

October 20, 2005

TETRA TECH, INC.

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Mr. William Kutash
Waste Management Administrator
Florida Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619-8318

Subject: Expanded Water Supply Well Survey Report for the Former American Beryllium Company Facility, Tallevast, Florida

Dear Mr. Kutash:

On behalf of Lockheed Martin Corporation, Tetra Tech, Inc. is pleased to submit this report documenting the expanded water supply well survey conducted in the vicinity of the former American Beryllium Company (ABC) facility in Tallevast, Florida. The water supply well survey included a database search and field reconnaissance to identify any residential potable water supply wells, residential irrigation wells, and agricultural irrigation wells within a distance of 0.25 mile from the edge of the plume; and any municipal supply wells within a distance of 0.5 mile from the edge of the plume.

Database Search

The database search included a review of all available records to identify any permitted wells within the distances specified above. The following agencies were contacted and asked if they maintained records on water supply wells:

- City of Bradenton
- Manatee County
- Southwest Florida Water Management District (SWFWMD)
- Florida Department of Environmental Protection (FDEP)

Of these agencies, only Manatee County and SWFWMD maintained records on water supply wells. A request was submitted to both agencies for a list of all wells located in Township 35 South, Range 18 East, Section 30; Township 35 South, Range 18 East, Section 31; Township 35

South, Range 17 East, Section 25; and Township 35 South, Range 17 East, Section 36. These records were then reviewed to identify any addresses that fell within the distances specified above.

The database search identified 21 properties with permitted wells. Of these 21 locations, there were three domestic supply wells, nine domestic irrigation wells, one industrial supply well, six observation (monitoring) wells, and two where no well usage information was provided in the database. No municipal water supply wells were identified within a distance of 0.5 mile from the edge of the plume during the database search. A list of the wells identified during the database search is provided in Table 1.

Field Reconnaissance

A field reconnaissance was conducted to verify the locations of the wells identified during the database search. Prior to conducting the field reconnaissance, letters were sent to the property owners requesting access to inspect the wells and collect samples if necessary. During the field reconnaissance, wells were located at 17 of the addresses identified during the database search. Four of the addresses identified during the database search could not be located in the field. A search was done on the Manatee County property appraisers database but none of the four properties were in the database.

While conducting the field reconnaissance, a survey was conducted to identify any additional wells that were not identified in the database search. No additional wells were identified during the field reconnaissance.

Water Sampling

Water samples were collected from five of the wells identified during the expanded well survey. Samples were collected from two domestic irrigation wells, two domestic supply wells, and one industrial supply well. The property owners at 2105 Tallevast Road and 7715 17th Street Court East declined to have their wells sampled. The remaining irrigation wells had no spigots or sample ports so no samples were collected. In addition, no samples were collected from wells identified as observation wells.

The water samples were collected in accordance with the FDEP Standard Operating Procedure (DEP-SOP-001/01) FS 2000, General Aqueous Sampling, and FS 2300, Drinking Water Sampling. The water samples were submitted to Accutest Laboratories in Orlando, Florida under chain of custody protocol for analysis for volatile organic compounds (VOCs) using EPA Method 8260, and 1,4-Dioxane using EPA Method 8270. The concentrations of contaminants of concern (COCs) were below standard laboratory detection limits in all five samples. Copies of the laboratory analytical reports are attached for reference.

Mr. William Kutash

October 20, 2005

Page 3 of 3

Summary and Conclusions

An expanded water supply well survey was conducted to identify any residential potable water supply wells, residential irrigation wells, and agricultural irrigation wells within a distance of 0.25 mile from the edge of the plume; and any municipal supply wells within a distance of 0.5 mile from the edge of the plume. The expanded well survey included both a database search and a filed reconnaissance. The database search identified 21 properties with permitted wells. No municipal water supply wells were identified within a distance of 0.5 mile from the edge of the plume during the database search.

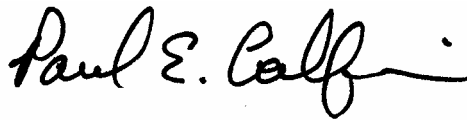
The field reconnaissance confirmed the presence of wells at 17 of the addresses identified during the database search. The addresses of four of the locations identified during the database search could not be located. A list of the water supply and irrigation wells identified during this expanded well survey and the original well survey is provided in Table 2. The locations of the wells are shown on Figure 1. The observation wells identified in Table 1 were omitted from Table 2 and Figure 1 as these are monitoring wells and are not considered water supply or irrigation wells.

Water samples were collected from five of the wells identified during the expanded well survey. The samples were submitted to a laboratory for analysis for VOCs and 1,4-dioxane. The results of the laboratory analysis indicates that the concentrations of COCs were below standard laboratory detection limits in all five samples.

