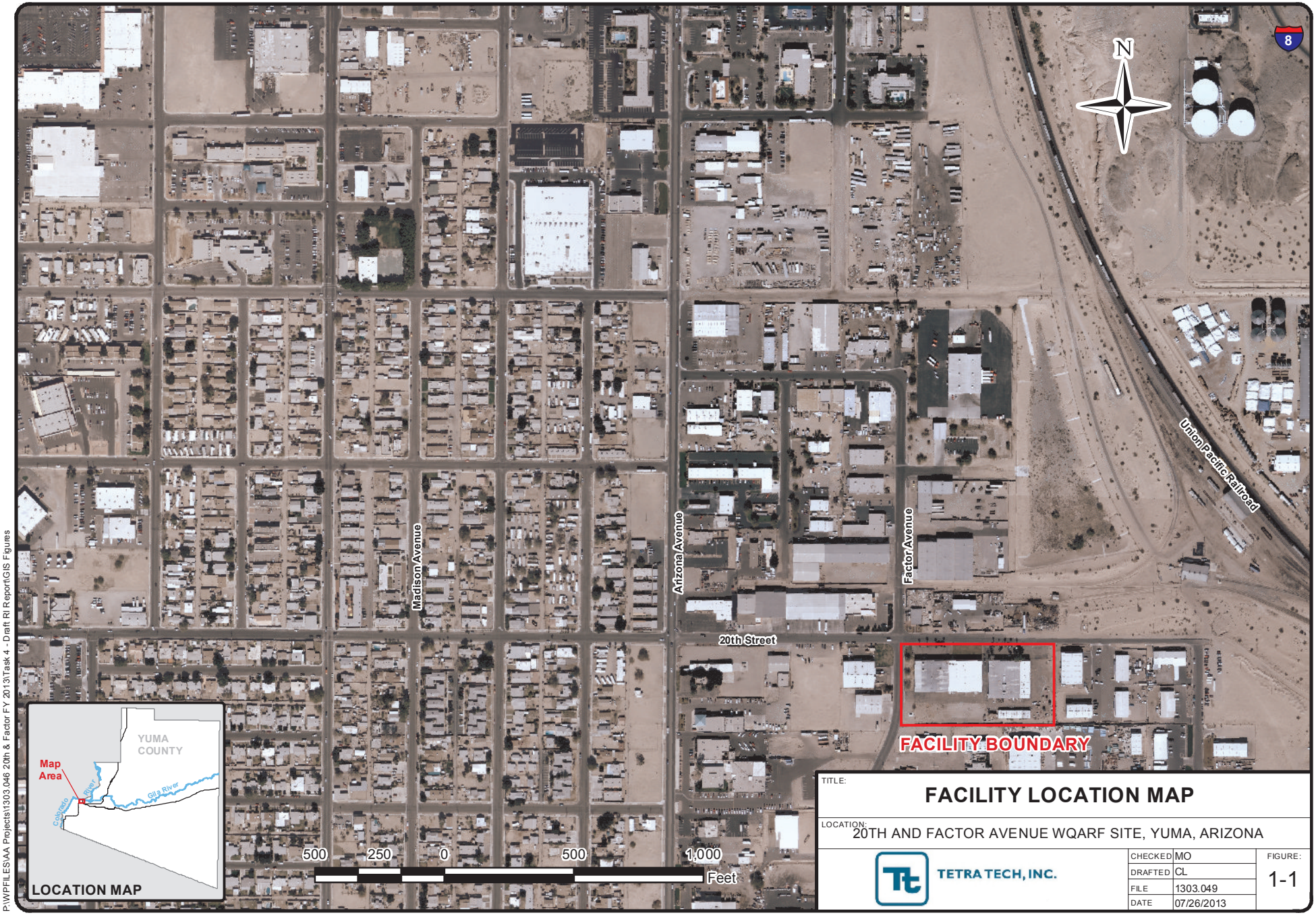


TITLE:

FACILITY LOCATION MAP

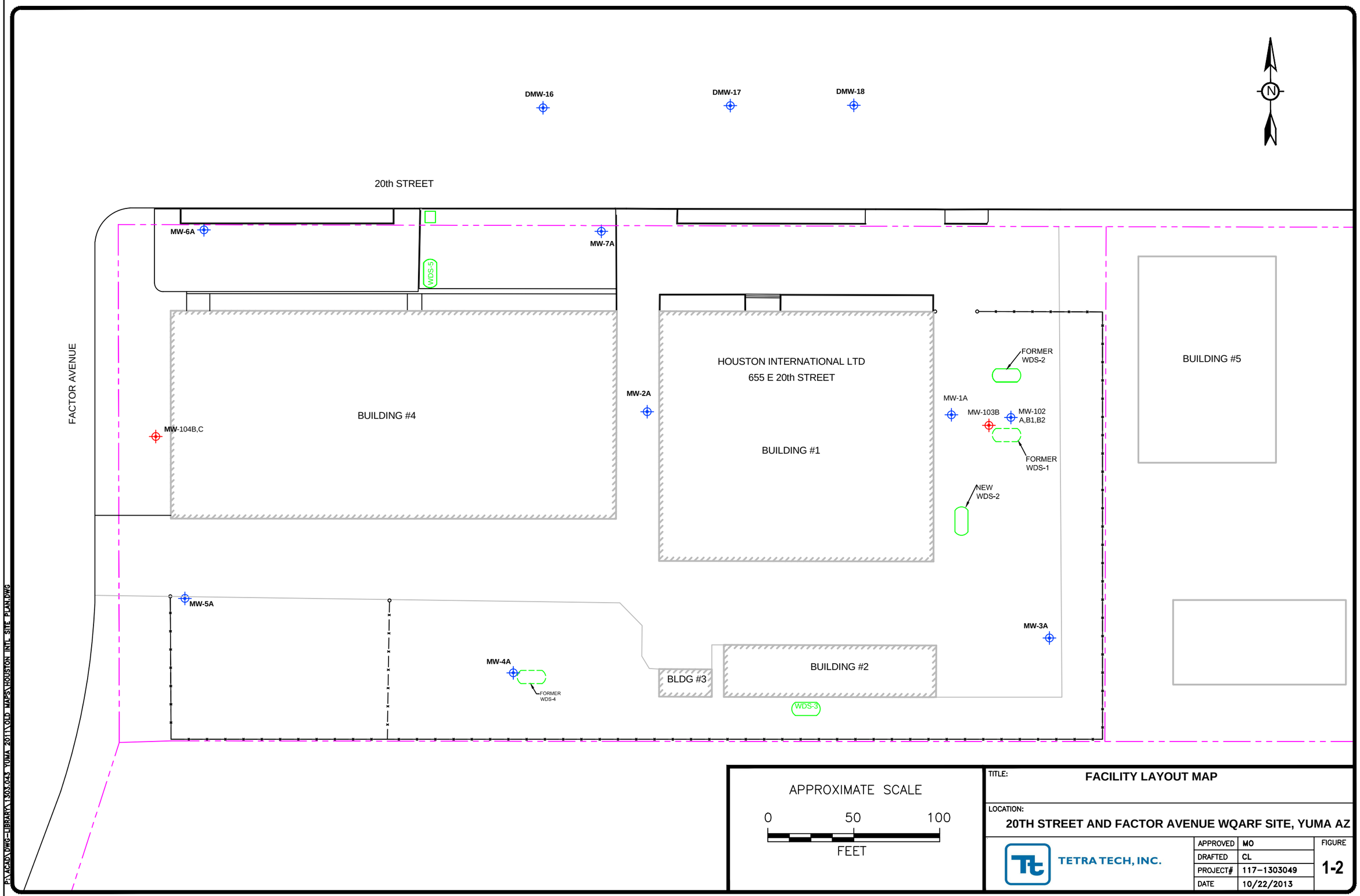
LOCATION: 20TH AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH, INC.

