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March 28, 2016

Mr. Ron Cope, CHMM, General Manager
Waste Management Division
Solid & Hazardous Waste Section
Environmental Protection Commission of Hillsborough County
Roger P. Stewart Center
3629 Queen Palm Drive
Tampa, Florida 33619

RE: Conditional No Further Action Proposal (CNFAP)
Former Hydraulic Hose/JWH Limited – Former Telco Oil
617-619 South Evers Street, Plant City, Florida
FDEP Facility ID No. 29/8735902
CSI File No. 9680.20A

Dear Mr. Cope:

As authorized, and pursuant to our recent discussions, Chastain-Skillman, Inc. (CSI) is providing this Conditional No Further Action Proposal (CNFAP) for the above-referenced facility. Information within this CNFAP includes:

- An overview of the site rehabilitation activities conducted by others at this facility.
- **Figure 1**, which depicts locations where soil and groundwater samples were collected and submitted for laboratory analysis.
- **Figure 2**, which depicts the inferred extent of the dissolved hydrocarbon plume and proposed institutional control boundary.
- In accordance with 62-780.600(8)(a)27, **Tables 1** through **5**, that list all contaminants detected, their corresponding CTLs and the basis or reason for any alternative CTLs, detection limits achieved for non-detected analytes, and analyses performed, and that summarize all available analytical results.
- An evaluation of F.A.C. 62-780.680 Risk Management Option (RMO) criteria.
- Required documentation for site closure under F.A.C. 62-780.680(3) Risk Management Option (RMO) Level III.

Overview of Site Rehabilitation Activities/Results

1. Underground Storage Tank (UST) Removal (1989) – **Attachment A**

- 5 underground storage tanks (USTs) were removed from two UST locations.
- Approximately 785 tons of combined soil removal/disposal from the two UST locations.

2. HY-TECH Site Assessment Report (SAR) Approved June 1, 1992 – **Attachment B**

- Organic Vapor Analyzer (OVA) only testing at monitoring well and soil boring locations.
- OVA isopach maps depicting soil screening results from 3 to 4 feet below land surface (fbls) and 6 to 7 feet below land surface (fbls).
- Groundwater plume inferred to extend downgradient from source areas toward the northwest.

3. HY-TECH Remedial Action Plan (RAP) Approved May 28, 1993 – **Attachment C**

- Additional OVA only testing in dispenser area at depths of 2 and 4 fbls revealed elevated OVA results and petroleum odors.
- Groundwater data same as SAR.
- Soil excavation and disposal for dispenser area recommended in the RAP.
- Groundwater Pump & Treat system installed in 1994 and operated until deactivated in 1995.

4. HSW Innovative Technology Pilot Program (1999) – **Attachment D**

- Soil borings revealed low OVA readings at selected locations at depths of 5 to 6 fbls.
- Soil sample SB-7 was slightly above above the Leachability to Groundwater Soil Cleanup Target Level (SCTL) at 5 fbls.
- Groundwater impacts identified at source areas and downgradiant to the northwest.

5. Metcalf & Eddy Innovative Sampling Program (2002) – **Attachment E**

- Advanced two soil borings, conducted OVA screening, and collected two soil samples for laboratory analysis. While the OVA readings were elevated at both locations, the analytical results indicated that the analytes tested were all below SCTLs.
- The measured depth to groundwater ranged from 3.68 to 6.68 feet.
- Groundwater analytical results from selected wells continued to identified groundwater impacts at and downgradient from the source areas.

6. Chem-Tel Performance Based Cleanup (PBC) Update (2004 - 2007) – **Attachment F**

- Remediation system installed in 2004 included 5 existing groundwater recovery wells, site excavation and construction of two bio-cells, 14 dewatering points, 10 air sparging points, and two injection points.
- The remediation system started in 2005 and was deactivated in 2007.
- Groundwater impacts continue to be identified at source areas and downgradient to the northwest in 2007, but the overall inferred extent of groundwater plume in 2007 was less than in 1999.
- Chem-Tel released from PBC by FDEP in 2008.

7. PPM Consultants Inc. (PPM) Phase III Soil (2011) – **Attachment G**

- Soil testing from 0 to 2 fbls - low OVA readings and no petroleum odors.
- Soil screening from 2 to 5 fbls - low OVA readings and no petroleum odors.
- Soil screening from > 5 fbls - elevated OVA readings and petroleum odors at dispensers/UST South.
- Estimated depth to water table approximately 6 fbls.
- Five soil samples collected for laboratory analysis: SB-3 at 4 fbls < SCTLs; SB-B at 12 fbls < SCTLs; SB-A at 12 fbls > SCTLs; SB-11 at 3 fbls <SCTLs, and SB-7 at 3 fbls < SCTLs.

8. PPM RAPM (2011) and Source Removal Soil (2012) at UST South – **Attachment H**

- Four (4) soil borings/sample locations
- Soil screening from 0 to 2 fbls - low OVA readings and no petroleum odors.
- Soil screening from 2 to 5 fbls - low OVA readings and no petroleum odors.
- Soil screening from > 5 fbls - elevated OVA readings and faint petroleum odors
- Estimated depth to water table approximately 5 fbls.
- Excavation area 50 x 45 x 14 feet.
- Confirmation samples collected from depths ranging from 9 to 16 fbls, well below water table.

9. PPM's Groundwater Flow Maps (2011 – 2015) – **Attachment I**

- Groundwater Flow Maps (2011 - 2015) – The "groundwater flow" contours depicted on PPM's groundwater flow maps generally indicate the shallow groundwater flow direction within the upper surficial aquifer is as follows: May 2011 – Northwest; October 2012 – West; February 2013 – West to Northwest; August 2013 – Southwest; December 2013 – West; and April 2015 – West to Northwest.

10. PPM's Groundwater Plume Maps (2002 - 2015) – **Attachment J**

- Groundwater Plume Map (2002 - 2008) – The "groundwater plume" contour depicted on PPM's Figure 3 generally includes the approximate lower and central portion of the southeast parcel and extends slightly beyond the southeast parcel boundary to the west.

- Groundwater Plume Map (May/July 2011) – The "groundwater plume" contours on PPM's Figures 7B though 7G generally include the UST area and the area generally downgradient of UST area. In general, the extent of the May/July 2011 "groundwater plume" area has decreased since the 2002 – 2008 "groundwater plume".

- Groundwater Plume Map (July 2012) – The "groundwater plume" contours on PPM's Figures 4B though 4D generally include the UST area and slightly downgradient of UST area. In general, the extent of the July 2012 "groundwater plume" area has continued to decrease since the May/July 2011 "groundwater plume".

- Groundwater Plume Map (Sept 2012 to April 2015) - The "groundwater plume" contour on PPM's Figures 4B is generally around MW-5 and MW-6. While concentrations are increasing at MW-6 from 2011 to 2015, the downgradient sampling location (RW-3) has remained below GCTLs since at least July 2007.

In summary, following completion of source removal activities in 2012, PPM conducted Post Active Remediation Monitoring from 2012 through 2015. As of April 2015, the PARM findings were as follows:

- Groundwater flow was generally to the northwest or west to northwest.
- The depth to groundwater generally ranged from 3 to 6 feet below top of casing.
- Groundwater samples were collected from each monitoring well until the analytical results revealed two consecutive quarters below GTCLs.
- The PARM Report dated February 10, 2014, recommended continuation of PARM as follows: source well (MW-6); perimeter well (MW-5); and downgradient temporary point of compliance well (RW-3).
- Petroleum contaminations of concern were greater than GCTLs at MW-5 and MW-6 during the last sampling event completed in April 2015.
- Petroleum contaminants of concern have been below GCTLs at RW-3 during the last three sampling events completed in 2007, 2011, and 2015.

Evaluation of F.A.C. 62-780.680 Risk Management Option (RMO) criteria

Risk Management Option (RMO) Level I

(a) Free product is not present and no fire or explosive hazard exists as a result of a release of non-aqueous phase liquids.

- There is currently no free product or explosion hazard identified at the subject property.

(b) Contaminated soil is not present in the unsaturated zone, as demonstrated by the analyses of soil samples collected from representative sampling locations (unless the Department has concurred that soil sampling is unnecessary based on the site-specific conditions), that show that one or more of the criteria for direct exposure and one or more of the criteria for leachability are met.

- There is currently no contaminated soil identified at the subject property.

Risk Management Options Level III

(c) Alternative groundwater CTLs have been established by the PRSR depending on the current and projected use of groundwater in the vicinity of the site, and the following criteria are met:

1. Groundwater contaminant concentrations do not exceed the alternative groundwater CTLs established pursuant to paragraph 62-780.650(1)(d), F.A.C. [apportioned, if applicable; refer

to Appendix E of the technical report referenced in subsection 62-780.100(2), F.A.C., for guidance on apportioning groundwater CTLs], and the plume has not affected, and will not affect, a freshwater or marine surface water body pursuant to subparagraph 62-780.680(1)(c)2., F.A.C., and;

2. It has been demonstrated to the Department by a minimum of one year of groundwater monitoring data and, if applicable, fate and transport modeling results, that the plume is stable or shrinking, and groundwater contaminant concentrations at the institutional control boundary do not, and will not, exceed the appropriate groundwater CTLs pursuant to paragraph 62-780.680(1)(c), F.A.C., and, if applicable, the appropriate surface water CTLs pursuant to paragraph 62-780.680(1)(d), F.A.C.

- In accordance with paragraph 62-780.650(1)(d), F.A.C., the justification for alternative CTLs shall be based upon the site-specific characteristics affecting the site. In establishing the alternative CTLs for groundwater, the following factors shall be used, as applicable: calculations using a lifetime excess cancer risk level of 1.0E-6 and a hazard index of 1 or less, and (for groundwater only) nuisance, organoleptic, and aesthetic considerations. The justification shall be based on the site-specific characteristics that affect the site and the exposure assessment, toxicity assessment, and risk characterization pursuant to paragraphs 62-780.650(1)(a)-(c), F.A.C.

- The groundwater concentrations of petroleum products' contaminants of concern will not exceed the alternative groundwater CTLs established pursuant to paragraph 62-780.650(1)(d), F.A.C. based upon the proposed implementation of an institutional control to restrict the future use of groundwater. This conclusion is based upon the following information from Chapter 62-777 F.A.C. and the Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C. dated February 2005:

    - The equations utilized for deriving site specific groundwater cleanup target levels for carcinogens and non-carcinogens in accordance with 62-777 F.A.C. are included in **Attachment K**. As indicated, these equations utilize a default average water consumption rate of 2 liters/day. However, the proposed measures to eliminate the groundwater exposure pathway should effectively reduce the average daily consumption to zero. As such, the derivation of AGCTLs utilizing these equations is not applicable to the proposed site rehabilitation strategy.

    - RMO Level III allows for the derivation of AGCTLs that allow limited contact with groundwater. However, the derivation of AGCTLs to allow for limited contact with groundwater is not applicable to the proposed site rehabilitation strategy.

- Since the proposed site rehabilitation strategy will not allow the use or contact with groundwater at the subject property, the "calculation" of AGCTLs does not appear to be warranted. As such, the establishment of AGCTLs using the groundwater monitoring data documented within this CNFAP would appear to be appropriate for this facility.

- The groundwater assessment data summarized in Item 9 above indicates that groundwater concentrations of petroleum products' contaminants of concern at the institutional control boundary do not, and will not, exceed the appropriate groundwater CTLs pursuant to paragraph 62-780.680(1)(d), F.A.C.

Conclusions and Recommendations

The following conclusions are based upon the site assessment, source removal, active remediation, and post active remediation monitoring activities conducted by others and summarized within this CNFAP:

- There is currently no free product or explosion hazard identified at the subject property.
- There is currently no contaminated soil identified at the subject property.
- The remaining area of groundwater contamination appears to meet the F.A.C. 62-780.680(3) Risk Management Options (RMO) Level III criteria.

As such, it is recommended that closure of this site be conducted under RMO Level III pursuant to applicable provisions of Rule 62-780.680(3), F.A.C. as follows:

- The proposed institutional control boundary (**Figure 2**) for the RMO III closure shall include the source area parcel identified as Folio 208697-0000 and the adjacent downgradient parcel identified as Folio 208694-0000. As indicated in **Appendix L**, both parcels are owned by the Community Redevelopment Agency (CRA) of the City of Plant City and have access to the City of Plant City public water system.
- In accordance with FDEP's Site Closure with Conditions Memorandum dated November 1, 2013, Plant City Ordinance Article II, Division 1, Sections 74-31 and 74-32, will be the governmental control utilized as an alternative institutional control to provide the necessary degree of restriction to the remaining petroleum-contaminated groundwater associated with this facility (**Appendix M**).

If you have any questions or require additional information, please contact our office at your earliest convenience.

Sincerely,

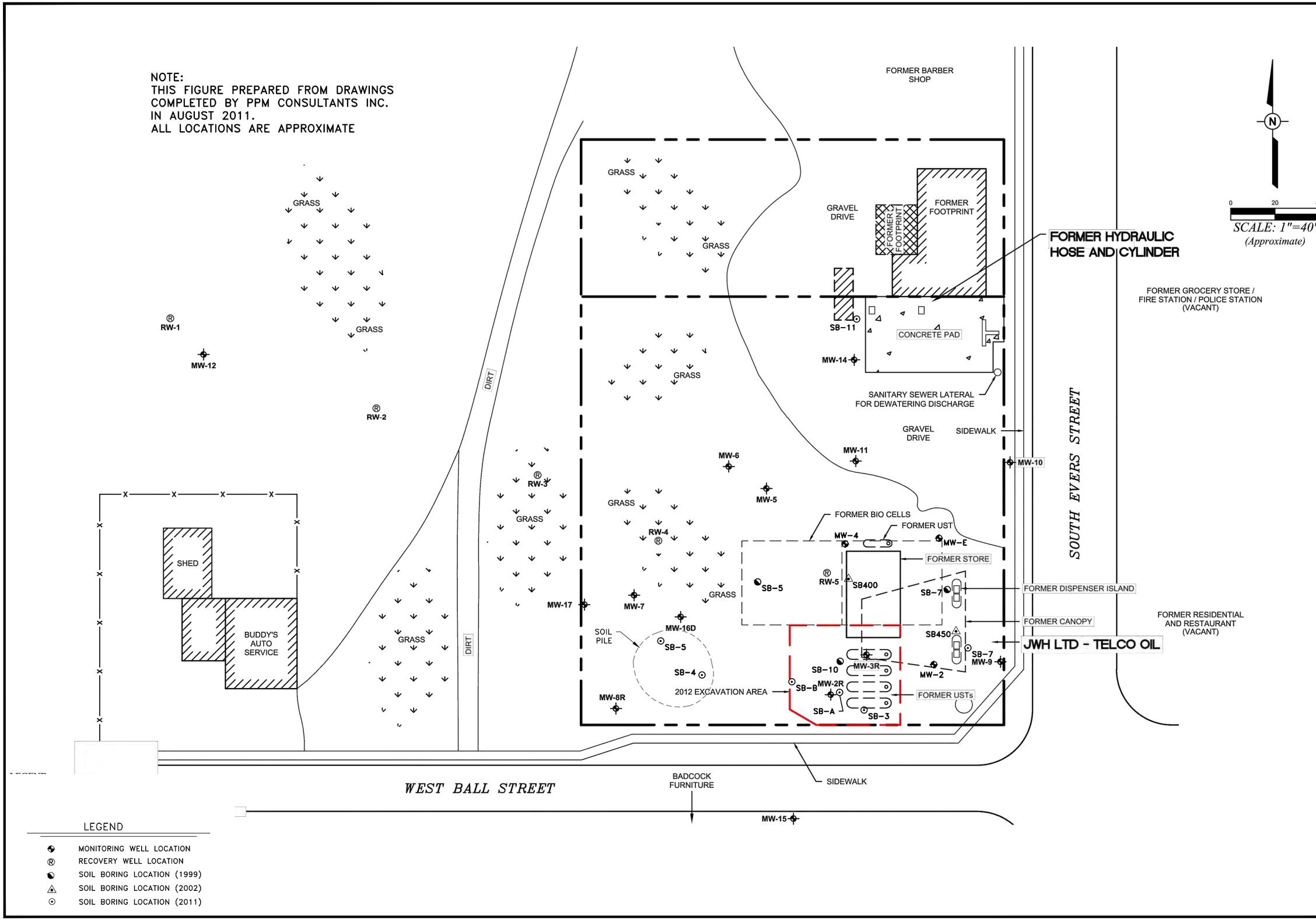
CHASTAIN-SKILLMAN, INC.

Charles Browning, PG
Senior Project Manager

Greg J. Lassi, PG, MPH (seal) 3-28-16
Principal/Hydrogeology
& Environmental Risk

xc: Michael A. Schenk, PE, City Engineer, City of Plant City
Kenneth W. Buchman, City Attorney, City of Plant City
Frank Hearne, Esquire

NOTE:
THIS FIGURE PREPARED FROM DRAWINGS COMPLETED BY PPM CONSULTANTS INC. IN AUGUST 2011.
ALL LOCATIONS ARE APPROXIMATE



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C.A. No. 262

REVISION DESCRIPTION	REVISION DATE	REVISION NO.
	/ /	

REV.	DATE:
P-0	01/20/16

DRAWN BY: BLF

CITY OF PLANT CITY
RISK MANAGEMENT OPTION EVALUATION

SAMPLE LOCATIONS

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PROJECT NO. 9680.20A

SHEET NO. FIGURE 1

P:\9680.20A\CAD\Risk\9680.20A-16-CBB-SITE.dwg FIG 1 Feb 05, 2016 3:48pm by: bfisher

NORTH

0 50' 100'

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REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	/ /	

REV.	DATE:
P-0	02/05/16

DRAWN BY: BLF

CITY OF PLANT CITY
RISK MANAGEMENT OPTION EVALUATION

PROPOSED INSTITUTIONAL CONTROL BOUNDARY

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PROJECT NO. 9680.20A

SHEET NO. FIGURE 2

P:\9680.20A\CAD\Risk\9680.20A-16-CBB-SITE.dwg FIG 2 Feb 08, 2016 11:05am by: blisher

TABLE 1: SOIL ANALYTICAL SUMMARY - VOAs, TRPHs and Metals

Facility ID#: 29/8735902 **Facility Name: Former JWH LTD/ Telco Gas Station**

See notes at end of table.

Sample				OVA	Laboratory Analyses										
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Benzene (mg/kg)	Ethyl-benzene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TRPHs (mg/kg)	Arsenic (mg/kg)	Cad-mium (mg/kg)	Chro-mium (mg/kg)	Lead (mg/kg)	Comments
SB-5	12/15/99		5		0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	4.8 U					
SB-7	12/15/99		5		0.028 U	0.067	0.028 U	0.028 U	0.028 U	80.8					
SB-10	12/15/99		3		0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	4.9 U					
SB-400	01/14/02		5		0.001 U	0.001 U	0.001	0.002 U	0.00616	2.88					
SB-450	01/14/02		5		0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	4.88					
					Former Gas Station Assessment Soil Samples										
SB-3	05/05/11		4	37.8	0.000536 U	0.000143 U	0.00106 U	0.00306	0.000186 U	28.3					
SB-7	05/05/11		3	0.4	0.000463 U	0.000124 U	0.000916 U	0.000160 U	0.000161 U	5.86 I					
					Former Hydraulic Hose and Cylinder Assessment Soil Samples										
SB-11	05/06/11		3	0	0.000398 U	0.000106 U	0.000786 U	0.000346 U	0.000138 U	19.3					
					Soil borings for RAP at Former Gas Station - Saturated Soil Samples										
SB-A	06/29/11		12	31302	0.203 U	17.5	0.401 U	0.305 I	0.0702 U						
SB-B	06/29/11		12	954.2	0.0675 U	0.00180 U	0.0133 U	0.0147 U	0.0235 U						
					Soil Pile Characterization Samples										
SB-4	05/05/11		10	0.3	0.000536 U	0.000122 U	0.000903 U	0.000158 U	0.000159 U	9.04					
SB-5	05/05/11		10	0.2	0.000485 U	0.000130 U	0.000958 U	0.000168 U	0.000168 U	7.67					
					Duplicate Samples										
SS-Dup	05/06/11		4	37.8	0.000442 U	0.00118 U	0.00875 U	0.00232	0.000154 U	19.3					
Leachability Based on Groundwater Criteria (mg/kg)					0.007	0.6	0.5	0.2	0.09	340	*	7.5	38	*	
Direct Exposure Residential (mg/kg)					1.2	1,500	7,500	130	4,400	460	2.1	82	210	400	

Notes: NA = Not Available. NS = Not Sampled.

U = Analyte not detected at or above the Method Detection Limit.

I = Result is between the Practical Quantitation Limit and the Method Detection Limit.

D = Result is from a diluted sample. Dilution factor included in the result.

TABLE 2: SOIL ANALYTICAL SUMMARY - Non-Carcinogenic PAHs

Facility ID#: 29/8735902 **Facility Name:** Former JWH LTD/ Telco Gas Station

See notes at end of table.

Sample				OVA	Laboratory Analyses											
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Naph-thalene (mg/kg)	1-Methyl-naph-thalene (mg/kg)	2-Methyl-naph-thalene (mg/kg)	Acen-aph-thene (mg/kg)	Acen-aph-thylene (mg/kg)	Anthra-cene (mg/kg)	Benzo (g,h,i) pery-lene (mg/kg)	Fluoran-thene (mg/kg)	Fluor-ene (mg/kg)	Phenan-threne (mg/kg)	Pyrene (mg/kg)	Comments
SB-5	12/15/99		5		0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	
SB-7	12/15/99		5		1.790	1.130	0.695	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	
SB-10	12/15/99		3		0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	
SB-400	01/14/02		5		0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	
SB-450	01/14/02		5		0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	0.330 U	
					Former Gas Station Assessment Soil Samples											
SB-3	05/05/11		4	37.8	0.000921 U	0.000973 U	0.000832 U	0.000732 U	0.00256 U	0.000832 U	0.000716 U	0.00128 U	0.00164 U	0.000894 U	0.00405 U	
SB-7	05/05/11		3	0.4	0.000865 U	0.000914 U	0.000781 U	0.00068 U	0.00240 U	0.000781 U	0.00144 I	0.00120 U	0.00154 U	0.000840 U	0.000592 U	
					Former Hydraulic Hose and Cylinder Assessment Soil Samples											
SB-11	05/06/11		3	0	0.000875 U	0.000924 U	0.000790 U	0.000696 U	0.00243 U	0.000790 U	0.000680 U	0.00121 U	0.00156 U	0.000849 U	0.000599 U	
					Soil borings for RAP at Former Gas Station - Saturated Soil Samples											
SB-A	06/29/11		12	31302	11.7	16	31.2	0.0761	0.0357 U	0.0416 U	0.0321 U	0.0452 U	0.111	0.0682	0.0392 U	
SB-B	06/29/11		12	954.2	0.028 U	0.036 U	0.0374 U	0.0294 U	0.0401 U	0.0467 U	0.0360 U	0.0507 U	0.0307 U	0.0427 U	0.0441 U	
					Soil Pile Characterization Samples											
SB-4	05/05/11		10	0.3	0.000824 U	0.000870 U	0.000744 U	0.000655 U	0.0029 U	0.000744 U	0.000640 U	0.00114 U	0.00147 U	0.000800 U	0.000564 U	
SB-5	05/05/11		10	0.2	0.000838 U	0.000885 U	0.000756 U	0.000666 U	0.00233 U	0.000756 U	0.000651 U	0.00116 U	0.00149 U	0.000813 U	0.000573 U	
					Duplicate Samples											
SS-Dup	05/06/11		4	37.8	0.000905 U	0.000956 U	0.000818 U	0.000720 U	0.00251 U	0.000818 U	0.000704 U	0.00461 I	0.00161 U	0.000879 U	0.00754	
Leachability Based on Groundwater Criteria (mg/kg)					1.2	3.1	8.5	2.1	27	2,500	32,000	1,200	160	250	880	
Direct Exposure Residential (mg/kg)					55	200	210	2,400	1,800	21,000	2,500	3,200	2,600	2,200	2,400	

Notes: NA = Not Available. NS = Not Sampled.

U = Analyte not detected at or above the Method Detection Limit.

I = Result is between the Practical Quantitation Limit and the Method Detection Limit.

D = Result is from a diluted sample. Dilution factor included in the result.

TABLE 3: SOIL ANALYTICAL SUMMARY - Carcinogenic PAHs

Facility ID#: **29/8735902** **Facility Name:** **Former JWH LTD/ Telco Gas Station** **See notes at end of table.**

Sample				OVA	Laboratory Analyses								
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Benzo (a) pyrene (mg/kg)	Benzo (a) anthra-cene (mg/kg)	Benzo (b) fluoran-thene (mg/kg)	Benzo (k) fluoran-thene (mg/kg)	Chry-sene (mg/kg)	Dibenz (a,h) anthra-cene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	Benzo (a) pyrene equivalent (mg/kg)	Comments
SB-5	12/15/99		5		0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	
SB-7	12/15/99		5		0.110 U	0.110 U	0.110 U	0.110 U	0.110 U	0.110 U	0.110 U	0.110 U	
SB-10	12/15/99		3		0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	
SB-400	01/14/02		5		0.100 U	0.330 U	0.330 U	0.330 U	0.330 U	0.100 U	0.330 U		
SB-450	01/14/02		5		0.100 U	0.330 U	0.330 U	0.330 U	0.330 U	0.100 U	0.330 U		
					Former Gas Station Assessment Soil Samples								
SB-3	05/05/11		4	37.8	0.000545 U	0.000848 U	0.000602 U	0.000671 U	0.000705 U	0.000787 U	0.000731 U		
SB-7	05/05/11		3	0.4	0.00132 I	0.000796 U	0.00152 I	0.000851 I	0.000662 U	0.000739 U	0.00123 I	0.002	
					Former Hydraulic Hose and Cylinder Assessment Soil Samples								
SB-11	05/06/11		3	0	0.000518 U	0.000805 U	0.000572 U	0.000637 U	0.000670 U	0.000747 U	0.000694 U		
					Soil Borings for RAP at Former Gas Station- Saturated Soil Samples								
SB-A	06/29/11		12	31302	0.0297 U	0.0333 U	0.0238 U	0.0392 U	0.0273 U	0.0321 U	0.0404 U		
SB-B	06/29/11		12	954.2	0.0334 U	0.0374 U	0.0267 U	0.0267 U	0.0307 U	0.0360 U	0.0454 U		
					Soil Pile Samples								
SB-4	05/05/11		10	0.3	0.000487 U	0.000758 U	0.000538 U	0.000600 U	0.00630 U	0.000704 U	0.000654 U		
SB-5	05/05/11		10	0.2	0.000495 U	0.000771 U	0.000547 U	0.000610 U	0.00641 U	0.000715 U	0.000664 U		
					Duplicate Soil Samples								
SS-Dup	05/06/11		4	37.8	0.000536 U	0.000833 U	0.000591 U	0.000659 U	0.000693 U	0.000773 U	0.000718 U		
Leachability Based on Groundwater Criteria (mg/kg)					8	0.8	2.4	24	77	0.7	6.6	**	
Direct Exposure Residential (mg/kg)					0.1	#	#	#	#	#	#	0.1	

Notes: NA = Not Available. NS = Not Sampled. # = Direct Exposure value not applicable except as part of the Benzo(a)pyrene equivalent.

** = Leachability value not applicable.

U = Analyte not detected at or above the Method Detection Limit.

I = Result is between the Practical Quantitation Limit and the Method Detection Limit.

D = Result is from a diluted sample. Dilution factor included in the result.

TABLE 4: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility ID#: 29/8735902 **Facility Name: Former JWH LTD/ Telco Gas Station** **See notes at end of table.**

Sample Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total VOAs (µg/L)	MTBE (µg/L)	EDB (µg/L)	1,2-Di-chloro-ethane (µg/L)	Total Arsenic (µg/L)	Total Cad-mium (µg/L)	Total Chro-mium (µg/L)	Total Lead (µg/L)
MW-1													
(2-12)	09/04/91	1,188	7,270	1,128	5,910	15,498	50 U	20 U	20 U	10 U	10 U	50 U	13
MW-2		Removed during soil excavation activities in July 2012											
(2-12)	07/05/12	6.65	2.55	581	19.8	610	2.14 U			7.02	1.10 U	2.60 U	6.03
	05/10/11	10.4	4.03 U	1,130	36.0	1,176	9.20 U	0.00372 U					4.7 U
	08/28/08	2.80	7.0	880	310	1,200							
	09/27/07	14	46	1,200	820	2,080	2.2 U						
	07/18/07	2.9	2.5	150	37.0	192	0.44 U						
	03/22/06	84.0	36.0	900	1,100	2,120	4.6 U						
	03/11/04	170	50.0	45	61.0	326	173						
	01/15/02	290	45.6	820	755.3	1,911	1.6						
	12/09/99	1,080	360	2,460	2,420	6,320	50 U						
	09/04/91	4,174	10,256	2,547	10,500	27,477	361	20 U	20 U	10 U	20	370	420
MW-2R	12/03/13	0.23 U	0.20 U	0.20 U	0.22 U	U	0.28 U						
(2-12)	08/22/13	0.23 U	0.20 U	0.20 U	0.22 U	U	0.28 U						
	02/06/13	1.00	0.20 U	0.20 U	0.22 U	1.00	0.28 U						
	09/27/12	0.56 I	0.61 I	0.20 U	0.22 U	1.17 I	0.28 U						
MW-3		Removed during soil excavation activities in July 2012											
(2-12)	07/05/12	66.8	2.6	316	6.25	392	2.14 U						
	05/10/11	18.6	1.50	350	82	452	2.30 U	0.00373 U					4.7 U
	09/26/07	1.4	9.4	13	57	81	0.44 U						
	12/09/99	290	255	1,090	1,522	3,157	25 U						
	09/04/91	320	1,326	332	2,098	4,076	40 U	10 U	10 U	10 U	10 U	50 U	5
MW-3R	12/03/13	0.23 U	0.20 U	0.20 U	0.22 U	U							
(2-12)	08/22/13	0.46 I	0.20 U	0.31 I	0.22 U	0.77 I							
	02/06/13	0.84 I	0.20 U	0.20 U	0.22 U	0.84 I							
	09/27/12	1.70	0.20 U	0.20 U	0.22 U	1.7							
MW-4													
(2-12)	09/04/91	18	97	30	240	385	10 U	10 U	10 U	10 U	10 U	50 U	5 U
MW-5	04/10/15	0.20 U	0.40 U	28.3	11	39	0.30 U						
(2-12)	12/03/13	0.23 U	0.20 U	4.2	0.22 U	4.20	0.28 U						
	05/11/11	0.249 U	0.201 U	9.72	0.26 U	9.72	0.46 U	0.00369 U					4.7 U
	09/26/07	1.4	2.8	99	140	243	0.44 U						
	12/14/99	22.8	245	275	680	1,223	10 U						
	12/10/99	54.5	880	535	1,810	3,280	25 U						
	09/04/91	60.6	195.0	10 U	496.0	752	10 U	5 U	5 U	10 U	10 U	50 U	5 U
MW-E													
(2-12)	09/04/91	1,157	6,676	1,165	5,912	14,910	50 U	20 U	20 U	10 U	10 U	50 U	35
MW-6	04/10/15	1.0 U	2.0 U	456	90.9	547	1.5 U						
(2-12)	01/17/14	0.23 U	1.0	300	76 V	377	0.28 U						
	12/03/13	0.23 U	1.1	370	130	501	0.28 U						
	05/11/11	0.249 U	0.201 U	22.1	2.3	24.4	0.460 U	0.00366 U					4.7 U
	09/26/07	5 U	190	1,100	2,800	4,090	4.4 U						
	12/14/99	64.5	695	690	3,355	4,179	25 U						
	11/27/91	54	720	82	1,700	2,556	50 U	0.02 U	50 U				23

TABLE 4: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility ID#: 29/8735902 **Facility Name: Former JWH LTD/ Telco Gas Station** **See notes at end of table.**

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total VOAs (µg/L)	MTBE (µg/L)	EDB (µg/L)	1,2-Di-chloro-ethane (µg/L)	Total Arsenic (µg/L)	Total Cad-mium (µg/L)	Total Chro-mium (µg/L)	Total Lead (µg/L)
MW-7 (2-12)	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	U	0.460 U	0.00370 U					4.7 U
	09/26/07	0.50 U	0.51 U	0.44 U	0.96 U	U	0.44 U						
	12/14/99	520	8.0	900	295.5	1,724	25 U						
	12/10/99	520	9.5	735	245.0	1,510	25 U						
	11/27/91	1,500	130	560	1700	3,890	50 U	0.02 U	50 U				5 U
MW-8 (2-12)		Lost, previously buried under former soil pile at southwest corner of site											
	09/26/07	7.2	1.4 I	240	140	389	0.88 U						
	01/15/02	22.9	1 U	48.7	30.8	102	1 U						
	12/10/99	375	17.0	685	497.5	1237	25 U						
	11/27/91	890	50 U	250	680	1820	50 U	0.02 U	50 U				5 U
MW-8R (2-12)	12/03/13	0.23 U	0.20 U	0.20 U	0.52 I	0.5	0.28 U						
	07/07/11	0.437 I	0.233 I	3.34	0.22 U	4	0.460 U						
MW-9 (2-12)	12/03/13	0.23 U	0.20 U	0.20 U	0.22 U	U	0.28 U						
	05/10/11	0.249 U	1.09	15.2	4.40	20.7	0.460 U	0.00374 U					4.7 U
	09/26/07	3.5	21	330	290	645	0.88 U						
	01/14/02	1 U	1 U	2.99	2.79	5.8	1 U						
	12/10/99	1.0 U	1.0 U	12.2	5.9	12.9	5 U						
	11/27/91	1 U	1 U	1 U	1 U	U	1 U	0.02 U	1 U				5 U
MW-10 (2-12)	12/03/13	0.23 U	0.20 U	0.20 U	0.22 U	U	0.28 U						
	05/10/11	0.249 U	0.201 U	0.201 U	0.676 U	U	0.460 U	0.00372 U					4.7 U
	09/26/07	9.6	50	1,100	1,100	2,260	1.8 U						
	01/14/02	1 U	1 U	1 U	2 U	U	1 U						
	11/27/91	1 U	1 U	1 U	1 U	U	1 U	0.02 U					5 U
MW-11 (2-12)	12/03/13	0.23 U	0.20 U	0.20 U	0.22 U	U	0.28 U						
	05/10/11	0.249 U	0.201 U	0.201 U	0.676 U	U	0.460 U	0.00373 U					4.7 U
	09/26/07	3.0	23	240	330	596	0.44 U						
	01/14/02	1 U	1 U	1 U	2 U	U	1.12						
	11/27/91	9	52	36	220	317	5 U	0.02 U	5 U				5 U
MW-12 (2-12)	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	U	0.460 U	0.00368 U					4.7 U
	07/18/07	0.69	0.51 U	5.5	1.7	7.2	0.44 U						
	03/22/06	4.30	0.8	32.0	18.0	55.1	0.46 U						
	03/24/04	13.0	5.7 U	83.0	73.0	169	9.1						
	12/14/99	105	6.8	460	1,160.4	1,637	10 U						
	02/18/92	154.0	22.0	73.0	221.0	470	5 U	0.02 U	0.03 U				
MW-13		Destroyed or lost											
	01/14/02	1 U	1 U	1 U	2 U	U	1.13						
	02/18/92	0.20 U	0.20 U	0.20 U	0.20 U	U	0.20 U	0.02 U	0.03 U				1.0
MW-14 (2-12)	05/10/11	0.249 U	0.201 U	0.210 U	0.676 U	U	0.460 U	0.00370 U					4.7 U
	01/14/02	1 U	1 U	1 U	2 U	U	1.22						
	02/18/92	0.20 U	0.20 U	0.20 U	0.20 U	U	0.20 U	0.02 U	0.03 U				

TABLE 4: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility ID#: 29/8735902 **Facility Name: Former JWH LTD/ Telco Gas Station** **See notes at end of table.**

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total VOAs (µg/L)	MTBE (µg/L)	EDB (µg/L)	1,2-Di-chloro-ethane (µg/L)	Total Arsenic (µg/L)	Total Cad-mium (µg/L)	Total Chro-mium (µg/L)	Total Lead (µg/L)
MW-15 (2-12)	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	U	0.460 U	0.00365 U					4.7 U
	01/14/02	1 U	1 U	1 U	2 U	U	1 U						
	02/18/92	0.20 U	0.20 U	0.20 U	0.20 U	U	0.20 U	0.02 U	0.03 U				
MW-16D (18-23)		Lost, presumed destroyed during soil excavation activities in July 2012											
	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	U	0.460 U	0.00308 U					4.7 U
	01/15/02	1 U	1 U	1 U	2 U	U	1 U						
	12/14/99	1 U	1 U	1 U	2 U	U	5 U						
	02/18/92	12.5	1.0 U	3.6	10.8	27	0.20 U	0.02 U	0.03 U				1.3
MW-17 (2-12)	07/07/11	0.249 U	0.234 I	0.210 U	0.26 U	0.234 I	0.460 U						
RW-1 (1.8-6.8)	05/12/11	0.249 U	0.201 U	0.201 U	0.26 U	U	0.460 U	0.00377 U					4.7 U
	09/26/07	0.50 U	0.51 U	0.44 U	0.96 U	U	0.44 U						
	01/14/02	1.46	1 U	5.80	5.29	12.6	1 U						
	12/14/99	59.6	82.6	275	92.2	509	5 U						
RW-2 (0-7.3)	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	U	0.460 U	0.00371 U					4.7 U
	01/14/02	1 U	1 U	1 U	2 U	U	1 U						
	12/14/99	8.4	1.0 U	15.8	2.0	26	5 U						
RW-3 (0-7.0)	04/10/15	0.20 U	0.40 U	0.20 U	0.51 U	U	0.30 U						
	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	U	0.460 U	0.00344 U					4.7 U
	07/18/07	0.5 U	0.51 U	8.9	1.20	10.1	0.44 U						
	03/22/06	7.0	12.0	270	190	479	2.3 U						
	03/11/04	2.2	5 U	85.0	14.0	101	5 U						
	01/15/02	1 U	1 U	21.1	5.70	27	1 U						
	12/10/99	17.4	2.0 U	175	60.8	253	10 U						
RW-4 (0-8.0)	05/11/11	0.249 U	0.201 U	8.00	0.48	8.50	0.460 U	0.00368 U					4.7 U
	08/28/08	0.28	0.3 U	23.0	0.7	24							
	07/18/07	0.5 U	0.51 U	6.90	18.0	25	0.44 U						
	03/22/06	20.0	21.0	310	2,200	2,551	4.6 U						
	03/11/04	110.0	29.0	1,200	1,700	3,039	6.4						
	01/15/02	121	87.8 I	1,520	2,459	4,188	100 U						
	12/10/99	320	430	1,980	5,380	8,110	50 U						
RW-5 (0-7.0)	05/12/11	0.85	0.201 U	23.9	0.26 U	24.8	0.460 U	0.00369 U					4.7 U
	08/28/08	0.35	0.41	2.9	5.4	9							
	07/18/07	0.5 U	1.0	0.0	21.0	22	0.44 U						
	03/22/06	15.0	39.0	320	2,200	2,574	4.6 U						
	03/11/04	860	3,000	2,400	6,900	13,160	U						
	01/15/02	2,250	4,570	2,675	8,350	17,845	100 U						
	12/10/99	2,490	4,050	3,200	7,370	17,110	500 U						
GCTLs		1**	40**	30**	20**	NA	20	0.02**	3**	10**	5**	100**	15**
NADCs		100	400	300	200	NA	200	2	300	100	50	1,000	150

Notes: U = Analyte not detected at or above the Method Detection Limit.

I = Result is between the Practical Quantitation Limit and the Method Detection Limit.

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

** = As provided in Chapter 62-550, F.A.C.

TABLE 5: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility ID#: 29/8735902 **Facility Name :** Former JWH LTD/ Telco Gas Station

See notes at end of table.