If you have any questions or require any additional information please contact me by phone at (813) 806-0202, or via e-mail at calliganp@ttnus.com.

Sincerely,

TETRA TECH, INC.



Paul E. Calligan, P.G.

Project Manager

Enclosures

cc:

Ron Helgerson, Lockheed Martin

Tina Armstrong, Lockheed Martin

File

TABLES

TABLE 1

**WELLS IDENTIFIED DURING DATABASE SEARCH
EXPANDED WELL SURVEY
FORMER AMERICAN BERYLLIUM COMPANY
TALLEVAST, FLORIDA**

Address	Property Owner	Parcel ID	Well Usage	Comments
1231 Hardin Ave	NA	NA	Observation	Could not locate well. Owner had no knowledge of a well on the property.
1306 Rome Ave	McGarvey, Jill	6658000089	Industrial	Sample collected 7-11-05 @0920
1234 Clyde Jones Rd	Jones Aviation	6844710308	Observation	Observation well - no sample collected
7455 16th St E	Ruben, Wayne M.	1984620003	Irrigation	No spigot or sample port
7580 15th St E/Nations Rent	Revels, Gregory	6657400005	Observation	Could not locate well
7850 15th St E	NA	NA	Observation	Address could not be located. Not listed in the Manatee county property appraisers database
7671 15th St E	Quick Stop	2004110009	Observation	Observation well - no sample collected
7205 15th St E	Sarasota Commerce Center	90000605956	Irrigation	Address could not be located. Not listed in the Manatee county property appraisers database
7300 15th St E	NA	NA	Irrigation	Address could not be located. Not listed in the Manatee county property appraisers database
7260 15th St E	Mader Electric	6651901008	Irrigation	No spigot or sample port
8011 15th St E	Innovation Marine Corp	2022610055	Irrigation	Sample collected 7-6-05 @1030
7741 15th St E/Golf Course	Airport Authority	2021900002	Irrigation	Previously sampled by Tetra Tech
8161 15th St E	CC Prop Acquisition	2022700104	Irrigation	No spigot or sample port
7715 15th St E	NA	NA	Irrigation	Address could not be located. Not listed in the Manatee county property appraisers database
7881 15th St E /Antique shop	Airport Authority	2022300103	Observation	Tetra Tech monitoring well - no sample collected
1250 Commerce Blvd S	Seng, David	6654200002	Observation	Observation well - no sample collected
1309 Hardin Ave	NA	NA	Residential	Sample collected 7-12-05 @1245
7571/7561 15th St E/Animal Hosp	Thomas, Walter G.	1993800000	Residential	Sample collected 7-14-05 @1045
7715 17th St Ct E	Pryor, Lewis	2011000003	Irrigation	Owner declined to have well sampled
2105 Tallevast rd	Boothe, Heidi H.	1985310000	Irrigation	Owner declined to have well sampled
7575 Commerce Ct	Heidi McCullough		Irrigation	No spigot or sample port