CHECKED	MO
DRAFTED	CL
FILE	1303.049
DATE	07/26/2013

FIGURE: 1-1

P:\WPFILES\AA Projects\1303.046 20th & Factor FY 2013\Task 4 - Draft RI Report\GIS Figures



TITLE: FACILITY LAYOUT MAP

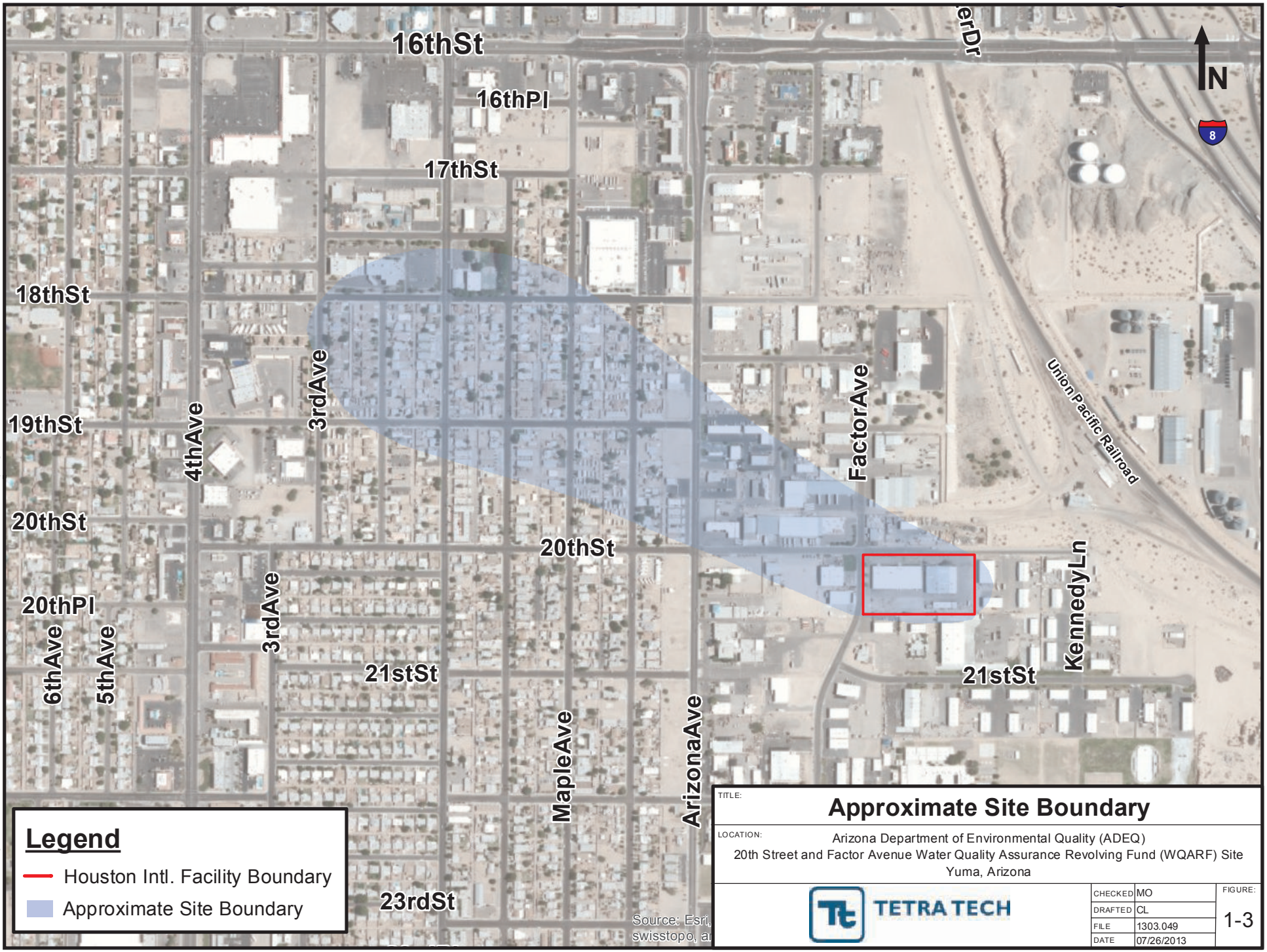
LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA AZ

TETRA TECH, INC.