Sample Location	Sample Date	TRPHs (µg/L)	Naph-thalene (µg/L)	1-Methyl-naph-thalene (µg/L)	2-Methyl-naph-thalene (µg/L)	Acen-aph-thene (µg/L)	Acen-aph-thylene (µg/L)	Anthra-cene (µg/L)	Benzo (g,h,i) pery-lene (µg/L)	Fluoran-thene (µg/L)	Fluor-ene (µg/L)	Phenan-threne (µg/L)	Pyrene (µg/L)	Benzo (a) pyrene (µg/L)	Benzo (a) anthra-cene (µg/L)	Benzo (b) fluoran-thene (µg/L)	Benzo (k) fluoran-thene (µg/L)	Chry-sene (µg/L)	Dibenz (a,h) anthra-cene (µg/L)	Indeno (1,2,3-cd) pyrene (µg/L)
MW-2		Removed during soil excavation activities in July 2012																		
	07/05/12		145	14.3	24.3	1.12 U	0.869 U	0.883 U	0.443 U	1.13 U	0.920 U	1.32 U	1.15 U	0.399 U	0.453 U	0.435 U	0.456 U	0.449 U	0.443 U	0.445 U
	05/10/11	2700	293.0	51.7	101.0	0.508 U	0.685 U	0.724 U	1.00 U	1.03 U	5.78	1.43 U	0.580 U	0.647 U	2.30 U	1.64 U	0.495 U	0.495 U	0.202 U	0.867 U
	08/28/08		120	130	81															
	09/27/07		1.7 I	6.5	7.0	0.50 U	0.25 U	0.076 U	0.10 U	0.054 U	0.50 U	0.20 U	0.089 U	0.057 U	0.050 U	0.050 U	0.057 U	0.069 U	0.050 U	0.050 U
	07/18/07		63.0	10.0	19.0	0.5 U	0.25 U	0.076 U	0.1 U	0.054 U	0.05 U	0.2 U	0.089 U	0.057 U	0.05 U	0.05 U	0.057 U	0.069 U	0.05 U	0.05 U
	03/22/06		200	33.0	70.0	0.071 U	28	0.06 U	0.084 U	0.067 U	0.069 U	0.34	0.056 U	0.072 U	0.054 U	0.075 U	0.075 U	0.062 U	0.13 U	0.079 U
	03/11/04		120	27.0	47.0	1.0 U	44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.2 U	1.20 U
	01/15/02		218	60.1	106	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
	12/09/99	2600	215	60	32	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
MW-2R	12/04/13		0.043 I	0.027 U	0.026 U	0.029 U	0.022 U	0.020 U	0.012 U	0.0020 U	0.031 U	0.027 U	0.022 U	0.0092 U	0.011 U	0.0071 U	0.017 U	0.010 U	0.011 U	0.011 U
	08/22/13		0.097 I	0.029 U	0.031 I	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.023 U	0.0094 U	0.011 U	0.0073 U	0.018 U	0.010 U	0.011 U	0.011 U
	02/06/13		0.17	0.11	0.16	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.023 U	0.0094 U	0.011 U	0.0073 U	0.018 U	0.010 U	0.011 U	0.011 U
	09/27/12		0.21	0.082 I	0.14	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.023 U	0.0094 U	0.011 U	0.0073 U	0.018 U	0.010 U	0.011 U	0.011 U
MW-3		Removed during soil excavation activities in July 2012																		
	07/05/12		1.13 I	19.8	18.7	0.238	0.0435 U	0.0442 U	0.0221 U	0.0564 U	0.135 I	0.0708 I	0.0575 U	0.0199 U	0.0227 U	0.0218 U	0.0228 U	0.0225 U	0.0221 U	0.0223 U
	05/10/11	1900	29.3	46.4	95.1	0.508 U	0.685 U	0.724 U	1.00 U	1.03 U	7.14	1.43 U	0.580 U	0.647 U	2.30 U	1.64 U	0.495 U	0.495 U	0.202 U	0.867 U
	09/26/07		26	96	180	5.0 U	2.5 U	0.76 U	1.0 U	0.54 U	5.0 U	2.0 U	0.89 U	0.57 U	0.50 U	0.50 U	0.57 U	0.69 U	0.50 U	0.50 U
	12/09/99	900	99	19	12	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-3R	12/03/13		0.067 I	0.027 U	0.026 U	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.022 U	0.0094 U	0.011 U	0.0073 U	0.018 U	0.010 U	0.011 U	0.011 U
	08/22/13		0.12 I	0.030 U	0.035 I	0.030 U	0.023 U	0.021 U	0.013 U	0.021 U	0.032 U	0.028 U	0.023 U	0.0096 U	0.012 U	0.0074 U	0.018 U	0.011 U	0.012 U	0.012 U
	02/06/13		0.042 I	0.028 U	0.025 U	0.028 U	0.022 U	0.020 U	0.012 U	0.020 U	0.030 U	0.026 U	0.022 U	0.0091 U	0.011 U	0.0071 U	0.017 U	0.010 U	0.011 U	0.011 U
	09/27/12		0.077 I	0.044 I	0.064 I	0.029 U	0.022 U	0.020 U	0.012 U	0.020 U	0.031 U	0.027 U	0.022 U	0.0092 U	0.011 U	0.0071 U	0.017 U	0.010 U	0.011 U	0.011 U
MW-4	09/04/91	21900	1.80 U	1.80 U	2.30 U	1.80 U	2.30 U	0.66 U	0.08 U	0.21 U	0.21 U	0.64 U	0.27 U	0.02 U	0.02 U	0.02 U	0.02 U	0.15 U	0.03 U	0.04 U
MW-5	04/10/15		16.5	0.90	0.76 I	0.31 U	0.31 U	0.19 U	0.031 U	0.19 U	0.19 U	0.19 U	0.19 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U
	12/03/13		0.89	0.042 I	0.026 U	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.023 U	0.0094 U	0.011 U	0.0073 U	0.018 U	0.010 U	0.011 U	0.011 U
	08/22/13		4.4	0.51	0.65	0.029 U	0.023 U	0.021 U	0.013 U	0.021 U	0.032 U	0.027 U	0.023 U	0.0095 U	0.012 U	0.0074 U	0.018 U	0.011 U	0.012 U	0.012 U
	02/06/13		0.078 I	0.036 I	0.036 I	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.023 U	0.0093 U	0.011 U	0.0072 U	0.018 U	0.010 U	0.011 U	0.011 U
	09/27/12		5.0	0.89	0.71	0.028 U	0.022 U	0.020 U	0.012 U	0.020 U	0.030 U	0.026 U	0.022 U	0.0091 U	0.011 U	0.0071 U	0.017 U	0.010 U	0.011 U	0.011 U
	07/06/12		0.0099 U	0.110 U	0.0577 U	0.0112 U	0.00869 U	0.00883 U	0.00443 U	0.0113 U	0.00920 U	0.0132 U	0.0115 U	0.00399 U	0.00453 U	0.00435 U	0.00456 U	0.00449 U	0.00443 U	0.00445 U
	05/24/11		26.7	3.17	4.68	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
	05/11/11	150 U																		
	09/26/07		30	46	96	5.0 U	2.5 U	0.76 U	1.0 U	0.54 U	5.0 U	2.0 U	0.89 U	0.57 U	0.50 U	0.50 U	0.57 U	0.69 U	0.50 U	0.50 U
	12/14/99	300	21	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	12/10/99	500	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	09/04/91	17400	1.80 U	1.80 U	2.30 U	1.80 U	2.30 U	0.66 U	0.08 U	0.21 U	0.21 U	0.64 U	0.27 U	0.02 U	0.02 U	0.02 U	0.02 U	0.15 U	0.03 U	0.04 U
MW-E	09/04/91	8600	423.0	48.1	79.8	1.80 U	2.30 U	0.66 U	0.08 U	0.21 U	0.21 U	0.64 U	0.27 U	0.02 U	0.02 U	0.02 U	0.02 U	0.15 U	0.03 U	0.04 U

TABLE 5: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility ID#: 29/8735902 **Facility Name :** Former JWH LTD/ Telco Gas Station

See notes at end of table.

Sample Location	Sample Date	TRPHs (µg/L)	Naph-thalene (µg/L)	1-Methyl-naph-thalene (µg/L)	2-Methyl-naph-thalene (µg/L)	Acen-aph-thene (µg/L)	Acen-aph-thylene (µg/L)	Anthra-cene (µg/L)	Benzo (g,h,i) pery-lene (µg/L)	Fluoran-thene (µg/L)	Fluor-ene (µg/L)	Phenan-threne (µg/L)	Pyrene (µg/L)	Benzo (a) pyrene (µg/L)	Benzo (a) anthra-cene (µg/L)	Benzo (b) fluoran-thene (µg/L)	Benzo (k) fluoran-thene (µg/L)	Chry-sene (µg/L)	Dibenz (a,h) anthra-cene (µg/L)	Indeno (1,2,3-cd) pyrene (µg/L)
MW-6	04/10/15		240	41.4	62.6	0.31 U	0.31 U	0.19 U	0.031 U	0.19 U	0.19 U	0.19 U	0.19 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U
	01/17/14		110	11	17	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.023 U	0.0094 U	0.011 U	0.0073	0.018 U	0.010 U	0.011 U	0.011 U
	12/03/13		130	18	22	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.023 U	0.0093 U	0.011 U	0.0072 U	0.018 U	0.010 U	0.011 U	0.011 U
	05/24/11		0.0680	1.15	0.111	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
	05/11/11	150 U																		
	09/26/07		440	46 I	98 I	25 U	13 U	3.8 U	5.0 U	2.7 U	25 U	10 U	4.5 U	2.9 U	2.5 U	2.5 U	2.9 U	3.5 U	2.5 U	2.5 U
	12/14/99	1900	185	50	30	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
MW-7	12/03/13		0.059 I	0.027 U	0.026 U	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.023 U	0.0093 U	0.011 U	0.0072 U	0.018 U	0.010 U	0.011 U	0.011 U
	08/22/13		0.052 I	0.028 U	0.025 U	0.028 U	0.022 U	0.020 U	0.012 U	0.020 U	0.030 U	0.026 U	0.022 U	0.0091 U	0.011 U	0.0071 U	0.017 U	0.010 U	0.011 U	0.011 U
	02/06/13		33	24	43	0.030 U	0.023 U	0.021 U	0.013 U	0.021 U	0.032 U	0.028 U	0.023 U	0.0096 U	0.012 U	0.0074 U	0.018 U	0.011 U	0.012 U	0.012 U
	09/27/12		0.20	0.068 I	0.15	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.023 U	0.0093 U	0.011 U	0.0072 U	0.018 U	0.010 U	0.011 U	0.011 U
	07/06/12		4.39	2.36	3.16	0.0147 I	0.00869 U	0.00883 U	0.00443 U	0.0113 U	0.0106 I	0.0132 U	0.0115 U	0.00399 U	0.00453 U	0.00435 U	0.00456 U	0.00449 U	0.00443 U	0.00445 U
	05/24/11		33.4	1.2	23.9	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
	05/12/11	150 U																		
	09/26/07		400	96 I	190 I	50 U	25 U	7.6 U	10 U	5.4 U	50 U	20 U	8.9 U	5.7 U	5.0 U	5.0 U	5.7 U	6.9 U	5.0 U	5.0 U
	12/14/99	600	73	12	14	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	12/10/99	800	59	7	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
		Lost, previously buried under former large soil pile at southwest corner of site																		
MW-8	09/26/07		160	39	69	5.0 U	2.5 U	0.76 U	1.0 U	0.54 U	5.0 U	2.0 U	0.89 U	0.57 U	0.50 U	0.50 U	0.57 U	0.69 U	0.50 U	0.50 U
	01/15/02		48.4	5 U	10.5	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
	12/10/99	900	80	12	16	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-8R	12/03/13		0.037 U	0.031 U	0.030 U	0.033 U	0.026 U	0.024 U	0.014 U	0.024 U	0.036 U	0.031 U	0.026 U	0.011 U	0.013 U	0.0083 U	0.020 U	0.012 U	0.013 U	0.013 U
	07/07/11		0.0138 U	0.0161 U	0.0142 U	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
MW-9	12/03/13		0.30	1.9	0.026 U	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.023 U	0.0093 U	0.011 U	0.0072 U	0.018 U	0.010 U	0.011 U	0.011 U
	05/10/11	150 U	4.53	3.64	3.23	0.0102 U	0.0137 U	0.0145 U	0.0200 U	0.0206 U	0.00696 U	0.0287 U	0.0116 U	0.0129 U	0.0461 U	0.0328 U	0.00990 U	0.00990 U	0.00404 U	0.0173 U
	09/26/07		96	27	67	5.0 U	2.5 U	0.76 U	1.0 U	0.54 U	5.0 U	2.0 U	0.89 U	0.57 U	0.50 U	0.50 U	0.57 U	0.69 U	0.50 U	0.50 U
	01/14/02		5 U	5 U	5 U	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
	12/10/99	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-10	12/03/13		0.031 U	0.026 U	0.026 I	0.028 U	0.022 U	0.020 U	0.012 U	0.020 U	0.030 U	0.026 U	0.022 U	0.0091 U	0.011 U	0.0071 U	0.017 U	0.010 U	0.011 U	0.011 U
	05/10/11	150 U	0.214	0.0152 U	0.281	0.0102 U	0.0137 U	0.0145 U	0.0200 U	0.0206 U	0.00696 U	0.0287 U	0.0116 U	0.0129 U	0.0461 U	0.0328 U	0.00990 U	0.00990 U	0.00404 U	0.0173 U
	09/26/07		340	16	26	10 U	5.0 U	1.5 U	2.0 U	1.1 U	10 U	4.0 U	1.8 U	1.1 U	1.0 U	1.0 U	1.1 U	1.4 U	1.0 U	1.0 U
	01/14/02		5 U	5 U	5 U	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
	11/27/91	1000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 5: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility ID#: 29/8735902 **Facility Name :** Former JWH LTD/ Telco Gas Station

See notes at end of table.

Sample Location	Sample Date	TRPHs (µg/L)	Naph-thalene (µg/L)	1-Methyl-naph-thalene (µg/L)	2-Methyl-naph-thalene (µg/L)	Acen-aph-thene (µg/L)	Acen-aph-thylene (µg/L)	Anthra-cene (µg/L)	Benzo (g,h,i) pery-lene (µg/L)	Fluoran-thene (µg/L)	Fluor-ene (µg/L)	Phenan-threne (µg/L)	Pyrene (µg/L)	Benzo (a) pyrene (µg/L)	Benzo (a) anthra-cene (µg/L)	Benzo (b) fluoran-thene (µg/L)	Benzo (k) fluoran-thene (µg/L)	Chry-sene (µg/L)	Dibenz (a,h) anthra-cene (µg/L)	Indeno (1,2,3-cd) pyrene (µg/L)
MW-11	12/03/13		0.032 U	0.027 U	0.026 U	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.023 U	0.0094 U	0.011 U	0.0073 U	0.018 U	0.010 U	0.011 U	0.011 U
	05/10/11	150 U	0.146	0.0858	0.141	0.0102 U	0.0137 U	0.0145 U	0.0200 U	0.0206 U	0.00696 U	0.0287 U	0.0116 U	0.0129 U	0.0461 U	0.0328 U	0.00990 U	0.00990 U	0.00404 U	0.0173 U
	09/26/07		120	75	160	5.0 U	2.5 U	0.76 U	1.0 U	0.54 U	5.0 U	2.0 U	0.89 U	0.57 U	0.50 U	0.50 U	0.57 U	0.69 U	0.50 U	0.50 U
	01/14/02		5.55 U	5.55 U	5.55 U	3.33 U	3.33 U	0.333 U	0.222 U	0.333 U	5.55 U	5.55 U	0.333 U	0.222 U	0.222 U	0.222 U	0.555 U	1.11 U	0.222 U	0.222 U
	11/27/91	1000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
MW-12	05/25/11		4.58	0.368	0.610	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
	05/12/11	150 U																		
	07/18/07		9.3	0.61	0.82	0.5 U	0.25 U	0.076 U	0.1 U	0.054 U	0.05 U	0.2 U	0.089 U	0.057 U	0.05 U	0.05 U	0.057 U	0.069 U	0.05 U	0.05 U
	03/22/06		22.0	2.5	3.2	0.069 U	1.60	0.058 U	0.061 U	0.065 U	0.067 U	0.064 U	0.055 U	0.070 U	0.053 U	0.059 U	0.073 U	0.060 U	0.13 U	0.077 U
	03/24/04		30.0	4.9	8.6	1.0 U	11.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
	12/14/99	500	81	6	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
		Destroyed or Lost																		
MW-13	01/14/02		5 U	5 U	5 U	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
MW-14	05/10/11	150 U	0.0657	0.0152 U	0.115	0.0102 U	0.0137 U	0.0145 U	0.0200 U	0.0206 U	0.00696 U	0.0287 U	0.0116 U	0.0129 U	0.0461 U	0.0328 U	0.00990 U	0.00990 U	0.00404 U	0.0173 U
	01/14/02		5 U	5 U	5 U	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
	02/18/92		1.80 U	2.30 U	1.80 U	1.80 U	2.30 U	0.66 U	0.08 U	0.21 U	0.21 U	0.64 U	0.27 U	0.02 U	0.02 U	0.02 U	0.02 U	0.15 U	0.03 U	0.04 U
MW-15	05/25/11		0.266	0.249	0.779	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
	05/12/11	150 U																		
	01/14/02		5 U	5 U	5 U	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
		Lost, presumed destroyed during soil excavation activities in July 2012																		
MW-16D	05/24/11		0.0565	0.0161 U	0.0142 U	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
	05/12/11	150 U																		
	01/15/02		5 U	5 U	5 U	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
	12/14/99	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-17	07/07/11		0.204	0.0161 U	0.0142 U	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
RW-1	05/25/11		1.118	0.0161 U	0.0142 U	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
	05/12/11	150 U																		
	09/26/07		3.5	0.55 I	0.57 I	0.50 U	0.25 U	0.076 U	0.10 U	0.054 U	0.50 U	0.20 U	0.089 U	0.057 U	0.050 U	0.050 U	0.057 U	0.069 U	0.050 U	0.050 U
	01/14/02		5 U	5 U	5 U	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
	12/14/99	300	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
RW-2	05/25/11		0.114	0.162	0.0351	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
	05/12/11	150 U																		
	01/14/02		5 U	5 U	5 U	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
	12/14/99	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 5: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility ID#: 29/8735902 **Facility Name : Former JWH LTD/ Telco Gas Station**

See notes at end of table.

Sample Location	Sample Date	TRPHs (µg/L)	Naph-thalene (µg/L)	1-Methyl-naph-thalene (µg/L)	2-Methyl-naph-thalene (µg/L)	Acen-aph-thene (µg/L)	Acen-aph-thylene (µg/L)	Anthra-cene (µg/L)	Benzo (g,h,i) pery-lene (µg/L)	Fluoran-thene (µg/L)	Fluor-ene (µg/L)	Phenan-threne (µg/L)	Pyrene (µg/L)	Benzo (a) pyrene (µg/L)	Benzo (a) anthra-cene (µg/L)	Benzo (b) fluoran-thene (µg/L)	Benzo (k) fluoran-thene (µg/L)	Chry-sene (µg/L)	Dibenz (a,h) anthra-cene (µg/L)	Indeno (1,2,3-cd) pyrene (µg/L)
RW-3	04/10/15		0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.19 U	0.031 U	0.19 U	0.19 U	0.19 U	0.19 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U
	05/24/11		0.0791	0.108	0.0416	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
	05/12/11	150 U																		
	07/18/07		0.25 U	0.5 U	0.5 U	0.5 U	0.25 U	0.076 U	0.1 U	0.054 U	0.05 U	0.2 U	0.089 U	0.057 U	0.05 U	0.05 U	0.057 U	0.069 U	0.05 U	0.05 U
	03/22/06		46.00	7.3	15.00	0.069 U	4.50	0.058 U	0.061 U	0.065 U	0.067 U	0.064 U	0.055 U	0.070 U	0.053 U	0.059 U	0.073 U	0.060 U	0.13 U	0.077 U
	03/11/04		18.0	2.1	2.3	1.0 U	7.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
	01/15/02		5 U	5 U	5 U	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
	12/10/99	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
RW-4	05/24/11		0.319	13.2	6.05	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
	05/11/11	150 U																		
	08/28/08		0.031 U	0.099	0.057															
	07/18/07		0.25 U	11.0	1.8	0.5 U	0.25 U	0.076 U	0.1 U	0.054 U	0.05 U	0.2 U	0.089 U	0.057 U	0.05 U	0.05 U	0.057 U	0.069 U	0.05 U	0.05 U
	03/22/06		98.0	28.0	57.00	14.00	0.092 U	0.059 U	0.082 U	0.065 U	0.067 U	0.25	0.055 U	0.071 U	0.053 U	0.060 U	0.074 U	0.061 U	0.13 U	0.078 U
	03/11/04		160.0	27.0	64.00	1.0 U	53.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
	01/15/02		158	28.6	49.1	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
	12/10/99	1800	5 U	27	57	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
RW-5	12/03/13		8.1	1.4	0.71	0.14	0.022 U	0.020 U	0.012 U	0.020 U	0.11 I	0.69 I	0.022 U	0.0091 U	0.011 U	0.0071 U	0.017 U	0.010 U	0.011 U	0.011 U
	08/22/13		0.032 U	0.029 U	0.026 U	0.029 U	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.027 U	0.023 U	0.0094 U	0.011 U	0.0073 U	0.018 U	0.010 U	0.011 U	0.011 U
	02/06/13		120	35	46	0.20	0.023 U	0.021 U	0.012 U	0.021 U	0.031 U	0.16	0.023 U	0.0093 U	0.011 U	0.0072 U	0.018 U	0.010 U	0.011 U	0.011 U
	09/27/12		0.78	0.028 U	0.025 U	0.028 U	0.022 U	0.020 U	0.012 U	0.020 U	0.030 U	0.026 U	0.022 U	0.0090 U	0.011 U	0.0070 U	0.017 U	0.010 U	0.011 U	0.011 U
	07/05/12		5.86	1.54	1.37	0.0112 U	0.00869 U	0.00883 U	0.00443 U	0.0113 U	0.0106 I	0.0299 I	0.0115 U	0.00399 U	0.00453 U	0.00435 U	0.00456 U	0.00449 U	0.00443 U	0.00445 U
	05/24/11		49.9	18.1	17.0	0.0108 U	0.0145 U	0.0154 U	0.0212 U	0.0218 U	0.00738 U	0.0304 U	0.0123 U	0.0137 U	0.0488 U	0.0348 U	0.0105 U	0.0105 U	0.00428 U	0.0184 U
	05/12/11	150 U																		
	08/28/08		0.031 U	0.028 U	0.025 U															
	07/18/07		1.8	4.8	1.6	0.5 U	0.25 U	0.076 U	0.1 U	0.054 U	0.05 U	0.2 U	0.089 U	0.057 U	0.05 U	0.05 U	0.057 U	0.069 U	0.05 U	0.05 U
	03/22/06		7.4	25.0	14.0	0.57	14.00	0.059 U	0.083 U	0.066 U	0.068 U	0.31	0.056 U	0.072 U	0.054 U	0.060 U	0.075 U	0.061 U	0.13 U	0.078 U
	03/11/04		200	52.0	110.0	1.0 U	68.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
	01/15/02		239	58.9	90.3	3 U	3 U	0.3 U	0.2 U	0.3 U	5 U	5 U	0.3 U	0.2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U
	12/10/99	2800	70	49	77	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05[a]	0.05[a]	0.5	4.8	0.005[a]	0.05[a]
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5

Notes: U = Analyte not detected at or above the Method Detection Limit. I = Result is between the Practical Quantitation Limit and the Method Detection Limit. D = Result is from a diluted sample.

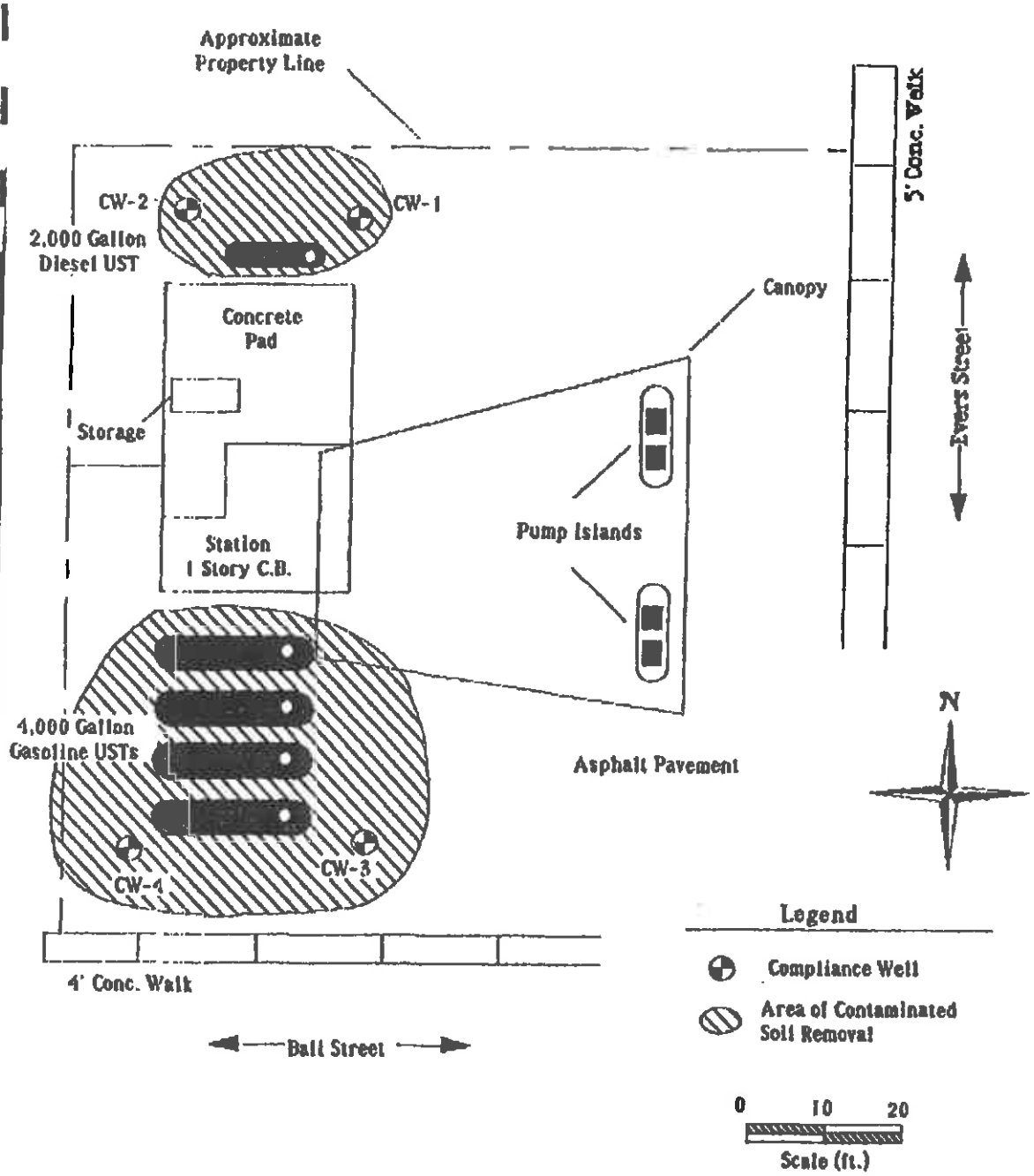
GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C. NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

** = As provided in Chapter 62-550, F.A.C.

[a] = See the October 12, 2004 "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits" to determine how to evaluate data when the CTL is lower than the PQL.

Underground Storage Tank (UST) Removal (1989)

Attachment A

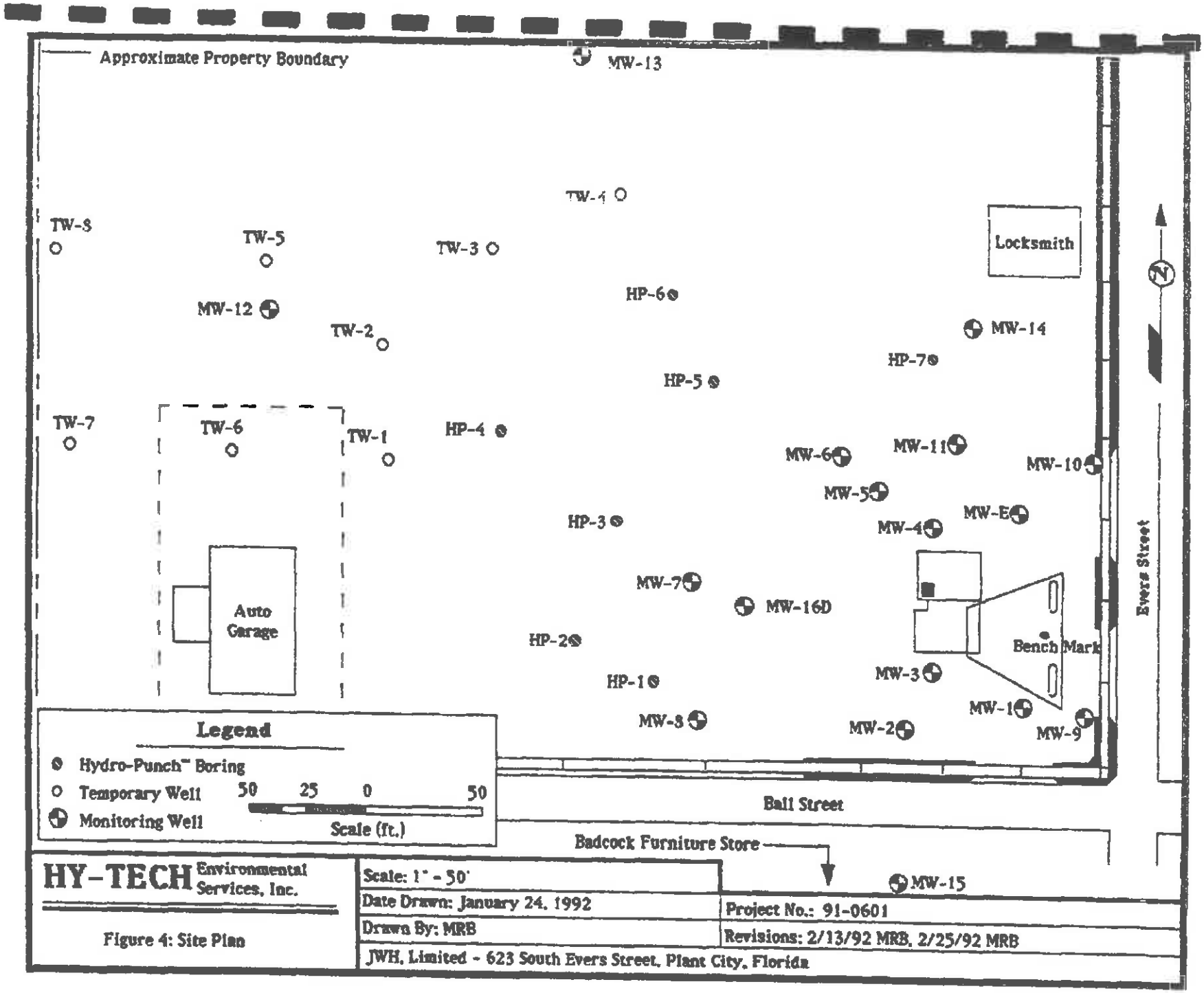


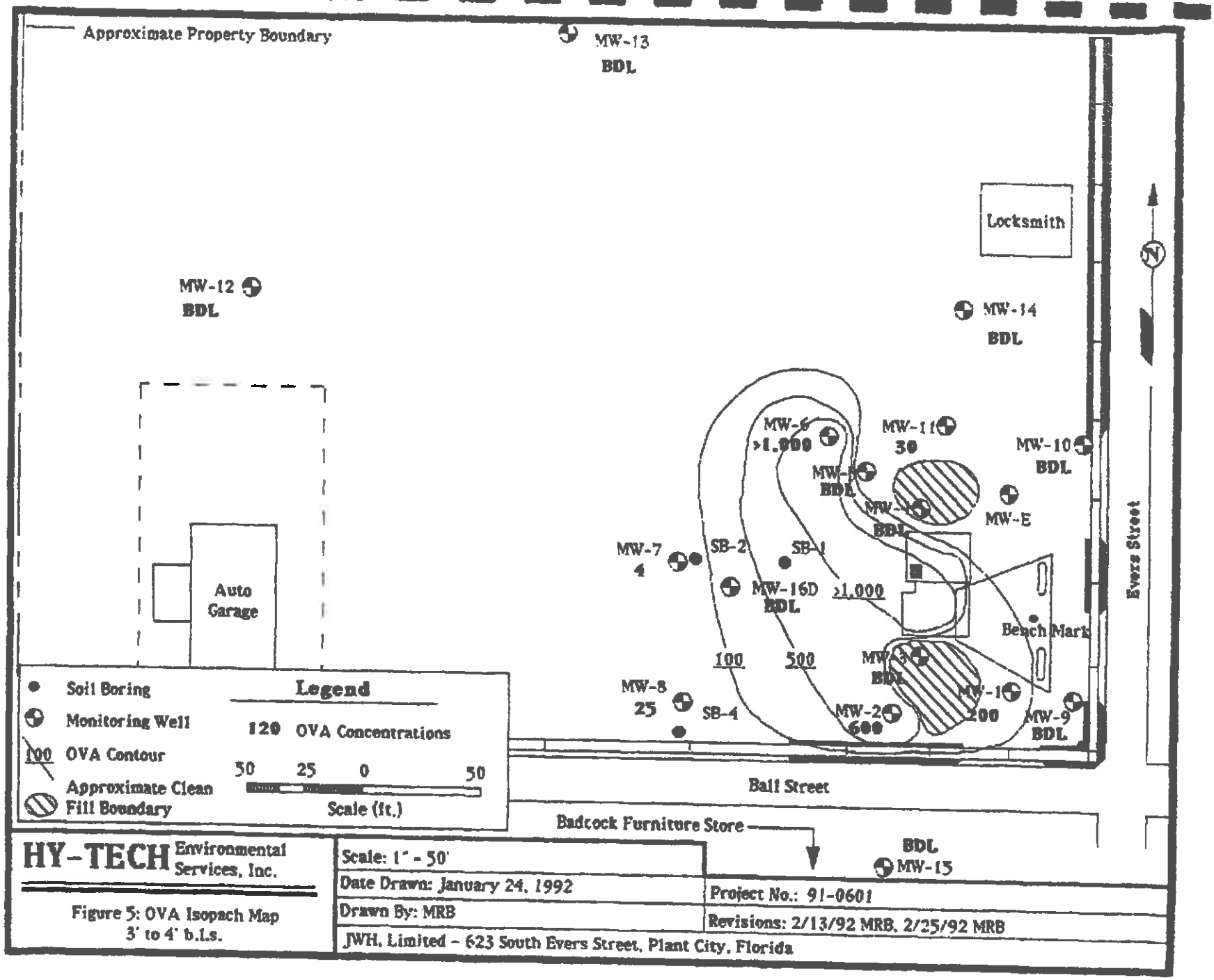
HY-TECH Environmental Services, Inc.	Scale: 1" = 20'	Project No.: 91-0601
	Date Drawn: 9/26/91	Revisions: N/A
Figure 3: Pre-IRA Site Plan	Drawn By: MRB	

JWH Limited (Telco Service Station): 623 South Evers Street, Plant City, Florida

HY-TECH Site Assessment Report (SAR)
Approved June 1, 1992

Attachment B


Approximate Property Boundary
MW-13
TW-4
TW-8
TW-5
TW-3
Locksmith
HP-6
MW-12
TW-2
MW-14
HP-7
HP-5
TW-7
TW-6
TW-1
HP-4
MW-6
MW-11
MW-10
MW-5
MW-E
HP-3
MW-4
Auto Garage
MW-7
MW-16D
HP-2
Bench Mark
MW-3
HP-1
MW-1
MW-8
MW-2
MW-9
Evers Street
Legend
Hydro-Punch™ Boring
Temporary Well
Monitoring Well
50 25 0 50
Scale (ft.)
Ball Street
Badcock Furniture Store
MW-15
HY-TECH Environmental Services, Inc.
Figure 4: Site Plan
Scale: 1" = 50'
Date Drawn: January 24, 1992
Drawn By: MRB
Project No.: 91-0601
Revisions: 2/13/92 MRB, 2/25/92 MRB
JWH, Limited - 623 South Evers Street, Plant City, Florida


Approximate Property Boundary
MW-13
BDL
Locksmith
MW-12
BDL
MW-14
BDL
Auto Garage
MW-6
>1,000
MW-11
30
MW-10
BDL
MW-5
BDL
MW-3
BDL
MW-E
MW-7
4
SB-2
SB-1
MW-16D
BDL
>1,000
Bench Mark
100
500
MW-4
BDL
MW-8
25
SB-4
MW-2
600
MW-1
200
MW-9
BDL
Evers Street
Ball Street
Badcock Furniture Store
BDL
MW-15
Legend
Soil Boring
Monitoring Well
100 OVA Contour
Approximate Clean Fill Boundary
120 OVA Concentrations
50 25 0 50
Scale (ft.)
HY-TECH Environmental Services, Inc.
Figure 5: OVA Isopach Map
3' to 4' b.l.s.
Scale: 1" = 50'
Date Drawn: January 24, 1992
Drawn By: MRB
Project No.: 91-0601
Revisions: 2/13/92 MRB, 2/25/92 MRB
JWH, Limited - 623 South Evers Street, Plant City, Florida

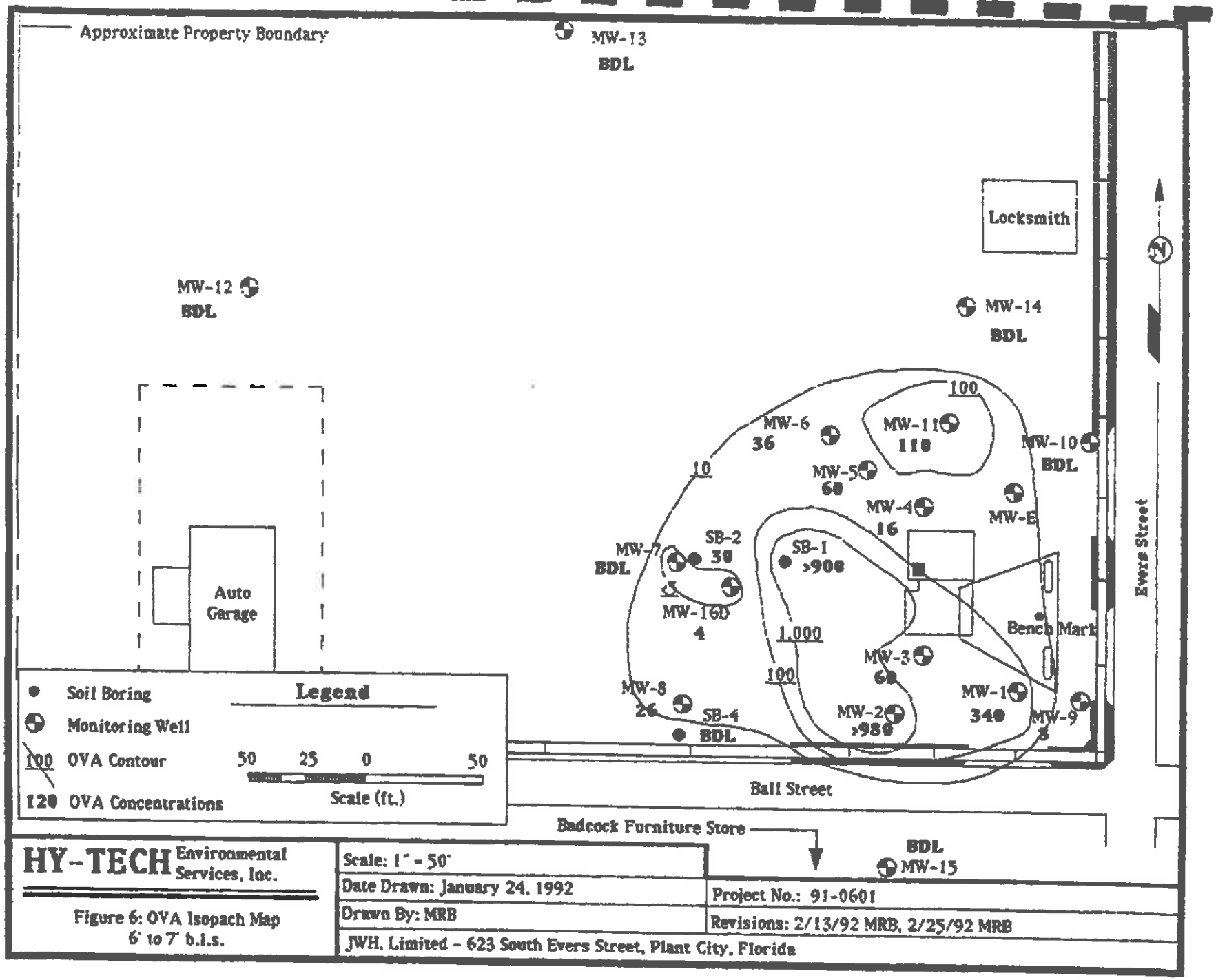
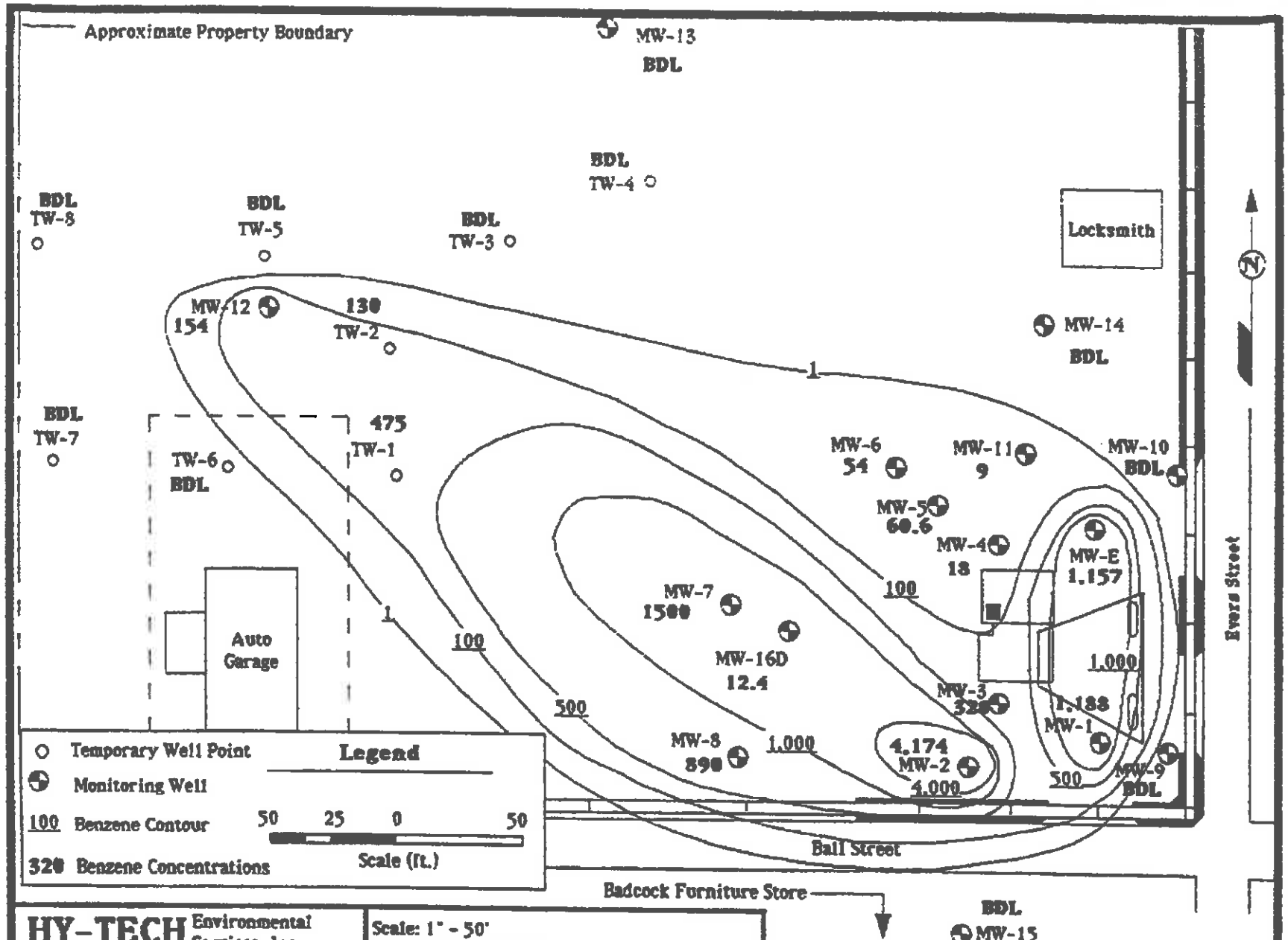


Figure 6: OVA Isopach Map
6' to 7' b.l.s.