NA - Information not available

TABLE 2

**WATER SUPPLY WELL INVENTORY¹
SITE ASSESSMENT REPORT ADDENDUM
FORMER AMERICAN BERYLLIUM COMPANY
TALLEVAST, FLORIDA**

Address	Property Owner	Parcel ID	Well Usage ¹	Sample Collected	Casing Diameter	Depth of Casing	Casing Material	Depth to Water	Total Depth	MAP ID#
Original Well Survey²										
7851 15th Street East/Golf Course	Airport Authority	202210000	Irrigation	Yes	5	250	PVC	NA	480	1
7602 16th Street Court East	Pinkney Hall, Roberta Lamb	2000900056	NA	No	NA	NA	NA	NA	NA	2
7604/7608 16th Street East	Robinson, Willie	2002800106	Domestic	Yes	2	30	Steel	NA	74.5	3
7609 16th Street East	Church of the Living	2001400106	Domestic	Yes	4	30	PVC	15.55	129.5	4
7616 16th Street East	Washington, Wanda	2003100001	Domestic	Yes	3	35	Steel	NA	97	5
7620 16th Street East	Mazon, Dorothy	2003200009	Irrigation	Yes	NA	NA	NA	NA	NA	6
7624 16th Street East	Sloan, Eugene	2003300007	Irrigation	Yes	2	30	Steel	13.21	90.8	7
7621 16th Street East	Peterson, Milton	2001600001	Domestic	Yes	4	37	Steel	15.81	233	8
1709 76th Avenue Drive East	Bryant, Carter	1996700009	Irrigation	Yes	NA	NA	NA	NA	NA	9
1710/1714 76th Avenue Drive East	Bryant, Fred	1995200001, 1994900007	Irrigation	Yes	2	32	Steel	16.4	64	10
7605 17th Street East	Bryant, Linda Joyce	1996400121	NA	No	NA	NA	NA	NA	NA	11
7619 17th Street East	Rowe, Ernestine	1995400007	Irrigation	Yes	1.5	NA	Steel	NA	NA	12
7623 17th Street East	Moore, James	1995600002	Irrigation	No	NA	NA	NA	NA	NA	13
7819 17th Street East	Wesley, Elizabeth	2019900006	Irrigation	Yes	NA	NA	NA	NA	NA	14
7715 17th Street Court East	Pryor, Carolyn	201100000	NA	No	NA	NA	NA	NA	NA	15
7716 17th Street Court East	Davis, Lizzie	2016400000	Irrigation	Yes	3	30	Steel	14.1	30	16
7813 17th Street Court East	Smith, Ervin	2012800005	Irrigation	No	NA	NA	NA	NA	NA	17
7515 18th Street East	Carmichael, Tony	1986701009	Domestic	Yes	2	24	Steel	15.1	24	18
7519 18th Street East	Sims, Essie Mae	1992300002	Domestic	Yes	4	29	Steel	17.41	170.6	19
7609 18th Street East	McKnight, Earnest	1991900158	Domestic	Yes	6	29	Steel	15.3	153	20
7603 18th Street East	McKnight, Earnest	1991900109	Domestic	No	NA	NA	NA	NA	NA	21
7611 18th Street East	Davis, Abram	1987700000	Domestic	Yes	3	67	Steel	15.3	102.2	22
7615 18th Street East	Brown, Sylvester	1988000004, 90000710869	Domestic	Yes	3	28	Steel	15.64	69	23
7619 18th Street East	Bryant, Frank	1987300074	Domestic	Yes	2	37	Steel	16.24	105.6	24
7624 19th Street East	McKnight, Loretta	1992700003	Domestic	Yes	4	32	Steel	16.3	114	25
7600 19th Street East	Wesley, Michael	1991900208	Irrigation	Yes	NA	NA	NA	NA	NA	26
7603 19th Street East	Sloan, Louise	1990400002	Irrigation	Yes	4	31	PVC	14.6	96.4	27
1507 Tallevast Road	Unkown	2004400004	Irrigation	Yes	2	30	Steel	11.9	84	28
1615 Tallevast Road	Ward, Clifford	1997500059	Irrigation	Yes	4	38	Steel	15.3	122	29
1712 Tallevast Road	Pitts, Wyman	2017200003	Irrigation	Yes	2	26	Steel	14.5	26	30
1804 Tallevast Road	Williams, Delores	2007700004	Domestic	Yes	8	40	Steel	15.74	282	31