APPROVED	MO
DRAFTED	CL
PROJECT#	117-1303049
DATE	10/22/2013

FIGURE 1-2

P:\ACAD\DWG-LIBRARY\1303.043 YUMA 2011\OLD MAPS\HOUSTON INTL SITE PLAN.DWG



TITLE: **Approximate Site Boundary**

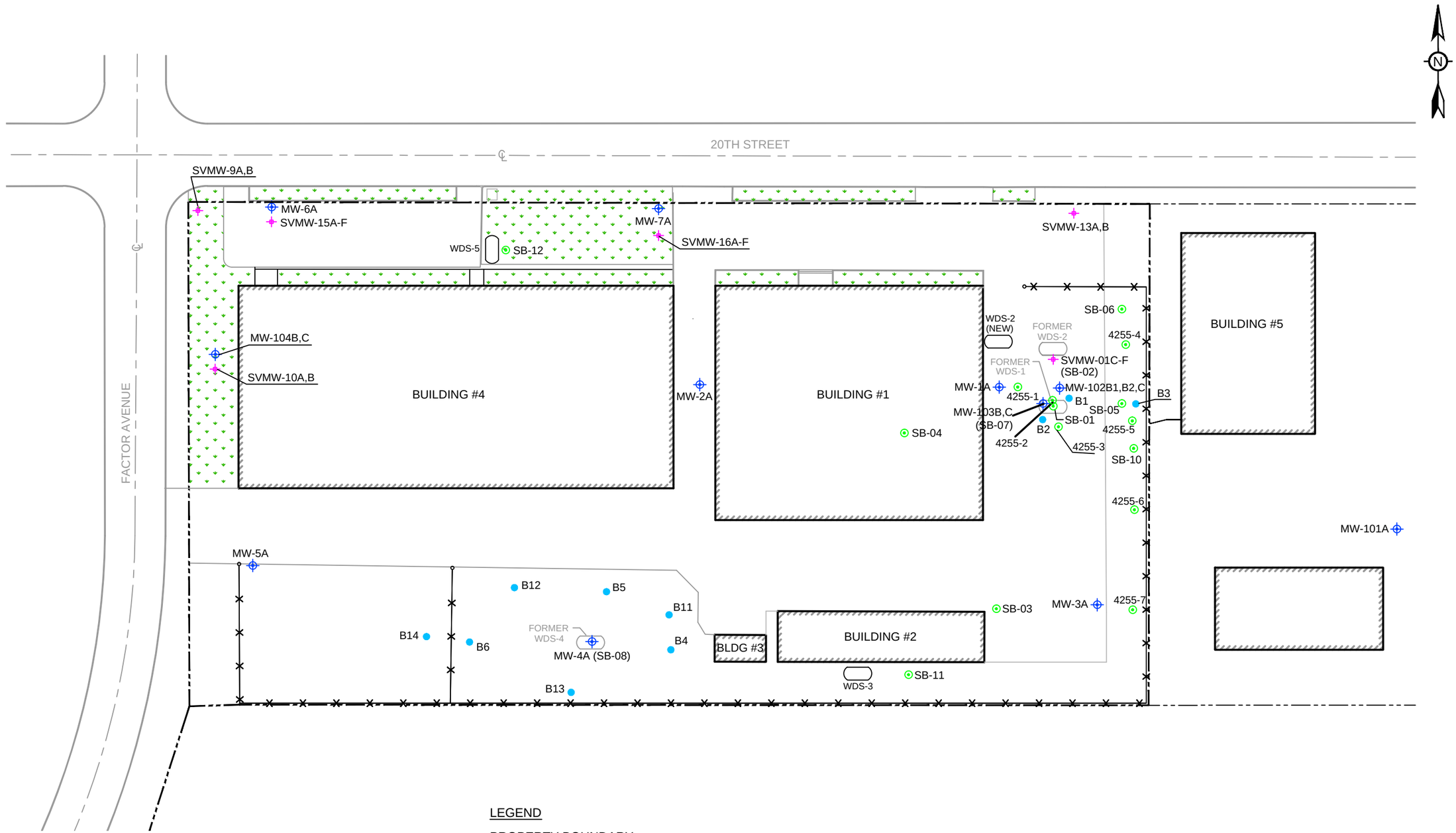
LOCATION: Arizona Department of Environmental Quality (ADEQ)
20th Street and Factor Avenue Water Quality Assurance Revolving Fund (WQARF) Site
Yuma, Arizona

TETRA TECH

CHECKED	MO
DRAFTED	CL
FILE	1303.049
DATE	07/26/2013

FIGURE: 1-3

P:\WPFILES\AA Projects\1303.049 20th & Factor FY2014\Task 3 - Complete RI Report\Site Boundary Fig.mxd



LEGEND

- PROPERTY BOUNDARY
- FENCE LINE
- SOIL VAPOR EXTRACTION WELL
- ABANDONED BOREHOLE
- GROUNDWATER MONITORING WELLS
- SOIL BORING

0 60 120

SCALE IN FEET

TITLE: **SITE DIAGRAM AND SOIL BORING LOCATIONS**

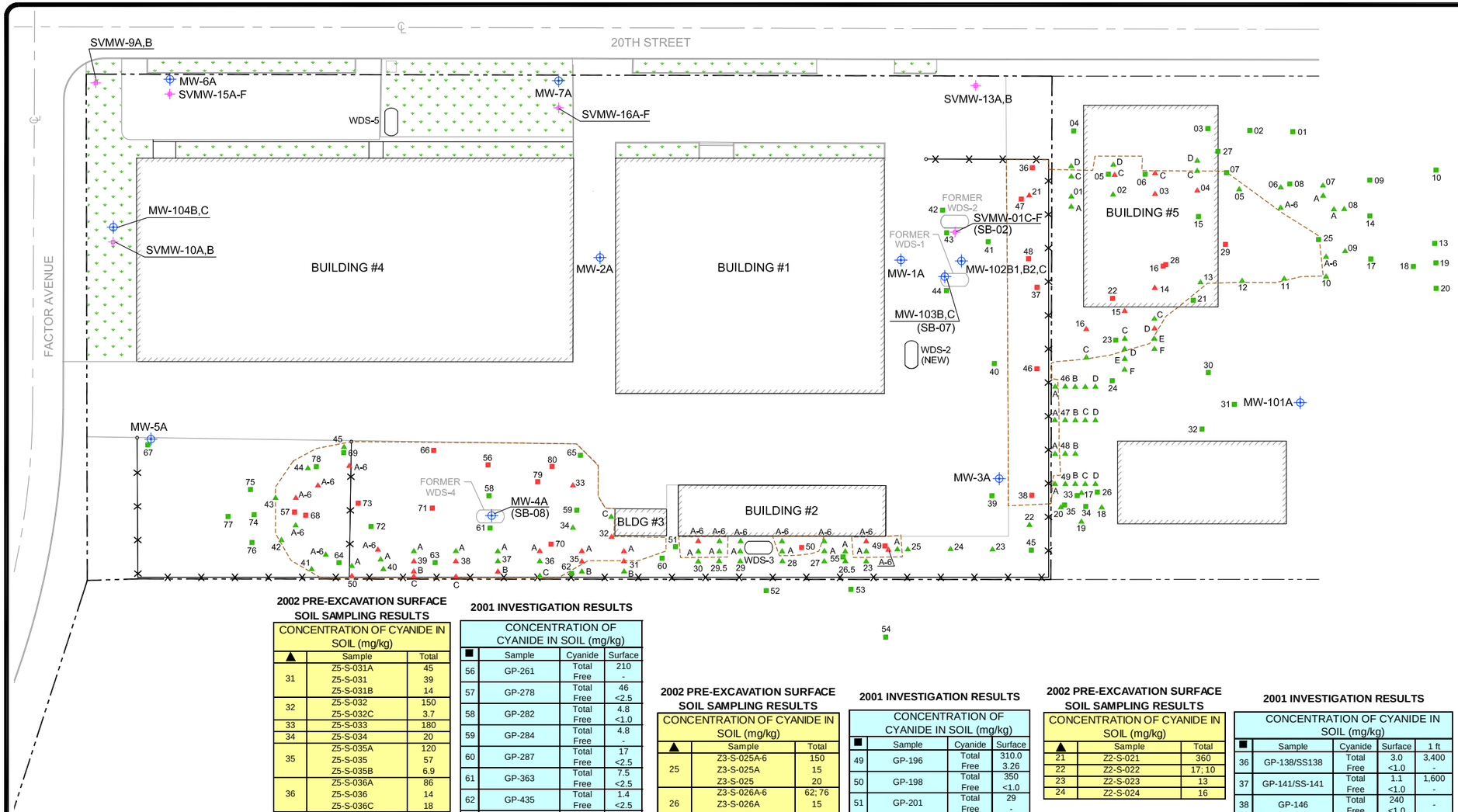
LOCATION: **20th Street and Factor Avenue WQARF Site Yuma, Arizona**