Approximate Property Boundary
MW-13
BDL
BDL
TW-4
BDL
TW-8
BDL
TW-5
BDL
TW-3
Locksmith
MW-12
154
130
TW-2
MW-14
BDL
1
BDL
TW-7
475
TW-1
TW-6
BDL
MW-6
54
MW-11
9
MW-10
BDL
MW-5
60.6
MW-4
18
MW-E
1,157
100
MW-7
1500
MW-16D
12.4
1
100
Auto
Garage
1,000
MW-3
320
1,188
MW-1
500
MW-8
890
1,000
4,174
MW-2
4,000
500
MW-9
BDL
Evers Street
Ball Street
Badcock Furniture Store
BDL
MW-15
Legend
Temporary Well Point
Monitoring Well
100 Benzene Contour
320 Benzene Concentrations
50 25 0 50
Scale (ft.)
HY-TECH Environmental Services, Inc.
Figure 11: Benzene Concentration Plume Map
Scale: 1" = 50'
Date Drawn: January 24, 1992
Drawn By: MRB
Project No.: 91-0601
Revisions: 2/13/92 MRB, 2/25/92 MRB
JWH, Limited - 623 South Evers Street, Plant City, Florida

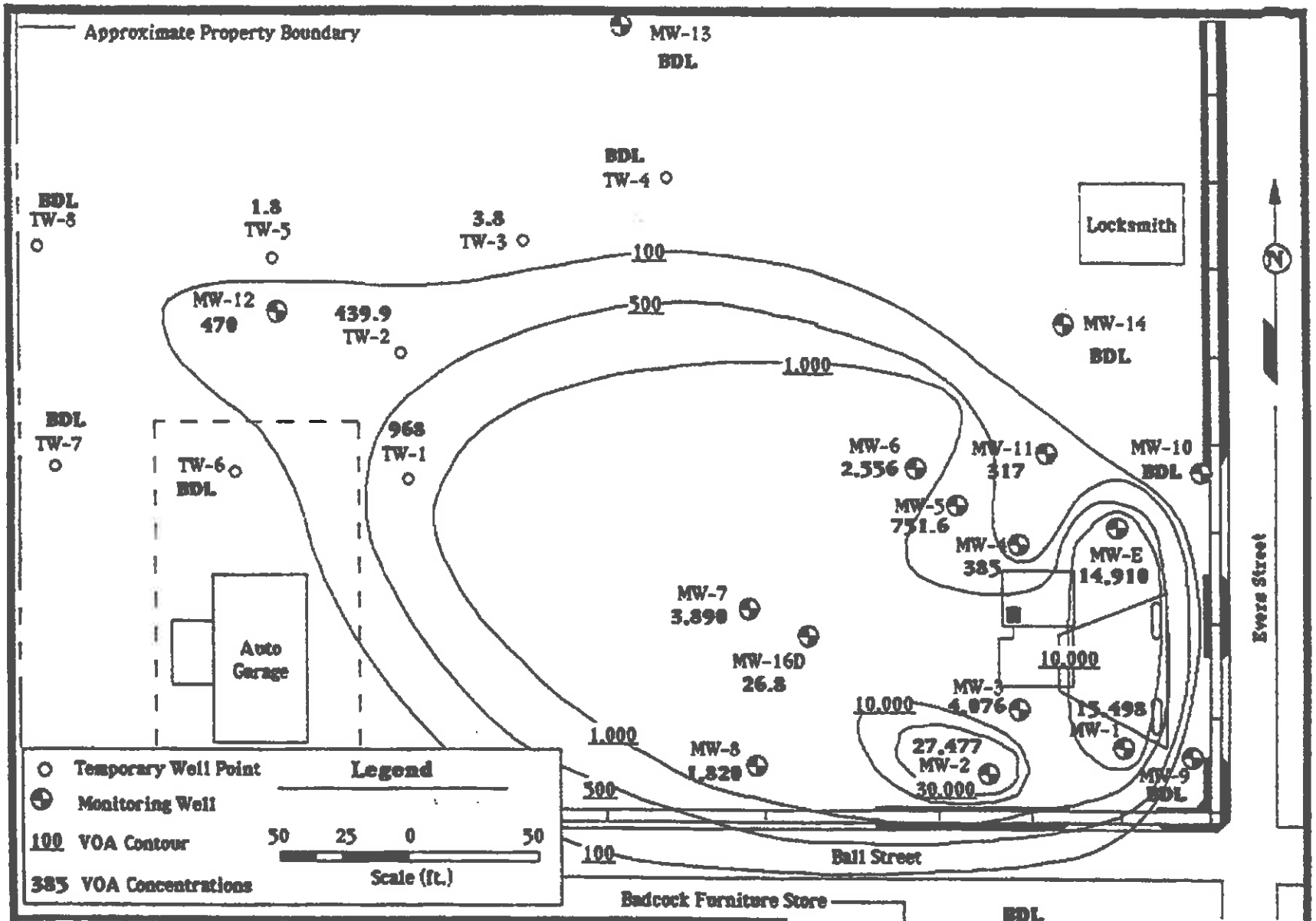

Approximate Property Boundary
MW-13
BDL
BDL
TW-4
BDL
TW-8
1.8
TW-5
3.8
TW-3
Locksmith
100
MW-12
470
439.9
TW-2
500
MW-14
BDL
1,000
BDL
TW-7
968
TW-1
TW-6
BDL
MW-6
2,556
MW-11
317
MW-10
BDL
MW-5
751.6
MW-4
385
MW-E
14,910
MW-7
3,898
MW-16D
26.8
Auto
Garage
10,000
MW-3
4,876
10,000
15,498
MW-1
1,000
MW-8
1,820
27,477
MW-2
30,000
MW-9
BDL
500
100
Ball Street
Evers Street
N
Legend
Temporary Well Point
Monitoring Well
100 VOA Contour
385 VOA Concentrations
50 25 0 50
Scale (ft.)
Badcock Furniture Store
BDL
MW-15
HY-TECH Environmental Services, Inc.
Figure 12: VOA
Concentration Plume Map
Scale: 1" = 50'
Date Drawn: January 24, 1992
Drawn By: MRB
Project No.: 91-0601
Revisions: 2/13/92 MRB, 2/25/92 MRB
JWH, Limited - 623 South Evers Street, Plant City, Florida

Table 4
Summary of OVA Concentrations
(measured in parts per million

Location	Date	Depth	Total Organics	Methane	VOA	Comments
MW-1	8/14/91	3', 6'	200, 340	10, 0	190, 340	St. prod. odor
MW-2	8/21/91	3', 7'	600, >1,000	10, 20	590, >980	St. prod. odor
MW-3	8/21/91	3', 7'	BDL, 160	BDL, 100	BDL, 60	Slight prod odor
MW-4	8/21/91	3', 6'	BDL, 58	BDL, 42	BDL, 16	-
MW-5	8/21/91	3', 7'	BDL, 80	BDL, 20	BDL, 60	-
MW-6	11/14/91	3', 7'	>1,000, 40	60, 4	>940, 36	St. prod odor
SB-1	11/14/91	6'	>1,000	100	>900	St. prod odor
SB-2	11/14/91	6'	120	90	30	Slight prod odor
SB-4	11/14/91	6'	BDL	BDL	>BDL	-
MW-7	11/14/91	3', 7'	4, BDL	BDL, BDL	4, BDL	-
MW-8	11/14/91	3', 7'	26, 30	8, 4	18, 26	-
MW-9	11/14/91	3', 7'	BDL, 10	BDL, 2	BDL, 8	-
MW-10	11/14/91	3', 7'	BDL, BDL	BDL, BDL	BDL, BDL	-
MW-11	11/14/91	3', 7'	30, 120	2, 10	28, 110	-
MW-12	2/17/92	3', 7'	BDL, BDL	BDL, BDL	BDL, BDL	-
MW-13	2/17/92	3', 7'	BDL, BDL	BDL, BDL	BDL, BDL	-
MW-14	2/17/92	3', 7'	BDL, BDL	BDL, BDL	BDL, BDL	-
MW-15	2/17/92	3', 7'	BDL, BDL	BDL, BDL	BDL, BDL	-
MW-16D	2/17/92	3', 7'	BDL, 4	BDL, BDL	BDL, 4	-

Table 2
Well Construction Summary

Well Number	Date Installed	Total Depth	Casing Length	Screen Length	Diameter
MW-1	8/14/91	12'	2'	10'	2"
MW-2	8/21/91	12'	2'	10'	2"
MW-3	8/21/91	12'	2'	10'	2"
MW-4	8/21/91	12'	2'	10'	2"
MW-5	8/21/91	12'	2'	10'	2"
MW-6	11/14/91	12'	2'	10'	2"
MW-7	11/14/91	12'	2'	10'	2"
MW-8	11/14/91	12'	2'	10'	2"
MW-9	11/14/91	12'	2'	10'	2"
MW-10	11/14/91	12'	2'	10'	2"
MW-11	11/14/91	12'	2'	10'	2"
MW-12	2/17/92	12'	2'	10'	2"
MW-13	2/17/92	12'	2'	10'	2"
MW-14	2/17/92	12'	2'	10'	2"
MW-15	2/17/92	12'	2'	10'	2"
MW-16D	2/17/92	23'	18'	5'	2"

Table 8

Summary of Groundwater Analytical Results

(measured in parts per billion)

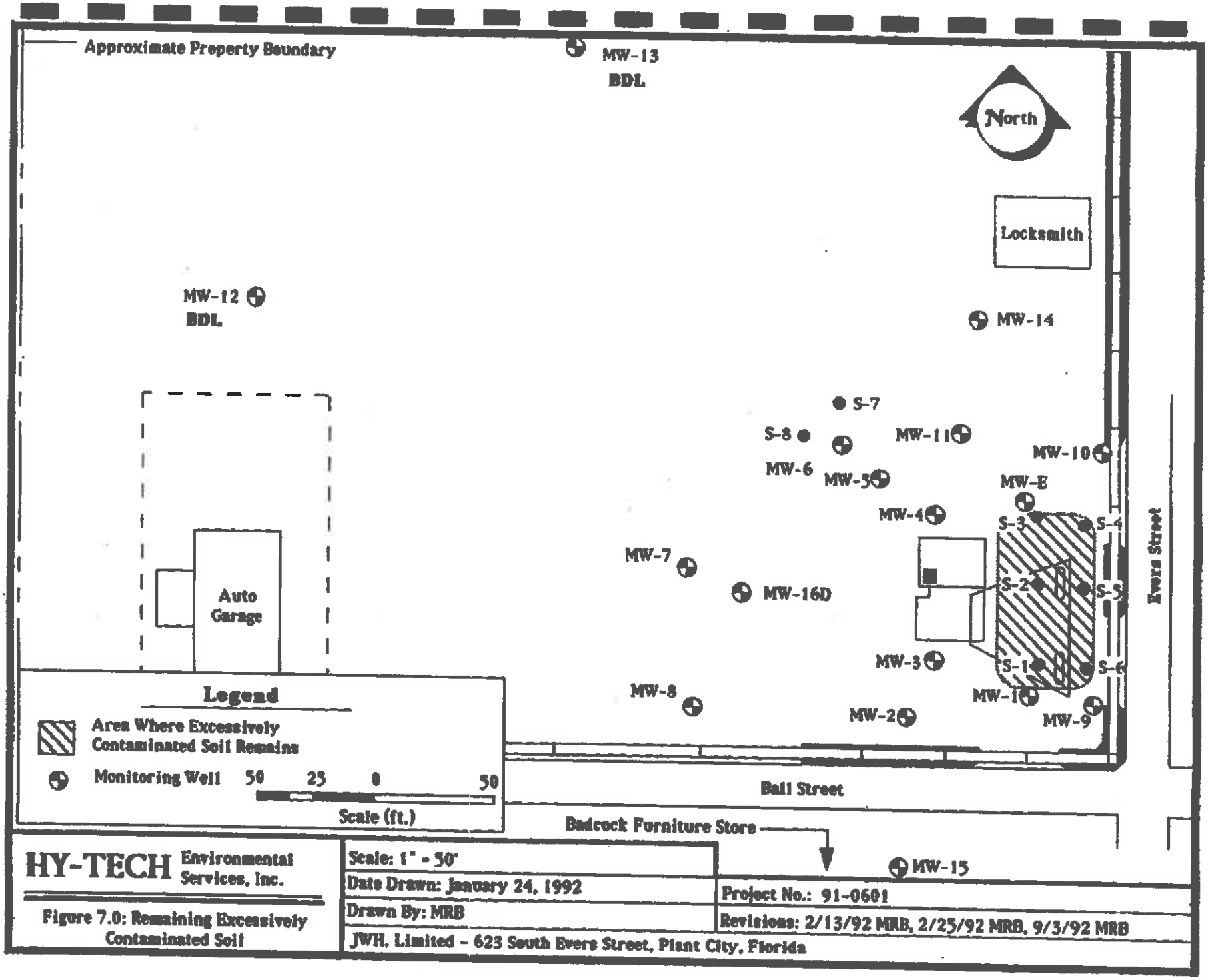
	Monitoring Wells									
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-E	MW-6	MW-7	MW-8	MW-9
Benzene	1,188	4,174	320	18	60.6	1,157	54	1,500	890	BDL
Toluene	7,270	10,256	1,326	97	195	6,676	720	130	BDL	BDL
Ethyl benzene	1,128	2,547	332	30	<10	1,165	82	560	250	BDL
Xylenes	5,910	10,500	2,098	240	496	5,912	1,700	1,700	680	BDL
Total VOA	15,498	27,477	4,076	385	751.6	14,910	2,556	3,890	1,820	BDL
Dissolved Lead	13	14	BDL	BDL	BDL	5	23	BDL	BDL	BDL
Naphthalene	NSF	NSF	NSF	BDL	BDL	423	NSF	NSF	NSF	NSF
2-Methylnaphthalene	NSF	NSF	NSF	BDL	BDL	79.8	NSF	NSF	NSF	NSF
1-Methylnaphthalene	NSF	NSF	NSF	BDL	BDL	48.1	NSF	NSF	NSF	NSF

	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16D
Benzene	BDL	9	154	BDL	BDL	BDL	12.4
Toluene	BDL	52	22	BDL	BDL	BDL	<1
Ethyl benzene	BDL	36	73	BDL	BDL	BDL	3.6
Xylenes	BDL	220	221	BDL	BDL	BDL	10.8
Total VOA	BDL	317	470	BDL	BDL	BDL	26.8
Dissolved Lead	BDL	BDL	NSF	1	NSF	NSF	1.3
Naphthalene	BDL	BDL	NSF	NSF	BDL	NSF	NSF
2-Methylnaphthalene	BDL	BDL	NSF	NSF	BDL	NSF	NSF
1-Methylnaphthalene	BDL	BDL	NSF	NSF	BDL	NSF	NSF

BDL: Below detectable limits of the instrument
NSF: Not sampled for this parameter

HY-TECH Remedial Action Plan (RAP)
Approved May 28, 1993

Attachment C



HY-TECH Environmental Services, Inc.

Figure 7.0: Remaining Excessively Contaminated Soil

Scale: 1" = 50'	
Date Drawn: January 24, 1992	Project No.: 91-0601
Drawn By: MRB	Revisions: 2/13/92 MRB, 2/25/92 MRB, 9/3/92 MRB
JWH, Limited – 623 South Evers Street, Plant City, Florida	

Prior to installation of the recovery well units upon receiving the Department's notice to proceed, the contaminated soil shall be excavated and delivered to a certified treatment facility where it will undergo incineration. A "Certificate of Recycling Material" will be furnished by the treatment facility along with post-incineration laboratory results attesting to the proper treatment of the soil.

Table 7.0
Summary of OVA Results
May 8, 1992
(measured in parts per million)

Location	Depth (feet)	Total Organics	Methane	VOA	Comments
S-1	2	>1,000	BDL	>1,000	Strong product odor
S-1	4	>1,000	BDL	>1,000	Strong product odor
S-2	2	>1,000	40	>960	Strong product odor
S-2	4	>1,000	80	>920	Strong product odor
S-3	2	>1,000	40	>960	Strong product odor
S-3	4	>1,000	40	>960	Strong product odor
S-4	2	720	BDL	720	Slow needle response
S-4	4	>1,000	40	>960	Strong product odor
S-5	2	>1,000	BDL	>1,000	Strong product odor
S-5	4	>1,000	40	>960	Strong product odor
S-6	2	>1,000	BDL	>1,000	Strong product odor
S-6	4	>1,000	BDL	>1,000	Strong product odor
S-7	2	BDL	BDL	BDL	No odor
S-7	4	BDL	BDL	BDL	No odor

BDL: below detectable limits

HSW Innovative Technology Pilot Program (1999)

Attachment D

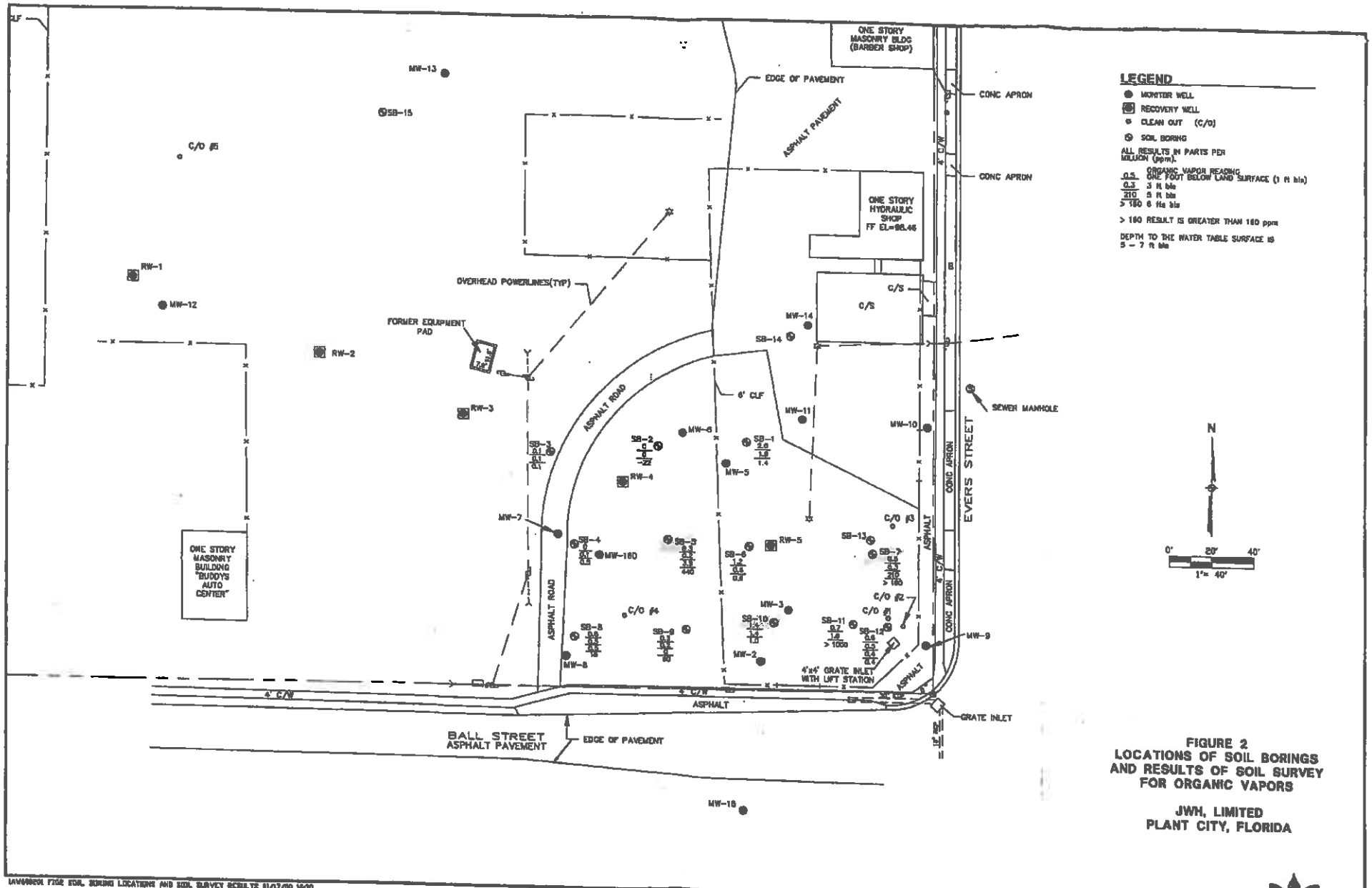


FIGURE 2
LOCATIONS OF SOIL BORINGS AND RESULTS OF SOIL SURVEY FOR ORGANIC VAPORS

JWH, LIMITED
PLANT CITY, FLORIDA

HSW

Table 1. Analytical Results of Groundwater Samples Analyzed for Petroleum Hydrocarbons

JWH, Limited
623 South Evers Street
Plant City, Florida

Sample ID / Collection Date / Constituent (Units)	MW-2 12/9/99	MW-3 12/9/99	MW-5 12/10/99	Dup B (MW-5) 12/10/99	MW-5 12/14/99	MW-6 12/14/99
Volatile Organic Aromatics (ug/L):						
Benzene	1080 E	290 E	54.5 E	48.5 E	22.8	64.5
Ethylbenzene	2460 E	1090 E	535 E	495 E	275	960
Toluene	360 E	255 E	880 E	795 E	245	695
m- and p-Xylenes	2110 E	1450 E	1390 E	1210 E	530	2890
o-Xylenes	310 E	77.0 E	420 E	355 E	150	465
Polynuclear Aromatic Hydrocarbons (ug/L):						
Naphthalene	215 E	99 E	< 5 E	< 5 E	21	185
1-Methylnaphthalene	60 E	19 E	< 5 E	< 5 E	< 5	50
2-Methylnaphthalene	32 E	12 E	< 5 E	< 5 E	< 5	30
TRPH by FL-PRO (mg/L)	2.6 E	0.9 E	0.5 E	0.3 E	0.3	1.9

Notes:

Only constituents detected above laboratory limits are included in this table.
<5 means constituent not detected above the laboratory reporting limit of 5 ug/L.
E means that the result has been classified as qualitative due to a quality control issue.
ug/L means micrograms per liter.
mg/L means milligrams per liter.

Table 1. Analytical Results of Groundwater Samples Analyzed for Petroleum Hydrocarbons
JWH, Limited
623 South Evers Street
Plant City, Florida

Sample ID / Collection Date / Constituent (Units)	MW-7 12/10/99	Dup A (MW-7) 12/10/99	MW-7 12/14/99	MW-8 12/10/99	MW-9 12/10/99	MW-12 12/14/99
Volatile Organic Aromatics (ug/L):						
Benzene	520 E	545 E	520	375 E	< 1.0 E	105
Ethylbenzene	735 E	820 E	900	685 E	12.2 E	460
Toluene	9.5 E	6.5 E	8.0	17.0 E	< 1.0 E	6.8
m- and p-Xylenes	230 E	225 E	280	475 E	5.9 E	1150
o-Xylenes	15.0 E	15.0 E	11.5	22.5 E	< 1.0 E	10.4
Polynuclear Aromatic Hydrocarbons (ug/L):						
Naphthalene	59 E	57 E	73	80 E	< 5 E	81
1-Methylnaphthalene	7 E	15 E	12	12 E	< 5 E	6
2-Methylnaphthalene	9 E	14 E	14	16 E	< 5 E	< 5
TRPH by FL-PRO (mg/L)	0.8 E	0.6 E	0.6	0.9 E	< 0.1 E	0.5

Notes:

Only constituents detected above laboratory limits are included in this table.
<5 means constituent not detected above the laboratory reporting limit of 5 ug/L.
E means that the result has been classified as qualitative due to a quality control issue.
ug/L means micrograms per liter.
mg/L means milligrams per liter.

Table 1. Analytical Results of Groundwater Samples Analyzed for Petroleum Hydrocarbons

JWH, Limited
623 South Evers Street
Plant City, Florida

Sample ID / Collection Date / Constituent (Units)	MW-16D 12/14/99	RW-1 12/14/99	RW-2 12/14/99	RW-3 12/10/99	RW-4 12/10/99	RW-5 12/10/99
Volatile Organic Aromatics (ug/L):						
Benzene	< 1.0	59.6	8.4	17.4 E	320 E	2490 E
Ethylbenzene	< 1.0	275	15.8	175 E	1980 E	3200 E
Toluene	< 1.0	82.6	< 1.0	< 2.0 E	430 E	4050 E
m- and p-Xylenes	< 1.0	83.4	2.0	60.8 E	5030 E	5890 E
o-Xylenes	< 1.0	8.8	< 1.0	< 2.0 E	350 E	1480 E
Polynuclear Aromatic Hydrocarbons (ug/L):						
Naphthalene	< 5	50	< 5	< 5 E	< 5 E	70 E
1-Methylnaphthalene	< 5	< 5	< 5	< 5 E	27 E	49 E
2-Methylnaphthalene	< 5	< 5	< 5	< 5 E	57 E	77 E
TRPH by FL-PRO (mg/L)	< 0.1	0.3	< 0.1	< 0.1 E	1.9 E	2.8 E

Notes:

Only constituents detected above laboratory limits are included in this table.
<5 means constituent not detected above the laboratory reporting limit of 5 ug/L.
E means that the result has been classified as qualitative due to a quality control issue.
ug/L means micrograms per liter.
mg/L means milligrams per liter.

Table 3. Summary of Organic Vapor Measurements Collected from Soil Samples
(parts per million)
JWH, Limited
623 South Evers Street
Plant City, Florida

Sample ID	Depth (ft bls)	T	M/E	Net
SB-1	1	2.0	0	2.0
	3	1.6	0	1.6
	5	1.4	0	1.4
SB-2	1	0	0	0.0
	3	0	0	0.0
	5	98	120	-22
SB-3	1	0.1	0	0.1
	3	0.1	0	0.1
	5	0.1	0	0.1
SB-4	1	0	0	0.0
	3	0.1	0	0.1
	5	0.5	0	0.5
SB-5	1	0.3	0	0.3
	3	0.2	0	0.2
	5	3.9	0	3.9
	6	540	100	440
SB-6	1	1.2	0	1.2
	3	0.6	0	0.6
	5	0.6	0	0.6
SB-7	1	0.5	0	0.5
	3	0.3	0	0.3
	5	360	150	210
	6	>1000	840	>160
SB-8	1	0.8	0	0.8
	3	0.5	0	0.5
	5	0.5	0	0.5
	6	25	9.3	16
SB-9	1	0.3	0	0.3
	3	0.2	0	0.2
	5	0	0	0.0
	6	140	80	60
SB-10	1	1.4	0	1.4
	3	1.4	0	1.4
	5	1.0	0	1.0
SB-11	1	0.7	0	0.7
	3	1.6	0	1.6
	6	>1000	0	>1000
SB-12	1	0.6	0	0.6
	3	0.5	0	0.5
	5	0.4	0	0.4
	6	0.4	0	0.4

Notes:

Flame ionization detector calibrated to methane standard.
ft bls means feet below land surface.
T means total organic vapor reading.
M/E means methane and ethane reading using an activated carbon filter.
Net means the difference between the T and M/E values, after adjustment for instrument correction factor, and is interpreted as organic vapors that may have originated from volatile organic compounds in the subsurface.

Table 4. Analytical Results of Soil Samples Analyzed for Petroleum Hydrocarbons
JWH, Limited
623 South Evers Street
Plant City, Florida

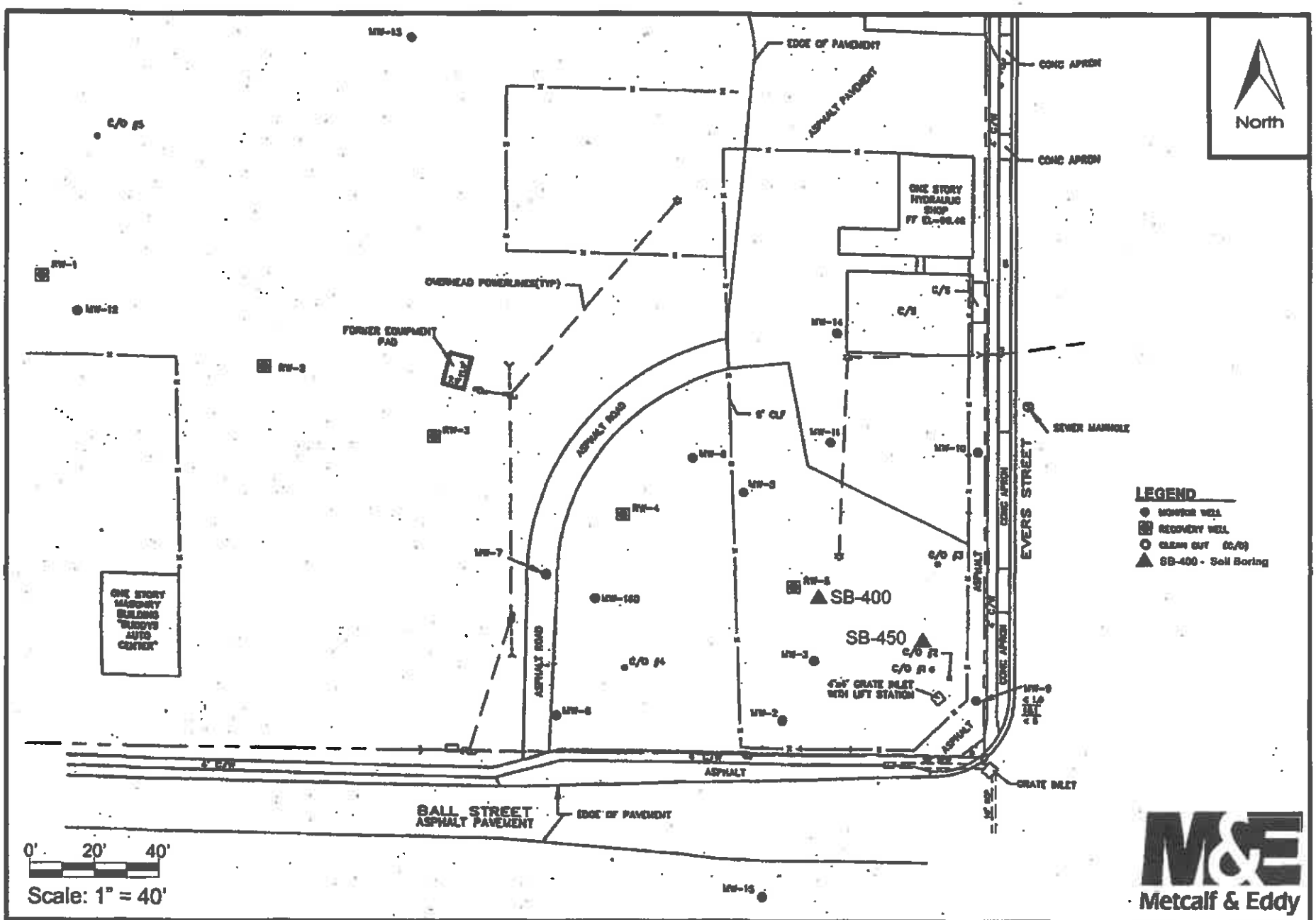
Sample ID / Collection Date / Constituent (Units)	SB-7 5ft 12/15/99	SB-10 3ft 12/15/99	SB-5 5 ft 12/15/99
Volatile Organic Aromatics (ug/Kg):			
Ethylbenzene	67	< 6	< 6
Polynuclear Aromatic Hydrocarbons (ug/Kg):			
Naphthalene	1790	< 120	< 120
1-Methylnaphthalene	1130	< 120	< 120
2-Methylnaphthalene	695	< 120	< 120
TRPH by FL-PRO (mg/Kg)	80.8	< 4.9	< 4.8

Notes:

Only constituents detected above laboratory reporting limits are included in this table.
< 120 means constituent not detected above the laboratory reporting limit of 120 ug/Kg.
ug/Kg means micrograms per kilogram.
mg/Kg means milligrams per kilogram.

Metcalf & Eddy Innovative Sampling Program (2002)

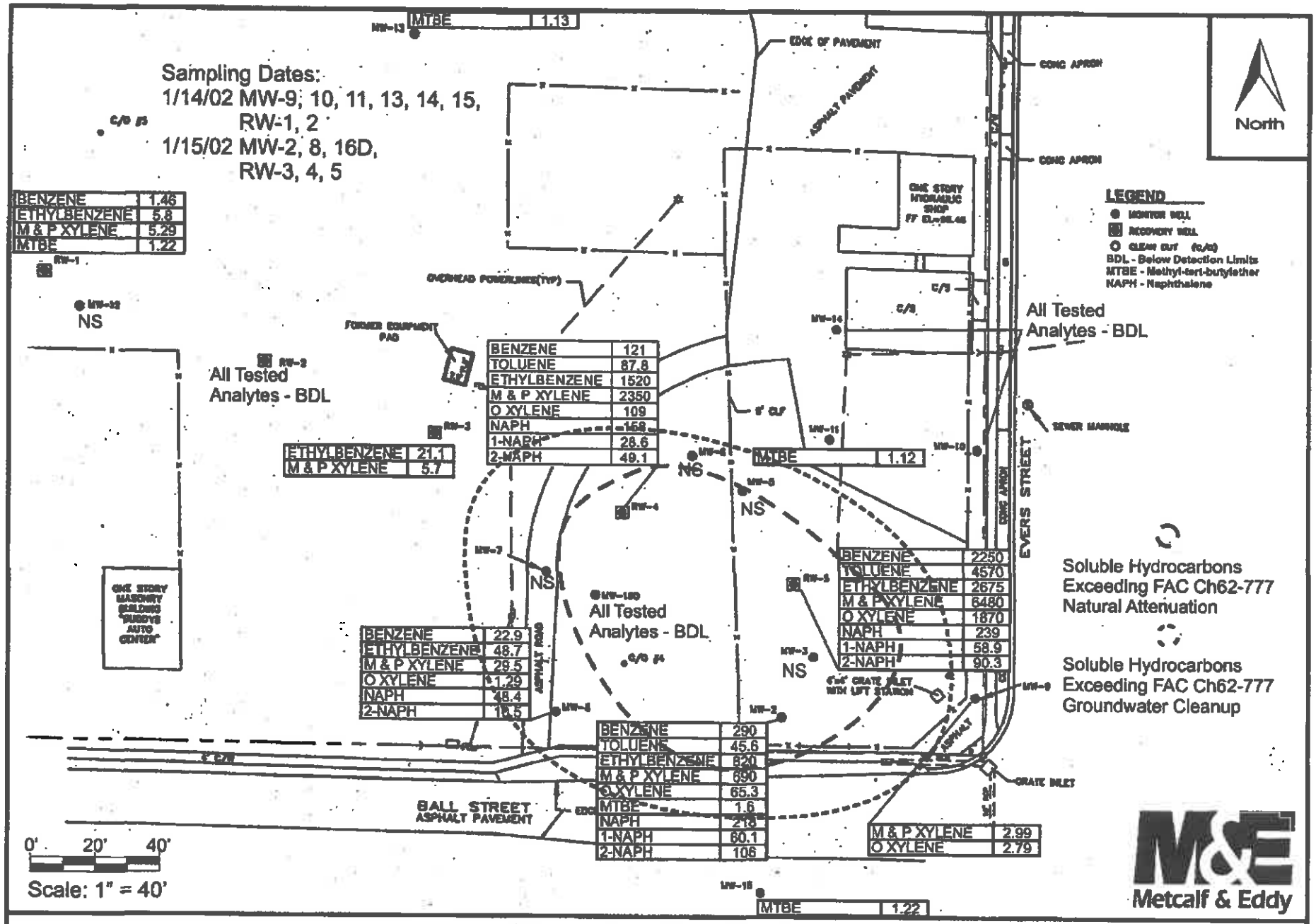
Attachment E



JWH Limited, Plant City, FL

Site Plan

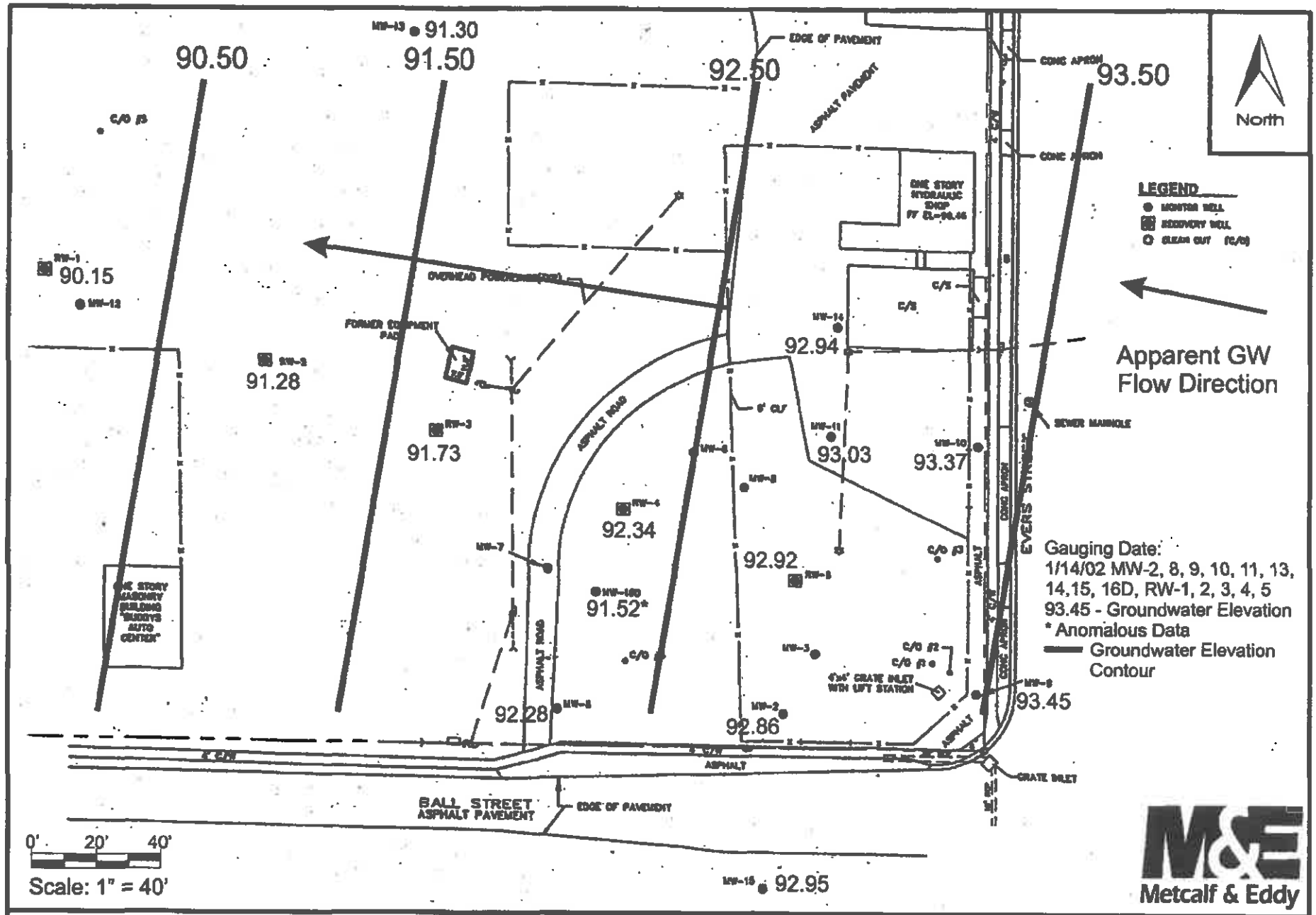
Figure 1



JWH Limited, Plant City, FL

Groundwater Analytical Data

Figure 2



JWH Limited, Plant City, FL

Groundwater Elevation Data

Figure 3

TABLE 1: SOIL ANALYTICAL RESULTS

Facility Name: JWH Limited **Facility ID# 298735902**

Sample				TVA	Laboratory Analyses										
Boring No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net TVA Reading (ppm)	Benzene ug/Kg	Ethyl-benzene ug/Kg	Toluene ug/Kg	Total Xylenes** ug/Kg	Total VOAs ug/Kg	MTBE ug/Kg	Naph-thalene mg/Kg	1-methyl naphth. mg/Kg	2-methyl naphth mg/Kg	FL-PRO mg/Kg	Comments
SB-400	1/14/2002	6	5	1792.4*	<1	<1	1.00	<1	1.00	6.16	<0.33	<0.33	<0.33	2.88	
SB-450	1/14/2002	6	5	1177.1*	<1	<1	<1	<1	<4	<1	<0.33	<0.33	<0.33	4.88	
FAC Ch 62-777 Soil Residential Direct Exp					1,100	1,100,000	380,000	5,900,000	—	3,200,000	40	68	80	340	
FAC Ch 62-777 Soil Industrial Direct Exp					1,600	8,400,000	2,600,000	4,000,000	—	22,000,000	270	470	560	2,500	
FAC Ch-62-777 Soil GW Leaching					7	600	500	200	—	200	1.7	2.2	6.1	340	

Bold - concentration exceeds FAC Ch 62-777 Groundwater Leaching criteria
- concentration exceeds FAC Ch 62-777 Soil Residential Direct Exposure criteria
* TVA readings collected at 2-foot intervals to a depth of 6' below grade (see table below).
** - Sum of m & p xylene and o xylene.