TABLE 2

**WATER SUPPLY WELL INVENTORY¹
SITE ASSESSMENT REPORT ADDENDUM
FORMER AMERICAN BERYLLIUM COMPANY
TALLEVAST, FLORIDA**

Address	Property Owner	Parcel ID	Well Usage ¹	Sample Collected	Casing Diameter	Depth of Casing	Casing Material	Depth to Water	Total Depth	MAP ID#
Original Well Survey² (continued)										
1808 Tallevast Road	Montgomery, Mary Bryant, William	2007900000 70000914439	NA	No	NA	NA	NA	NA	NA	32
1811 Tallevast Road	Bryant, Joseph	1988400055	Domestic	Yes	2	31	Steel	15.12	77.5	33
1812 Tallevast Road	Ward, Laura	2008200004	Irrigation	No	NA	NA	NA	NA	NA	34
1864 Tallevast Road	Ward, Laura	2008500056	Irrigation	Yes	4	38	Steel	15.1	127	35
1911 Tallevast Road	Black, Daisey	1989400005	Domestic	Yes	NA	NA	NA	NA	NA	36
1955 Tallevast Road	Heathington, Clif	1986100053	Domestic	Yes	NA	NA	NA	NA	NA	37
2003 Tallevast Road	Granderson, Lillian	1986100049	Domestic	Yes	4	34	Steel	12.33	144	38
Expanded Well Survey³										
1234 Clyde Jones Rd	Jones Aviation	6844710308	Observation	No	2	8.5	PVC	NA	18.5	39
7575 Commerce Ct	Heidi McCullough/Commerce Ct LLC	6651000868	Irrigation	No	NA	NA	NA	NA	NA	40
1309 Hardin Ave	Stephen E. Crowe	6657800006	Residential	Yes	NA	NA	NA	NA	NA	41
1306 Rome Ave	McGarvey, Jill & Theodore	6658000089	Industrial	Yes	4	82	PVC	NA	460	42
7205 15th Street East/7455 16th Street East/Bradenton Commerce Center	Nathan Benderson, David H. Baldauf, Randall Benderson 1993-1 Trust, Ronald Benderson, Wayne M. Ruben	1984620003	Irrigation Irrigation	No No	4 5	36 76	Steel PVC	NA NA	235 90	43
7260 15th Street East	Mader Electric	6651901008	Irrigation	No	4	46	Steel	NA	165	44
7741 15th St E/Golf Course	SMAA	2021900002	Irrigation	No	5	221	PVC	NA	360	45
7571/7561 15th St E/Animal Hosp	Thomas, Walter G.	1993800000	Residential	Yes	NA	NA	NA	NA	NA	46
7715 15th Street East/1520 Tallevast Road	SMAA/WHOGAS, Inc (Formerly Spindrift)	2020900003	Irrigation	No	5	3	PVC	NA	18	47
8011 15th Street East	Innovation Marine Corp	2022610055	Irrigation	Yes	5	210	PVC	NA	375	48
8161 15th Street East	Chris Craft Prop Acquisition	2022700104	Irrigation	Yes	2	4	PVC	NA	14	49
7715 17th Street Court East	Pryor, Lewis	2011000003	Irrigation	No	NA	NA	NA	NA	NA	50
2105 Tallevast Road	Boothe, Heidi H.	1985310000	Declined	No	NA	NA	NA	NA	NA	51

1 - Well inventory based on information obtained from Manatee County Environmental Management, FOCUS, SWFWMD, and field reconnaissance

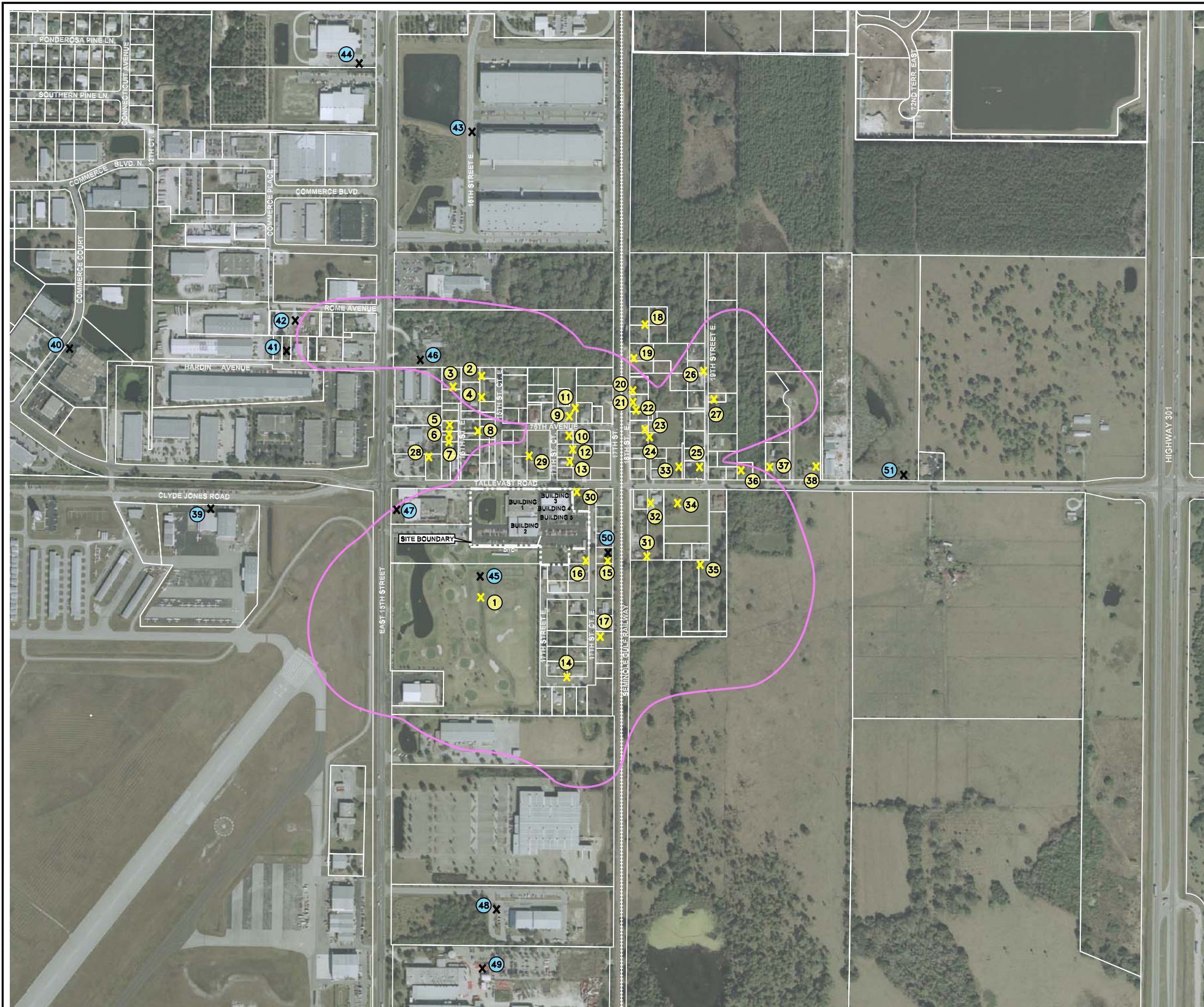
2 - Casing diameter, casing depth and casing material obtained from field reconnaissance and geophysical logging of well