TETRA TECH

APPROVED	MO
DRAFTED	CP
PROJECT#	117-1303049
DATE	1/8/14

FIGURE **2-1**

P:\WPFILES\AA Projects\1303.049 20th & Factor FY2014\Task 3 - Complete RI Report\Updated Figures



2002 PRE-EXCAVATION SURFACE SOIL SAMPLING RESULTS

CONCENTRATION OF CYANIDE IN SOIL (mg/kg)		
▲	Sample	Total
31	Z5-S-031A	45
	Z5-S-031	39
	Z5-S-031B	14
32	Z5-S-032	150
	Z5-S-032C	3.7
33	Z5-S-033	180
34	Z5-S-034	20
35	Z5-S-035A	120
	Z5-S-035	57
	Z5-S-035B	6.9
36	Z5-S-036A	86
	Z5-S-036	14
	Z5-S-036C	18
37	Z5-S-037A	13
	Z5-S-037	35
	Z5-S-037B	54
38	Z5-S-038A	16; 13
	Z5-S-038	53; 34
	Z5-S-038C	62
39	Z5-S-039A	26
	Z5-S-039	52
	Z5-S-039B	74
	Z5-S-039C	38
40	Z5-S-040A-6	220
	Z5-S-040A	9.2
	Z5-S-040	27
41	Z5-S-041A-6	<1
	Z5-S-041	9.2
42	Z5-S-042A-6	4.4
	Z5-S-042	13
43	Z5-S-043A-6	36
	Z5-S-043	1.5
44	Z5-S-044A-6	39
	Z5-S-044	11
45	Z5-S-045A-6	49
	Z5-S-045	30
50	Z5-S-FEN-6 (A)	16
	Z5-S-FEN	120; 120

2001 INVESTIGATION RESULTS

CONCENTRATION OF CYANIDE IN SOIL (mg/kg)			
■	Sample	Cyanide	Surface
56	GP-261	Total Free	210 -
57	GP-278	Total Free	46 <2.5
58	GP-282	Total Free	4.8 <1.0
59	GP-284	Total Free	4.8 -
60	GP-287	Total Free	17 <2.5
61	GP-363	Total Free	7.5 <2.5
62	GP-435	Total Free	1.4 <2.5
63	GP-437	Total Free	5.2 -
64	GP-438	Total Free	<1.0 14
65	GP-439	Total Free	10 -
66	GP-443	Total Free	60 -
67	GP-444	Total Free	1.1 NA
68	GP-451	Total Free	760 <2.5
69	GP-452	Total Free	20 -
70	GP-453	Total Free	50 -
71	GP-455	Total Free	59 -
72	GP-456	Total Free	<1.0 NA
73	GP-457	Total Free	380 -
74	GP-459	Total Free	<1.0 NA
75	GP-460	Total Free	<1.0 NA
76	GP-461	Total Free	2.78 NA
77	GP-462	Total Free	2.1 NA
78	GP-463	Total Free	19.1 <1.0
79	GP-464	Total Free	35.5 1.19
80	GP-101	Total Free	690 13

2002 PRE-EXCAVATION SURFACE SOIL SAMPLING RESULTS

CONCENTRATION OF CYANIDE IN SOIL (mg/kg)		
▲	Sample	Total
25	Z3-S-025A-6	150
	Z3-S-025A	15
	Z3-S-025	20
26	Z3-S-026A-6	62; 76
	Z3-S-026A	15
	Z3-S-026	18
26.5	Z3-S-026.5A	29
	Z3-S-026.5	3.5
27	Z3-S-027A-6	31
	Z3-S-027A	29
	Z3-S-027	11
28	Z3-S-028A-6	11
	Z3-S-028A	13
	Z3-S-028	5.3;6.0
29	Z3-S-029A-6	3.4
	Z3-S-029A	6.2
	Z3-S-029	5.3
29.5	Z3-S-029.5A-6	7.3
	Z3-S-029.5A	8.9
	Z3-S-029.5	<1
30	Z3-S-030A-6	55
	Z3-S-030A	18
	Z3-S-030	9.2

2001 INVESTIGATION RESULTS

CONCENTRATION OF CYANIDE IN SOIL (mg/kg)			
■	Sample	Cyanide	Surface
49	GP-196	Total Free	310.0 3.26
50	GP-198	Total Free	350 <1.0
51	GP-201	Total Free	29 -
52	GP-203	Total Free	1.9 <2.5
53	GP-205	Total Free	<1.0 NA
54	GP-207	Total Free	<1.0 <2.5
55	GP-433	Total Free	<1.0 NA

2002 PRE-EXCAVATION SURFACE SOIL SAMPLING RESULTS

CONCENTRATION OF CYANIDE IN SOIL (mg/kg)		
▲	Sample	Total
21	Z2-S-021	360
22	Z2-S-022	17; 10
23	Z2-S-023	13
24	Z2-S-024	16

2001 INVESTIGATION RESULTS

CONCENTRATION OF CYANIDE IN SOIL (mg/kg)				
■	Sample	Cyanide	Surface	1 ft
36	GP-138/SS138	Total Free	3.0 <1.0	3,400 -
37	GP-141/SS-141	Total Free	1.1 <1.0	1,600 -
38	GP-146	Total Free	240 <1.0	-
39	GP-151	Total Free	<1.0 NA	-
40	GP-154	Total Free	<1.0 NA	-
41	GP-157	Total Free	<1.0 <2.5	-
42	GP-188	Total Free	<1.0 NA	-
43	GP-190	Total Free	4.1 <1.0	-
44	GP-194	Total Free	<1.0 NA	-
45	GP-431	Total Free	1.2 <1.0	-
46	GP-458	Total Free	170 -	-
47	GS-530-SS-1.0	Total Free	-	830 76
48	SS-101	Total Free	690 13	-