TVA Readings			
Depth Int.	Filtered	Unfilter.	Net
SB-400			
0-2'	4.91	4.77	0.14
2-4'	5.02	4.76	0.26
4-6'	1802	9.59	1792
SB-400			
0-2'	7.44	6.2	1.24
2-4'	7.3	6.2	1.1
4-6'	1200	23	1177

If an analyte is not detected, state the detection limit (i.e. <1)
soilhist.xls

TABLE 2: GROUNDWATER ANALYTICAL RESULTS

Facility Name: JWH Limited **Facility ID#:** 298735902

ND - Not Detected
NS - Not Sampled
ug/L - micrograms per Liter

Sample Location	Sample Date	Benzene ug/L	Toluene ug/L	Ethyl Benzene ug/L	Total Xylenes m & p ug/L	Total Xylenes o ug/L	Total VOA ug/L	MTBE ug/L	Naphthalene ug/L	1-methyl naphthalene ug/L	2-methyl naphthalene ug/L
MW-2	1/15/2002	**290**	45.6	**820**	**690**	**653**	1910.9	1.58	**218**	60.1	106
MW-8	1/15/2002	22.9	<1	48.7	29.5	1.29	102.39	<1	48.4	<5	10.5
MW-9	1/14/2002	<1	<1	2.99	2.79	<1	5.78	<1	<5	<5	<5
MW-10	1/14/2002	<1	<1	<1	<1	<1	<5	<1	<5	<5	<5
MW-11	1/14/2002	<1	<1	<1	<1	<1	<5	1.12	<5	<5	<5
MW-13	1/14/2002	<1	<1	<1	<1	<1	<5	1.13	<5	<5	<5
MW-14	1/14/2002	<1	<1	<1	<1	<1	<5	1.22	<5	<5	<5
MW-15	1/14/2002	<1	<1	<1	<1	<1	<5	<1	<5	<5	<5
MW-16D	1/15/2002	<1	<1	<1	<1	<1	<5	<1	<5	<5	<5
RW-1	1/14/2002	1.46	<1	5.8	5.29	<1	12.55	1.22	<5	<5	<5
RW-2	1/14/2002	<1	<1	<1	<1	<1	<5	<1	<5	<5	<5
RW-3	1/15/2002	<1	<1	21.1	5.70	<1	26.8	<1	<5	<5	<5
RW-4	1/15/2002	**121**	**87.8***	**1520**	**2350**	**109**	4187.8	<1	158	28.6	49.1
RW-5	1/15/2002	**2260**	**4570**	**2875**	**6480**	**1870**	17845	<100	**239**	58.9	90.3
Ch 62-777 GW Criteria		1	40	30	20	20	—	50	20	20	20
Ch 62-777 GW NatAtten Criteria		100	400	300	200	200	—	500	200	200	200

Bold - Concentration exceeds FAC Ch 62-777 Groundwater criteria.

[box] - Concentration exceeds FAC Ch 62-777 Natural Attenuation Default concentration

* - Indicates that the reported toluene value is between the lab method detection limit and the lab practical quantitation limit.

It should be noted that the detection limit for VOAs in RW-4 is 100 as a result of sample dilution due to matrix interference.

TABLE 3: GROUNDWATER ELEVATION DATA

Facility Name: JWH Limited

Facility ID#: 298735902

All Measurements = Feet
NS - Not Surveyed
NA - Not Available
No Data = Blank

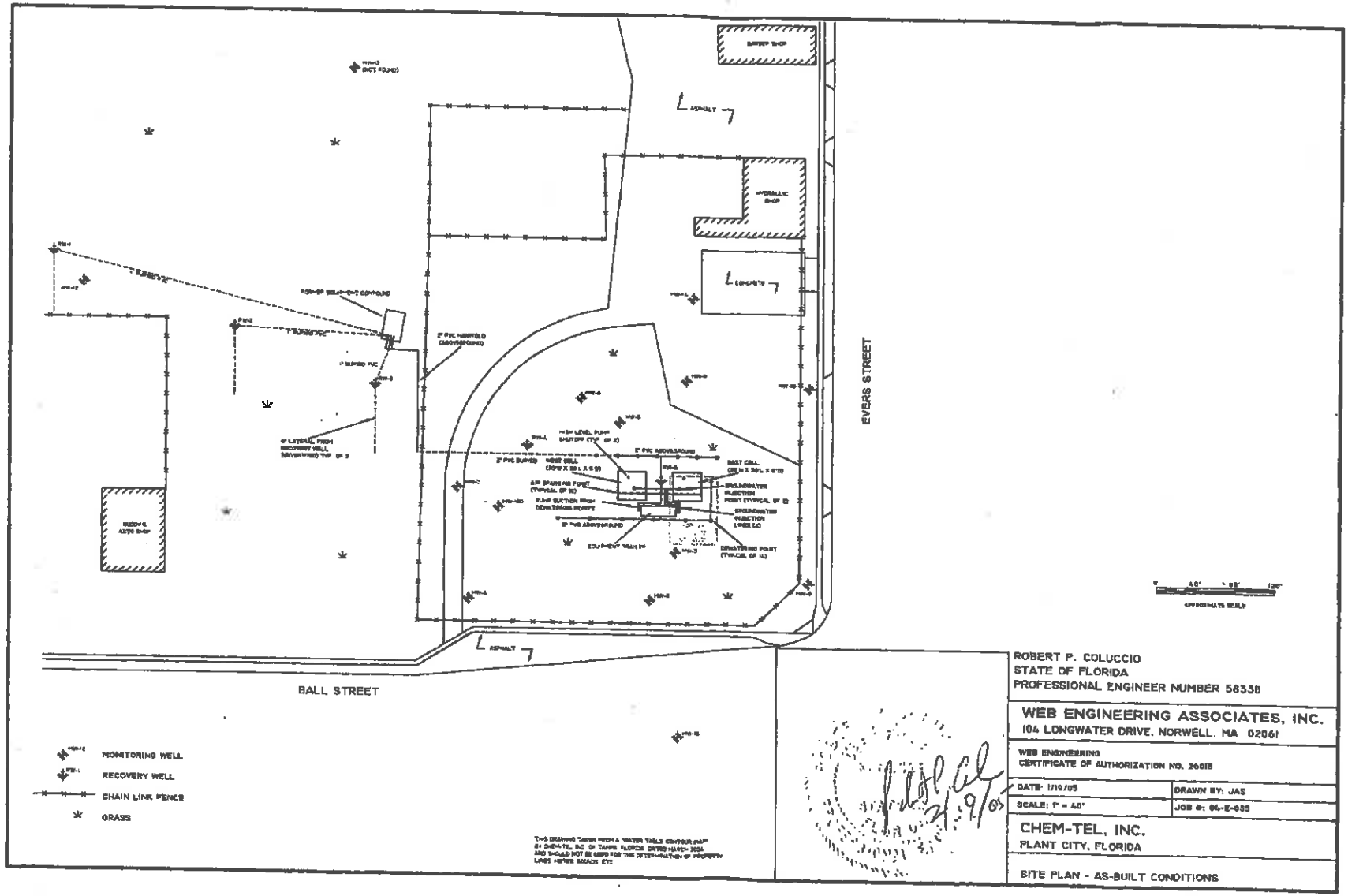
WELL NO.	MW-2			MW-8			MW-9			MW-10			MW-11			MW-13		
DIAMETER	2"			2"			2"			2"			2"			2"		
WELL DEPTH	12.00			12'			12'			12'			12'			12'		
SCREEN INTERVAL	2-12'			2-12'			2-12'			2-12'			2-12'			2-12'		
TOC ELEVATION	99.54			98.04			99.77			98.92			98.91			94.98		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
1/14/2002	92.86	6.68	0.00	92.28	5.76	0.00	93.45	6.32	0.00	93.37	5.55	0.00	93.03	5.88	0.00	91.30	3.68	0.00

WELL NO.	MW-14			MW-15			MW-16D			RW-1			RW-2			RW-3		
DIAMETER	2"			2"			2"			6"			6"			6"		
WELL DEPTH	12'			12'			23'			6.85			5.80			7.10		
SCREEN INTERVAL	2-12'			2-12'			18-23'			NA			NA			NA		
TOC ELEVATION	98.36			99.51			97.72			94.01			95.06			95.96		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
1/14/2002	92.94	5.42	0.00	92.95	6.56	0.00	91.52	6.20	0.00	90.15	3.86	0.00	91.28	3.78	0.00	91.73	4.23	0.00

WELL NO.	RW-4			RW-5														
DIAMETER	6"			6"														
WELL DEPTH	6.95			6.92														
SCREEN INTERVAL	NA			NA														
TOC ELEVATION	97.23			97.79														
DATE	ELEV	DTW	FP	ELEV	DTW	FP												
1/14/2002	92.34	4.89	0.00	92.92	4.87	0.00												

Chem-Tel Performance Based Cleanup (PBC) Update (2004-2007)

Attachment F



ROBERT P. COLUCCIO
STATE OF FLORIDA
PROFESSIONAL ENGINEER NUMBER 58338

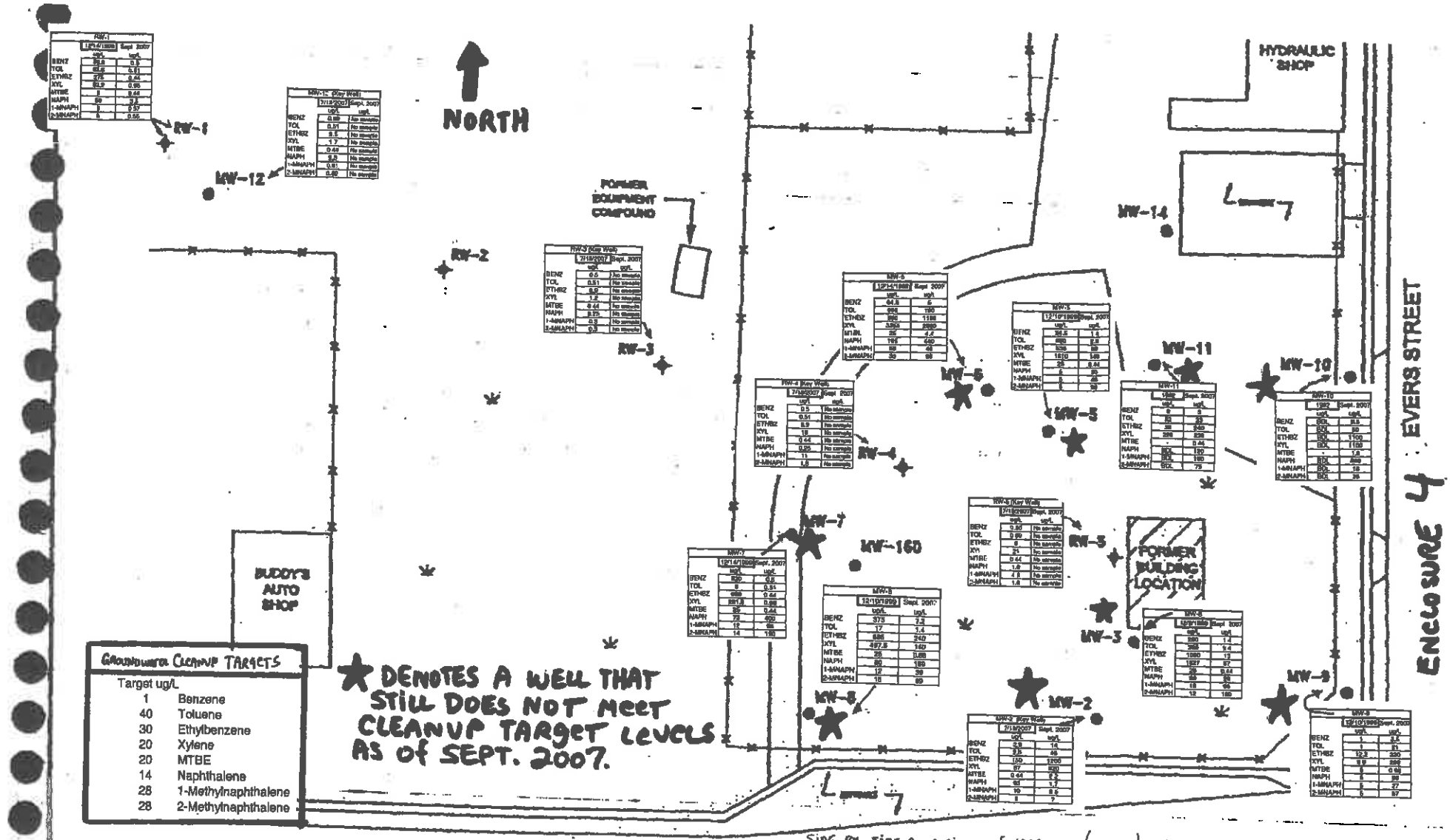
WEB ENGINEERING ASSOCIATES, INC.
104 LONGWATER DRIVE, NORWELL, MA 02061

WEB ENGINEERING
CERTIFICATE OF AUTHORIZATION NO. 26018

DATE: 1/19/05	DRAWN BY: JAS
SCALE: 1" = 40'	JOB #: 04-E-039

CHEM-TEL, INC.
PLANT CITY, FLORIDA

SITE PLAN - AS-BUILT CONDITIONS



JWH LTD
298735902

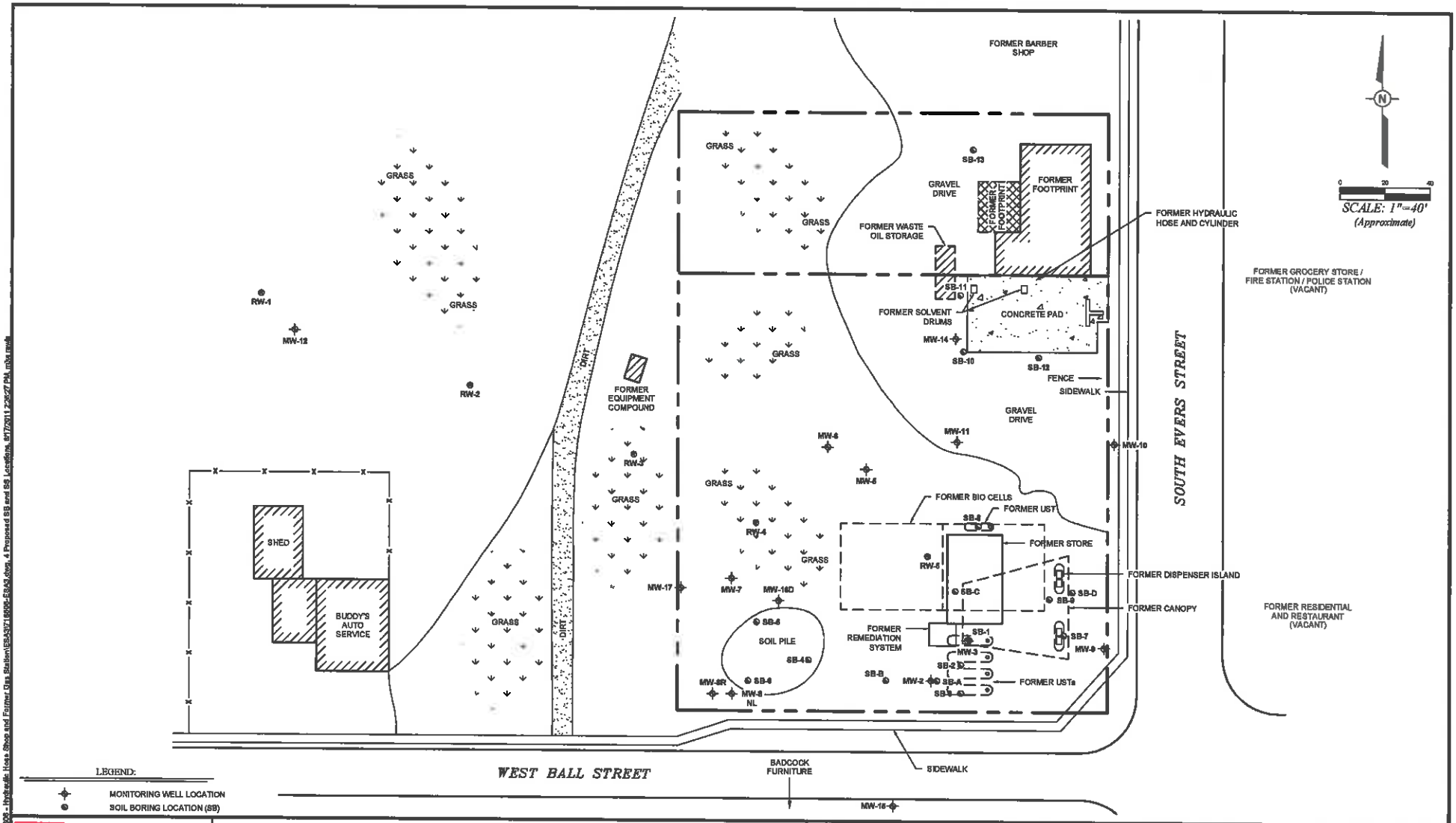
SIDE-BY-SIDE COMPARISON OF 1999 DATA (OR 1992) WITH 2007 DATA FOR WELLS RW-1, MW-3, MW-5, MW-6, MW-7, MW-9, MW-10, AND MW-11. PLUME HAS SHRUNK IN SIZE OVER THE YEARS. MOST WELLS HAVE SIGNIFICANT CONTAMINANT REDUCTIONS BUT OTHERS HAVE HAD CONTAMINANT CONCENTRATION INCREASES.

R. RUSCITO – REVIEWER – PES 6 – TALLAHASSEE
DECEMBER 2007.

ENCLOSURE 4

PPM Consultants, Inc. (PPM) Phase III Soil (2011)

Attachment G



PPM CONSULTANTS, INC.

DRAWN BY:	DRAWN DATE:
MLR	08/16/11
PROJECT NUMBER:	BILLING GROUP:
716806	ESA3

CITY OF PLANT CITY
FORMER GAS STATION (JWH LTD / TELCO OIL) AND HYDRAULIC HOSE AND CYLINDER
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

SOIL BORING AND SOIL SAMPLE LOCATIONS

FIGURE NUMBER
4

TABLE 2: SOIL ORGANIC VAPOR READINGS

Facility Name: Former JWH LTD / Telco Gas Station and Former Hydraulic Hose and Cylinder
FDEP Facility No. 29/8735902

SAMPLE				OVA SCREENING RESULTS			
BORING NO.	DATE COLLECTED	DEPTH TO WATER (BGS)	SAMPLE INTERVAL (BGS)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
Former Gas Station Assessment Soil Borings							
SB-1	05/05/11	~6	1.0	0.0	—	0.0	No odor or staining
(S. UST Area)			2.0	0.0	—	0.0	No odor or staining
			3.0	0.0	—	0.0	No odor or staining
			4.0	0.0	—	0.0	No odor or staining
			5.0	0.0	—	0.0	No odor or staining
			6.0	>4,775	63.0	>4,712	Strong petroleum odor
			7.0	>4,775	329.0	>4,446	Strong petroleum odor
SB-2	05/05/11	~6	1.0	0.0	—	0.0	No odor or staining
(S. UST Area)			2.0	0.0	—	0.0	No odor or staining
			3.0	0.0	—	0.0	No odor or staining
			4.0	0.0	—	0.0	No odor or staining
			5.0	0.0	—	0.0	No odor or staining
			6.0	0.0	—	0.0	No odor or staining
			7.0	3.9	1.5	2.4	No odor or staining
SB-3	05/05/11	~6	1.0	0.0	—	0.0	No odor or staining
(S. UST Area)			2.0	0.0	—	0.0	No odor or staining
			3.0	20.0	17.6	2.4	No odor or staining
			4.0	44.0	6.2	37.8	No odor or staining, lab sample collected
			5.0	1.2	0.3	0.9	No odor or staining
			6.0	0.0	—	0.0	No odor or staining
			7.0	0.0	—	0.0	No odor or staining
SB-7	05/05/11	~6	1.0	2.7	2.6	0.1	No odor or staining
(Dispenser Area)			2.0	2.7	2.7	0.0	No odor or staining
			3.0	3.4	3.0	0.4	No odor or staining, lab sample collected
			4.0	3.2	3.0	0.2	No odor or staining
			5.0	3.8	3.6	0.2	No odor or staining
			6.0	5.8	4.1	1.7	No odor or staining
			7.0	1,723.0	45.0	1,678.0	Mild petroleum odor
			8.0	>4,775	87.9	>4687.1	Strong petroleum odor
			9.0	>4,775	137.4	>4637.6	Strong petroleum odor
SB-8	05/05/11	~6	1.0	0.0	—	0.0	No odor or staining
(N. UST Area)			2.0	0.0	—	0.0	No odor or staining
			3.0	0.0	—	0.0	No odor or staining
			4.0	0.0	—	0.0	No odor or staining
			5.0	0.0	—	0.0	No odor or staining
			6.0	2.1	1.6	0.5	No odor or staining

TABLE 2: SOIL ORGANIC VAPOR READINGS

Facility Name: Former JWH LTD / Telco Gas Station and Former Hydraulic Hose and Cylinder
FDEP Facility No. 29/8735902

SAMPLE				OVA SCREENING RESULTS			
BORING NO.	DATE COLLECTED	DEPTH TO WATER (BGS)	SAMPLE INTERVAL (BGS)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
SB-9	05/06/11	~6	1.0	0.0	—	0.0	No odor or staining
(Dispenser Area)			2.0	0.0	—	0.0	No odor or staining
			3.0	0.0	—	0.0	No odor or staining
			4.0	0.0	—	0.0	No odor or staining
			5.0	0.0	—	0.0	No odor or staining
			6.0	0.0	—	0.0	Petroleum odor
			7.0	0.0	—	0.0	Petroleum odor
			8.0	>3,340	638.4	>2701.6	Petroleum odor
			9.0	>3,340	819.0	>2521	Petroleum odor
Former Hydraulic Hose and Cylinder Assessment Soil Borings							
SB-10	05/06/11	~6	1.0	0.0	—	0.0	No odor or staining
(SW Corner			2.0	0.0	—	0.0	No odor or staining
Concrete Pad)			3.0	0.0	—	0.0	No odor or staining
			4.0	0.0	—	0.0	No odor or staining
			5.0	0.0	—	0.0	No odor or staining
			6.0	0.0	—	0.0	No odor or staining
			7.0	0.0	—	0.0	No odor or staining
SB-11	05/06/11	~6	1.0	0.0	—	0.0	No odor or staining
(Used Oil			2.0	0.0	—	0.0	No odor or staining
Storage Area)			3.0	0.0	—	0.0	No odor or staining, lab sample collected
			4.0	0.0	—	0.0	No odor or staining
			5.0	0.0	—	0.0	No odor or staining
			6.0	0.0	—	0.0	No odor or staining
SB-12	05/06/11	~6	1.0	0.0	—	0.0	No odor or staining
(S. Corner			2.0	0.0	—	0.0	No odor or staining
Concrete Pad)			3.0	0.0	—	0.0	No odor or staining
			4.0	0.0	—	0.0	No odor or staining
			5.0	0.0	—	0.0	No odor or staining
			6.0	0.0	—	0.0	No odor or staining
SB-13	05/06/11	~6	1.0	0.0	—	0.0	No odor or staining
(Canopy Work			2.0	0.0	—	0.0	No odor or staining
Area)			3.0	0.0	—	0.0	No odor or staining
			4.0	0.0	—	0.0	No odor or staining
			5.0	0.0	—	0.0	No odor or staining
Replacement Wells							
MW-8R	06/29/11	~6	1.0	0.0	—	0.0	No odor or staining
			3.0	0.0	—	0.0	No odor or staining
			5.0	0.0	—	0.0	No odor or staining
			7.0	0.0	—	0.0	No odor or staining
			9.0	76.4	16.3	60.1	No odor or staining
			11.0	7.4	0.0	7.4	No odor or staining
MW-17	06/29/11	~6	1.0	0.0	—	0.0	No odor or staining
			3.0	0.0	—	0.0	No odor or staining
			5.0	0.0	—	0.0	No odor or staining
			7.0	0.0	—	0.0	No odor or staining
			9.0	0.0	—	0.0	No odor or staining
			11.0	82.3	9.7	72.6	No odor or staining

TABLE 2: SOIL ORGANIC VAPOR READINGS

Facility Name: Former JWH LTD / Telco Gas Station and Former Hydraulic Hose and Cylinder
FDEP Facility No. 29/8735902

SAMPLE				OVA SCREENING RESULTS			
BORING NO.	DATE COLLECTED	DEPTH TO WATER (BGS)	SAMPLE INTERVAL (BGS)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
Soil Borings for RAP at Former Gas Station- Saturated Soil Samples							
SB-A	06/29/11	~6	5.0	0.0	—	0.0	No odor or staining
(S. UST			7.0	0.0	—	0.0	Strong petroleum odor
Area - MW-2)			8.0-9.0	11,068.0	201.1	10,866.9	Strong petroleum odor
			10.0	1,377.0	144.7	1,232.3	Strong petroleum odor
			12.0	31,760.0	457.9	31,302.1	Strong petroleum odor, lab sample collected
			14.0-15.0	35.5	0.0	35.5	Mild petroleum odor
			17.0	6,532.0	192.7	6,339.3	Mild petroleum odor
			19.0-20.0	18.5	0.0	10.5	Mild petroleum odor
SB-B	06/29/11	~6	5.0	0.0	—	0.0	No odor or staining
(W. of S. UST			7.0-8.0	171.8	0.0	171.8	Slight petroleum odor
Area-MW-2)			9.0-10.0	664.7	63.6	601.1	Slight petroleum odor
			12.0	979.8	25.6	954.2	Mild petroleum odor, lab sample collected
			14.0-15.0	10.0	0.0	10.0	No odor or staining
			17.0	115.5	0.0	115.5	No odor or staining
			19.0-20.0	0.0	—	0.0	No odor or staining
SB-C	06/29/11	~6	5.0	0.0	—	0.0	No odor or staining
(Former Building)			7.0	>50,000	0.0	>50,000	Strong petroleum odor
			9.0-10.0	472.7	72.7	395.0	Strong petroleum odor
			12.0-13.0	335.2	15.7	319.5	Strong petroleum odor
			14.0-15.0	6.0	0.0	6.0	No odor or staining
			16.0	128.5	3.0	125.5	No odor or staining
			19.0-20.0	5.8	0.0	5.8	No odor or staining
SB-D	06/29/11	~6	5.0	0.0	—	0.0	No odor or staining
(Dispenser Area)			7.0-8.0	247.8	29.9	217.9	No odor or staining
			9.0-10.0	>50,000	86.0	>49,914	Slight petroleum odor
			12.0	438.1	15.0	423.1	No odor or staining
			14.0-15.0	0.0	—	0.0	No odor or staining
			16.0	0.0	—	0.0	No odor or staining
			19.0-20.0	0.0	—	0.0	No odor or staining
Soil Pile Characterization							
SB-4	05/05/11	NA	5.0 *	0.9	0.5	0.4	No odor or staining
			7.0 *	0.7	0.4	0.3	No odor or staining
			10.0 *	1.0	0.7	0.3	No odor or staining, lab sample collected
SB-5	05/05/11	NA	6.0 *	0.5	0.1	0.4	No odor or staining
			8.0 *	0.6	0.4	0.3	No odor or staining
			10.0 *	0.5	0.3	0.2	No odor or staining, lab sample collected
SB-6	05/05/11	NA	3.0*	0.0	—	0.0	No odor or staining
			6.0*	1.2	1.0	0.2	No odor or staining
			8.0*	0.7	0.5	0.2	No odor or staining

Notes:
OVA = Organic Vapor Analyzer
BGS = Feet Below Ground Surface
* = Not BGS
ppm = parts per million

TABLE 4A: SOIL ANALYTICAL SUMMARY - BTEX, MTBE, & TRPH, and VOCs

Facility Name: Former JWH LTD / Telco Gas Station and Former Hydraulic Hose an
FDEP Facility No. 29/8735902

Sample ID	Date Collected	Sample Depth (BGS)	Net OVA Reading (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)	TRPH (ppm)	VOCs (ppm)
FDEP Leachability-Based SCTL				**0.007**	**0.5**	**0.6**	**0.2**	**0.09**	**340**	**
FDEP Residential Direct Exposure-Based SCTL				**1.2**	**7,500**	**1,500**	**130**	**4,400**	**460**	**
Former Gas Station Assessment Soil Samples										
SB-3	05/05/11	4	37.8	ND(0.000536)	ND(0.00106)	ND(0.000143)	0.00306	ND(0.000186)	28.3	—
SB-7	05/05/11	3	0.4	ND(0.000463)	ND(0.000916)	ND(0.000124)	ND(0.000160)	ND(0.000161)	5.86 I	—
Former Hydraulic Hose and Cylinder Assessment Soil Samples										
SB-11	05/06/11	3	0.0	ND(0.000398)	ND(0.000786)	ND(0.000106)	ND(0.000346)	ND(0.000138)	19.3	**
Soil Borings for RAP at Former Gas Station - Saturated Soil Samples										
SB-A	06/29/11	12	31,302.1	ND(0.203)	ND(0.401)	**17.5**	**0.305 I**	ND(0.0702)	—	—
SB-B**	06/29/11	12	954.2	ND(0.00675)	ND(0.0133)	ND(0.00180)	ND(0.0147)	ND(00235)	—	—
Soil Pile Characterization Samples										
SB-4	05/05/11	10*	0.3	ND(0.000536)	ND(0.000903)	ND(0.000122)	ND(0.000158)	ND(0.000159)	9.04	—
SB-5	05/05/11	10*	0.2	ND(0.000485)	ND(0.000958)	ND(0.000130)	ND(0.000168)	ND(0.000168)	7.67	—
Duplicate Samples										
SS-Dup	05/06/11	4	37.8	ND(0.000442)	ND(0.00875)	ND(0.00118)	0.00232	ND(0.000154)	19.3	—

OVA = organic vapor analyzer
ppm = parts per million (milligrams per kilogram [mg/kg])
MTBE = Methyl tert-butyl ether
TRPHs = Total Recoverable Petroleum Hydrocarbons
VOC = Volatile Organic Compounds
I = (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
Bold type indicates that the concentration exceed FDEP Soil Cleanup Target Level
SCTL = FDEP Soil Cleanup Target Level per Chapter 62-777 of the Florida Administrative Code
— == Not analyzed for
* = Not BGS
** = VOC concentrations below their respective laboratory method detection limits. Individual results are shown on the laboratory report included in Appendix F.

TABLE 4B: SOIL ANALYTICAL SUMMARY - PAHs

Facility Name: Former JWH LTD / Telco Gas Station and Former Hydraulic Hose and Cylinder
FDEP Facility No. 28/8738902

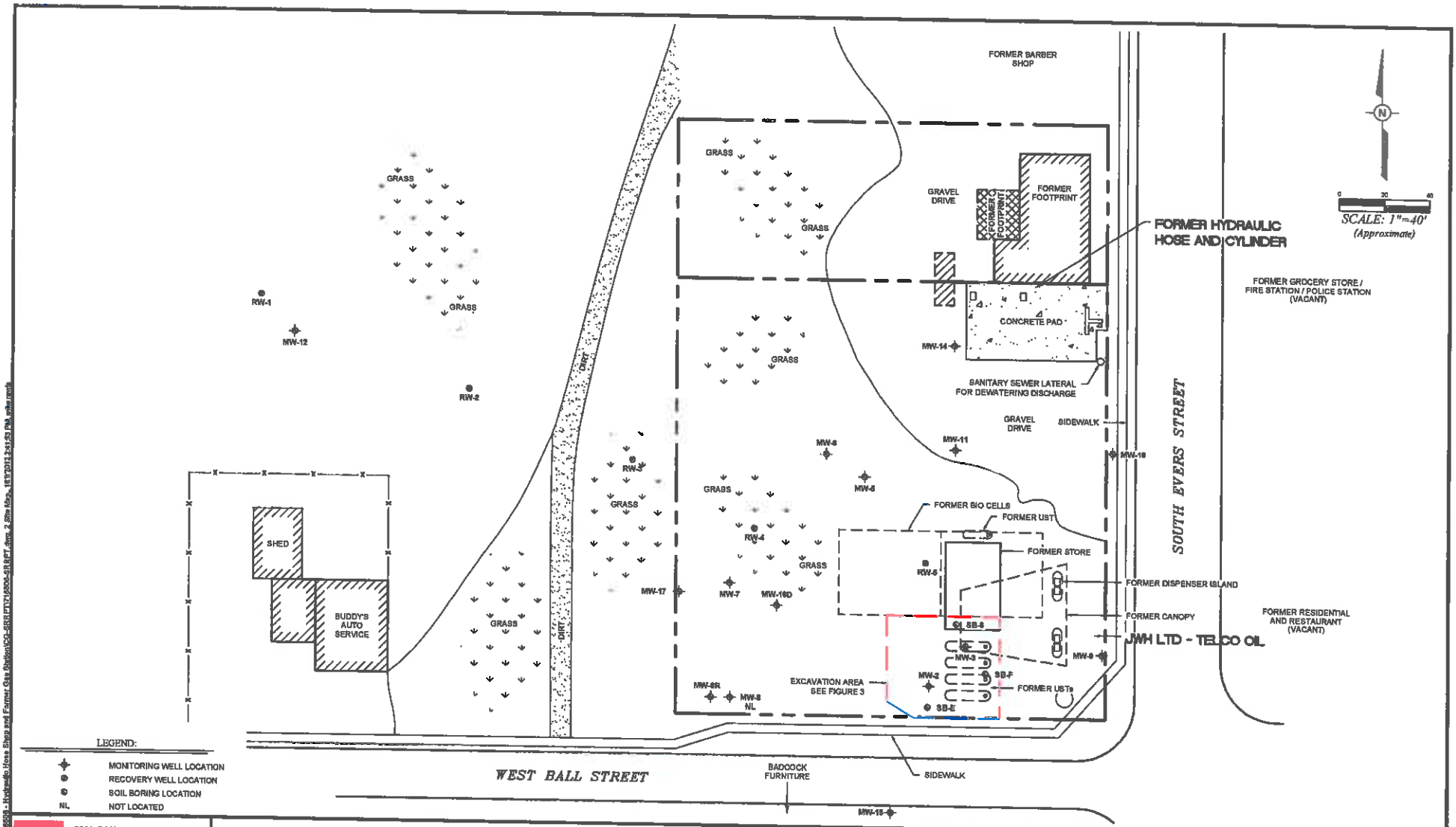
Boring ID	Date Collected	Sample Depth (bgs)	Net OVA Reading (ppm)	Naphthalene (ppm)	1-Methyl naphthalene (ppm)	2-Methyl naphthalene (ppm)	Acenaphthene (ppm)	Acenaphthylene (ppm)	Anthracene (ppm)	Benzo (a) anthracene (ppm)	Benzo (a) pyrene (ppm)	Benzo (b) fluoranthene (ppm)
FDEP Leachability-Based SCTL				1.2	3.1	8.8	2.1	27	2500	0.8	8	2.4
FDEP Residential Direct Exposure-Based SCTL				55	200	210	2,400	1,900	21,000	*	0.1	*
Former Gas Station Assessment Soil Samples												
SB-3	05/05/11	4	37.8	ND(0.000921)	ND(0.000973)	ND(0.000832)	ND(0.000732)	ND(0.00256)	ND(0.000832)	ND(0.000848)	ND(0.000545)	ND(0.000602)
SB-7	05/05/11	3	0.4	ND(0.000885)	ND(0.000914)	ND(0.000781)	ND(0.00068)	ND(0.00240)	ND(0.000781)	ND(0.000798)	0.00132 I	0.00152 I
Former Hydraulic Hose and Cylinder Assessment Soil Samples												
SB-11	05/06/11	3	0.0	ND(0.000875)	ND(0.000924)	ND(0.000790)	ND(0.000696)	ND(0.00243)	ND(0.000790)	ND(0.000805)	ND(0.000618)	ND(0.000572)
Soil Borings for RAP at Former Gas Station - Saturated Soil Samples												
SB-A	06/29/11	12	31,302.1	11.7	16.0	31.2	0.0761	ND(0.0357)	ND(0.0416)	ND(0.0333)	ND(0.0297)	ND(0.0238)
SB-B	06/29/11	12	954.2	ND(0.026)	ND(0.036)	ND(0.0374)	ND(0.0294)	ND(0.0401)	ND(0.0467)	ND(0.0374)	ND(0.0334)	ND(0.0267)
Soil Pile												
SB-4	05/05/11	10**	0.3	ND(0.000824)	ND(0.000870)	ND(0.000744)	ND(0.000655)	ND(0.0029)	ND(0.000744)	ND(0.000758)	ND(0.000487)	ND(0.000538)
SB-5	05/05/11	10**	0.2	ND(0.000838)	ND(0.000885)	ND(0.000756)	ND(0.000666)	ND(0.00233)	ND(0.000756)	ND(0.000771)	ND(0.000495)	ND(0.000547)
Duplicate Samples												
SS-Dup	05/06/11	4	37.8	ND(0.000905)	ND(0.000956)	ND(0.000818)	ND(0.000720)	ND(0.00251)	ND(0.000818)	ND(0.000833)	ND(0.000536)	ND(0.000591)
(SB-3)												

Boring ID	Date Collected	Sample Depth (bgs)	Net OVA Reading (ppm)	Benzo (g,h,i) perylene (ppm)	Benzo (k) fluoranthene (ppm)	Chrysene (ppm)	Dibenz (a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno (1,2,3-cd) pyrene (ppm)	Phenanthrene (ppm)	Pyrene (ppm)
FDEP Leachability-Based SCTL				32,000	24	77	0.7	1,200	160	8.6	250	340
FDEP Residential Direct Exposure-Based SCTL				2,500	*	*	*	3,200	2,600	*	2,200	460
Former Gas Station Assessment Soil Samples												
SB-3	05/06/11	4	37.8	ND(0.000716)	ND(0.000671)	ND(0.000705)	ND(0.000787)	ND(0.00126)	ND(0.00164)	ND(0.000731)	ND(0.000894)	ND(0.00405)
SB-7	05/06/11	3	0.4	0.00144 I	0.000851 I	ND(0.000882)	ND(0.000739)	ND(0.00120)	ND(0.00154)	0.00123 I	ND(0.000840)	ND(0.000592)
Former Hydraulic Hose and Cylinder Assessment Soil Samples												
SB-11	05/06/11	3	0.0	ND(0.000680)	ND(0.000637)	ND(0.000670)	ND(0.000747)	ND(0.00121)	ND(0.00156)	ND(0.000694)	ND(0.000649)	ND(0.000598)
Soil Borings for RAP - Saturated Soil Samples												
SB-A	06/29/11	12	31,302.1	ND(0.0321)	ND(0.0392)	ND(0.0273)	ND(0.0321)	ND(0.0452)	0.111	ND(0.0404)	0.0882	ND(0.0392)
SB-B***	06/29/11	12	954.2	ND(0.0360)	ND(0.0267)	ND(0.0307)	ND(0.0360)	ND(0.0507)	ND(0.0307)	ND(0.0454)	ND(0.0427)	ND(0.0441)
Soil Pile												
SB-4	05/06/11	10**	0.3	ND(0.000640)	ND(0.000600)	ND(0.00630)	ND(0.000704)	ND(0.00114)	ND(0.00147)	ND(0.000654)	ND(0.000600)	ND(0.000584)
SB-5	05/06/11	10**	0.2	ND(0.000651)	ND(0.000610)	ND(0.00641)	ND(0.000715)	ND(0.00116)	ND(0.00149)	ND(0.000664)	ND(0.000613)	ND(0.000573)
Duplicate Samples												
SS-Dup	05/06/11	4	37.8	ND(0.000704)	ND(0.000659)	ND(0.000693)	ND(0.000773)	0.00461 I	ND(0.00161)	ND(0.000718)	ND(0.000679)	0.00754

Notes: bgs = below ground surface
ppm = parts per million (milligrams per kilogram [mg/kg])
I = (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
⊠ = The associated batch QC was outside the established quality control range for precision.
SCTL = FDEP Soil Cleanup Target Level per Chapter 62-777 of the Florida Administrative Code
* = Concentrations must be converted to Benzo (a) pyrene equivalents and compared to the direct exposure CTL for Benzo (a) pyrene.
** = Not BGS
*** - Sample analyzed out of hold time.

PPM RAPM (2011) and Source Removal Soil (2012) at UST South

Attachment H



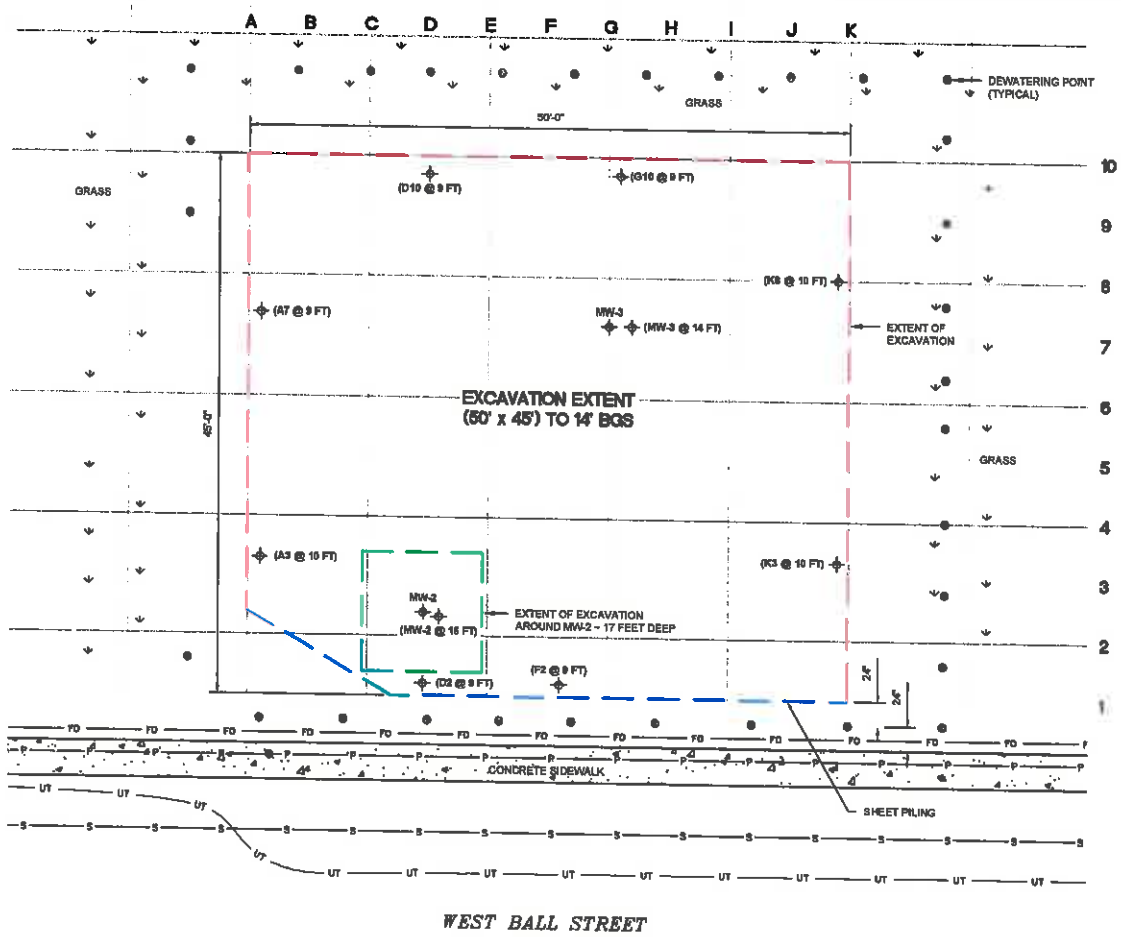
PPM CONSULTANTS, INC.