3 - Casing diameter, casing depth and casing material obtained from SWFWMD database

NA - Information not available




SMAA - Sarasota-Manatee Airport Authority

FIGURES



WATER SUPPLY WELL ID	STREET ADDRESS
1	7851 15TH STREET EAST
2	7602 16TH STREET COURT EAST
3	7604/7608 16TH STREET EAST
4	7609 16TH STREET EAST
5	7616 16TH STREET EAST
6	7620 16TH STREET EAST
7	7624 16TH STREET EAST
8	7621 16TH STREET EAST
9	1709 76TH AVENUE DRIVE EAST
10	1710/1714 76TH AVE. DR. EAST
11	7605 17TH STREET EAST
12	7619 17TH STREET EAST
13	7623 17TH STREET EAST
14	7819 17TH STREET EAST
15	7715 17TH STREET COURT EAST
16	7716 17TH STREET COURT EAST
17	7813 17TH STREET COURT EAST
18	7515 18TH STREET EAST
19	7519 18TH STREET EAST
20	7609 18TH STREET EAST
21	7603 18TH STREET EAST
22	7611 18TH STREET EAST
23	7615 18TH STREET EAST
24	7619 18TH STREET EAST
25	7624 19TH STREET EAST
26	7600 19TH STREET EAST
27	7603 19TH STREET EAST
28	1507 TALLEVAST ROAD
29	1615 TALLEVAST ROAD
30	1712 TALLEVAST ROAD
31	1804 TALLEVAST ROAD
32	1808 TALLEVAST ROAD
33	1811 TALLEVAST ROAD
34	1812 TALLEVAST ROAD
35	1864 TALLEVAST ROAD
36	1911 TALLEVAST ROAD
37	1955 TALLEVAST ROAD
38	2003 TALLEVAST ROAD
39	1234 CLYDE JONES ROAD
40	7575 COMMERCE COURT
41	1309 HARDIN AVENUE
42	1306 ROME AVENUE
43	7205 15TH STREET EAST/
44	7455 16TH STREET EAST
45	7620 15TH STREET EAST
46	7571/7561 15TH STREET EAST
47	7715 15TH STREET EAST/
48	1520 TALLEVAST ROAD
49	8011 15TH STREET EAST
50	8161 15TH STREET EAST
51	7715 17TH STREET COURT EAST
51	2105 TALLEVAST ROAD

LEGEND

-  COMPOSITE PLUME BASED ON JUNE AND JULY 2005 SAMPLE RESULTS
-  LOCATION OF WATER SUPPLY WELLS WITHIN 1/4 MILE OF THE KNOWN EXTENT OF IMPACTED GROUNDWATER (WELL ID ASSIGNED AT RANDOM)
-  LOCATION OF WATER SUPPLY WELLS IN THE EXPANDED WELL SURVEY

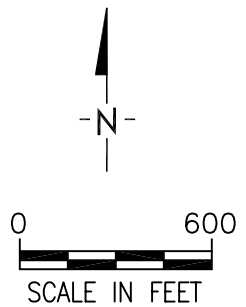


FIGURE 1

APPROVED BY:	P.C.	DATE:	9-15-05
CHECKED BY:	C.F.	SCALE:	1"=600'
PREPARED BY:	C.P.	PROJECT NUMBER:	0507.113



Tetra Tech, Inc.
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WATER SUPPLY WELL LOCATION MAP
 EXPANDED WATER SUPPLY WELL SURVEY REPORT
 FORMER AMERICAN BERYLLIUM COMPANY, TALLEVAST, FLORIDA