2002 PRE-EXCAVATION SURFACE SOIL SAMPLING RESULTS

CONCENTRATION OF CYANIDE IN SOIL (mg/kg)		
▲	Sample	Total
01	Z1-S-001A	2
	Z1-S-001	21
	Z1-S-001C	5.1
	Z1-S-001D	6
02	Z1-S-002	23
	Z1-S-002C	36
	Z1-S-002D	20
03	Z1-S-003	55; 25
	Z1-S-003C	40
04	Z1-S-004	39
	Z1-S-004C	10
	Z1-S-004D	6.1
05	Z1-S-005	19
06	Z1-S-006A-6	2.4
	Z1-S-006	1.5
07	Z1-S-007A	14
	Z1-S-007	3.7
08	Z1-S-008A	12
	Z1-S-008	9.2
09	Z1-S-009	2
10	Z1-S-010A-6	6.5; 1.2
	Z1-S-010	2.9
11	Z1-S-011	30
12	Z1-S-012	5.1
13	Z1-S-013	4
14	Z1-S-014	41
	Z1-S-014C	29
	Z1-S-014D	39
	Z1-S-014E	21
	Z1-S-014F	27
15	Z1-S-015	44
	Z1-S-015C	5.6
	Z1-S-015D	5.9
	Z1-S-015E	18
	Z1-S-015F	17
16	Z1-S-016	44
	Z1-S-016C	9.1
17	Z1-S-017	18; 13
18	Z1-S-018	24
19	Z1-S-019	35
20	Z1-S-020	29
46	Z1-S-046A	25
	Z1-S-046	18; 13
	Z1-S-046B	12
	Z1-S-046C	14
	Z1-S-046D	3.3
47	Z1-S-047A	17
	Z1-S-047	16
	Z1-S-047B	14
	Z1-S-047C	13
	Z1-S-047D	21
48	Z1-S-048A	11
	Z1-S-048	14
	Z1-S-048B	8.3
49	Z1-S-049A	29
	Z1-S-049	16
	Z1-S-049B	15
	Z1-S-049C	8.4
	Z1-S-049D	21

2001 INVESTIGATION RESULTS

CONCENTRATION OF CYANIDE IN SOIL (mg/kg)			
■	Sample	Cyanide	Surface
01	GP-025	Total Free	<1.0 NA
02	GP-026	Total Free	<1.0 NA
03	GP-027	Total Free	<1.0 NA
04	GP-030	Total Free	<1.0 <2.5
05	GP-032	Total Free	1.6 <1.0
06	GP-033	Total Free	1.6 <2.5
07	GP-035	Total Free	2.4 <2.5
08	GP-036	Total Free	<1.0 <1.0
09	GP-038	Total Free	<1.0 NA
10	GP-040	Total Free	<1.0 <2.5
11	GP-041	Total Free	<1.0 NA
12	GP-042	Total Free	<1.0 NA
13	GP-051	Total Free	<1.0 NA
14	GP-053	Total Free	<2.5 <2.5
15	GP-057	Total Free	1.7 <1.0
16	GP-063	Total Free	480 2.31
17	GP-068	Total Free	2.7 <2.5
18	GP-069	Total Free	1.9 <2.5
19	GP-070	Total Free	1.5 <1.0
20	GP-081	Total Free	<1.0 NA
21	GP-087	Total Free	<1.0 NA
22	GP-089	Total Free	230 2.37
23	GP-092	Total Free	<1.0 NA
24	GP-119	Total Free	7.0 NA
25	GP-429	Total Free	32 <1.0
26	GP-450	Total Free	7.6 <2.5
27	GP-454	Total Free	<1.0 NA
28	RMP-101	Total Free	650 5.3
29	RMP-102	Total Free	650 5.7
30	RMP-103	Total Free	9.6 <2.5
31	RMP-104	Total Free	<2.5 <2.5
32	RMP-105	Total Free	7.5 <2.5
33	RMP-106	Total Free	3.4 <2.5
34	RMP-107	Total Free	17 <2.5
35	RMP-108	Total Free	13 <2.5

EXPLANATION

- ■▲ SAMPLES WITH CONCENTRATIONS > 35 mg/Kg
- ■▲ SAMPLES WITH CONCENTRATIONS ≤ 35 mg/Kg
- NA NOT ANALYZED
- SOIL EXCAVATION BOUNDARY
- SAMPLE PREPARATION FOR EPA METHOD 9010B/9014 VARIED BETWEEN LABORATORIES WHICH MAY HAVE RESULTED IN LOWER DETECTED CONCENTRATIONS
- SAMPLE PREPARATION FOR EPA METHOD 9010B/9014 PERFORMED IN ACCORDANCE WITH STANDARD METHOD 4500-CN

LEGEND

- FACILITY BOUNDARY
- FENCE LINE
- SOIL VAPOR EXTRACTION WELL
- GROUNDWATER MONITORING WELLS

0 70 140
SCALE IN FEET

TITLE: **SURFACE AND SUBSURFACE SOIL SAMPLE LOCATIONS WITH CYANIDE CONCENTRATIONS**

LOCATION: **20th Street and Factor Avenue WQARF Site Yuma, Arizona**

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	CP	2-2
PROJECT#	117-1303046	
DATE	1-14-14	