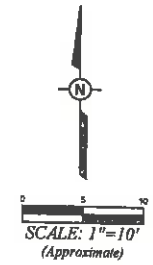
DRAWN BY:	DRAWN DATE:
MLR	09/27/12
PROJECT NUMBER: 716806	BILLING GROUP: SRRPT

CITY OF PLANT CITY COMMUNITY REDEVELOPMENT AGENCY
FORMER HYDRAULIC HOSE / JWH, LTD-TELCO OIL
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

SITE MAP

FIGURE NUMBER 2





CONFIRMATION SOIL LABORATORY SAMPLES COLLECTED AT LOCATIONS		
MW-2	@	16 FEET
MW-3	@	14 FEET
D2	@	9 FEET
A3	@	10 FEET
A7	@	9 FEET
D10	@	9 FEET
K8	@	10 FEET
F2	@	9 FEET
G10	@	9 FEET
K3	@	10 FEET

LEGEND:

- DEWATERING POINT LOCATION
- EXCAVATION SOIL COFIRMATION SAMPLE LOCATION
- MONITORING WELL LOCATION
- FO — FIBER OPTIC LINE
- P — OVERHEAD POWER LINE
- S — SEWER LINE
- UT — UNDERGROUND TELEPHONE LINE
- POWER POLE
- BGS — BELOW GROUND SURFACE

PPM CONSULTANTS, INC.

DRAWN BY:	DRAWN DATE:
MLR	09/27/12
PROJECT NUMBER: 716806	BILLING GROUP: SRRPT

CITY OF PLANT CITY COMMUNITY REDEVELOPMENT AGENCY
FORMER HYDRAULIC HOSE / JWH, LTD-TELCO OIL
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

EXCAVATION AREA

FIGURE NUMBER 3

Z:\City of Plant City\716806 - Hydraulic Hose Shop and Former Gas Station\CO-SRRPT\716806-SRRPT.dwg, 3 ExcavationMap, 10/9/2014 2:42:07 PM, mike mob

TABLE 2A: SOIL ORGANIC VAPOR DATA - SOIL BORINGS

Facility Name: Former JWH LTD - Telco Oil
FDEP Facility No. 29/8735902

SAMPLE				OVA SCREENING RESULTS			
BORING NO.	DATE COLLECTED	DEPTH TO WATER (BGS)	SAMPLE INTERVAL (BGS)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
SB-E	07/13/12	~5	1	0.0	---	0.0	No odor or staining
			3	0.0	---	0.0	No odor or staining
			5	0.0	---	0.0	No odor or staining
			7-8	960.5	68.5	892.0	Faint petroleum odor (collected for composite lab sample)
			9-10	626.4	69.0	557.4	Faint petroleum odor
			11-12	293.3	130.6	162.7	No odor or staining
			14-15	9.8	0.0	9.8	No odor or staining
			16-17	10.0	2.4	7.6	No odor or staining
			19-20	4.4	0.2	4.2	No odor or staining
SB-F	07/13/12	~5	1	0.0	---	0.0	No odor or staining
			3	0.0	---	0.0	No odor or staining
			5	0.0	---	0.0	No odor or staining
			7-8	0.0	---	0.0	No odor or staining
			9-10	533.7	129.2	404.5	Faint petroleum odor (collected for composite lab sample)
			10-11	97.3	78.3	19.0	Faint petroleum odor
			11-12	121.1	50.7	70.4	No odor or staining
			14-15	5.9	2.2	3.7	No odor or staining
			16-17	485.5	189.7	295.8	No odor or staining
			19-20	9.8	0.2	9.6	No odor or staining
SB-G	07/13/12	~5	1	0.0	---	0.0	No odor or staining
			3	0.0	---	0.0	No odor or staining
			5	0.0	---	0.0	No odor or staining
			7-8	43.1	0.0	43.1	No odor or staining
			9-10	128.1	22.0	106.1	Faint petroleum odor (collected for composite lab sample)
			11-12	39.1	9.1	30.0	No odor or staining
			14-15	12.8	9.2	3.6	No odor or staining
			16-17	7.1	2.3	4.8	No odor or staining
			19-20	1.2	---	1.2	No odor or staining

TABLE 2A: SOIL ORGANIC VAPOR DATA - SOIL BORINGS

Facility Name: Former JWH LTD - Telco Oil
FDEP Facility No. 29/8735902

SAMPLE				OVA SCREENING RESULTS			
BORING NO.	DATE COLLECTED	DEPTH TO WATER (BGS)	SAMPLE INTERVAL (BGS)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
MW-2R	08/27/12	~5	1	0.0	---	0.0	No odor or staining
			3	244	135	109	No odor or staining
			5	796	780	16	No odor or staining
			7	7.7	---	7.7	No odor or staining
			9	38	21	17	No odor or staining
			12	179	63	116	No odor or staining
MW-3R	08/27/12	~5	1	0.0	---	0.0	No odor or staining
			3	1539	903	636	No odor or staining
			5	1476	955	521	No odor or staining
			7	487	482	5	No odor or staining
			9	592	319	273	No odor or staining
			12	401	200	201	No odor or staining

Notes:
OVA = Organic Vapor Analyzer
BGS = Feet Below Ground Surface
* = Not BGS
ppm = parts per million

TABLE 5A: SOIL ANALYTICAL DATA - BTEX, MTBE, & TRPH - CONFIRMATION EXCAVATION SAMPLES

Facility Name: Former JWH LTD / Telco Gas Station
FDEP Facility No. 29/8735902

Sample ID	Date Collected	Sample Depth (BGS)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)	TRPH (ppm)
FDEP Leachability-Based SCTL			**0.007**	**0.5**	**0.6**	**0.2**	**0.09**	**340**
FDEP Residential Direct Exposure-Based SCTL			**1.2**	**7,500**	**1,500**	**130**	**4,400**	**460**
D2SW(-9')	07/31/12	9	0.0021 I	0.00076 I	0.42	0.02700	0.00013 U	67
MW-2B (-16')	07/30/12	16	0.0036	0.0026	0.0022 I	0.0054	0.00016 U	6.3 U
MW-3B(-14')	07/30/12	14	0.0038	0.0031	0.0072	0.0160	0.00017 U	6.1 U
A3SW (-10)	08/01/12	10	0.00081 I	0.0069	0.064	0.100	0.00017 U	6.9 U
A7SW (-9)	08/01/12	9	0.00015 U	0.00037 U	0.0015 I	0.00011 U	0.00014 U	5.6 U
D10SW (-9)	08/01/12	9	0.00051 I	0.00045 I	0.0035	0.0013	0.00013 U	6.0 U
K3SW (-10)	08/01/12	10	0.0020	0.0020	0.005	0.032	0.00014 U	79
K8SW (-10)	08/01/12	10	0.0012 I	0.010	0.045	**0.3**	0.00015 U	5.6 U
F2SW (-9')	07/30/12	9	**0.015**	0.010	0.0170	0.0140	0.00019 U	5.8 U
G10SW (-9')	07/30/12	9	**0.0087**	0.00096 I	0.0320	0.0048	0.00018 U	6.4 U

OVA = organic vapor analyzer
ppm = parts per million (milligrams per kilogram [mg/kg])
MTBE = Methyl tert-butyl ether
TRPHs = Total Recoverable Petroleum Hydrocarbons
I = (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
SCTL = FDEP Soil Cleanup Target Level per Chapter 62-777 of the Florida Administrative Code
Red/bold type indicates that the concentration exceed FDEP Soil Cleanup Target Level

TABLE 5B: SOIL ANALYTICAL DATA - PAHs - EXCAVATION - CONFIRMATION EXCAVATION SAMPLES

Facility Name: Former JWH LTD / Telco Gas Station
FDEP Facility No. 29/8735902

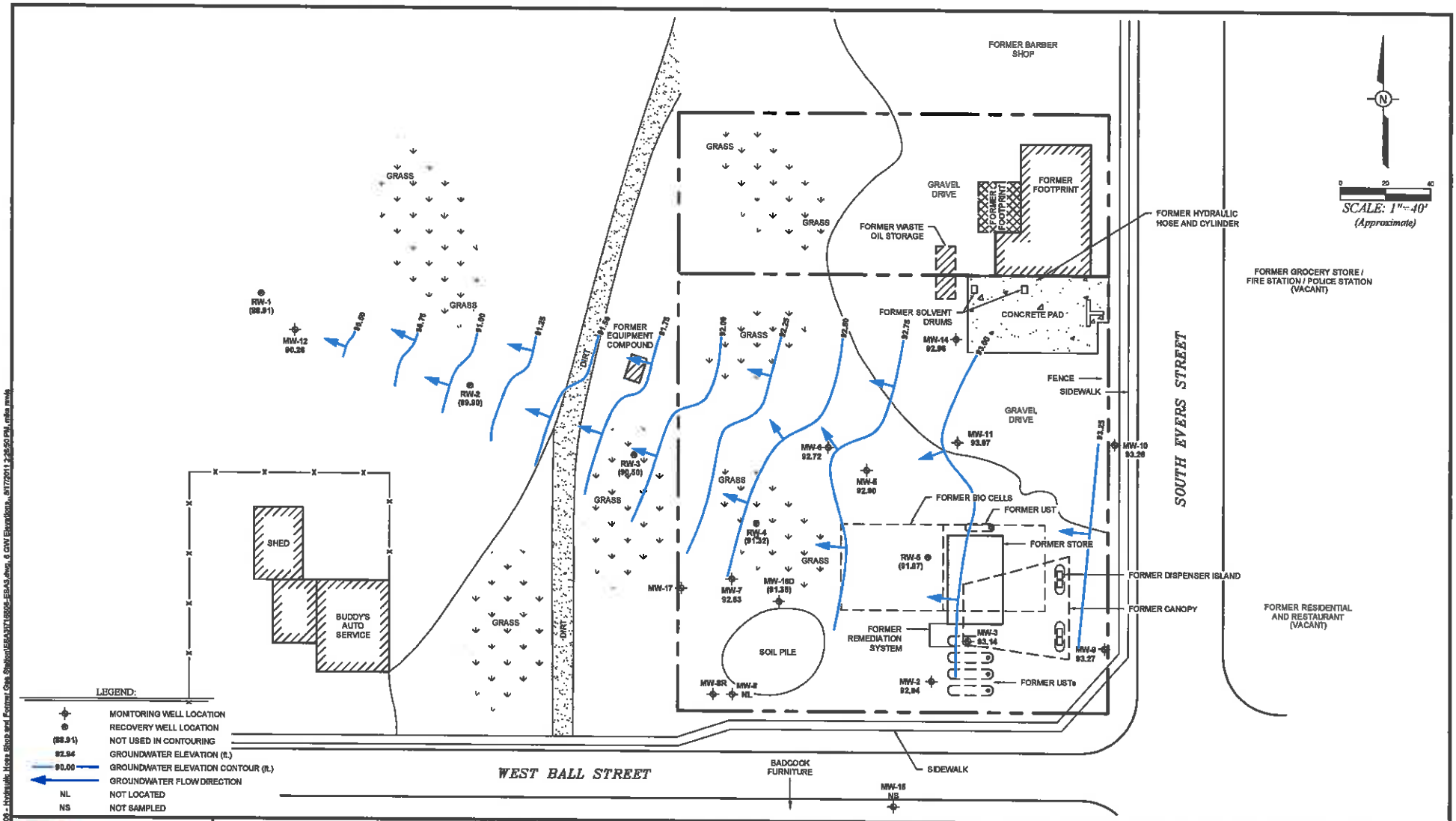
Sample ID	Date Collected	Depth (bgs)	Acenaphthene (ppm)	Acenaphthylene (ppm)	Anthracene (ppm)	Benzo(a)anthracene (ppm)	Benzo(a)pyrene (ppm)	Benzo(b)fluoranthene (ppm)	Benzo(g,h,i)perylene (ppm)	Benzo(k)fluoranthene (ppm)	Chrysene (ppm)
FDEP Leachability-Based SCTL			**2.1**	**27**	**2500**	**0.8**	**8**	**2.4**	**32000**	**24**	**77**
FDEP Residential Direct Exposure-Based SCTL			**2400**	**1800**	**21000**	**#**	**0.1**	**#**	**2500**	**#**	**#**
D2SW(-9')	07/31/12	9	0.0026 U	0.0027 U	0.0021 U	0.0032 I	0.0041 I	0.0033 U	0.0084 U	0.0023 U	0.0027 I
MW-2B (-16')	07/30/12	16	0.0028 U	0.0029 U	0.0022 U	0.0020 U	0.0026 U	0.0036 U	0.0091 U	0.0025 U	0.0016 U
MW-3B(-14')	07/30/12	14	0.0027 U	0.0028 U	0.0022 U	0.0019 U	0.0025 U	0.0034 U	0.0087 U	0.0024 U	0.0015 U
A3SW (-10)	08/01/12	10	0.0039 I	0.0031 U	0.0033 I	0.0021 U	0.0029 U	0.0039 U	0.0099 U	0.0027 U	0.0017 U
A7SW (-9)	08/01/12	9	0.0025 U	0.0026 U	0.0020 U	0.0018 U	0.0024 U	0.0032 U	0.0081 U	0.0022 U	0.0014 U
D10SW (-9)	08/01/12	9	0.0026 U	0.0028 U	0.0021 U	0.0019 U	0.0025 U	0.0034 U	0.0086 U	0.0024 U	0.0015 U
K3SW (-10)	08/01/12	10	0.0022 U	0.0023 U	0.012	0.0016 U	0.0021 U	0.0073 I	0.0073 U	0.0020 U	0.0013 U
K8SW (-10)	08/01/12	10	0.0025 U	0.0026 U	0.0063 I	0.0078	0.0024 U	0.0032 U	0.0081 U	0.0022 U	0.0065
F2SW (-9')	07/30/12	9	0.0025 U	0.0027 U	0.0020 U	0.0018 U	0.0024 U	0.0033 U	0.0083 U	0.0023 U	0.0014 U
G10SW (-9')	07/30/12	9	0.0028 U	0.0029 U	0.0023 U	0.0020 U	0.0027 U	0.0036 U	0.0092 U	0.0025 U	0.0016 U

Sample ID	Date Collected	Depth (bgs)	Dibenzo(a,h)anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd)pyrene (ppm)	Methylnaphthalene, 1- (ppm)	Methylnaphthalene, 2- (ppm)	Naphthalene (ppm)	Phenanthrene (ppm)	Pyrene (ppm)
FDEP Leachability-Based SCTL			**0.7**	**1200**	**160**	**6.6**	**3.1**	**8.5**	**1.2**	**250**	**880**
FDEP Residential Direct Exposure-Based SCTL			**#**	**3200**	**2600**	**#**	**200**	**210**	**55**	**2200**	**2400**
D2SW(-9')	07/31/12	9	0.0089 U	0.0043 I	0.0022 U	0.0088 U	1.1	2.1	**1.4**	0.022	0.0084 U
MW-2B (-16')	07/30/12	16	0.0096 U	0.0030 U	0.0024 U	0.0095 U	0.0064 I	0.0095 I	0.0072 U	0.0037 U	0.0091 U
MW-3B(-14')	07/30/12	14	0.0092 U	0.0029 U	0.0023 U	0.0091 U	0.02	0.025	0.0083 I	0.0035 U	0.0087 U
A3SW (-10)	08/01/12	10	0.010 U	0.0051 I	0.0050 I	0.010 U	0.0073 I	0.0084 I	0.0079 U	0.013 I	0.0099 U
A7SW (-9)	08/01/12	9	0.0086 U	0.0027 U	0.0021 U	0.0085 U	0.0054 I	0.0052 I	0.0065 U	0.0034 I	0.0081 U
D10SW (-9)	08/01/12	9	0.0091 U	0.0029 U	0.0022 U	0.0090 U	0.0041 U	0.0035 U	0.0069 U	0.0035 U	0.0086 U
K3SW (-10)	08/01/12	10	0.0077 U	0.0024 U	0.0019 U	0.0076 U	0.87	1.6	0.56	0.047	0.021 I
K8SW (-10)	08/01/12	10	0.0086 U	0.011	0.0021 U	0.0085 U	0.21	0.34	0.049	0.034	0.012 I
F2SW (-9')	07/30/12	9	0.0088 U	0.0028 U	0.0022 U	0.0087 U	0.0040 U	0.0034 U	0.0066 U	0.0034 U	0.0083 U
G10SW (-9')	07/30/12	9	0.0097 U	0.0031 U	0.0024 U	0.0096 U	0.064	0.13	0.0073 U	0.0094 I	0.0092 U

bgs = below ground surface
ppm = parts per million (milligrams per kilogram [mg/kg])
I = (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
SCTL = FDEP Soil Cleanup Target Level per Chapter 62-777 of the Florida Administrative Code
Red/bold type indicates that the concentration exceed FDEP Soil Cleanup Target Level
* = Concentrations must be converted to Benzo (a) pyrene equivalents and compared to the direct exposure CTL for Benzo (a) pyrene.

PPM's Groundwater Flow Maps (2011-2015)

Attachment I



PPM CONSULTANTS, INC.

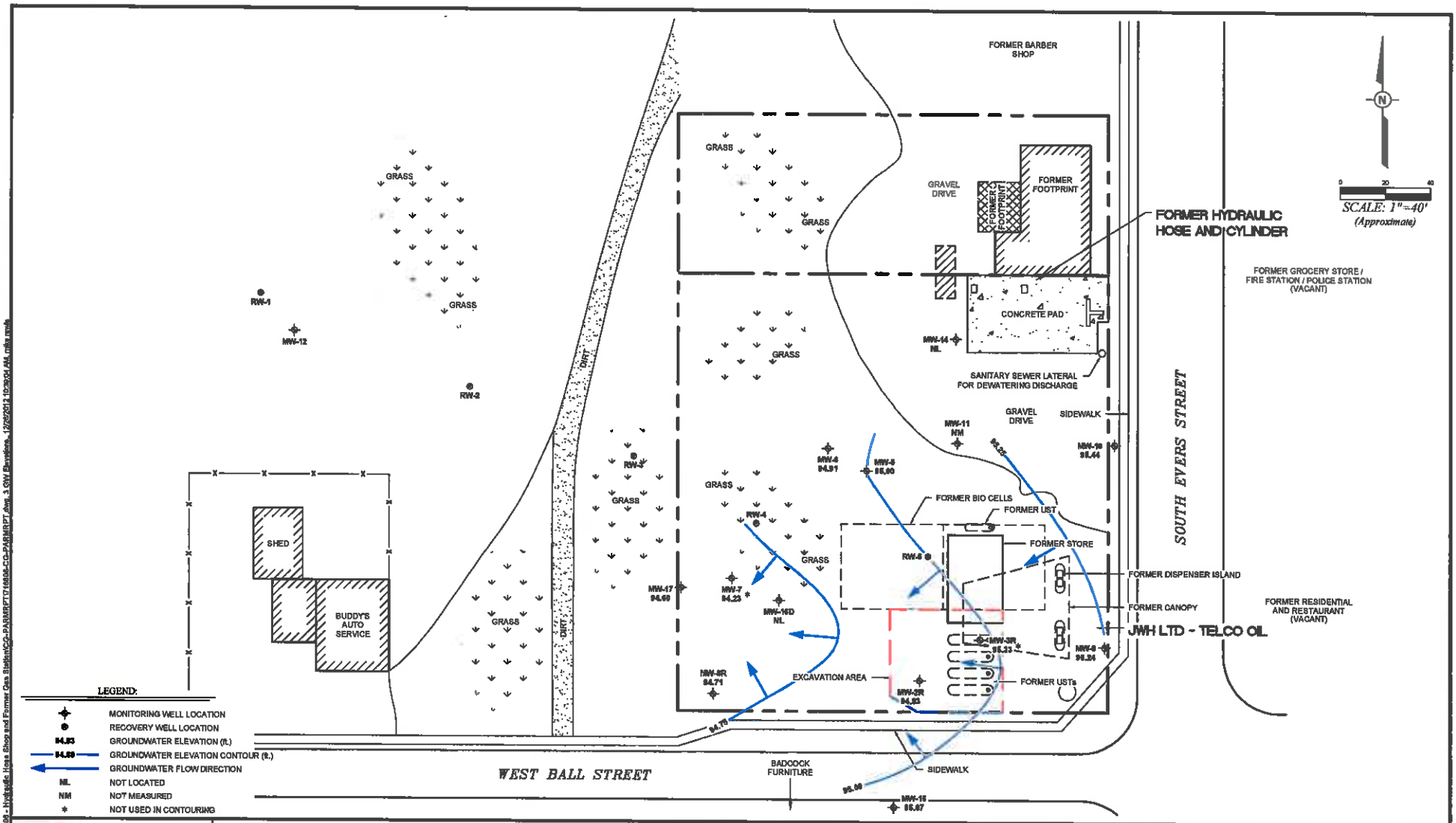
DRAWN BY:	DRAWN DATE:
MLR	08/16/11
PROJECT NUMBER:	BILLING GROUP:
716806	ESA3

CITY OF PLANT CITY
FORMER GAS STATION (JWH LTD / TELCO OIL) AND HYDRAULIC HOSE AND CYLINDER
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

GROUNDWATER CONTOUR MAP
(MAY 2011)

FIGURE NUMBER
6

Z:\City of Plant City\716806 - Hydraulic Hose Shop and Former Gas Station\ESA3\716806-ESA3.dwg, 6 GW Elevations, 8/17/2011 2:25:50 PM, mike mulq



PPM CONSULTANTS, INC.

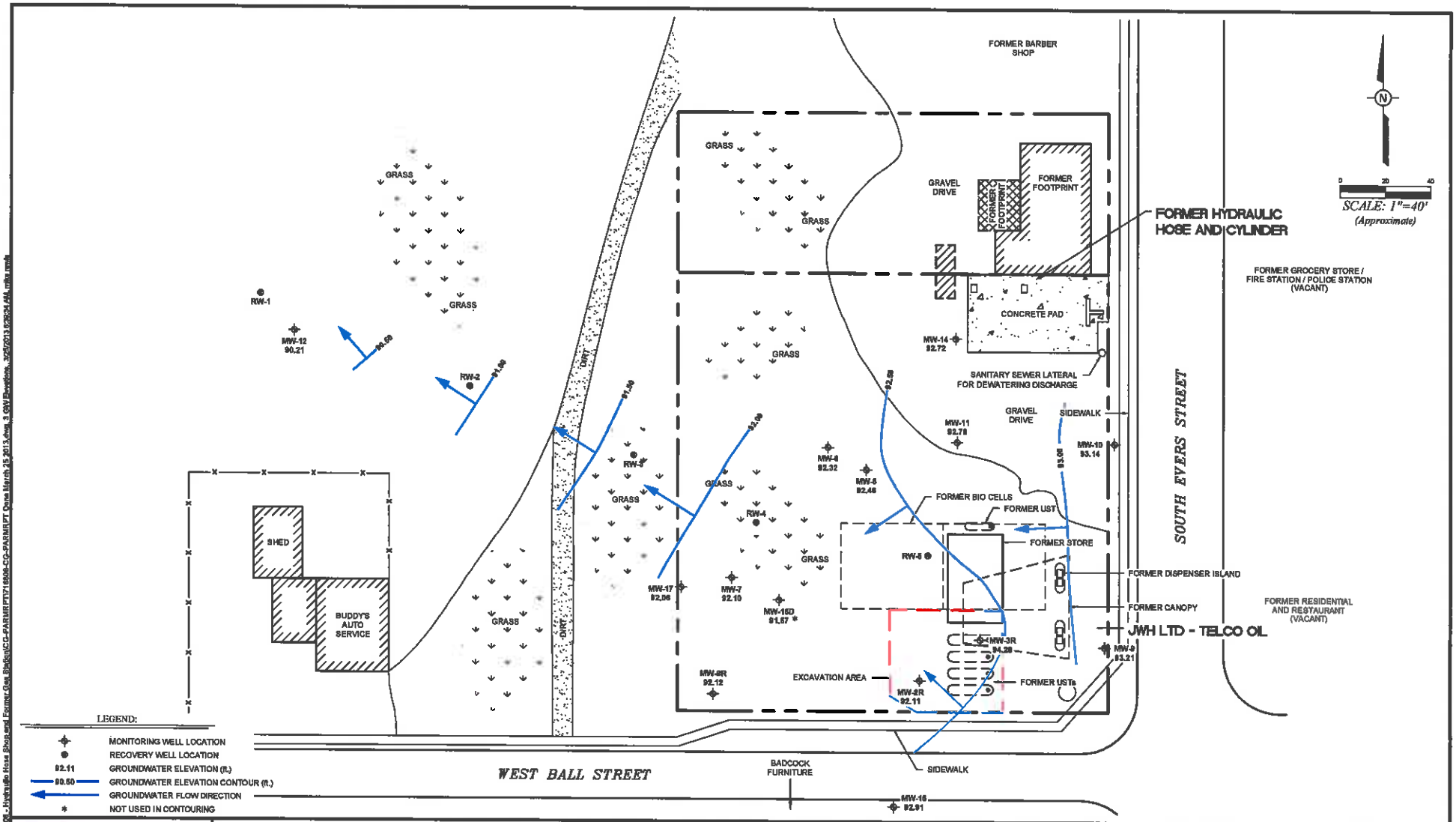
DRAWN BY:	DRAWN DATE:
MLR	12/26/12
PROJECT NUMBER:	BILLING GROUP:
716806	CG-PARMRPT

CITY OF PLANT CITY COMMUNITY REDEVELOPMENT AGENCY
FORMER HYDRAULIC HOSE / JWH, LTD-TELCO OIL
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

GROUNDWATER CONTOUR MAP
(OCTOBER 12, 2012)

FIGURE NUMBER
3

Z:\City of Plant City\716806 - Hydraulic Hose Shop and Former Gas Station\CG-PARMRPT\716806-CG-PARMRPT.dwg, 3 GW Elevations, 12/26/2012 10:30:04 AM, mlr, mlr



PPM CONSULTANTS, INC.

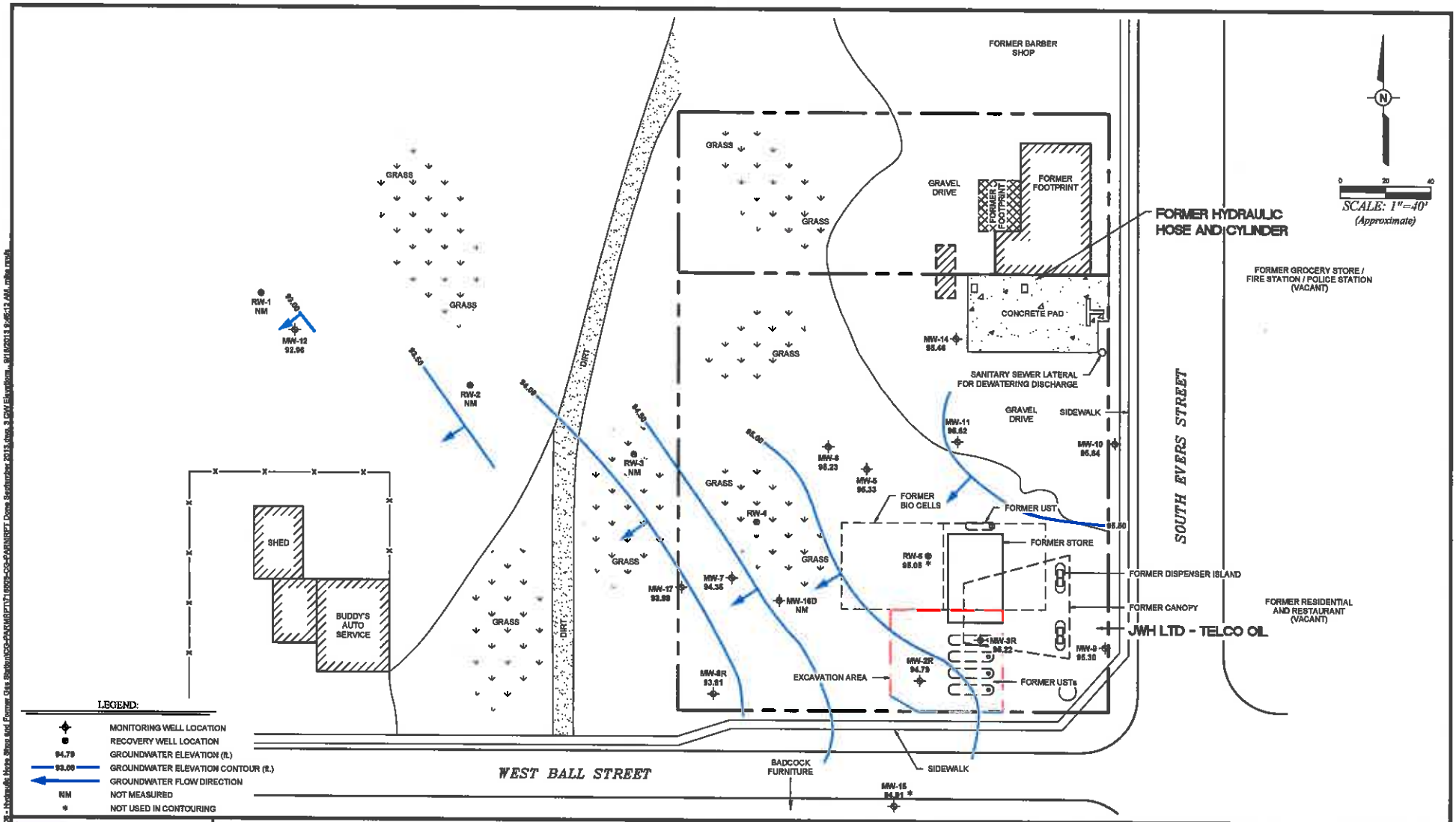
DRAWN BY: MLR	DRAWN DATE: 03/25/13
PROJECT NUMBER: 716806	BILLING GROUP: CG-PARMRPT

CITY OF PLANT CITY COMMUNITY REDEVELOPMENT AGENCY
FORMER HYDRAULIC HOSE / JWH, LTD-TELCO OIL
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

GROUNDWATER CONTOUR MAP
(FEBRUARY 6, 2013)

FIGURE NUMBER 3

Z:\City of Plant City\716806 - Hydraulic Hose Shop and Former Gas Station\CG-PARMRPT\716806-CG-PARMRPT Date March 25 2013.dwg, 3 GW Elevations, 3/25/2013 8:26:34 AM, mike.mill



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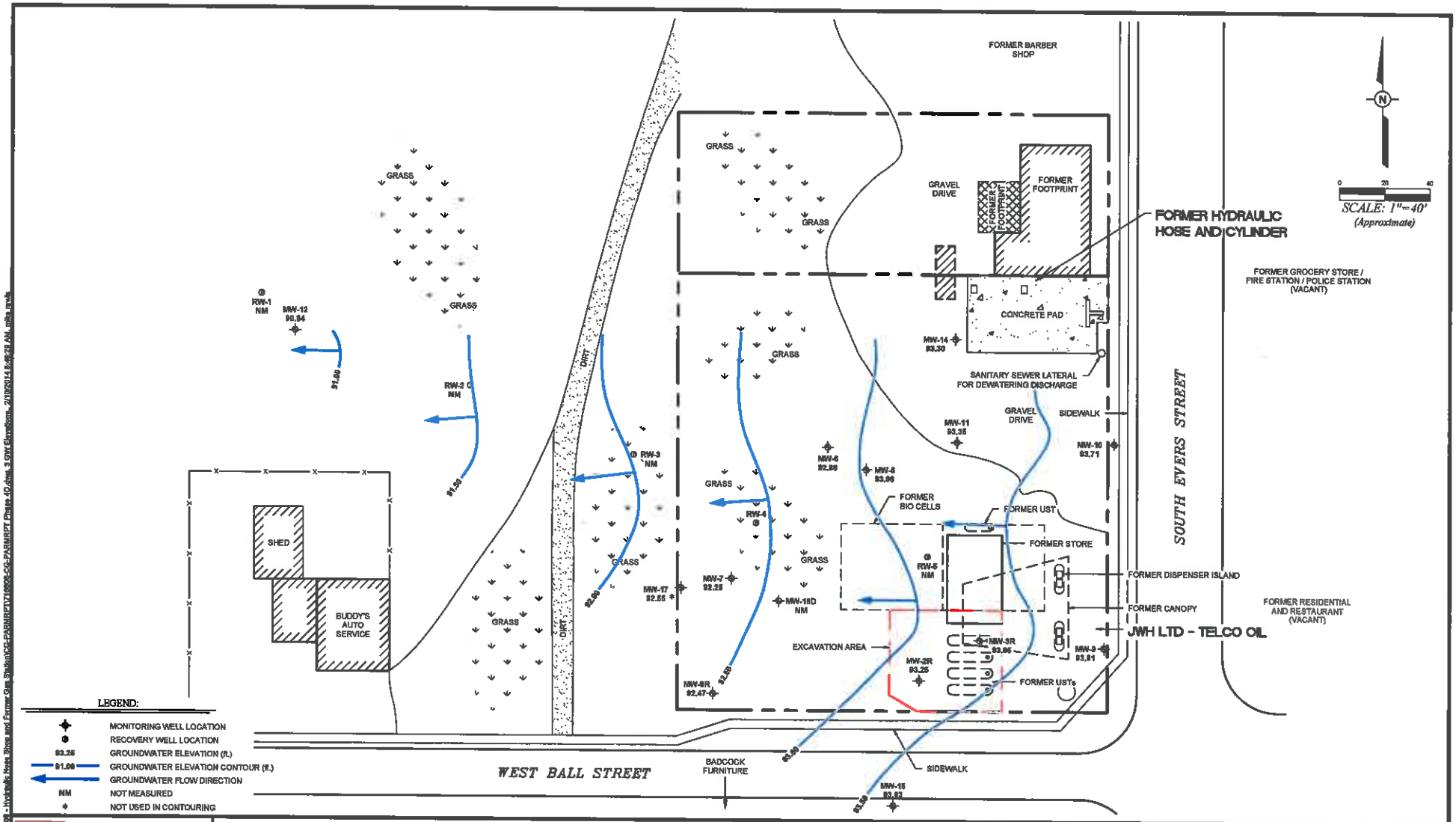
DRAWN BY:	DRAWN DATE:
MLR	09/11/13
PROJECT NUMBER:	BILLING GROUP:
716806	CG-PARMRPT

CITY OF PLANT CITY COMMUNITY REDEVELOPMENT AGENCY
FORMER HYDRAULIC HOSE / JWH, LTD-TELCO OIL
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

GROUNDWATER CONTOUR MAP
(AUGUST 22, 2013)

FIGURE NUMBER
3



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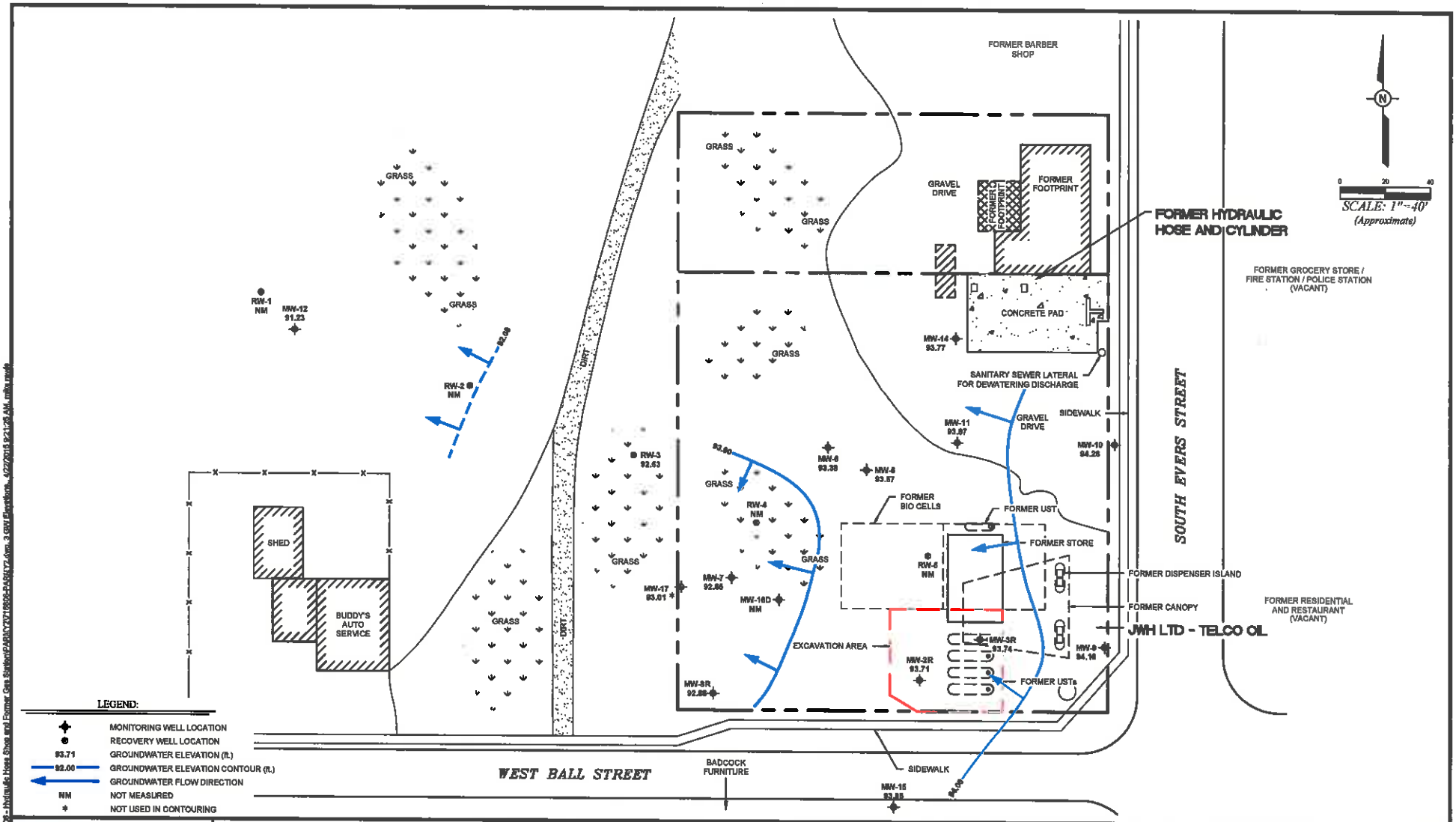
DRAWN BY: MLR	DRAWN DATE: 02/10/14
PROJECT NUMBER: 716806	BILLING GROUP: TASK 4D

CITY OF PLANT CITY COMMUNITY REDEVELOPMENT AGENCY
FORMER HYDRAULIC HOSE / JWH, LTD-TELCO OIL
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA
FDEP FACILITY ID: 29/8735902

GROUNDWATER CONTOUR MAP
(DECEMBER 3, 2013)

FIGURE NUMBER
3



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DRAWN BY: MLR	DRAWN DATE: 04/21/15
PROJECT NUMBER: 716806	BILLING GROUP: PARMY2

CITY OF PLANT CITY COMMUNITY REDEVELOPMENT AGENCY
FORMER HYDRAULIC HOSE / JWH, LTD-TELCO OIL
517-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA
FDEP FACILITY ID: 29/8735902

GROUNDWATER CONTOUR MAP
(APRIL 10, 2015)

FIGURE NUMBER
3

TABLE 1: GROUNDWATER ELEVATIONS

Facility Name: Hydraulic Hose (Former JWH LTD / Telco Gas Station)
FDEP Facility No. 29/8735902

WELL ID	MW-2			MW-2R			MW-3			MW-3R		
DIAMETER (inches)	4			2			4			2		
WELL DEPTH (feet)	12			12			12			12		
SCREEN INTERVAL (feet)	2.0-12.0			2.0-12.0			2.0-12.0			2.0-12.0		
TOC ELEVATION (feet)	99.76			99.35			99.77			99.65		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
03/19/04	94.12	5.64	0.00		NI		94.40	5.37	0.00		NI	
03/23/05	94.73	5.03	0.00		NI		96.01	3.76	0.00		NI	
08/02/06	94.21	5.55	0.00		NI		96.41	3.36	0.00		NI	
02/21/07	91.47	8.29	0.00		NI		94.85	4.92	0.00		NI	
02/11/11	92.55	7.21	0.00		NI		92.93	6.84	0.00		NI	
05/05/11	92.94	6.82	0.00		NI		93.14	6.63	0.00		NI	
07/05/12	93.63	6.13	0.00		NI		94.14	5.63	0.00		NI	
09/27/12	Destroyed			94.77	4.58	0.00	Destroyed			95.16	4.49	0.00
10/12/12				94.83	4.52	0.00				95.33	4.32	0.00
02/06/13				92.11	7.24	0.00				93.28	6.37	0.00
08/22/13				94.79	4.56	0.00				95.22	4.43	0.00
12/03/13				93.25	6.10	0.00				93.05	6.60	0.00
04/10/15				93.71	5.64	0.00				93.74	5.91	0.00

WELL ID	MW-5			MW-6			MW-7			MW-8		
DIAMETER (inches)	4			2			2			2		
WELL DEPTH (feet)	12			12			12			12		
SCREEN INTERVAL (feet)	2.0-12.0			2.0-12.0			2.0-12.0			2.0-12.0		
TOC ELEVATION (feet)	98.59			97.82			97.84			—		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
03/19/04	94.46	4.13	0.00	94.35	3.47	0.00	94.20	3.64	0.00		4.54	0.00
03/23/05	94.91	3.68	0.00	94.72	3.10	0.00	93.50	4.34	0.00		4.82	0.00
08/02/06	94.24	4.35	0.00	93.94	3.88	0.00	93.73	4.11	0.00		4.68	0.00
02/21/07	93.42	5.17	0.00	92.88	4.94	0.00	92.68	5.16	0.00		5.33	0.00
02/11/11	93.52	5.07	0.00	92.84	4.98	0.00		NM			Lost	
05/05/11	92.90	5.69	0.00	92.72	5.10	0.00	92.53	5.31	0.00		Lost	
07/05/12	94.34	4.25	0.00	94.37	3.45	0.00	94.37	3.47	0.00		4.44	
09/27/12	94.80	3.79	0.00		NM		94.45	3.39	0.00	Destroyed		
10/12/12	95.00	3.59	0.00	94.91	2.91	0.00	94.23	3.61	0.00			
02/06/13	92.46	6.13	0.00	92.32	5.50	0.00	92.10	5.74	0.00			
08/22/13	95.33	3.26	0.00	95.23	2.59	0.00	94.35	3.49	0.00			
12/03/13	93.06	5.53	0.00	92.86	4.96	0.00	92.23	5.61	0.00			
04/10/15	93.57	5.02	0.00	93.38	4.44	0.00	92.65	5.19	0.00			

