 6010B method with 3030c digestion.
4. - = Not sampled for method specified, < -less than sample detection limit.



LEGEND

- Type II Monitoring Well
  MW3, MW4, MW7 – MW12 abandoned due to NCDOT roadwork on 1/19/04.
  MW15 and MW17 destroyed due to NCDOT roadwork.
- Type III Monitoring Well
- Potable Well
- Abandoned Potable Well

The groundwater elevation as measured on 12/1/08 is listed next to each monitoring well in feet.

The interpreted groundwater flow direction is indicated by arrows located perpendicular to potentiometric contours.

Data from the Type III groundwater monitoring wells MW2 and MW18 was ignored in the construction of this map. The anomalous reading for MW12A was also ignored.

Basemap and certain features taken from NCDOT map R-2911E Sheet 18.

GRAPHIC SCALE

0' 25' 50' 100'

POTENTIOMETRIC SURFACE MAP (12/1/08)
QUALITY MART No. 2
2625 STATESVILLE BLVD.
SALISBURY, NC

QUALITY OIL COMPANY, LLC

WINSTON-SALEM, NC

PROJECT NO: 01099	CHECKED BY: MJB/RDK	DATE:	12/10/08
SCALE: 1"=50'	DRAWN BY: RDK/MJB	FIGURE NO.	4

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