P:\ACAD\1303-046-HOUS\1303046026A.DWG

TITLE: SOIL VAPOR MONITORING WELL LOCATION MAP

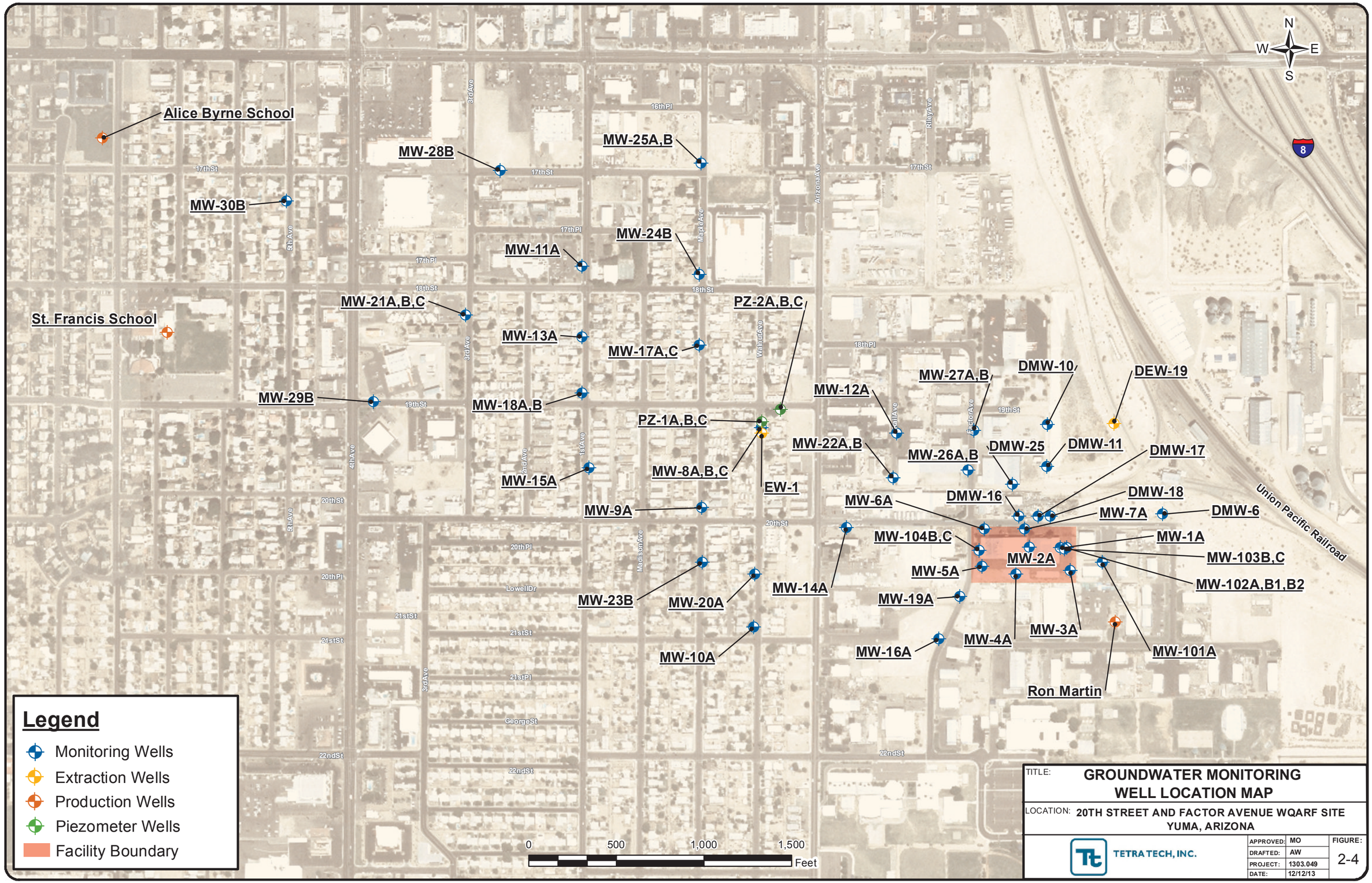
LOCATION: 20th Street and Factor Avenue WQARF Site, Yuma, Arizona

TETRA TECH, INC.

APPROVED	MO
DRAFTED	CP
PROJECT#	117-1303049
DATE	12/12/13

FIGURE 2-3

P:\GeoTrans Phoenix\Databases\Yuma 20th & Factor\GIS\2013\3-19-13 GW Elevations Zone A Map.mxd



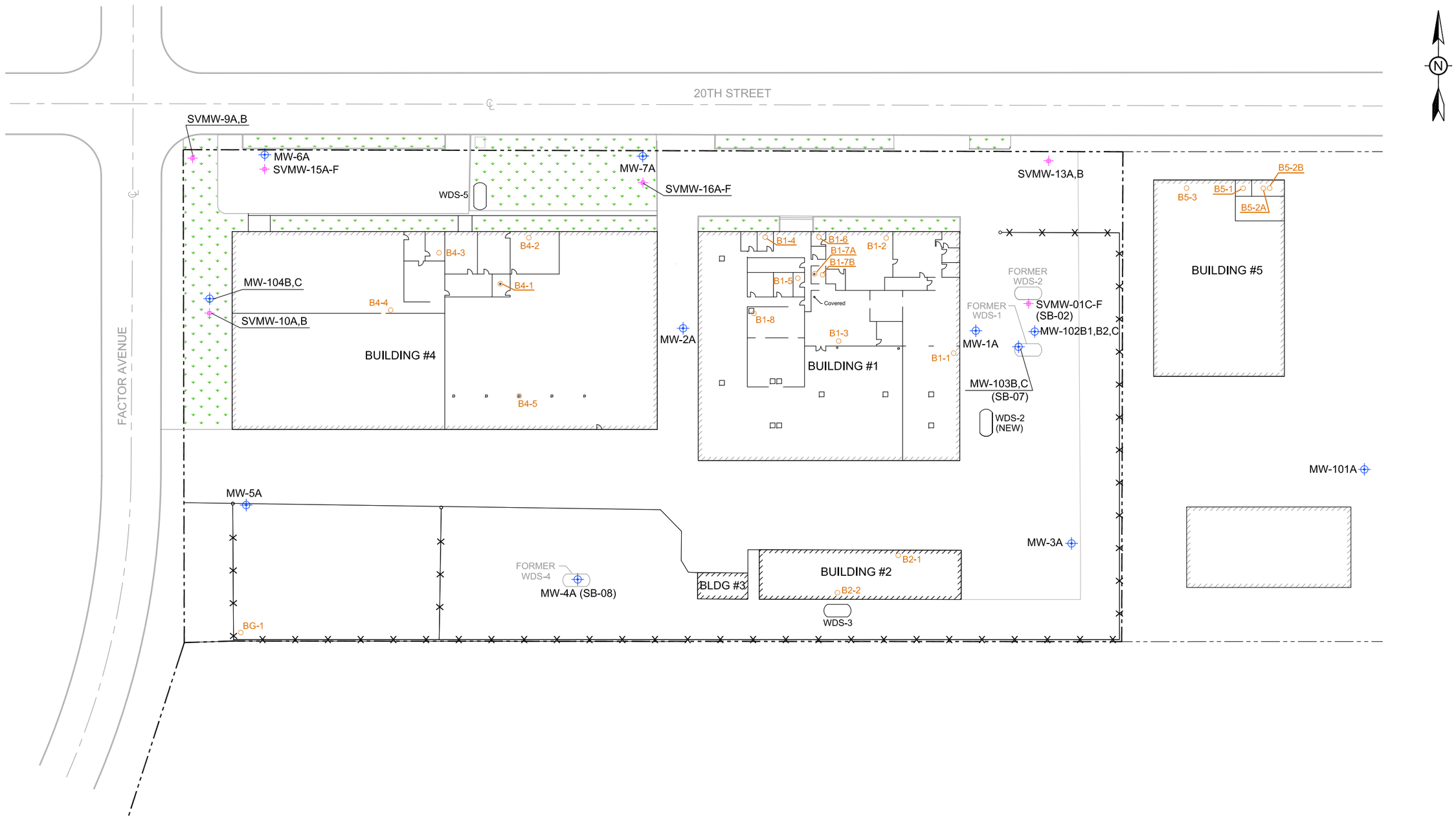
TITLE: GROUNDWATER MONITORING WELL LOCATION MAP

LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE YUMA, ARIZONA

TETRA TECH, INC.