TABLE 1: GROUNDWATER ELEVATIONS

Facility Name: Hydraulic Hose (Former JWH LTD / Telco Gas Station)
FDEP Facility No. 29/8735902

WELL ID	MW-8R			MW-9			MW-10			MW-11		
DIAMETER (inches)	1			2			2			2		
WELL DEPTH (feet)	12			12			12			12		
SCREEN INTERVAL (feet)	2.0-12.0			2.0-12.0			2.0-12.0			2.0-12.0		
TOC ELEVATION (feet)	97.89			100.00			99.15			99.14		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
03/19/04		NI		94.60	5.40	0.00	94.83	4.32	0.00	94.62	4.52	0.00
03/23/05		NI		94.87	5.13	0.00	95.34	3.81	0	95.30	3.84	0.00
08/02/06		NI		96.98	3.02	0.00	95.24	3.91	0.00	94.50	4.64	0.00
02/21/07		NI		94.19	5.81	0.00	94.28	4.87	0.00	93.87	5.27	0.00
02/11/11		NI		92.98	7.02	0.00	93.14	6.01	0.00	92.99	6.15	0.00
05/05/11		NI		93.27	6.73	0.00	93.26	5.89	0.00	93.07	6.07	0.00
07/07/11	91.12	6.77	0.00		NM			NM			NM	
07/05/12		NM		93.96	6.04	0.00	94.32	4.83	0.00		NM	
10/12/12	94.71	3.18	0.00	95.24	4.76	0.00	95.44	3.71	0.00		NM	
02/06/13	92.12	5.77	0.00	93.21	6.79	0.00	93.14	6.01	0.00	92.78	6.36	0.00
08/22/13	93.81	4.08	0.00	95.30	4.70	0.00	95.64	3.51	0.00	95.52	3.62	0.00
12/03/13	92.47	5.42	0.00	93.81	6.19	0.00	93.71	5.44	0.00	93.35	5.79	0.00
04/10/15	92.86	5.03	0.00	94.16	5.84	0.00	94.26	4.89	0.00	93.87	5.27	0.00

WELL ID	MW-12			MW-14			MW-15			MW-16D		
DIAMETER (inches)	2			2			2			2		
WELL DEPTH (feet)	12			12			12			23		
SCREEN INTERVAL (feet)	2.0-12.0			2.0-12.0			2.0-12.0			18.0-23.0		
TOC ELEVATION (feet)	94.81			98.59			99.74			97.94		
DATE	ELEV	DTW	FP		DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
03/19/04	92.76	2.05	0.00	94.58	4.01	0.00		NM		93.09	4.85	0.00
03/23/05	92.84	1.97	0.00	95.00	3.59	0.00	94.04	5.70	0.00	93.08	4.86	0.00
08/02/06	92.93	1.88	0.00	94.78	3.81	0.00	94.15	5.59	0.00	93.42	4.52	0.00
02/21/07	90.92	3.89	0.00		NM		93.25	6.49	0.00	92.02	5.92	0.00
02/11/11	91.12	3.69	0.00	92.97	5.62	0.00	92.13	7.61	0.00	91.04	6.90	0.00
05/05/11	90.26	4.55	0.00	92.96	5.63	0.00	99.74			91.35	6.59	0.00
07/05/12	92.91	1.90	0.00	94.39	4.20	0.00	92.91	6.83	0.00		NM	
10/12/12		NM			NM		95.07	4.67	0.00		NM	
02/06/13	90.21	4.60	0.00	92.72	5.87	0.00	92.91	6.83	0.00	91.57	6.37	0.00
08/22/13	92.96	1.85	0.00	95.46	3.13	0.00	94.91	4.83	0.00		NM	
12/03/13	90.84	3.97	0.00	93.30	5.29	0.00	93.63	6.11	0.00		NM	
04/10/15	91.23	3.58	0.00	93.77	4.82	0.00	93.95	5.79	0.00		NM	

TABLE 1: GROUNDWATER ELEVATIONS

Facility Name: Hydraulic Hose (Former JWH LTD / Telco Gas Station)
FDEP Facility No. 29/8735902

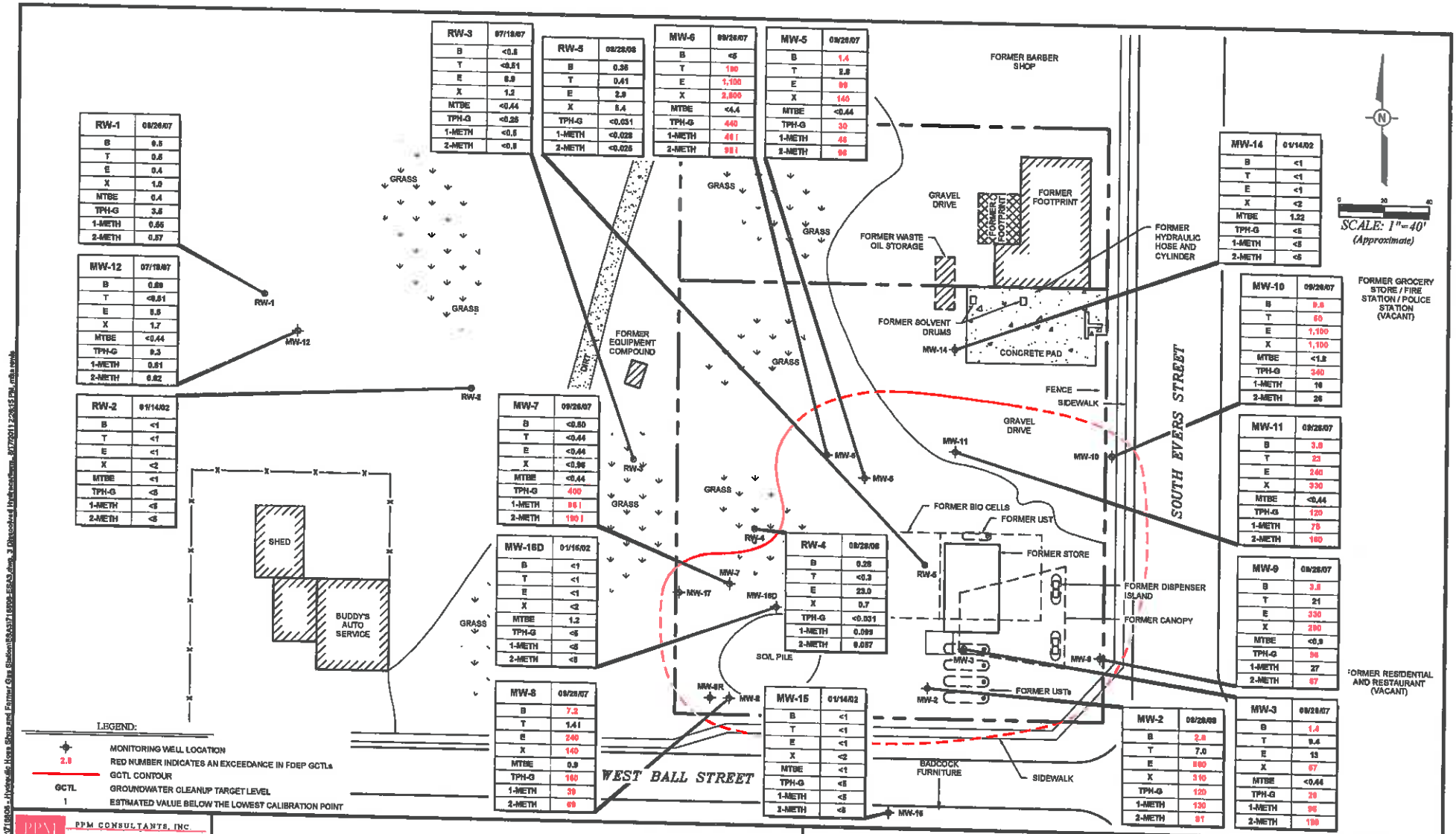
WELL ID	MW-17			RW-1*			RW-2*			RW-3*		
DIAMETER (inches)	1			6			6			6		
WELL DEPTH (feet)	12			6.8			7.3			7.0		
SCREEN INTERVAL (feet)	2.0-12.0			1.8 - 6.8			0 - 7.3			0 - 7.0		
TOC ELEVATION (feet)	97.38			94.24			95.27			96.14		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
03/19/04		NI		92.67	1.57	0.00	93.60	1.67	0.00	93.93	2.21	0.00
03/23/05		NI		92.12	2.12	0.00	93.02	2.25	0.00	93.74	2.40	0.00
08/02/06		NI		92.63	1.61	0.00	93.37	1.90	0.00	93.72	2.42	0.00
02/21/07		NI		90.47	3.77	0.00	91.41	3.86	0.00	91.82	4.32	0.00
02/11/11		NI		91.17	3.07	0.00	92.12	3.15	0.00	93.46	2.68	0.00
05/05/11		NI		88.91	5.33	0.00	89.90	5.37	0.00	90.51	5.63	0.00
07/07/11	91.41	5.97	0.00		NM			NM			NM	
07/05/12	94.43	2.95	0.00		NM			NM			NM	
10/12/12	94.60	2.78	0.00		NM			NM			NM	
02/06/13	92.06	5.32	0.00		NM			NM			NM	
08/22/13	93.98	3.40	0.00		NM			NM			NM	
12/03/13	92.55	4.83	0.00		NM			NM			NM	
04/10/15	93.01	4.37	0.00		NM			NM		92.63	3.51	0.00

WELL ID	RW-2*			RW-3*			RW-4*			RW-5*		
DIAMETER (inches)	6			6			6			6		
WELL DEPTH (feet)	7.3			7.0			8.0			7.0		
SCREEN INTERVAL (feet)	0 - 7.3			0 - 7.0			0 - 8.0			0 - 7.0		
TOC ELEVATION (feet)	95.27			96.14			97.43			98.00		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
03/19/04	93.60	1.67	0.00	93.93	2.21	0.00	94.21	3.22	0.00	94.44	3.56	0.00
03/23/05	93.02	2.25	0.00	93.74	2.40	0.00	93.10	4.33	0.00	91.48	6.52	0.00
08/02/06	93.37	1.90	0.00	93.72	2.42	0.00	93.43	4.00	0.00	97.02	0.98	0.00
02/21/07	91.41	3.86	0.00	91.82	4.32	0.00	93.16	4.27	0.00	95.12	2.88	0.00
02/11/11	92.12	3.15	0.00	93.46	2.68	0.00	92.58	4.85	0.00	92.93	5.07	0.00
05/05/11	89.90	5.37	0.00	90.51	5.63	0.00	91.32	6.11	0.00	91.87	6.13	0.00
07/05/12		NM			NM			NM		93.90	4.10	0.00
09/27/12		NM			NM			NM		94.64	3.36	0.00
02/06/13		NM			NM			NM		92.18	5.82	0.00
08/22/13		NM			NM			NM		95.05	2.95	0.00
12/03/13		NM			NM			NM		92.83	5.17	
04/10/15		NM		92.63	3.51	0.00		NM			NM	

2004 to 2008 data obtained from reports in Oculus (FDEP online document management system).
* Each Recovery Well (RW) top of casing (TOC) sits 1.3 feet below the ground surface. Well depths and screen intervals are from top of casing.
TOC elevations were re-surveyed during Phase III ESA activities. TOC elevations for MW-2R and MW-3R surveyed September 27, 2012.
NM = not measured
NI = not installed

PPM's Groundwater Plume Maps (2002-2015)

Attachment J



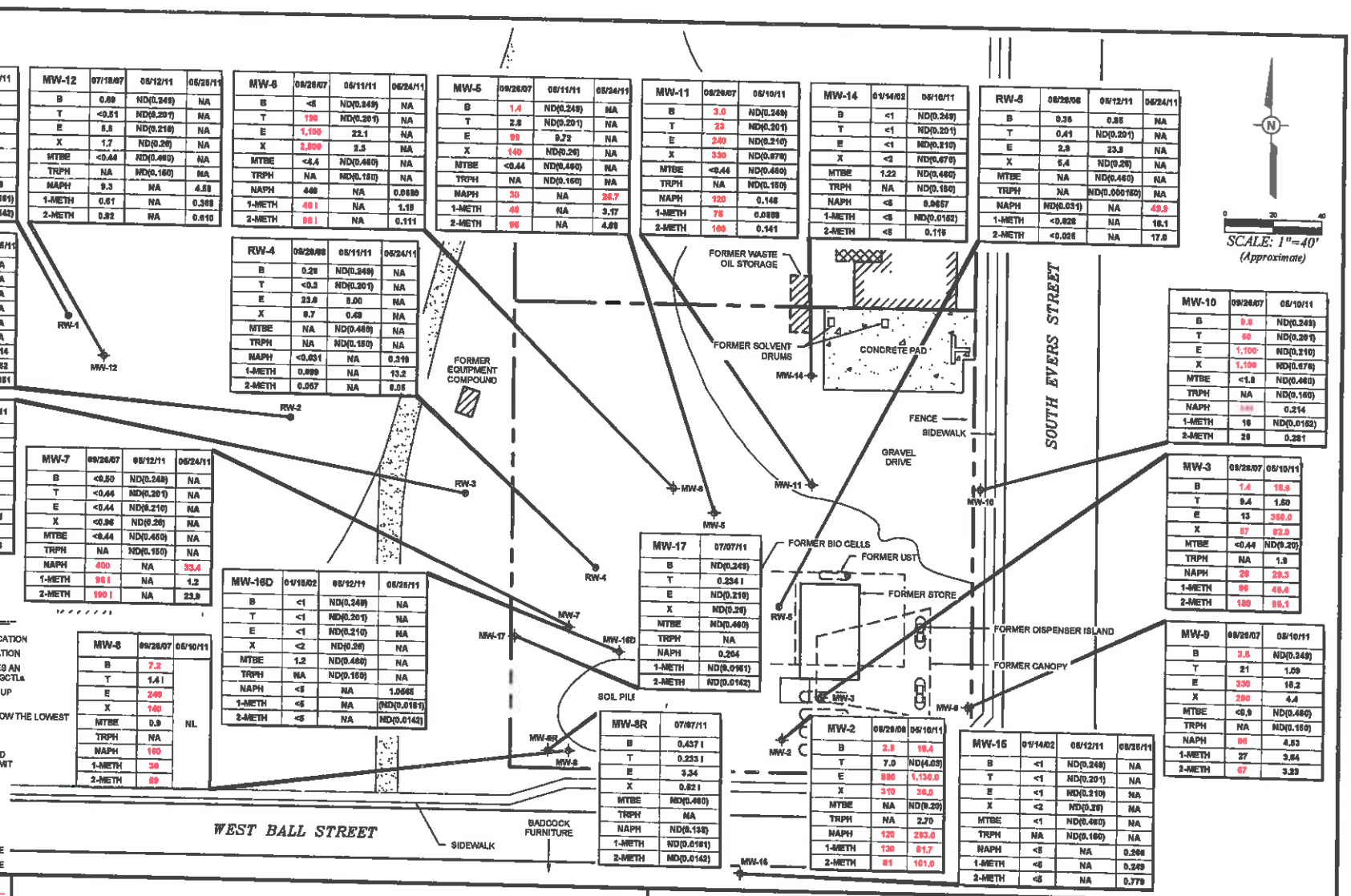
PPM CONSULTANTS, INC.

DRAWN BY:	DRAWN DATE:
MLR	08/16/11
PROJECT NUMBER: 716806	BILLING GROUP: ESA3

CITY OF PLANT CITY
FORMER GAS STATION (JWH LTD / TELCO OIL) AND HYDRAULIC HOSE AND CYLINDER
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

DISSOLVED HYDROCARBON CONCENTRATIONS IN GROUNDWATER
(2002 TO 2008)

FIGURE NUMBER
3



RW-1	09/26/07	05/12/11	05/25/11
B	0.5	ND(0.249)	NA
T	0.5	ND(0.201)	NA
E	0.4	ND(0.210)	NA
X	1.0	ND(0.26)	NA
MTBE	0.4	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	3.5	NA	1.119
1-METH	0.55	NA	ND(0.0161)
2-METH	0.57	NA	ND(0.0142)

RW-2	01/14/02	05/12/11	05/25/11
B	<1	ND(0.249)	NA
T	<1	ND(0.201)	NA
E	<1	ND(0.210)	NA
X	<2	ND(0.26)	NA
MTBE	<1	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	<5	NA	0.114
1-METH	<5	NA	0.162
2-METH	<5	NA	0.0351

RW-3	07/18/07	05/12/11	05/25/11
B	<0.5	ND(0.249)	NA
T	<0.51	ND(0.201)	NA
E	0.9	ND(0.210)	NA
X	1.2	ND(0.26)	NA
MTBE	<0.44	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	<0.26	NA	0.0791
1-METH	<0.5	NA	0.188
2-METH	<0.5	NA	0.0416

MW-12	07/18/07	05/12/11	05/25/11
B	0.89	ND(0.249)	NA
T	<0.51	ND(0.201)	NA
E	5.5	ND(0.210)	NA
X	1.7	ND(0.26)	NA
MTBE	<0.44	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	9.3	NA	4.59
1-METH	0.61	NA	0.368
2-METH	0.92	NA	0.610

MW-6	09/26/07	05/11/11	05/24/11
B	<5	ND(0.249)	NA
T	190	ND(0.201)	NA
E	1,100	22.1	NA
X	2,800	2.3	NA
MTBE	<4.4	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	440	NA	0.0699
1-METH	46 I	NA	1.18
2-METH	88 I	NA	0.111

RW-4	09/26/07	05/11/11	05/24/11
B	0.21	ND(0.249)	NA
T	<0.3	ND(0.201)	NA
E	23.8	8.00	NA
X	9.7	0.49	NA
MTBE	NA	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	<0.031	NA	0.310
1-METH	0.999	NA	13.2
2-METH	0.067	NA	0.05

MW-7	09/26/07	05/12/11	05/24/11
B	<0.50	ND(0.249)	NA
T	<0.44	ND(0.201)	NA
E	<0.44	ND(0.210)	NA
X	<0.96	ND(0.26)	NA
MTBE	<0.44	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	400	NA	33.4
1-METH	96 I	NA	1.2
2-METH	190 I	NA	23.9

MW-16D	01/15/02	05/12/11	05/25/11
B	<1	ND(0.249)	NA
T	<1	ND(0.201)	NA
E	<1	ND(0.210)	NA
X	<2	ND(0.26)	NA
MTBE	1.2	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	<5	NA	1.0668
1-METH	<5	NA	(ND(0.0161)
2-METH	<5	NA	ND(0.0142)

MW-8	09/26/07	05/10/11
B	7.2	NL
T	1.4 I	
E	240	
X	140	
MTBE	0.9	
TRPH	NA	
NAPH	160	
1-METH	38	
2-METH	69	

MW-5	09/26/07	05/11/11	05/24/11
B	1.4	ND(0.249)	NA
T	2.8	ND(0.201)	NA
E	99	9.72	NA
X	140	ND(0.26)	NA
MTBE	<0.44	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	30	NA	25.7
1-METH	48	NA	3.17
2-METH	96	NA	4.69

MW-11	09/26/07	05/10/11
B	3.0	ND(0.249)
T	23	ND(0.201)
E	240	ND(0.210)
X	330	ND(0.678)
MTBE	<0.44	ND(0.460)
TRPH	NA	ND(0.150)
NAPH	120	0.146
1-METH	76	0.0699
2-METH	100	0.141

MW-14	01/14/02	05/10/11
B	<1	ND(0.249)
T	<1	ND(0.201)
E	<1	ND(0.210)
X	<2	ND(0.678)
MTBE	<1	ND(0.460)
TRPH	NA	ND(0.150)
NAPH	<5	0.0657
1-METH	<5	ND(0.0162)
2-METH	<5	0.116

RW-5	09/26/06	05/12/11	05/24/11
B	0.36	0.85	NA
T	0.41	ND(0.201)	NA
E	2.9	23.3	NA
X	5.4	ND(0.26)	NA
MTBE	NA	ND(0.460)	NA
TRPH	NA	ND(0.000162)	NA
NAPH	ND(0.031)	NA	49.9
1-METH	<0.026	NA	16.1
2-METH	<0.026	NA	17.8

MW-10	09/26/07	05/10/11
B	9.8	ND(0.249)
T	50	ND(0.201)
E	1,100	ND(0.210)
X	1,100	ND(0.678)
MTBE	<1.8	ND(0.460)
TRPH	NA	ND(0.150)
NAPH	540	0.214
1-METH	16	ND(0.0162)
2-METH	28	0.281

MW-3	09/26/07	05/10/11
B	1.4	18.8
T	9.4	1.50
E	13	350.0
X	57	82.0
MTBE	<0.44	ND(0.20)
TRPH	NA	1.9
NAPH	26	29.3
1-METH	99	46.4
2-METH	180	98.1

MW-9	09/26/07	05/10/11
B	3.5	ND(0.249)
T	21	1.09
E	330	18.2
X	290	4.4
MTBE	<0.9	ND(0.460)
TRPH	NA	ND(0.150)
NAPH	96	4.53
1-METH	27	3.64
2-METH	67	3.23

MW-17	07/07/11
B	ND(0.249)
T	0.234 I
E	ND(0.210)
X	ND(0.26)
MTBE	ND(0.460)
TRPH	NA
NAPH	0.204
1-METH	ND(0.0161)
2-METH	ND(0.0142)

MW-8R	07/07/11
B	0.437 I
T	0.233 I
E	3.34
X	0.82 I
MTBE	ND(0.460)
TRPH	NA
NAPH	ND(0.138)
1-METH	ND(0.0161)
2-METH	ND(0.0142)

MW-2	09/26/06	05/10/11
B	2.3	18.4
T	7.0	ND(4.03)
E	880	1,130.0
X	310	38.0
MTBE	NA	ND(0.20)
TRPH	NA	2.70
NAPH	120	293.0
1-METH	130	61.7
2-METH	81	101.0

MW-15	01/14/02	05/12/11	05/25/11
B	<1	ND(0.249)	NA
T	<1	ND(0.201)	NA
E	<1	ND(0.210)	NA
X	<2	ND(0.26)	NA
MTBE	<1	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	<5	NA	0.266
1-METH	<5	NA	0.249
2-METH	<5	NA	0.779

NOTE:
CONCENTRATIONS REPORTED IN PARTS PER BILLION (ppb).

LEGEND:

- MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- 2,9 — RED NUMBER INDICATES AN EXCEEDANCE IN FDEP GCTLs
- GCTL — GROUNDWATER CLEANUP TARGET LEVEL
- I — ESTIMATED VALUE BELOW THE LOWEST CALIBRATION POINT
- NL — NOT LOCATED
- < — LESS THAN LAB METHOD METHOD DETECTION LIMIT
- B — BENZENE
- T — TOLUENE
- E — ETHYLBENZENE
- X — TOTAL XYLENES
- NAPH — NAPHTHALENE
- 1-METH — 1-METHYLNAPHTHALENE
- 2-METH — 2-METHYLNAPHTHALENE

PPM CONSULTANTS, INC.

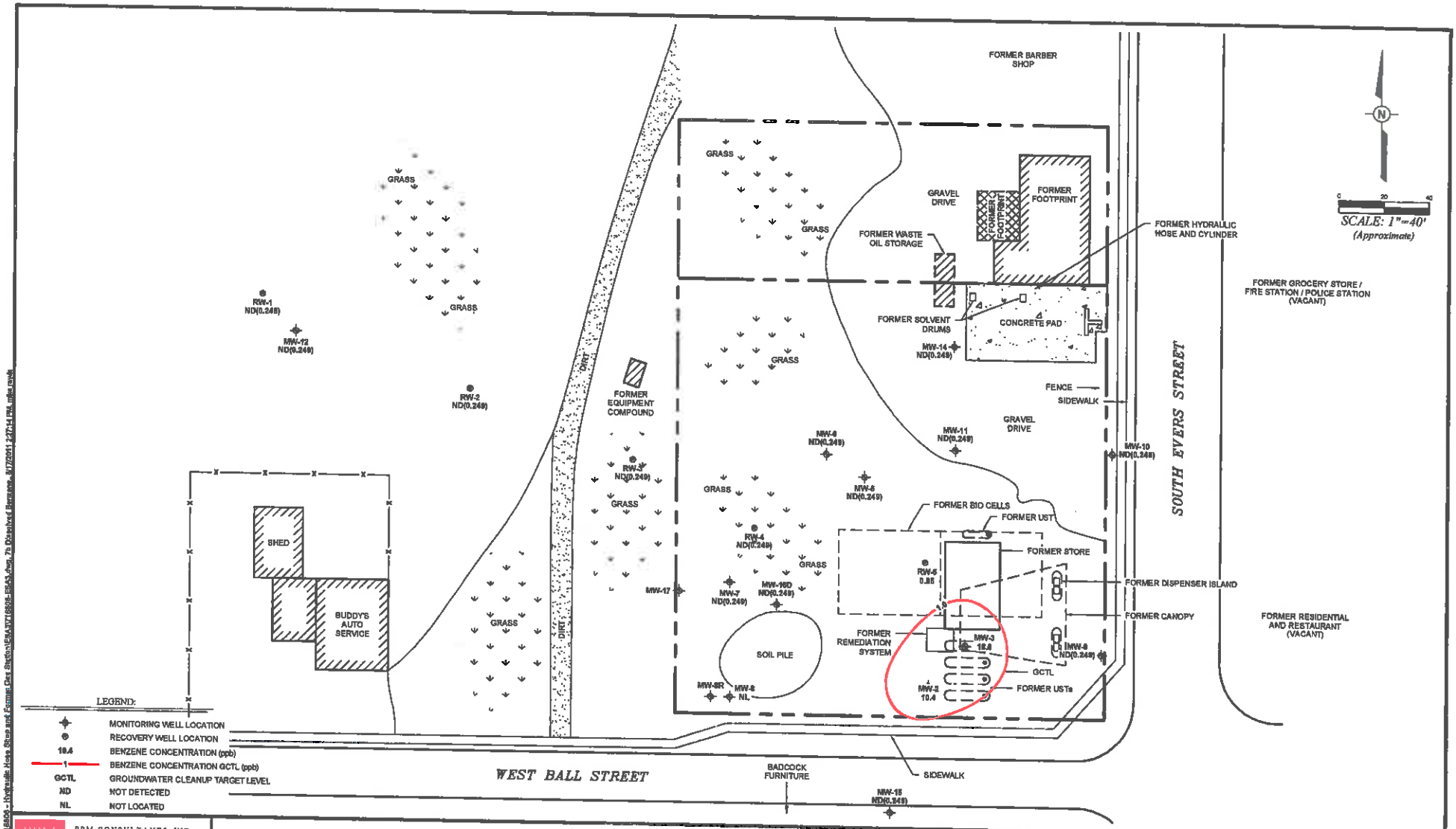
DRAWN BY: MLR	DRAWN DATE: 08/16/11
PROJECT NUMBER: 716806	BILLING GROUP: ESA3

CITY OF PLANT CITY
FORMER GAS STATION (JWH LTD / TELCO OIL) AND HYDRAULIC HOSE AND CYLINDER
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

DISSOLVED HYDROCARBON CONCENTRATIONS IN GROUNDWATER
(2002 TO 2011)

FIGURE NUMBER 7A

Z:\City of Plant City\716806 - Hydraulic Hose Shop and Former Gas Station\ESA3\716806-ESA3.dwg, 7a Dissolved Hydrocarbons, 8/17/2011 2:20:29 PM, mlr



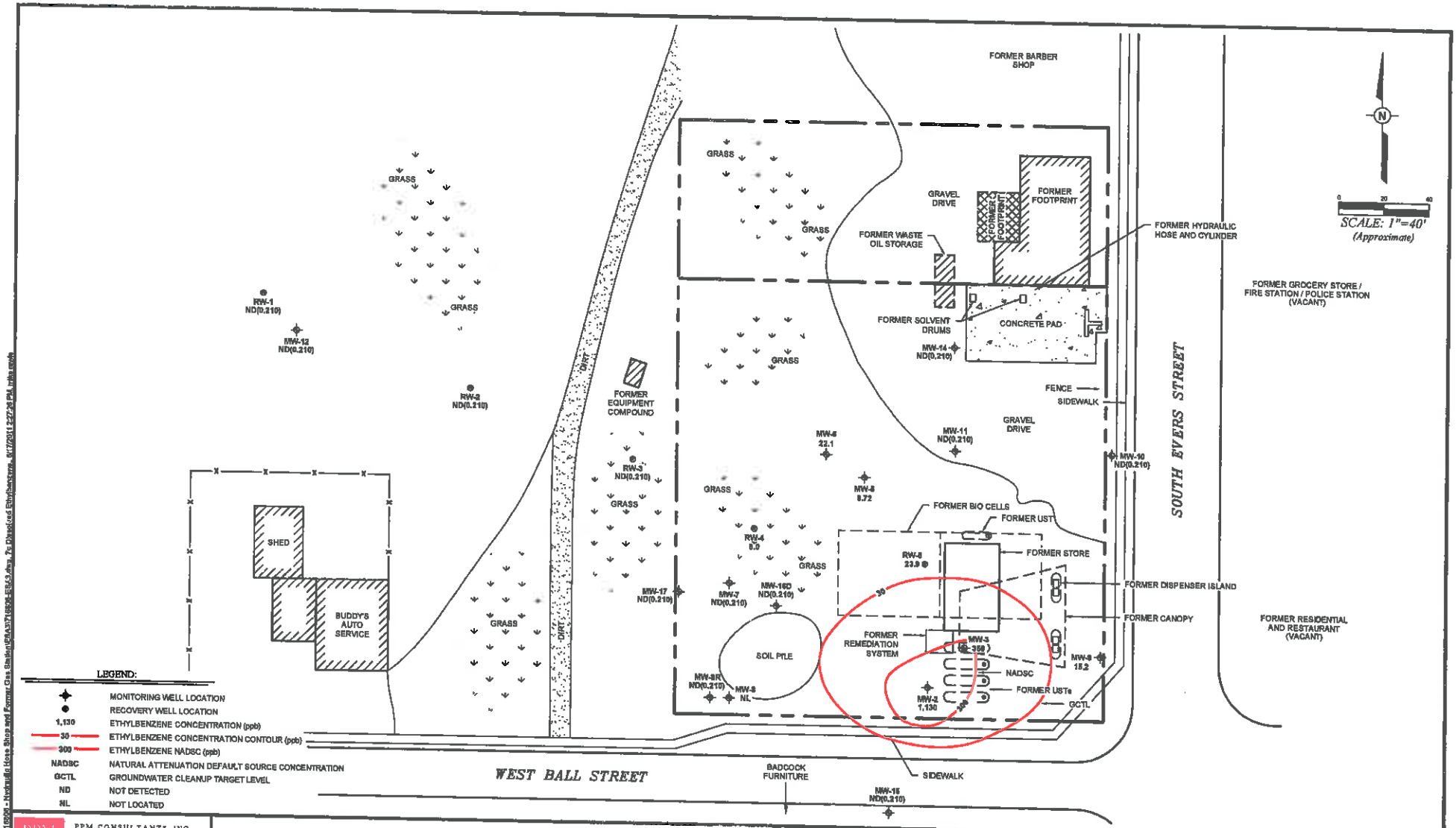
PPM CONSULTANTS, INC

DRAWN BY:	DRAWN DATE:
MLR	06/21/11
PROJECT NUMBER:	BILLING GROUP:
716806	ESA3

CITY OF PLANT CITY
FORMER GAS STATION (JWH LTD / TELCO OIL) AND HYDRAULIC HOSE AND CYLINDER
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

DISSOLVED BENZENE CONCENTRATIONS IN GROUNDWATER
(MAY - JULY 2011)

FIGURE NUMBER
7B



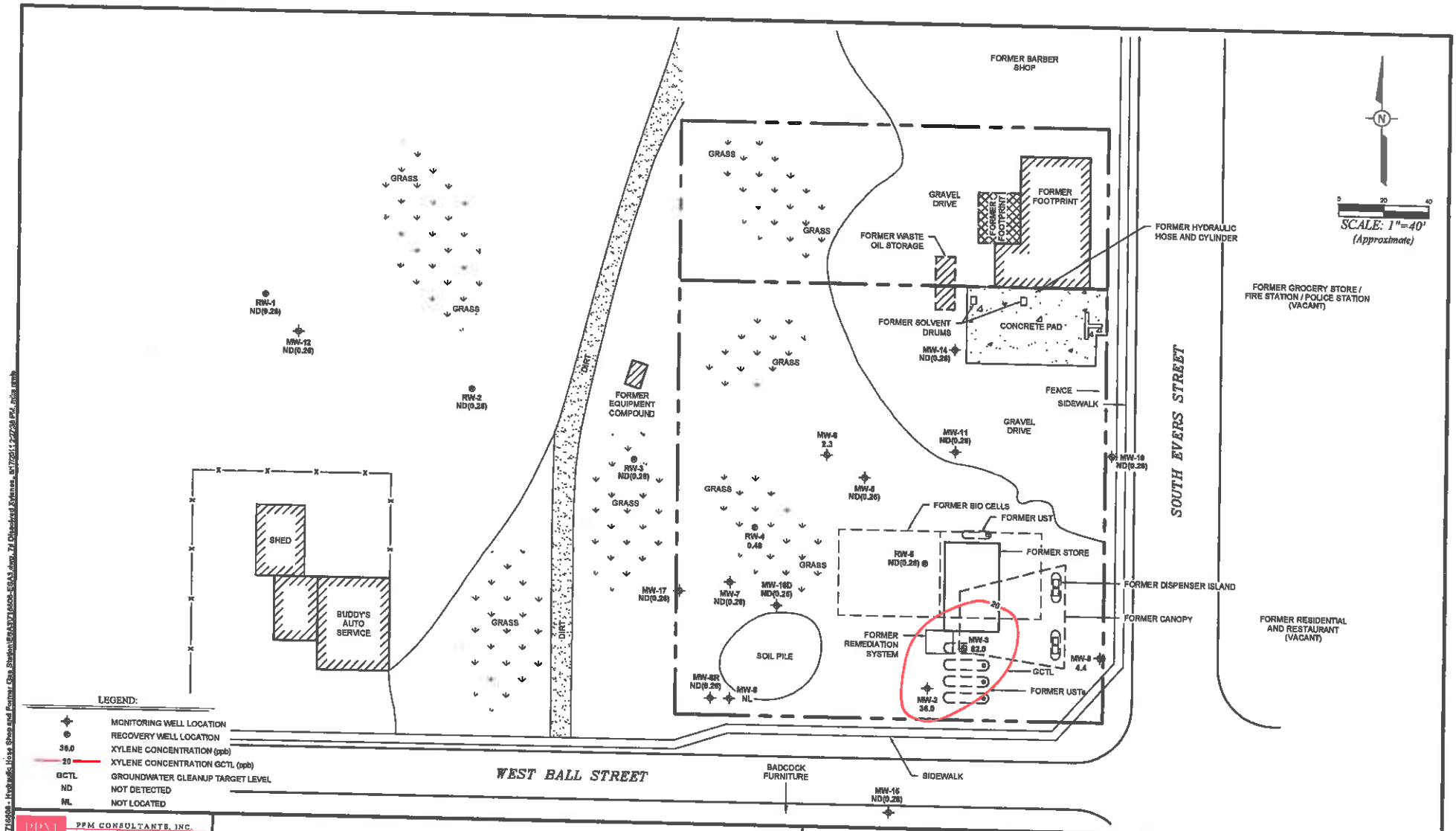
PPM CONSULTANTS, INC

DRAWN BY:	DRAWN DATE:
MLR	06/21/11
PROJECT NUMBER: 716806	BILLING GROUP: ESA3

CITY OF PLANT CITY
FORMER GAS STATION (JWH LTD / TELCO OIL) AND HYDRAULIC HOSE AND CYLINDER
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

DISSOLVED ETHYLBENZENE CONCENTRATIONS IN GROUNDWATER
(MAY - JULY 2011)

FIGURE NUMBER
7C



PPM CONSULTANTS, INC.

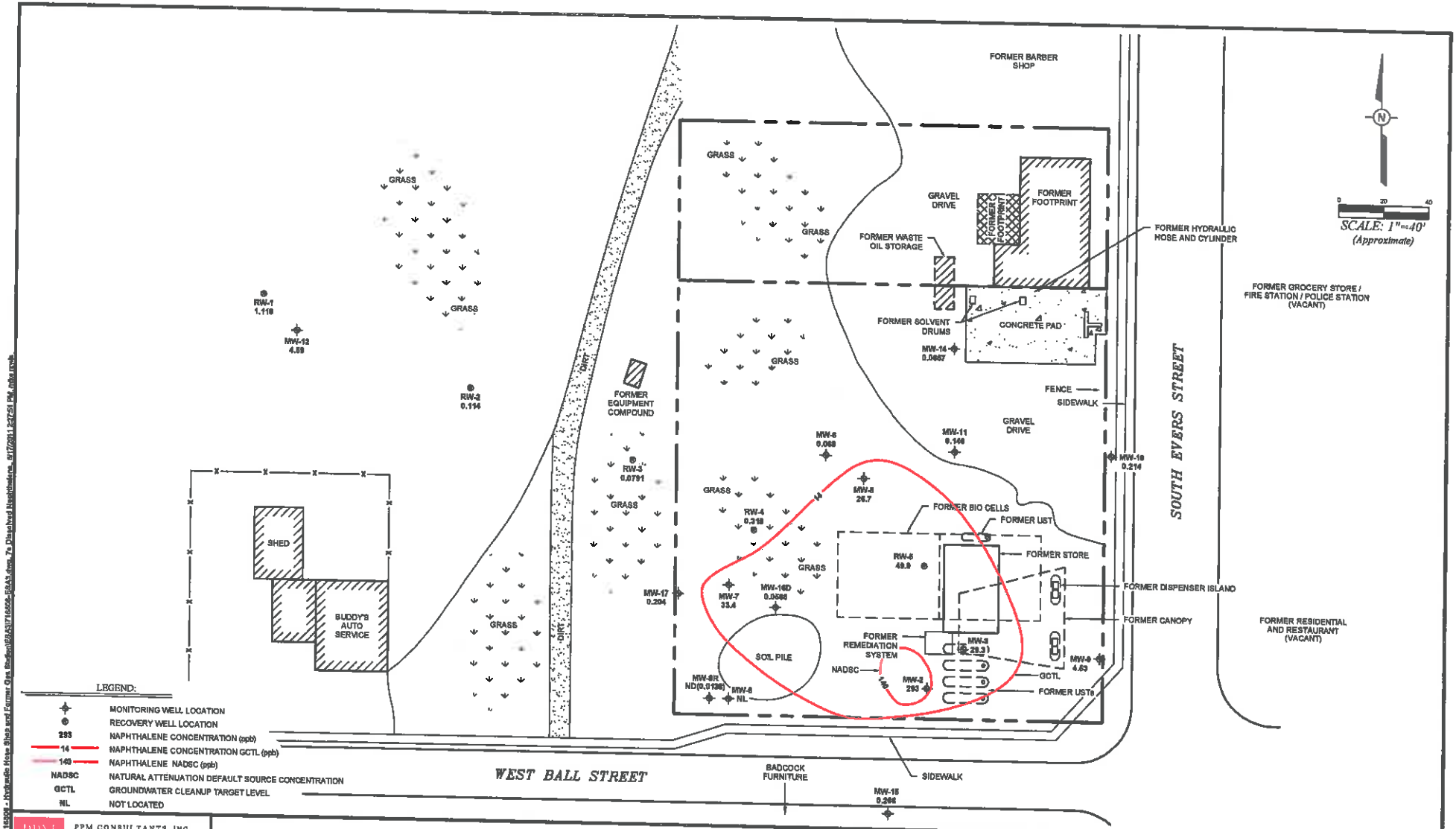
DRAWN BY: MLR	DRAWN DATE: 06/21/11
PROJECT NUMBER: 716806	BILLING GROUP: ESA3

CITY OF PLANT CITY

FORMER GAS STATION (JWH LTD / TELCO OIL) AND HYDRAULIC HOSE AND CYLINDER
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

DISSOLVED XYLENE CONCENTRATIONS IN GROUNDWATER
(MAY - JULY 2011)

FIGURE NUMBER 7D



PPM CONSULTANTS, INC.