APPROVED:	MO
DRAFTED:	AW
PROJECT:	1303.049
DATE:	12/12/13

FIGURE: 2-4



LEGEND

- FACILITY BOUNDARY
- FENCE LINE
- SOIL VAPOR EXTRACTION WELL
- GROUNDWATER MONITORING WELLS
- CEILING VENTS
- FLOOR DRAINS
- BG-1* INDOOR AIR QUALITY SAMPLING LOCATION AND NUMBER ALL SAMPLES ARE TAKEN 4 FEET ABOVE THE FLOOR EXCEPT B1-1 AND B1-7B, WHICH ARE 2 FEET

* FULL SAMPLE NAME WILL BE HI-AIR-B5-1-MMDDYY

0 60 120
SCALE IN FEET

TITLE: **INDOOR AIR SAMPLING LOCATIONS**

LOCATION: **20th Street and Factor Avenue WQARF Site Yuma, Arizona**

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	CP	2-5
PROJECT#	117-1303046	
DATE	1-14-14	

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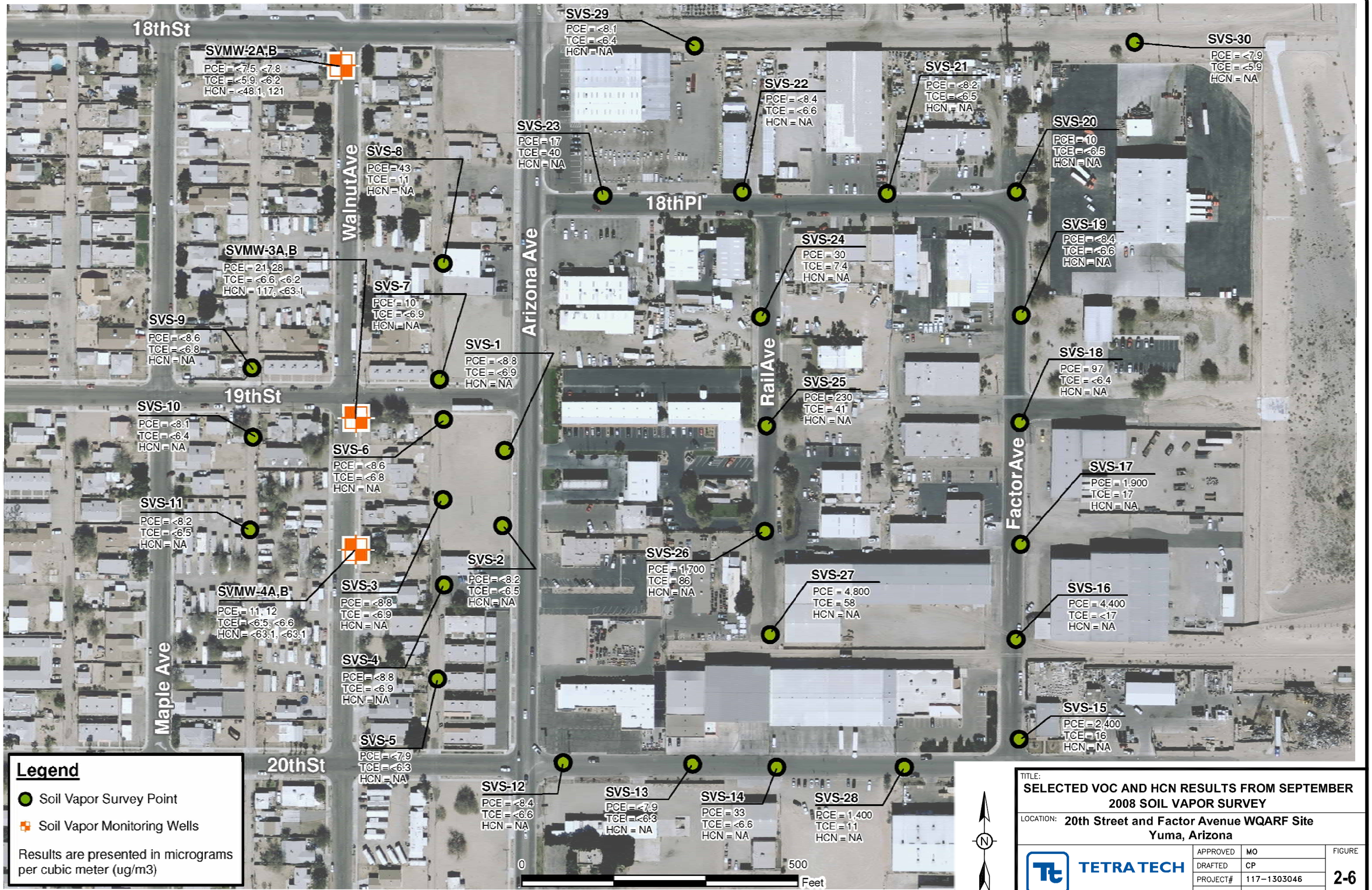

TITLE:
SELECTED VOC AND HCN RESULTS FROM SEPTEMBER 2008 SOIL VAPOR SURVEY

LOCATION: **20th Street and Factor Avenue WQARF Site Yuma, Arizona**

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	CP	2-6
PROJECT#	117-1303046	
DATE	1-14-14	

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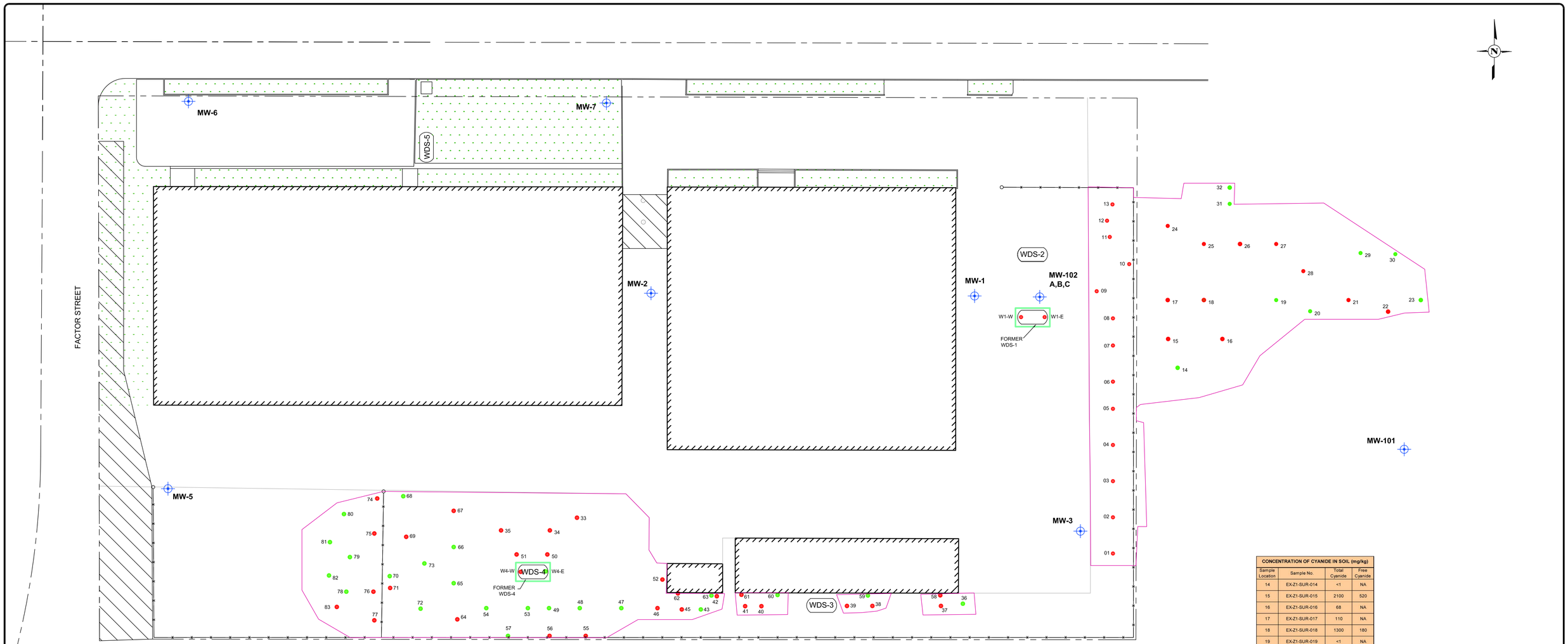