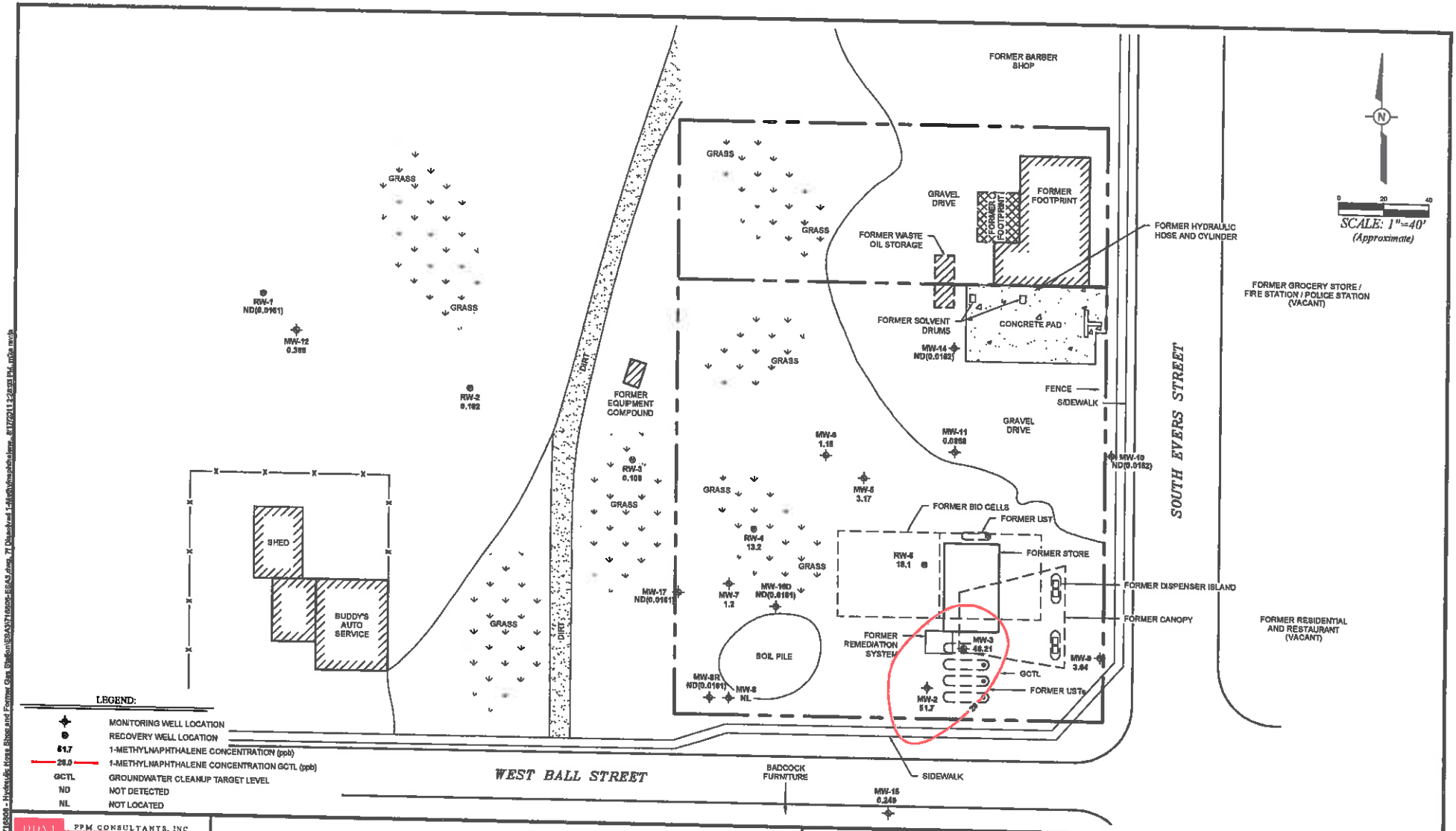
DRAWN BY:	DRAWN DATE:
MLR	06/21/11
PROJECT NUMBER:	BILLING GROUP:
716806	ESA3

CITY OF PLANT CITY
FORMER GAS STATION (JWH LTD / TELCO OIL) AND HYDRAULIC HOSE AND CYLINDER
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

DISSOLVED NAPHTHALENE CONCENTRATIONS IN GROUNDWATER
(MAY - JULY 2011)

FIGURE NUMBER
7E

Z:\City of Plant City\716806 - Hydraulic Hose Shop and Former Gas Station\ESA3\716806-ESA3.dwg, 7b Dissolved Naphthalene, 6/17/2011 2:27:51 PM, mlaverde



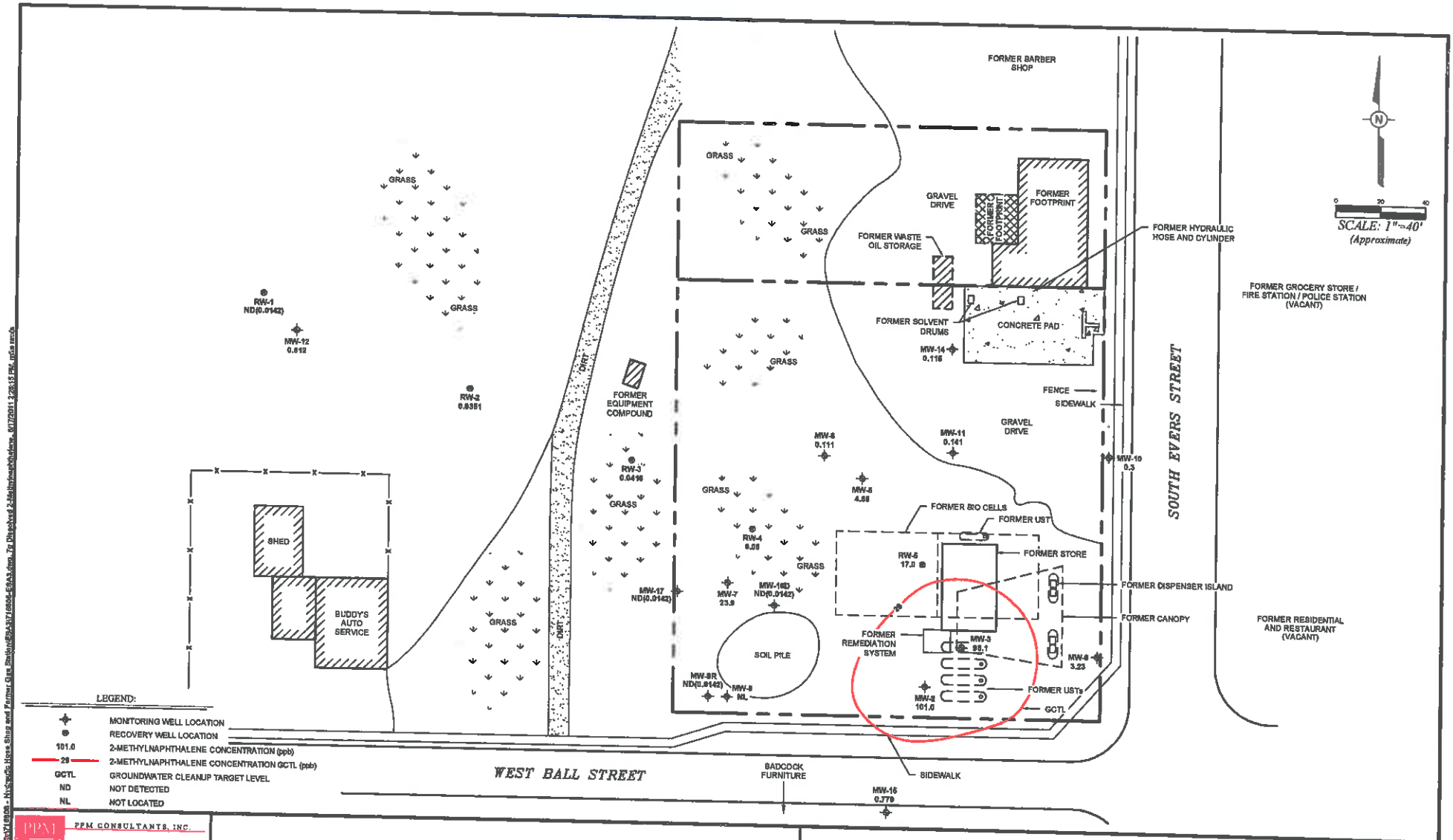
PPM CONSULTANTS, INC.

DRAWN BY:	DRAWN DATE:
MLR	06/21/11
PROJECT NUMBER:	BILLING GROUP:
716806	ESA3

CITY OF PLANT CITY
FORMER GAS STATION (JWH LTD / TELCO OIL) AND HYDRAULIC HOSE AND CYLINDER
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

DISSOLVED 1-METHYLNAPHTHALENE CONCENTRATIONS IN GROUNDWATER
(MAY - JULY 2011)

FIGURE NUMBER
7F



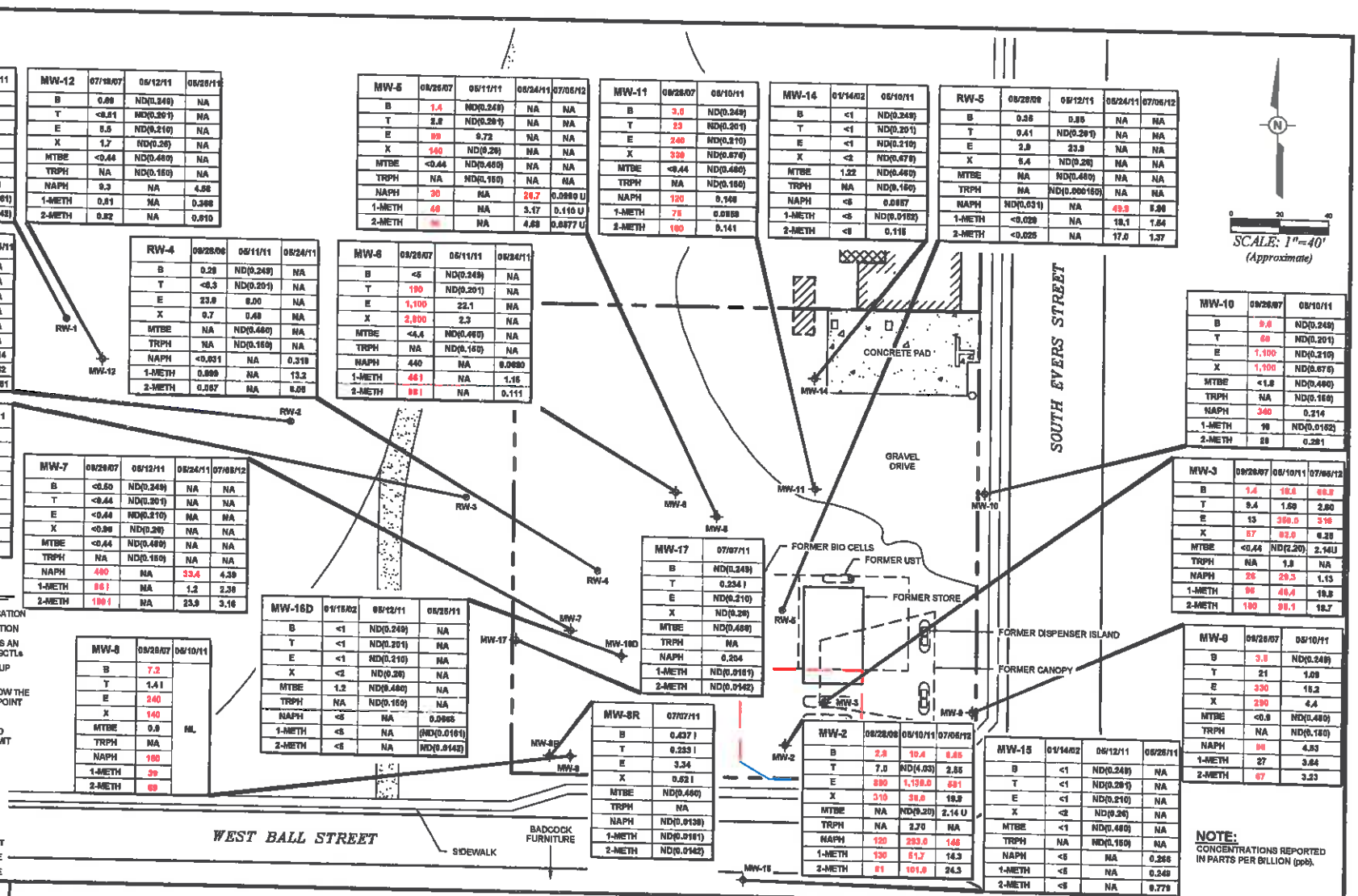
PPM CONSULTANTS, INC.

DRAWN BY:	DRAWN DATE:
MLR	06/21/11
PROJECT NUMBER:	BILLING GROUP:
716806	ESA3

CITY OF PLANT CITY
FORMER GAS STATION (JWH LTD / TELCO OIL) AND HYDRAULIC HOSE AND CYLINDER
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

DISSOLVED 2-METHYLNAPHTHALENE CONCENTRATIONS IN GROUNDWATER
(MAY - JULY 2011)

FIGURE NUMBER
7G



RW-1	09/28/07	05/12/11	05/25/11
B	0.5	ND(0.249)	NA
T	0.5	ND(0.201)	NA
E	0.4	ND(0.210)	NA
X	1.0	ND(0.26)	NA
MTBE	0.4	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	3.5	NA	1.119
1-METH	0.55	NA	ND(0.0161)
2-METH	0.57	NA	ND(0.0142)

RW-2	01/14/02	05/12/11	05/25/11
B	<1	ND(0.249)	NA
T	<1	ND(0.201)	NA
E	<1	ND(0.210)	NA
X	<2	ND(0.26)	NA
MTBE	<1	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	<5	NA	0.114
1-METH	<5	NA	0.162
2-METH	<5	NA	0.0361

RW-3	07/18/07	05/12/11	05/25/11
B	<0.5	ND(0.249)	NA
T	<0.51	ND(0.201)	NA
E	0.9	ND(0.210)	NA
X	1.2	ND(0.26)	NA
MTBE	<0.44	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	<0.25	NA	0.0791
1-METH	<0.5	NA	0.109
2-METH	<0.5	NA	0.0418

MW-12	07/18/07	05/12/11	05/25/11
B	0.69	ND(0.249)	NA
T	<0.51	ND(0.201)	NA
E	5.5	ND(0.210)	NA
X	1.7	ND(0.26)	NA
MTBE	<0.44	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	9.3	NA	4.56
1-METH	0.81	NA	0.368
2-METH	0.82	NA	0.010

RW-4	09/28/07	05/11/11	05/24/11
B	0.28	ND(0.249)	NA
T	<0.3	ND(0.201)	NA
E	23.0	8.00	NA
X	0.7	0.49	NA
MTBE	NA	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	<0.031	NA	0.319
1-METH	0.899	NA	13.2
2-METH	0.057	NA	0.05

MW-7	09/28/07	05/12/11	05/24/11	07/05/12
B	<0.50	ND(0.249)	NA	NA
T	<0.44	ND(0.201)	NA	NA
E	<0.44	ND(0.210)	NA	NA
X	<0.96	ND(0.26)	NA	NA
MTBE	<0.44	ND(0.460)	NA	NA
TRPH	NA	ND(0.150)	NA	NA
NAPH	480	NA	33.4	4.39
1-METH	96 I	NA	1.2	2.36
2-METH	190 I	NA	23.9	3.16

MW-8	09/28/07	05/10/11
B	7.2	ML
T	1.4 I	
E	240	
X	140	
MTBE	0.9	
TRPH	NA	
NAPH	190	
1-METH	39	
2-METH	69	

MW-16D	01/15/02	05/12/11	05/25/11
B	<1	ND(0.249)	NA
T	<1	ND(0.201)	NA
E	<1	ND(0.210)	NA
X	<2	ND(0.26)	NA
MTBE	1.2	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	<5	NA	0.0965
1-METH	<5	NA	(ND(0.0161)
2-METH	<5	NA	ND(0.0142)

MW-5	09/28/07	05/11/11	05/24/11	07/05/12
B	1.4	ND(0.249)	NA	NA
T	2.8	ND(0.201)	NA	NA
E	89	9.72	NA	NA
X	140	ND(0.26)	NA	NA
MTBE	<0.44	ND(0.460)	NA	NA
TRPH	NA	ND(0.150)	NA	NA
NAPH	30	NA	26.7	0.0980 U
1-METH	48	NA	3.17	0.110 U
2-METH	[illegible]	NA	4.69	0.0877 U

MW-6	09/28/07	05/11/11	05/24/11
B	<5	ND(0.249)	NA
T	190	ND(0.201)	NA
E	1,100	22.1	NA
X	2,800	2.3	NA
MTBE	<4.4	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	440	NA	0.0980
1-METH	46 I	NA	1.15
2-METH	88 I	NA	0.111

MW-17	07/07/11
B	ND(0.249)
T	0.234 I
E	ND(0.210)
X	ND(0.26)
MTBE	ND(0.460)
TRPH	NA
NAPH	0.204
1-METH	ND(0.0161)
2-METH	ND(0.0142)

MW-8R	07/07/11
B	0.437 I
T	0.223 I
E	3.34
X	0.62 I
MTBE	ND(0.460)
TRPH	NA
NAPH	ND(0.0139)
1-METH	ND(0.0161)
2-METH	ND(0.0142)

MW-11	09/28/07	05/10/11
B	3.0	ND(0.249)
T	23	ND(0.201)
E	240	ND(0.210)
X	320	ND(0.676)
MTBE	<0.44	ND(0.460)
TRPH	NA	ND(0.150)
NAPH	120	0.146
1-METH	75	0.0959
2-METH	160	0.141

MW-14	01/14/02	05/10/11
B	<1	ND(0.249)
T	<1	ND(0.201)
E	<1	ND(0.210)
X	<2	ND(0.676)
MTBE	1.22	ND(0.460)
TRPH	NA	ND(0.150)
NAPH	<5	0.0957
1-METH	<5	ND(0.0162)
2-METH	<5	0.116

MW-2	09/28/07	05/10/11	07/05/12
B	2.8	10.4	5.85
T	7.0	ND(4.03)	2.55
E	880	1,130.0	531
X	310	38.0	19.9
MTBE	NA	ND(9.20)	2.14 U
TRPH	NA	2.70	NA
NAPH	120	293.0	146
1-METH	130	51.7	14.3
2-METH	21	101.0	24.3

RW-5	09/28/07	05/12/11	05/24/11	07/05/12
B	0.36	0.85	NA	NA
T	0.41	ND(0.201)	NA	NA
E	2.9	23.9	NA	NA
X	5.4	ND(0.26)	NA	NA
MTBE	NA	ND(0.460)	NA	NA
TRPH	NA	ND(0.000150)	NA	NA
NAPH	ND(0.031)	NA	49.3	5.96
1-METH	<0.029	NA	19.1	1.54
2-METH	<0.025	NA	17.0	1.37

MW-15	01/14/02	05/12/11	05/25/11
B	<1	ND(0.249)	NA
T	<1	ND(0.201)	NA
E	<1	ND(0.210)	NA
X	<2	ND(0.26)	NA
MTBE	<1	ND(0.460)	NA
TRPH	NA	ND(0.150)	NA
NAPH	<5	NA	0.266
1-METH	<5	NA	0.249
2-METH	<5	NA	0.779

MW-10	09/28/07	05/10/11
B	9.6	ND(0.249)
T	69	ND(0.201)
E	1,100	ND(0.210)
X	1,100	ND(0.676)
MTBE	<1.8	ND(0.460)
TRPH	NA	ND(0.150)
NAPH	340	0.214
1-METH	19	ND(0.0162)
2-METH	29	0.291

MW-3	09/28/07	05/10/11	07/05/12
B	1.4	18.8	66.2
T	9.4	1.59	2.90
E	13	369.0	316
X	57	82.0	6.25
MTBE	<0.44	ND(2.20)	2.14U
TRPH	NA	1.8	NA
NAPH	26	29.3	1.13
1-METH	96	46.4	19.5
2-METH	190	98.1	18.7

MW-9	09/28/07	05/10/11
B	3.8	ND(0.249)
T	21	1.09
E	330	15.2
X	290	4.4
MTBE	<0.9	ND(0.460)
TRPH	NA	ND(0.150)
NAPH	94	4.53
1-METH	27	3.84
2-METH	67	3.23

LEGEND:

- MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- 2.8 — RED NUMBER INDICATES AN EXCEEDANCE IN FDEP GCTLs
- GCTL — GROUNDWATER CLEANUP TARGET LEVEL
- I — ESTIMATED VALUE BELOW THE LOWEST CALIBRATION POINT
- ML — NOT LOCATED
- < — LESS THAN LAB METHOD METHOD DETECTION LIMIT
- B — BENZENE
- T — TOLUENE
- E — ETHYLBENZENE
- X — TOTAL XYLENES
- NA — NOT ANALYZED
- NAPH — NAPHTHALENE
- ND / U — BELOW DETECTION LIMIT
- 1-METH — 1-METHYLNAPHTHALENE
- 2-METH — 2-METHYLNAPHTHALENE

NOTE:
CONCENTRATIONS REPORTED IN PARTS PER BILLION (ppb).

PPM CONSULTANTS, INC.

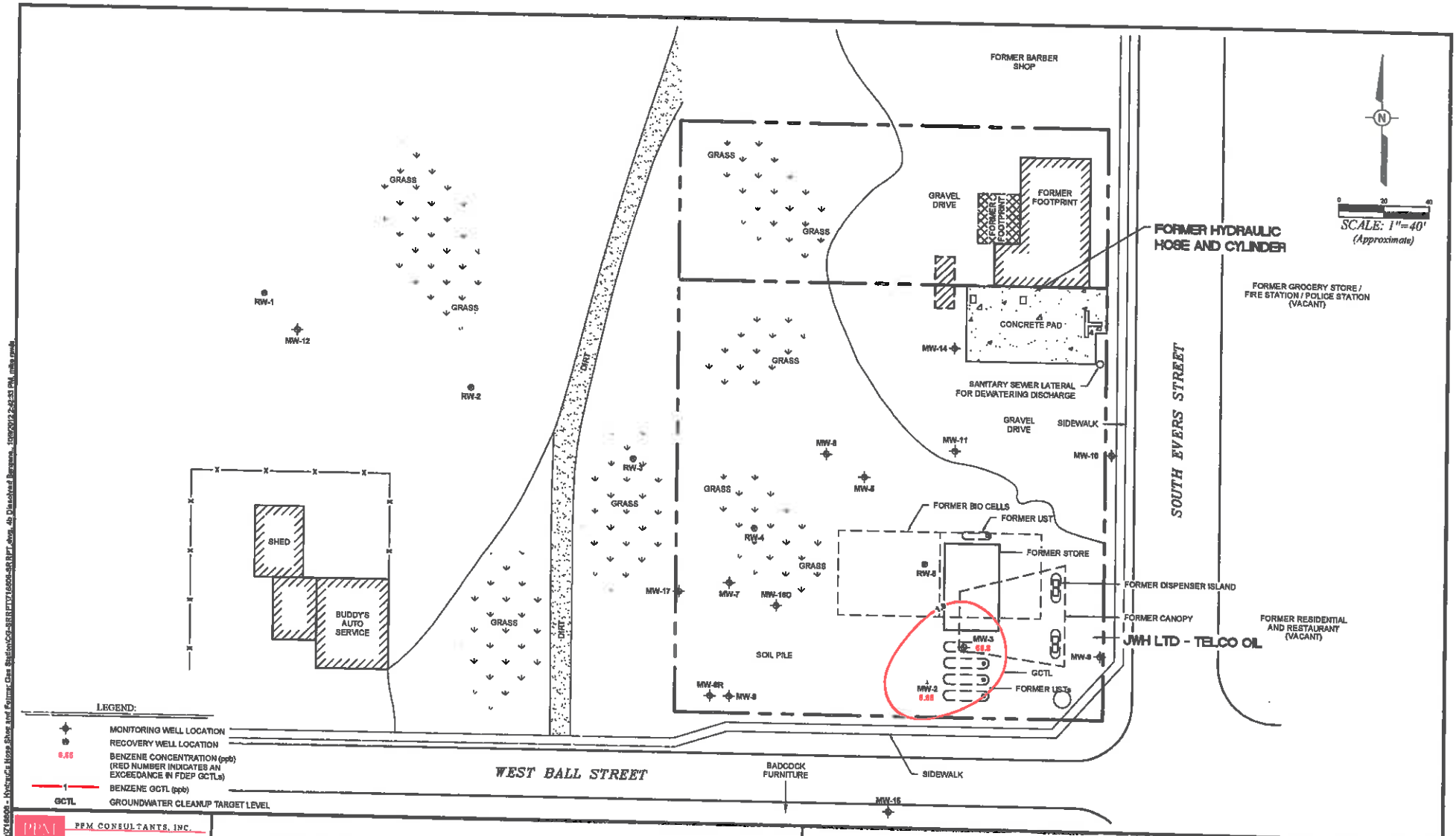
DRAWN BY:	DRAWN DATE:
MLR	09/28/12
PROJECT NUMBER: 716806	BILLING GROUP: SRRPT

CITY OF PLANT CITY COMMUNITY REDEVELOPMENT AGENCY
FORMER HYDRAULIC HOSE / JWH, LTD-TELCO OIL
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

DISSOLVED HYDROCARBON CONCENTRATION MAP
(2002 TO 2012)

FIGURE NUMBER
4A

Z:\City of Plant City\716806 - Hydraulic Hose Shop and Former Gas Station\CD-SRR\PTX\16806-SRRFP.dwg, 4a Hydrocarbons in PWA, 10/5/2012 2:52:26 PM, wftarnsley



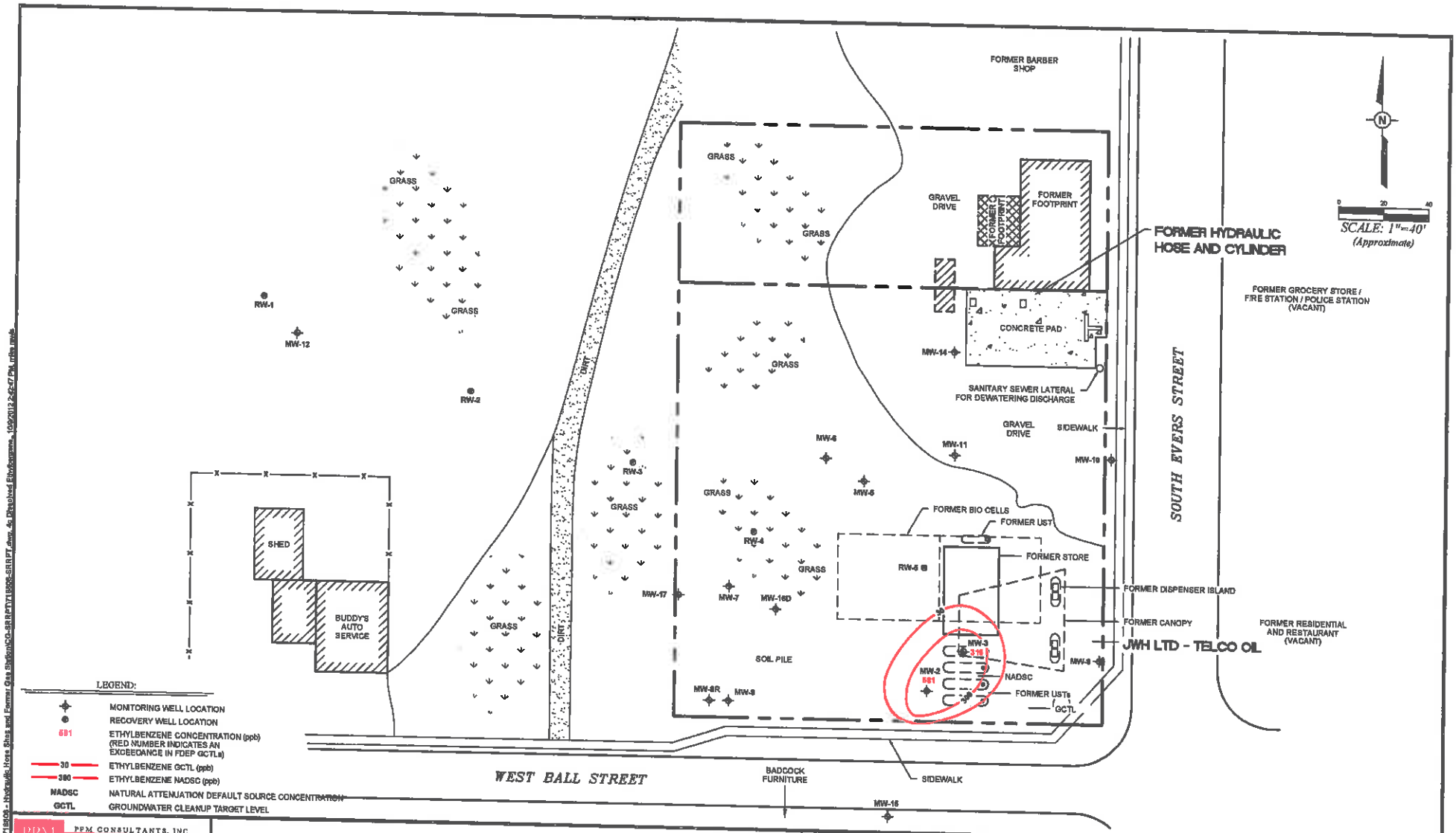
PEM CONSULTANTS, INC.

DRAWN BY:	DRAWN DATE:
MLR	09/28/12
PROJECT NUMBER: 716806	BILLING GROUP: SRRPT

CITY OF PLANT CITY COMMUNITY REDEVELOPMENT AGENCY
FORMER HYDRAULIC HOSE / JWH, LTD-TELCO OIL
817-819 SOUTH EVERS STREET
PLANT CITY, FLORIDA

DISSOLVED BENZENE CONCENTRATIONS IN GROUNDWATER
(JULY 5, 2012)

FIGURE NUMBER
4B



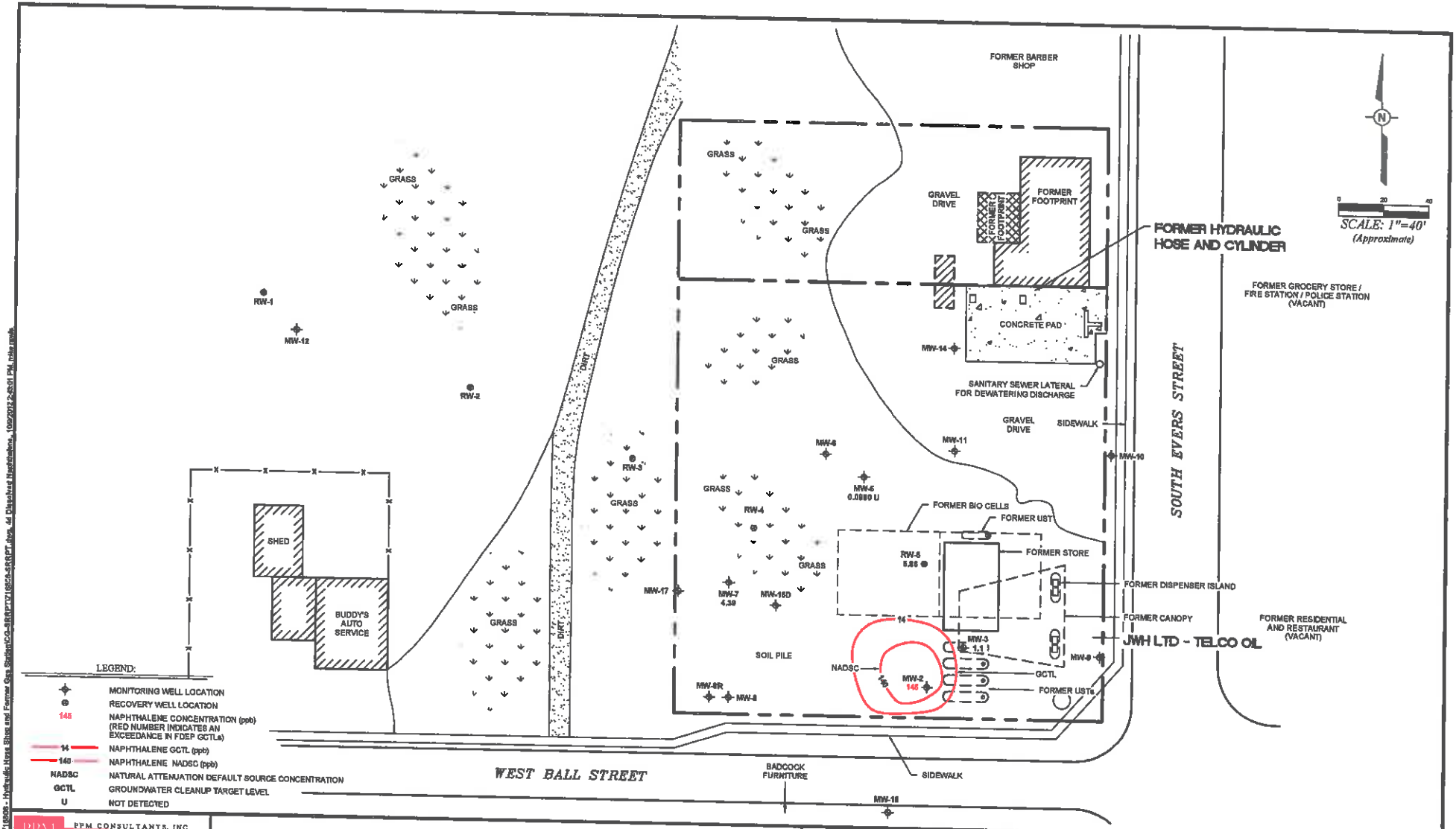
PPM CONSULTANTS, INC

DRAWN BY:	DRAWN DATE:
MLR	09/28/12
PROJECT NUMBER:	BILLING GROUP:
716806	SRRPT

CITY OF PLANT CITY COMMUNITY REDEVELOPMENT AGENCY
FORMER HYDRAULIC HOSE / JWH, LTD-TELCO OIL
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

DISSOLVED ETHYLBENZENE CONCENTRATIONS IN GROUNDWATER
(JULY 5, 2012)

FIGURE NUMBER
4C



PPM CONSULTANTS, INC.

DRAWN BY:	DRAWN DATE:
MLR	09/28/12
PROJECT NUMBER:	BILLING GROUP:
716806	SRRPT

CITY OF PLANT CITY COMMUNITY REDEVELOPMENT AGENCY
FORMER HYDRAULIC HOSE / JWH, LTD-TELCO OIL
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA

DISSOLVED NAPHTHALENE CONCENTRATIONS IN GROUNDWATER
(JULY 5, 2012)

FIGURE NUMBER
4D

NOTE: SEMIANNUAL PARM WELLS
MW-5
MW-6
RW-3

MW-7	09/27/12	02/06/13	08/22/13	12/03/13
B	NA	NA	NA	NA
T	NA	NA	NA	NA
E	NA	NA	NA	NA
X	NA	NA	NA	NA
MTBE	NA	NA	NA	NA
NAPH	0.20	35	0.052 I	0.059 I
1-METH	0.066 I	24	0.028 U	0.027 U
2-METH	0.16	43	0.026 U	0.026 U

RW-3	04/10/15
B	0.20 U
T	0.40 U
E	0.20 U
X	0.61 U
MTBE	0.30 U
NAPH	0.31 U
1-METH	0.31 U
2-METH	0.31 U

MW-5	09/27/12	02/06/13	08/22/13	12/03/13	04/10/15
B	NA	NA	NA	0.23 U	0.20 U
T	NA	NA	NA	0.20 U	0.40 U
E	NA	NA	NA	4.2	28.3
X	NA	NA	NA	0.22 U	10.6
MTBE	NA	NA	NA	0.28 U	0.30 U
NAPH	5.9	0.078 I	4.4	0.89	16.8
1-METH	0.38	0.036 I	0.81	0.042 I	8.90
2-METH	0.71	0.036 I	0.68	0.026 U	0.76 I

MW-11	12/03/13
B	0.23 U
T	0.20 U
E	0.20 U
X	0.22 U
MTBE	0.28 U
NAPH	0.032 U
1-METH	0.027 U
2-METH	0.026 U

RW-5	09/27/12	02/06/13	02/06/13	12/03/13
B	NA	NA	NA	NA
T	NA	NA	NA	NA
E	NA	NA	NA	NA
X	NA	NA	NA	NA
MTBE	NA	NA	NA	NA
NAPH	0.78	120	0.032 U	8.1
1-METH	0.028 U	36	0.029 U	1.4
2-METH	0.026 U	46	0.026 U	0.7 I

MW-6	12/03/13	01/17/14	04/10/15
B	0.23 U	0.23 U	1.0 U
T	1.1	1.0	2.0 U
E	370	[illegible]	466
X	138	76 V	90.9
MTBE	0.28 U	0.28 U	1.6 U
NAPH	[illegible]	110	340
1-METH	18	11	41.4
2-METH	22	17	62.6

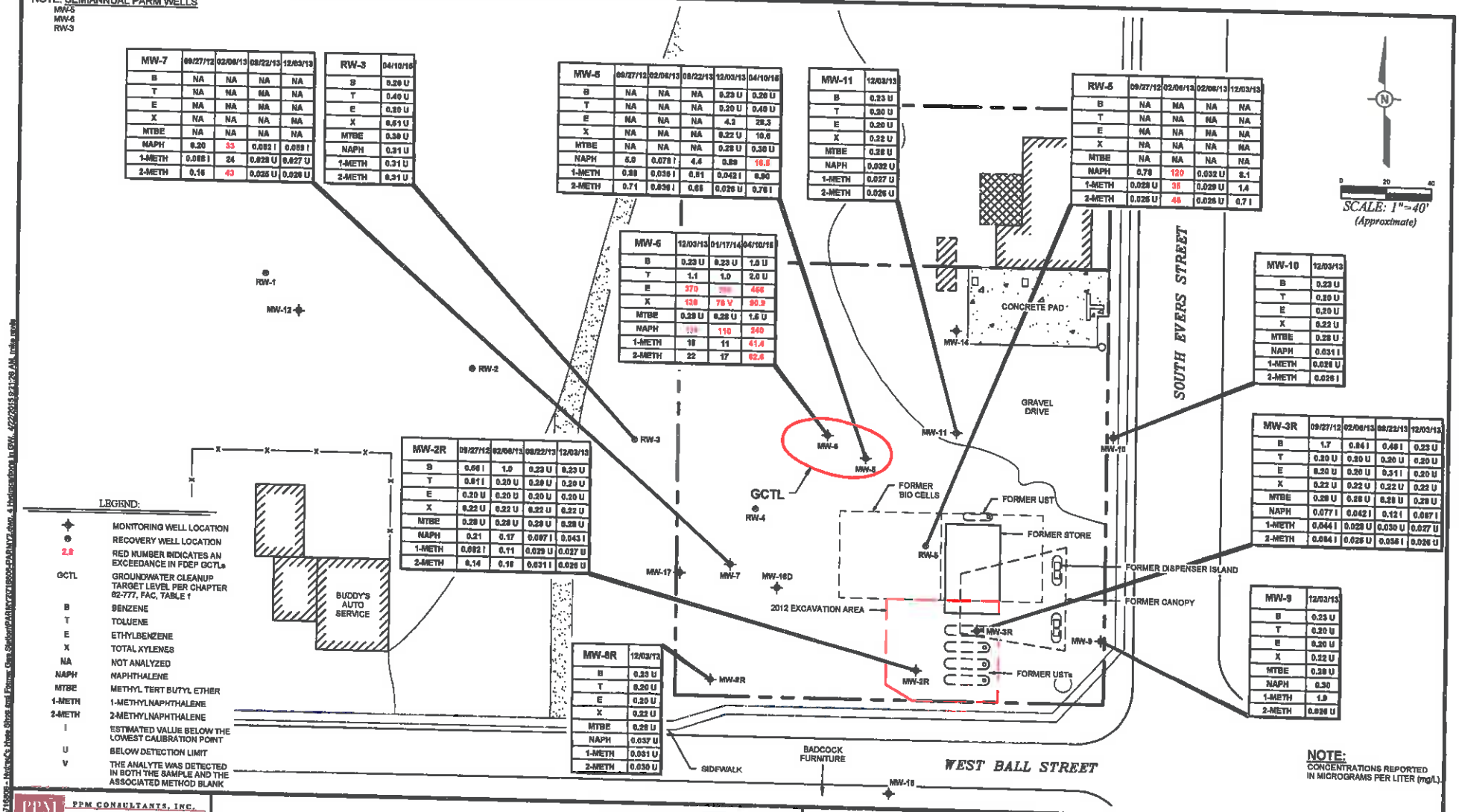
MW-10	12/03/13
B	0.23 U
T	0.20 U
E	0.20 U
X	0.22 U
MTBE	0.28 U
NAPH	0.031 I
1-METH	0.026 U
2-METH	0.026 I

MW-3R	09/27/12	02/06/13	08/22/13	12/03/13
B	1.7	0.84 I	0.46 I	0.23 U
T	0.20 U	0.20 U	0.20 U	0.20 U
E	0.20 U	0.20 U	0.31 I	0.20 U
X	0.22 U	0.22 U	0.22 U	0.22 U
MTBE	0.28 U	0.28 U	0.28 U	0.28 U
NAPH	0.077 I	0.042 I	0.12 I	0.067 I
1-METH	0.044 I	0.028 U	0.030 U	0.027 U
2-METH	0.084 I	0.026 U	0.038 I	0.026 U

MW-2R	09/27/12	02/06/13	08/22/13	12/03/13
B	0.56 I	1.0	0.23 U	0.23 U
T	0.81 I	0.20 U	0.20 U	0.20 U
E	0.20 U	0.20 U	0.20 U	0.20 U
X	0.22 U	0.22 U	0.22 U	0.22 U
MTBE	0.28 U	0.28 U	0.28 U	0.28 U
NAPH	0.21	0.17	0.097 I	0.043 I
1-METH	0.082 I	0.11	0.029 U	0.027 U
2-METH	0.14	0.18	0.031 I	0.026 U

MW-9	12/03/13
B	0.23 U
T	0.20 U
E	0.20 U
X	0.22 U
MTBE	0.28 U
NAPH	0.30
1-METH	1.9
2-METH	0.026 U

MW-8R	12/03/13
B	0.23 U
T	0.20 U
E	0.20 U
X	0.22 U
MTBE	0.28 U
NAPH	0.037 U
1-METH	0.031 U
2-METH	0.030 U



LEGEND:

✦	MONITORING WELL LOCATION
●	RECOVERY WELL LOCATION
2.8	RED NUMBER INDICATES AN EXCEEDANCE IN FDEP GCTLs
GCTL	GROUNDWATER CLEANUP TARGET LEVEL PER CHAPTER 62-777, FAC, TABLE 1
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
NA	NOT ANALYZED
NAPH	NAPHTHALENE
MTBE	METHYL TERT BUTYL ETHER
1-METH	1-METHYLNAPHTHALENE
2-METH	2-METHYLNAPHTHALENE
I	ESTIMATED VALUE BELOW THE LOWEST CALIBRATION POINT
U	BELOW DETECTION LIMIT
V	THE ANALYTE WAS DETECTED IN BOTH THE SAMPLE AND THE ASSOCIATED METHOD BLANK

NOTE:
CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (mg/L).

PPM CONSULTANTS, INC.
www.ppmco.com

DRAWN BY:	DRAWN DATE:
MLR	04/21/15
PROJECT NUMBER: 716806	BILLING GROUP: PARMY2

CITY OF PLANT CITY COMMUNITY REDEVELOPMENT AGENCY
FORMER HYDRAULIC HOSE / JWH, LTD-TELCO OIL
617-619 SOUTH EVERS STREET
PLANT CITY, FLORIDA
FDEP FACILITY ID: 29/8735902

DISSOLVED HYDROCARBON CONCENTRATION MAP

FIGURE NUMBER
4

TABLE 2: GROUNDWATER ANALYTICAL SUMMARY

Facility Name: Former JWH LTD / Telco Gas Station and Former Hydraulic Hose and Cylinder
FDEP Facility No. 29/8735902

Sample Well	Date	Benzene µ/L	Toluene µ/L	Ethyl-benzene µ/L	Total Xylenes µ/L	MTBE µ/L	TRPH µ/L	Naphthalene µ/L	1-Methyl-Naphthalene µ/L	2-Methyl-Naphthalene µ/L
FDEP GCTL		1	40	30	20	20	5,000	14	28	28
FDEP NADSC		100	400	300	200	200	50,000	140	280	280
MW-2	09/05/91	4,174	10,256	2,547	10,500	361	---	---	---	---
	12/09/99	1,080	360	2,460	2,420	---	2,600	215	60	32
	03/11/04	170	50.0	45	61.0	173	---	120	27.0	47.0
	03/22/06	84.0	36.0	900	1,100	4.6 U	---	200	33.0	70.0
	07/18/07	2.9	2.5	150	37.0	0.44 U	---	63.0	10.0	19.0
	09/27/07	14.0	46.0	1,200	820	2.2	---	1.7	6.5	7.0
	08/28/08	2.8	7.0	500	310	---	---	120	130	81
	05/10/11	10.4	4.03 U	1,130	36.0	9.20 U	2,700	293.0	51.7	101.0
	07/05/12	6.65	2.55	581	19.8	2.14 U	---	145	14.3	24.3
	Removed during soil excavation activties in July 2012									
MW-2R	09/27/12	0.56 I	0.61 I	0.20 U	0.22 U	0.28 U	---	0.21	0.082 I	0.14
	02/06/13	1.0	0.20 U	0.20 U	0.22 U	0.28 U	---	0.17	0.11	0.16
	08/22/13	0.23 U	0.20 U	0.20 U	0.22 U	0.28 U	---	0.097 I	0.029 U	0.031 I
	12/03/13	0.23 U	0.20 U	0.20 U	0.22 U	0.28 U	---	0.043 I	0.027 U	0.026 U
MW-3	09/05/91	320	1,326	332	2,098	40 U	---	---	---	---
	12/09/99	290	255	1,090	1,522	---	900	99	19	12
	09/26/07	1.4	9.4	13	57	0.44 U	---	26	96	180
	05/10/11	18.6	1.50	350	82	2.30 U	1,900	29.3	46.4	95.1
	07/05/12	66.8	2.60	316	6.25	2.14 U	---	1.1	19.8	18.7
	Removed during soil excavation activties in July 2012									
MW-3R	09/27/12	1.7	0.20 U	0.20 U	0.22 U	0.28 U	---	0.077 I	0.044 I	0.064 I
	02/06/13	0.84 I	0.20 U	0.20 U	0.22 U	0.28 U	---	0.042 I	0.028 U	0.025 U
	08/22/13	0.46 I	0.20 U	0.31 I	0.22 U	0.28 U	---	0.12 I	0.030 U	0.035 I
	12/03/13	0.23 U	0.20 U	0.20 U	0.22 U	0.28 U	---	0.067 I	0.027 U	0.026 U

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Sample Well	Date	Benzene µ/L	Toluene µ/L	Ethyl-benzene µ/L	Total Xylenes µ/L	MTBE µ/L	TRPH µ/L	Naphthalene µ/L	1-Methyl-Naphthalene µ/L	2-Methyl-Naphthalene µ/L
FDEP GCTL		1	40	30	20	20	5,000	14	28	28
FDEP NADSC		100	400	300	200	200	50,000	140	280	280
MW-5	09/04/91	60.6	195.0	10 U	496.0	10 U	—	1.80 U	2.30 U	1.80 U
	12/10/99	54.5	880	515	1810	—	500	5 U	5 U	5U
	12/14/99	22.8	245	275	680	—	300	21	5 U	5U
	09/26/07	1.4	2.8	99	140	0.44 U	—	30	46	96
	05/11/11	0.249 U	0.201 U	9.72	0.26 U	0.460 U	150 U	—	—	—
	05/24/11	—	—	—	—	—	—	26.7	3.17	4.68
	07/06/12	—	—	—	—	—	—	0.0099 U	0.110 U	0.0577 U
	09/27/12	—	—	—	—	—	—	5.0	0.89	0.71
	02/06/13	—	—	—	—	—	—	0.078 I	0.036 I	0.036 I
	08/22/13	—	—	—	—	—	—	4.4	0.51	0.65
	12/03/13	0.23 U	0.20 U	4.2	0.22 U	0.28 U	—	0.89	0.042 I	0.026 U
	04/10/15	0.20 U	0.40 U	28.3	10.6	0.30 U	—	16.5	0.90	0.76 I
MW-6	12/14/99	64.5	695	690	3,355	—	1,900	185	50	30
	09/26/07	5 U	190	1,100	2,800	4.4 U	—	440	46 I	98 I
	05/11/11	0.249 U	0.201 U	22.1	2.3	0.460 U	150 U	—	—	—
	05/24/11	—	—	—	—	—	—	0.0680	1.15	0.111
	12/03/13	0.23 U	1.1	370	130	0.28 U	—	130	18	22
	01/17/14	0.23 U	1.0	300	76 V	0.28 U	—	110	11	17
	04/10/15	1.0 U	2.0 U	456	90.9	1.5 U	—	240	41.4	62.6
MW-7	12/10/99	520	9.5	735	245.0	—	800	59	7	9
	12/14/99	520	8.0	900	295.5	—	800	73	12	14
	09/26/07	0.50 U	0.44 U	0.44 U	0.96 U	0.44 U	—	400	96 I	190 I
	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	0.460 U	150 U	—	—	—
	05/24/11	—	—	—	—	—	—	33.4	1.2	23.9
	07/06/12	—	—	—	—	—	—	4.39	2.36	3.16
	09/27/12	—	—	—	—	—	—	0.20	0.068 I	0.15
	02/06/13	—	—	—	—	—	—	33	24	43
	08/22/13	—	—	—	—	—	—	0.052 I	0.028 U	0.025 U
	12/03/13	—	—	—	—	—	—	0.059 I	0.027 U	0.026 U

TABLE 2: GROUNDWATER ANALYTICAL SUMMARY

Facility Name: Former JWH LTD / Telco Gas Station and Former Hydraulic Hose and Cylinder
FDEP Facility No. 29/8735902

Sample Well	Date	Benzene µ/L	Toluene µ/L	Ethyl-benzene µ/L	Total Xylenes µ/L	MTBE µ/L	TRPH µ/L	Naphthalene µ/L	1-Methyl-Naphthalene µ/L	2-Methyl-Naphthalene µ/L
FDEP GCTL		1	40	30	20	20	5,000	14	28	28
FDEP NADSC		100	400	300	200	200	50,000	140	280	280
MW-8										
	12/10/99	375	17.0	685	497.5	---	900	80	12	16
	01/15/02	22.9	1 U	48.7	30.8	1 U	---	48.4	<5	10.5
	09/26/07	7.2	1.4 I	240	140	0.9	---	160	38	69
	Lost, previously buried under former large soil pile at southwest corner of site									
MW-8R	07/07/11	0.437 I	0.233 I	3.34	0.52 I	0.460 U	---	0.0138 U	0.0161 U	0.0142 U
	12/03/13	0.23 U	0.20 U	0.20 U	0.22 U	0.28 U	---	0.037 U	0.031 U	0.030 U
MW-9	12/10/99	1.0 U	1.0 U	12.2	5.9	---	100 U	5 U	5 U	5 U
	01/14/02	1 U	1 U	2.99	2.79	1 U	---	5 U	5 U	5 U
	09/26/07	3.5	21	330	290	0.9 U	---	96	27	67
	05/10/11	0.249 U	1.09	15.2	4.4	0.460 U	150 U	4.53	3.64	3.23
	12/03/13	0.23 U	0.20 U	0.20 U	0.22 U	0.28 U	---	0.30	1.9	0.026 U
MW-10	01/14/02	1 U	1 U	1 U	2 U	1 U	---	5 U	5 U	5 U
	09/26/07	9.6	50	1,100	1,100	1.8 U	---	340	16	26
	05/10/11	0.249 U	0.201 U	0.201 U	0.676 U	0.460 U	150 U	0.214	0.0152 U	0.281
	12/03/13	0.23 U	0.20 U	0.20 U	0.22 U	0.28 U	---	0.031 U	0.026 U	0.026 I
MW-11	01/14/02	1 U	1 U	1 U	2 U	1.12	---	5 U	5 U	5 U
	09/26/07	3.0	23	240	330	<0.44	---	120	75	160
	05/10/11	0.249 U	0.201 U	0.210 U	0.676 U	0.460 U	150 U	0.146	0.0658	0.141
	12/03/13	0.23 U	0.20 U	0.20 U	0.22 U	0.28 U	---	0.032 U	0.027 U	0.026 U

TABLE 2: GROUNDWATER ANALYTICAL SUMMARY

Facility Name: Former JWH LTD / Telco Gas Station and Former Hydraulic Hose and Cylinder
FDEP Facility No. 29/8735902

Sample Well	Date	Benzene µ/L	Toluene µ/L	Ethyl-benzene µ/L	Total Xylenes µ/L	MTBE µ/L	TRPH µ/L	Naphthalene µ/L	1-Methyl-Naphthalene µ/L	2-Methyl-Naphthalene µ/L
FDEP GCTL		1	40	30	20	20	5,000	14	28	28
FDEP NADSC		100	400	300	200	200	50,000	140	280	280
MW-12	02/18/92	154.0	22.0	73.0	221.0	5 U	---	---	---	---
	12/14/99	105	6.8	460	1160.4	—	500	81	6	5 U
	03/24/04	13.0	5.7 U	83.0	73.0	9.1	---	30.0	4.9	8.6
	03/22/06	4.3	0.8	32.0	18.0	0.46 U	---	22.0	2.5	3.2
	07/18/07	0.69	0.51 U	5.5	1.7	0.44 U	—	9.3	0.61	0.82
	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	0.460 U	150 U	—	—	—
	05/25/11	—	—	—	—	—	—	4.58	0.368	0.610
MW-13	02/18/92	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	—	—	—	—
	Destroyed of Lost									
MW-14	02/18/92	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	—	1.80 U	2.30 U	1.80 U
	01/14/02	1 U	1 U	1 U	2 U	1.22	---	5 U	5 U	5 U
	05/10/11	0.249 U	0.201 U	0.210 U	0.676 U	0.460 U	150 U	0.0657	0.0152 U	0.115
MW-15	02/18/92	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	—	—	—	—
	01/14/02	1 U	1 U	1 U	2 U	1 U	---	5 U	5 U	5 U
	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	0.460 U	150 U	—	—	—
	05/25/11	—	—	—	—	—	—	0.266	0.249	0.779
MW-16D	02/18/92	12.5	1.0 U	3.6	10.8	0.20 U	—	—	—	—
	01/15/02	1 U	1 U	1 U	2 U	1.2	---	5 U	5 U	5 U
	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	0.460 U	150 U	—	—	—
	05/24/11	—	—	—	—	—	—	0.0565	0.0161 U	0.0142 U
	Lost, presumed destroyed during soil excavation activities in July 2012									
MW-17	07/07/11	0.249 U	0.234 I	0.210 U	0.26 U	0.460 U	—	0.204	0.0161 U	0.0142 U

TABLE 2: GROUNDWATER ANALYTICAL SUMMARY

Facility Name: Former JWH LTD / Telco Gas Station and Former Hydraulic Hose and Cylinder
FDEP Facility No. 29/8735902

Sample Well	Date	Benzene µ/L	Toluene µ/L	Ethyl-benzene µ/L	Total Xylenes µ/L	MTBE µ/L	TRPH µ/L	Naphthalene µ/L	1-Methyl-Naphthalene µ/L	2-Methyl-Naphthalene µ/L
FDEP GCTL		1	40	30	20	20	5,000	14	28	28
FDEP NADSC		100	400	300	200	200	50,000	140	280	280
RW-1	01/14/02	1.46	1 U	5.8	5.29	1.22	—	5 U	5 U	5 U
	09/26/07	0.5	0.5	0.4	1.0	0.4	—	3.5	0.55	0.57
	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	0.460 U	150 U	—	—	—
	05/25/11	—	—	—	—	—	—	1.118	0.0161 U	0.0142 U
RW-2	01/14/02	1 U	1 U	1 U	2 U	1 U	—	5 U	5 U	5 U
	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	0.460 U	150 U	—	—	—
	05/25/11	—	—	—	—	—	—	0.114	0.162	0.0351
RW-3	01/15/02	1 U	1 U	21.1	5.70	1 U	—	5 U	5 U	5 U
	03/11/04	2.2	5 U	85.0	14.0	5 U	—	18.0	2.1	2.3
	03/22/06	7.0	12.0	270	190	2.3 U	—	46.0	7.3	15.0
	07/18/07	0.5 U	0.51 U	8.9	1.2	0.44 U	—	0.25 U	0.5 U	0.5 U
	05/12/11	0.249 U	0.201 U	0.210 U	0.26 U	0.460 U	150 U	—	—	—
	05/24/11	—	—	—	—	—	—	0.0791	0.108	0.0416
	04/10/15	0.20 U	0.40 U	0.20 U	0.51 U	0.30 U	—	0.31 U	0.31 U	0.31 U
RW-4	01/15/02	121	87.8 I	1,520	2,459	1 U	—	158	28.6	49.1
	03/11/04	110.0	29.0	1,200	1,700	6.4	—	160.0	27.0	64.0
	03/22/06	20.0	21.0	310	2,200	4.6 U	—	98.0	28.0	57.0
	07/18/07	0.5 U	0.51 U	6.9	18.0	0.44 U	—	0.25 U	11.0	1.8
	08/28/08	0.28	0.3 U	23.0	0.7	—	—	0.031 U	0.099	0.057
	05/11/11	0.249 U	0.201 U	8.00	0.48	0.460 U	150 U	—	—	—
	05/24/11	—	—	—	—	—	—	0.319	13.2	6.05

TABLE 2: GROUNDWATER ANALYTICAL SUMMARY

Facility Name: Former JWH LTD / Telco Gas Station and Former Hydraulic Hose and Cylinder
FDEP Facility No. 29/8735902

Sample Well	Date	Benzene µ/L	Toluene µ/L	Ethyl-benzene µ/L	Total Xylenes µ/L	MTBE µ/L	TRPH µ/L	Naphthalene µ/L	1-Methyl-Naphthalene µ/L	2-Methyl-Naphthalene µ/L
FDEP GCTL		1	40	30	20	20	5,000	14	28	28
FDEP NADSC		100	400	300	200	200	50,000	140	280	280
RW-5	01/15/02	**2,250**	**4,570**	**2,675**	**2,518**	**100 U**	—	**239**	**58.9**	**90.3**
	03/11/04	**860**	**3,000**	**2,400**	**6,900**	U	—	**200**	**52.0**	**110.0**
	03/22/06	**15.0**	39.0	**320**	**2,200**	4.6 U	—	7.4	25.0	14.0
	07/18/07	0.5 U	1.0	0.0	21.0	0.44 U	—	1.8	4.8	1.6
	08/28/08	0.35	0.41	2.9	5.4	—	—	0.031 U	0.028 U	0.025 U
	05/12/11	0.85	0.201 U	23.9	0.26 U	0.460 U	150 U	—	—	—
	05/24/11	—	—	—	—	—	—	**49.9**	18.1	17.0
	07/05/12	—	—	—	—	—	—	5.86	1.54	1.37
	09/27/12	—	—	—	—	—	—	0.78	0.028 U	0.025 U
	02/06/13	—	—	—	—	—	—	**120**	**35**	**46**
	08/22/13	—	—	—	—	—	—	0.032 U	0.029 U	0.026 U
	12/03/13	—	—	—	—	—	—	8.1	1.4	0.71

1991 to 2008 data obtained from reports in Oculus (FDEP online document management system). The bulk of the data is from data tables, not the laboratory analytical reports.

µg/L = micrograms per liter
I = (EPA) Estimated value below the lowest calibration point. Confidence correlates with concentration.
U = Not Detected
V = The analyte was detected in both the sample and the associated method blank.
GCTL = FDEP Groundwater Cleanup Target Level per Chapter 62-777 of the Florida Administrative Code (F.A.C.)
NADSC = FDEP Natural Attenuation Default Source Concentration per Chapter 62-777 of the F.A.C.
Concentrations in **red/bold type** exceed FDEP GCTLs.
"—" = Not Analyzed

Chapter 62-777, F.A.C. Figure 1 and Figure 2

Attachment K

Figure 1
Equation for Deriving Site-Specific Cleanup Target Levels for Carcinogens in Groundwater

The formula for calculation is:

$$GCTL(\mu g/L) = \frac{1\times10^{-6}\times BW\times CF}{CSF_o\times WC}$$

Parameter	Definition	Default Value
GCTL	groundwater cleanup target level (µg/L)	-
TR	target cancer risk (unitless)	1×10^{-6}
BW	average body weight (kg)	70.0
CF	conversion factor (µg/mg)	1000
CSF_o	oral cancer slope factor $(mg/kg\text{-}day)^{-1}$	chemical-specific [a]
WC	average water consumption rate (L/day)	2

[a]Toxicity values from IRIS, HEAST or other sources as provided in Table 5a of the technical report referenced in subsection 62-777.100(2), F.A.C., for carcinogens.

Example: hexachloro-1,3-butadiene, $CSF_o = 0.078\ (mg/kg\text{-}day)^{-1}$

$$GCTL(\mu g/L) = \frac{1\times10^{-6}\times70.0\times1000}{0.078\times2} = \frac{0.070}{0.156}$$

$$GCTL = 0.4\ \mu g/L$$

Figure 2
Equation for Deriving Site-Specific Cleanup Target Levels for Non-Carcinogens in Groundwater

The formula for calculation is:

$$\mathrm{GCTL}(\mu g/L) = \frac{\mathrm{RfD_o} \times \mathrm{BW} \times \mathrm{RSC} \times \mathrm{CF}}{\mathrm{WC}}$$

Parameter	Definition (units)	Default Value
GCTL	groundwater cleanup target level (µg/L)	-
BW	average body weight (kg)	70
RfD_o	oral reference dose (mg/kg-day)	chemical-specific [a]
RSC	relative source contribution (%)	20
CF	conversion factor (µg/mg)	1000
WC	average water consumption rate (L/day)	2

[a]Toxicity values from IRIS, HEAST, or other sources as provided in Table 5b of the technical report referenced in subsection 62-777.100(2), F.A.C., for non-carcinogens.

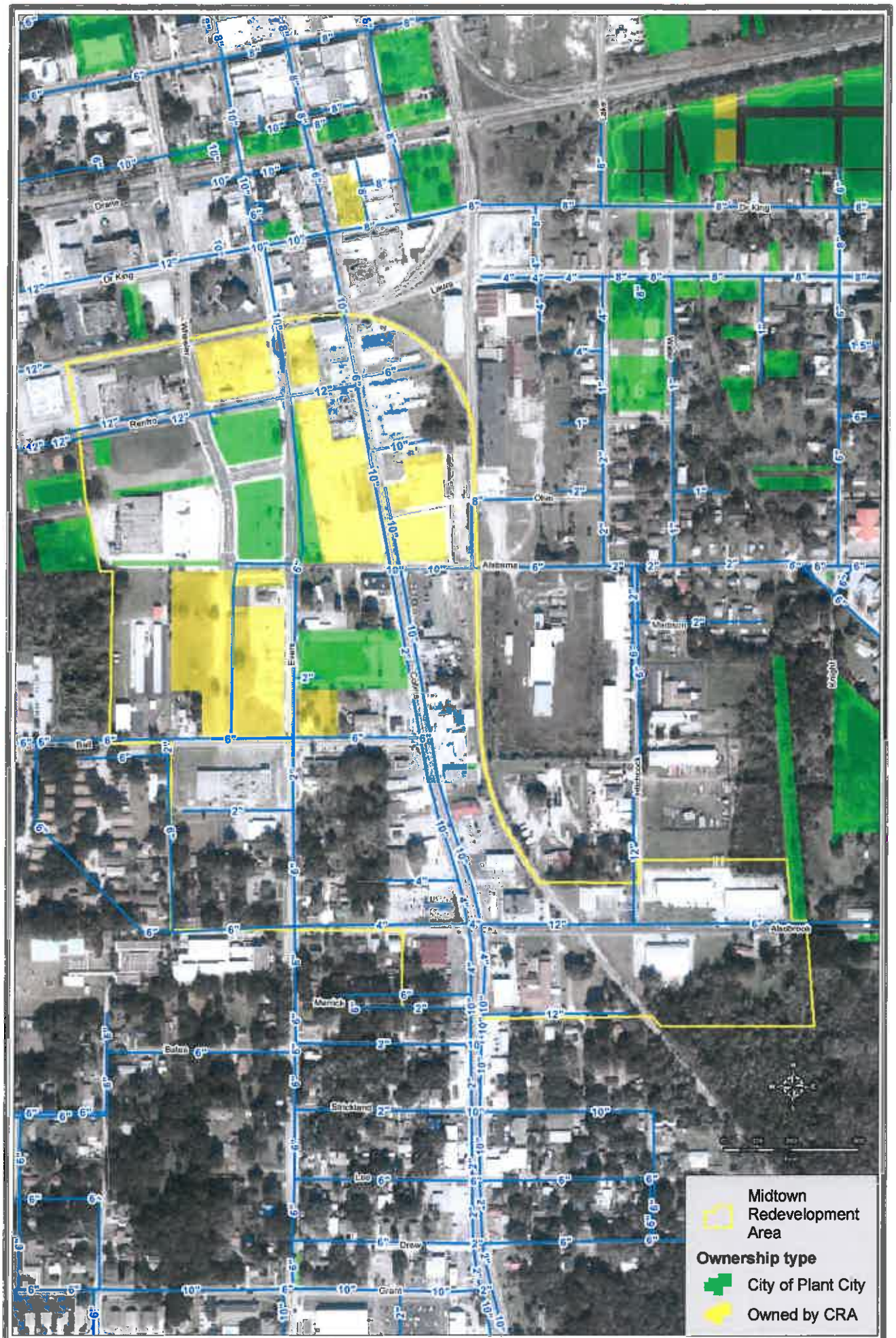
Example: 2-chlorophenol, RfD_o = 0.005 mg/kg-day

$$GCTL(\mu g/L) = \frac{0.005 \times 70.0 \times 0.2 \times 1000}{2} = \frac{70.0}{2}$$

$$GCTL = 35\ \mu g/L$$

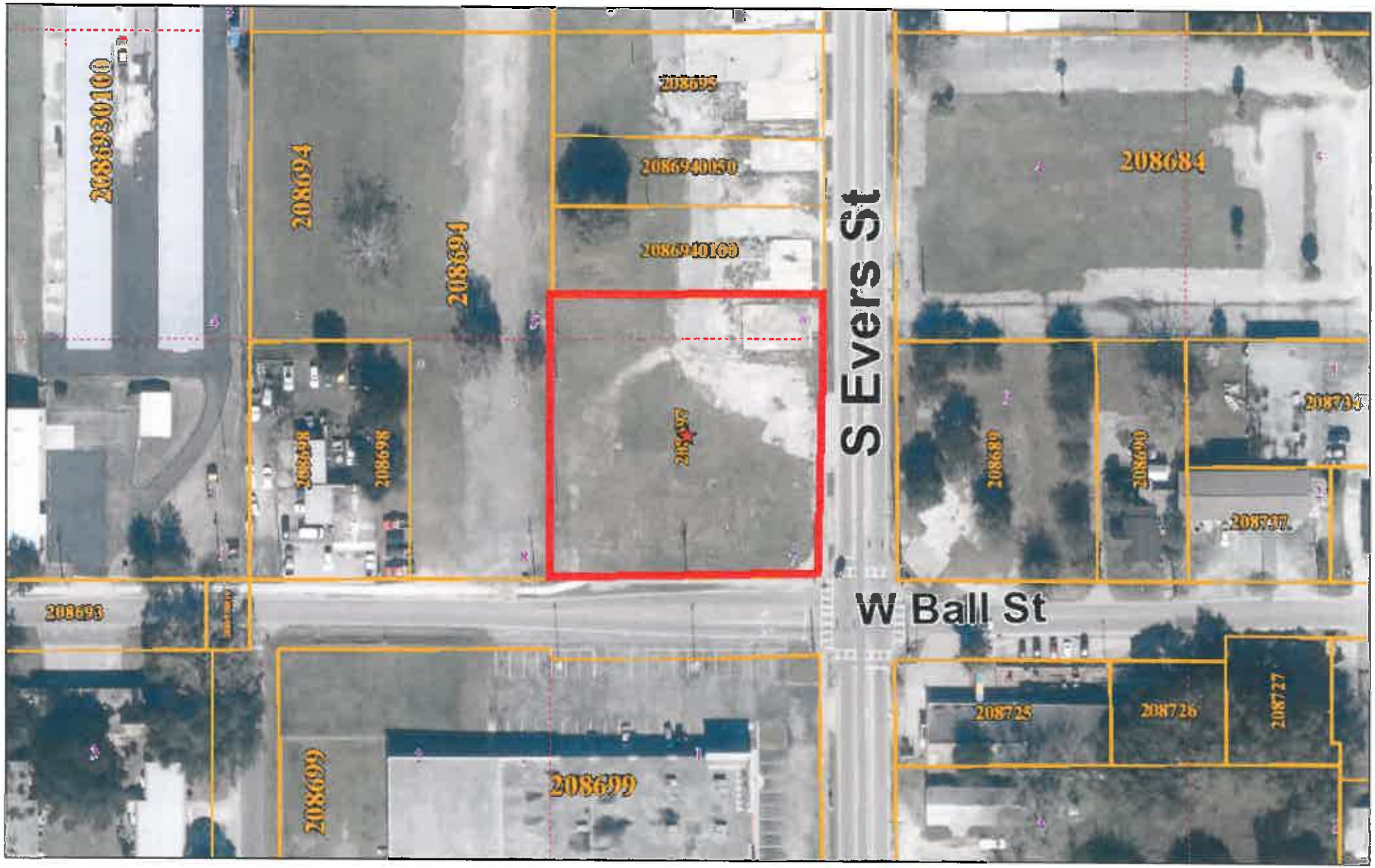
Property Ownership Information

Attachment L



Disclaimer: The data are being provided on an 'as is' basis. The City of Plant City disclaims any warranty, either expressed or implied, including, but not limited to, the implied warranties or merchantability and fitness for a particular use. The entire risk as to quality and performance is with the user. In no event will the City of Plant City or its staff be liable for any direct, indirect, incidental, special, consequential, or other damages, including loss of profit, arising out of the use of these data even if the City of Plant City has been advised of the possibility of such damages. All data are intended for resource management use and have not been collected or certified by a Florida-registered Surveyor and Mapper.

Date of print: 03/10/2015



February 3, 2016

N
W E
S

0 62.5 125 250 ft

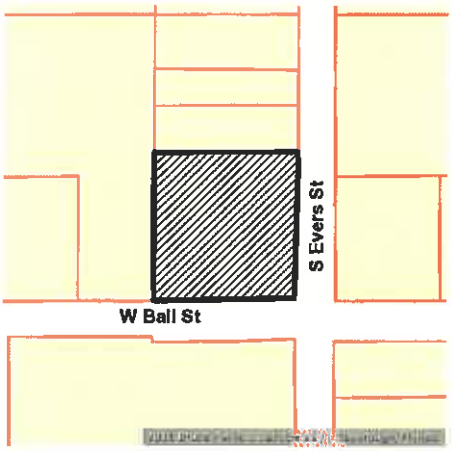
Bob Henriquez, CFA
Hillsborough County Property Appraiser
This map is for assessment purposes only.
It is not a survey.

2014 Aerials

Bob Henriquez
Hillsborough County Property Appraiser

https://www.hcpafl.org/
15th Floor County Ctr.
601 E. Kennedy Blvd, Tampa, Florida 33602-4932
Ph: (813) 272-6100

Folio: 208697-0000



Owner Information

Owner Name	COMMUNITY REDEVELOPMENT AGENCY
Mailing Address	CITY OF PLANT CITY PO BOX C PLANT CITY, FL 33564-9003
Site Address	619 S EVERS ST, PLANT CITY
PIN	P-32-28-22-5DS-000002-00007.0
Folio	208697-0000
Prior PIN	
Prior Folio	000000-0000
Tax District	PC - PLANT CITY
Property Use	7500 NON-PROFIT SERV
Plat Book/Page	K000/532
Neighborhood	221006.00 | Plant City South
Subdivision	5DS | CRUM'S D L SUBDIVISION

Value Summary

Taxing District	Market Value	Assessed Value	Exemptions	Taxable Value
County	$101,750	$101,750	$101,750	$0
Public Schools	$101,750	$101,750	$101,750	$0
Municipal	$101,750	$101,750	$101,750	$0
Other Districts	$101,750	$101,750	$101,750	$0

Note: This section shows Market Value, Assessed Value, Exemptions, and Taxable Value for taxing districts. Because of changes in Florida Law, it is possible to have different assessed and taxable values on the same property. For example, the additional $25,000 Homestead Exemption and the non-homestead CAP do not apply to public schools, and the Low Income Senior Exemption only applies to countywide and certain municipal millages.

Sales Information

Book	Page	Month	Year	Type Inst	Qualified or Unqualified	Vacant or Improved	Price
19021	0495	12	2008	WD	Unqualified	Vacant	$289,000
10519	0515	12	2000	WD	Qualified	Improved	$110,000
5315	1316	01	1988	WD	Unqualified	Improved	$231,200
3757	1667	01	1981	WD	Unqualified	Improved	$325,000

Land Information - Total Acreage: 0.89

Use Code	Description	Zone	Front	Depth	Land Type	Total Land Units	Land Value
COB3	Comm Class 2	C-2	0.0	0.0	SF | SQUARE FEET	37,000.00	$101,750

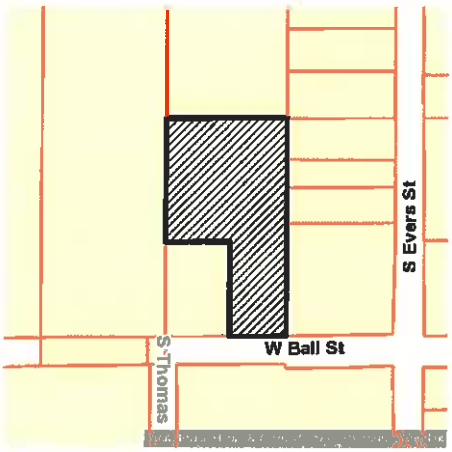
Legal Description

Legal Description CRUM'S D L SUBDIVISION S 31 FT OF LOT 6 BLK 2 AND LOT 7 BLK 2 LESS ROAD R/W FOR EVERS AND BALL ST

Bob Henriquez
Hillsborough County Property Appraiser

https://www.hcpafl.org/
15th Floor County Ctr.
601 E. Kennedy Blvd, Tampa, Florida 33602-4932
Ph: (813) 272-6100

Folio: 208694-0000



Owner Information

Owner Name	COMMUNITY REDEV AGENCY FOR THE CITY OF PLANT CITY
Mailing Address	PO BOX C PLANT CITY, FL 33564-9003
Site Address	W BALL ST, PLANT CITY
PIN	P-32-28-22-5DS-000002-00005.0
Folio	208694-0000
Prior PIN	
Prior Folio	000000-0000
Tax District	PC - PLANT CITY
Property Use	7500 NON-PROFIT SERV
Plat Book/Page	K000/532
Neighborhood	221006.00 | Plant City South
Subdivision	5DS | CRUM'S D L SUBDIVISION

Value Summary

Taxing District	Market Value	Assessed Value	Exemptions	Taxable Value
County	$198,848	$198,848	$198,848	$0
Public Schools	$198,848	$198,848	$198,848	$0
Municipal	$198,848	$198,848	$198,848	$0
Other Districts	$198,848	$198,848	$198,848	$0

Note: This section shows Market Value, Assessed Value, Exemptions, and Taxable Value for taxing districts. Because of changes in Florida Law, it is possible to have different assessed and taxable values on the same property. For example, the additional $25,000 Homestead Exemption and the non-homestead CAP do not apply to public schools, and the Low Income Senior Exemption only applies to countywide and certain municipal millages.

Sales Information

Book	Page	Month	Year	Type Inst	Qualified or Unqualified	Vacant or Improved	Price
20861	1016	12	2011	WD	Unqualified	Vacant	$348,800
15859	1017	12	2005	WD	Unqualified	Vacant	$200,000
5315	1316	01	1988	WD	Unqualified	Improved	$231,200
3757	1667	01	1981	WD	Unqualified	Improved	$325,000

Land Information - Total Acreage: 1.51

Use Code	Description	Zone	Front	Depth	Land Type	Total Land Units	Land Value
COB3	Comm Class 2	C-2	0.0	0.0	SF | SQUARE FEET	93,002.43	$198,848

Legal Description

Legal Description CRUM'S D L SUBDIVISION LOT 5 AND LOT 8 BLOCK 2 LESS W 115 FT LOT 8 AND LESS E 30 FT FOR RD R/W AND LESS S 50 FT FOR RD R/W

Proposed Institutional Control

Attachment M

Sec. 74-60. - Penalties.

Sec. 74-61. - More stringent restrictions by SWFWMD.

Secs. 74-62—74-85. - Reserved.

ARTICLE II. - WATER SERVICE

DIVISION 1. - GENERALLY

Sec. 74-31. - Definitions. Modified

The following words, terms and phrases, when used in this Division, shall have the meanings ascribed to them in this Section, except where the context clearly indicates a different meaning:

Available. When a property, facility or structure is within 250 feet of a City water line.

City water. Water from the City water system.

City water system The potable water system operated by the City for the provision of potable water for domestic, commercial, recreational, industrial, and other uses.

Midtown. The area designated as the "Midtown Redevelopment District" within the Future Land Use Element of the City's Comprehensive Plan.

Nonpermitted well. Any well that has been constructed without a water use or consumptive use permit issued by a regulatory agency, or has been granted a permit for well construction only.

Permitted well. A well that has been issued a consumptive use permit or a water use permit from a regulatory agency. This includes, but is not limited to, those permits issued by a the Southwest Florida Water Management District or the Department of Environmental Protection.

Potable water. Water suitable for drinking that has been treated by a system that is regulated by the Safe Drinking Water Act.

▲ Scroll to Top

Private well. A well that supplies water for consumptive use. These uses may include, but are not limited to, one or more of the following: Household, business, industrial or irrigation. For purposes of this Section, a well that supplies water solely for irrigation purposes shall not be classified as a private well.

Safe Drinking Water Act. The federal regulations, including the regulations and parameters as they may be amended from time to time, which set the quality standards for potable water.

(Ord. No. 29-2002, § 1, 9-9-2002; Ord. No. 25-2015, § 1, 9-28-2015)

Sec. 74-32. - Connection to city water system required. Modified

(a) The owner or operator of any property, facility or structure presently using water from a nonpermitted well within the City limits where City water is available shall connect to the City water system within 90 days after the date of official notice to do so.

(b) The owner or operator of any residential, commercial, industrial or agricultural property, facility or structure using water from a permitted well as a potable water supply within the City limits where City water is available shall connect to the City water system within 90 days after the date of official notice to do so. However, agricultural, industrial or commercial uses, which are using water from a permitted well may continue to use such well for nonpotable water uses.

(c) Upon connection to the City water system, use of private wells for potable water supply shall cease.

(d) No new private wells shall be constructed for the purpose of providing potable water to any property, facility or structure within the City limits where City water is available.

(e) No new irrigation wells or private wells shall be constructed within the Midtown District.

(Ord. No. 29-2002, § 2, 9-9-2002; Ord. No. 25-2015, § 1, 9-28-2015)

Secs. 74-33—74-55. - Reserved.

DIVISION 2. - WATER CONSERVATION

▲ Scroll to Top

Sec. 74-56. - Definitions.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Waste Management

INSTITUTIONAL CONTROLS

PROCEDURES GUIDANCE

September 2015
Draft

IC Checklist.[12] The FDEP will consider other forms of Institutional Controls so long as they meet the definition of "institutional control" in Section 376.301, F.S., and comply with Chapter 62-780, F.A.C. For an example of acceptable forms of institutional controls please see Attachment 36. Attachment 36 shows that on a site-specific basis, the FDEP will consider alternative ICs that do not require the recordation of an RC, such as government controls, as described in the section below, and the use of the FDEP FDOT Memorandum of Understanding. In some instances, "layering" various ICs may be necessary to ensure the controls are protective of human health, public safety, and the environment.[13]

Governmental Controls as Alternative ICs (i.e., no RC required)

In November 2013, the DWM issued a memorandum on "Site Closure with Conditions" and included options for reliance on governmental controls that do not require an RC, provided the governmental control achieves the necessary degree of restriction on access to the contamination to meet the criteria of Subsections 62-780.680(2) or (3), F.A.C. Additional guidance is provided in Attachment 36 and below to clarify these options.

It is important to note that, other than cases involving MOAs between the FDEP and other institutional or governmental entities, at the present time, these options should only be used to address *groundwater* contamination at a site (which can include impacts off the source property). When addressing soil contamination using either land use restrictions or an engineering control (e.g., a concrete cap), an RC should be recorded to ensure the type of land use remains in perpetuity, or to ensure that an engineering control remains in place and is properly maintained to permanently cover the area of soil contamination.

Factors to consider when evaluating whether an alternative institutional control is adequate to prevent exposure to contaminated groundwater include the following:

- The nature and concentrations of contaminants;
- The size and location of the contaminant plume relative to existing improvements on the property;
- The scope and coverage of the local ordinance:

---

buyer and those successive owners of the property. A restrictive covenant is created and recorded by the owner of the property to limit his or her own actions as well as those of subsequent owners of the property and is enforceable by third party beneficiaries named in the covenant (for example, the FDEP).

[12] Attachment 3 consists of Sample Declaration of Restrictive Covenant Forms A and B. Form A should be used when the entirely owned parcel will be encumbered, and Form B should be used when only a portion of the parcel will be encumbered.

[13] "Layered" ICs are used if a proposed control, alone, is insufficient to provide the necessary protections, but multiple controls, together may provide the desired level of protection. These controls may include notices that are warnings to the public that a hazard may exist at the property. Examples of such notices include: warning signs posted at a property; legal notices in a newspapers of general circulation; "Deed Notices" that contain information but impose no obligations; and government advisories.

  - Requirement for connection to county/municipal water delivery system for both potable and irrigation water;
- Status of site development and existing infrastructure for provision of potable and irrigation water;
- Potential for additional construction in the area (i.e., possibility of dewatering, discharging of contaminated groundwater to surface soils, causing plume migration; etc.); and
- Potential for installation of new stormwater features or enlargement of existing stormwater features at or near the affected property.

When proposing this type of alternative IC, the Person Responsible for Site Rehabilitation (PRSR) should submit some of the same information as in a typical RC package including the Deed and Legal Description, but the Title Work and Notice to Encumbrance Holders is not routinely required. Instead of a draft RC, the PRSR should submit electronic copies of all relevant local ordinances and governmental controls upon which they are relying as the IC for the contaminated site. In cases where the ordinance relies upon delegation of authority from another governmental entity, documentation of that delegation should also be provided. Since some local ordinances are quite lengthy, the PRSR should direct the FDEP to the specific provisions that are relevant to restricted use of groundwater.

FDEP FDOT Memorandum of Agreement (MOA) as Alternative ICs

FDEP and FDOT have entered into a MOA dated June 16, 2014, (http://www.dep.state.fl.us/waste/misc/dnd/DEP_DOT_MOU_01Aug14.pdf) that allows petroleum contamination to remain in FDOT rights of way in certain circumstances as set forth therein without the recordation of a restrictive covenant on the affected FDOT property in the public records of the county. However, closure in reliance on this MOA requires additional actions by both the site/project manager and the owner of the source property.

As specifically enumerated in Attachment 32, the PRSR should submit a conditional SRCO proposal to FDEP including specified information for the adjacent contaminated FDOT Right of Way (ROW) property. FDEP will review the proposal and, if sufficient, will request that FDOT add a ROW Map Note regarding the existing petroleum contamination. FDOT will acknowledge the request by letter and will record a Map Note on the ROW Map consisting of FDEP's Request Letter along with summaries of soil and groundwater data, surveys and other documents detailing the contamination that remains. The Map Note will act as the IC to provide notice regarding the presence of contamination to all parties seeking a FDOT permit to do work in the ROW. FDEP will thereafter issue the conditional SRCO, and the PRSR will record the Map Note reference in the County Records Office.

Evaluation of Exposure Routes when Using an Alternative IC

Note that when using an alternate institutional control such as, a local ordinance, governmental control or MOU to prevent exposure to contaminated groundwater all

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399

RICK SCOTT
GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

MEMORANDUM

TO: **District Directors**
Divisional Program Administrators
Contracted County Petroleum Programs
Site Owners
Interested Parties

FROM: **Jorge R. Caspary, P.G.**
Director, Division of Waste Management

SUBJECT: **Site Closure with Conditions**

DATE: **November 1, 2013**

This is written to address concerns expressed with regards to the "Site Rehabilitation Completion Order with Condition pursuant to Chapter 62-780, F.A.C. (contamination remains & a restrictive covenant must be recorded) or LSSI NFA or SRCO" option in the Low Scored Site initiative Closure Selection form. I wish to emphasize that site closure with conditions is codified in Chapter 62-780, F.A.C., and is a form of site closure *strictly based on voluntary acceptance by the site owner*. *The Department cannot and will not obligate or force a site owner to close a site with conditions*. In addition, I also want to clarify the circumstances whereby an owner may be able to close a site without a restrictive covenant which come by deed or title to the property.

Institutional Controls (ICs) are defined in Section 376.301(22) and 376.79(10), Florida Statutes as "the restriction on use of, or access to, a site to eliminate or minimize exposure to petroleum products chemicals or concern, drycleaning solvents, or other contaminants. Such restrictions may include, but are not limited to, deed restrictions, restrictive covenants (RC) or conservation easements." ICs are an essential component in the Department's long-term strategy to close sites under managed risk because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site while allowing re-development and land transfer to proceed without a reduction in the levels of protection to human health and the environment.

Based on the applicable statute, and in order to achieve site closure with conditions, site owners have at their disposal several forms of ICs that are acceptable to prevent or reduce exposure to contamination. Examples of ICs are deed restrictions, restrictive covenants, and conservation easements. Likewise, examples of ICs that *do not require a restrictive covenant* are governmental controls that impose restrictions on land use or resource use. Typical examples of other forms of ICs for groundwater at a site include groundwater delineated areas under Chapter 62-524, F.A.C., county or municipal ordinances

prohibiting the installation of potable water wells in urban areas or mandating that any new potable well be connected to the county or municipal water delivery system, groundwater classified as undrinkable, and prohibition on installation of wells in potable wellhead protection areas under Chapter 62-521, F.A.C. When using existing governmental controls to close a site, a site owner *is not required* to place a restrictive covenant by deed or title to the property if the governmental control achieves the necessary degree of restriction on access to contaminated media.

I encourage site owners and responsible parties considering closure of their sites with conditions to contact me at Jorge.caspary@dep.state.fl.us with any questions or inquiries regarding site closure with or without conditions. I also hope that the above clarification provides site owners and interested parties our reassurances that the Department intends to work collaboratively and expeditiously in all matters related to achieving site closure with or without conditions.