CONCENTRATION OF CYANIDE IN SOIL (mg/kg)			
Sample Location	Sample No.	Total Cyanide	Free Cyanide
33	EX-Z5-SUR-033	250 ; 280	180 ; 120
34	EX-Z5-SUR-034	98 ; 310	NA
35	EX-Z5-SUR-035	16 ; 58	NA
42	EX-Z3-SUR-042	48	NA
43	EX-Z3-SUR-043	10 ; 16	NA
45	EX-Z3-SUR-045	1,100	880
46	EX-Z5-SUR-046	45	NA
47	EX-Z5-SUR-047	17	NA
48	EX-Z5-SUR-048	26	NA
49	EX-Z5-SUR-049	12	NA
50	EX-Z5-SUR-050	330	NA
51	EX-Z5-SUR-051	76	NA
52	EX-Z5-SUR-052	190	NA
53	EX-Z5-SUR-053	28	NA
54	EX-Z5-SUR-054	5	NA
55	EX-Z5-SUR-055	54	NA
56	EX-Z5-SUR-056	63	NA
57	EX-Z5-SUR-057	30	NA
62	EX-Z5-SUR-062	39	NA
63	EX-Z5-SUR-063	25	NA
64	EX-Z5-SUR-064	130	NA
65	EX-Z5-SUR-065	7.4	NA
66	EX-Z5-SUR-066	5.7	NA
67	EX-Z5-SUR-067	300	140
68	EX-Z5-SUR-068	2.5	NA
69	EX-Z5-SUR-069	27 ; 53	NA
70	EX-Z5-SUR-070	22	NA
71	EX-Z5-SUR-071	18 ; 250	NA
72	EX-Z5-SUR-072	15	NA
73	EX-Z5-SUR-073	5.2	NA
74	EX-Z5-SUR-074	37	NA
75	EX-Z5-SUR-075	560	NA
76	EX-Z5-SUR-076	50	NA
77	EX-Z5-SUR-077	280	NA
78	EX-Z5-SUR-078	11	NA
79	EX-Z5-SUR-079	18	18
80	EX-Z5-SUR-080	13	<1
81	EX-Z5-SUR-081	<5	NA
82	EX-Z5-SUR-082	5.7	NA
83	EX-Z5-SUR-083	52	10
W4-E	EX-WDS4-010E	<5	NA
W4-W	EX-WDS4-010W	54	<5

CONCENTRATION OF CYANIDE IN SOIL (mg/kg)			
Sample Location	Sample	Total Cyanide	Free Cyanide
36	EX-Z5-SUR-036	8	NA
37	EX-Z5-SUR-037	290	NA
38	EX-Z3-SUR-038	340	NA
39	EX-Z3-SUR-039	440	290
40	EX-Z3-SUR-040	400	61
41	EX-Z3-SUR-041	230	NA
58	EX-Z5-SUR-058	40	NA
59	EX-Z5-SUR-059	7	NA
60	EX-Z5-SUR-060	17	NA
61	EX-Z5-SUR-061	230	NA

CONCENTRATION OF CYANIDE IN SOIL (mg/kg)			
Sample Location	Sample No.	Total Cyanide	Free Cyanide
01	EX-Z2-SUR-001	160	<10
02	EX-Z2-SUR-002	100	<10
03	EX-Z2-SUR-003	90	27
04	EX-Z002-SUR-004	240	<20
05	EX-Z002-SUR-005	110	<6.7
06	EX-Z002-SUR-006	5,200	<500
07	EX-Z002-SUR-007	5,800	2,400
08	EX-Z002-SUR-008	2,800	NA
09	EX-Z002-SUR-009	4,100	NA
10	EX-Z002-SUR-010	820	NA
11	EX-Z002-SUR-011	4,400	NA
12	EX-Z002-SUR-012	5,600	3,200
13	EX-Z002-SUR-013	2,300	NA
W1-E	EX-WDS1-012-E *	430	<200
W1-W	EX-WDS1-013-W **	78	NA

* Also contains 0.50 mg/kg PCE
** Also contains 0.47 mg/kg PCE

CONCENTRATION OF CYANIDE IN SOIL (mg/kg)			
Sample Location	Sample No.	Total Cyanide	Free Cyanide
14	EX-Z1-SUR-014	<1	NA
15	EX-Z1-SUR-015	2100	520
16	EX-Z1-SUR-016	68	NA
17	EX-Z1-SUR-017	110	NA
18	EX-Z1-SUR-018	1300	180
19	EX-Z1-SUR-019	<1	NA
20	EX-Z1-SUR-020	11	NA
21	EX-Z1-SUR-021	58	NA
22	EX-Z1-SUR-022	410	NA
23	EX-Z1-SUR-023	1.4 ; 16	NA
24	EX-Z1-SUR-024	1300	NA
25	EX-Z1-SUR-025	1100	NA
26	EX-Z1-SUR-026	550	NA
27	EX-Z1-SUR-027	310	NA
28	EX-Z1-SUR-028	350	NA
29	EX-Z1-SUR-029	7.4	NA
30	EX-Z1-SUR-030	17	NA
31	EX-Z1-SUR-031	1.3	NA
32	EX-Z1-SUR-032	1.8	NA

EXPLANATION

- ● SAMPLES WITH CONCENTRATIONS > 35 mg/Kg
- ● SAMPLES WITH CONCENTRATIONS ≤ 35 mg/Kg
- NA NOT ANALYZED
- SOIL EXCAVATION BOUNDARY
- WDS EXCAVATION BOUNDARY

NOTE:
SAMPLE PREPARATION FOR EPA METHOD 9010B/9014 PERFORMED IN ACCORDANCE WITH STANDARD METHOD 4500-CN

0 25 50
APPROXIMATE SCALE IN FEET

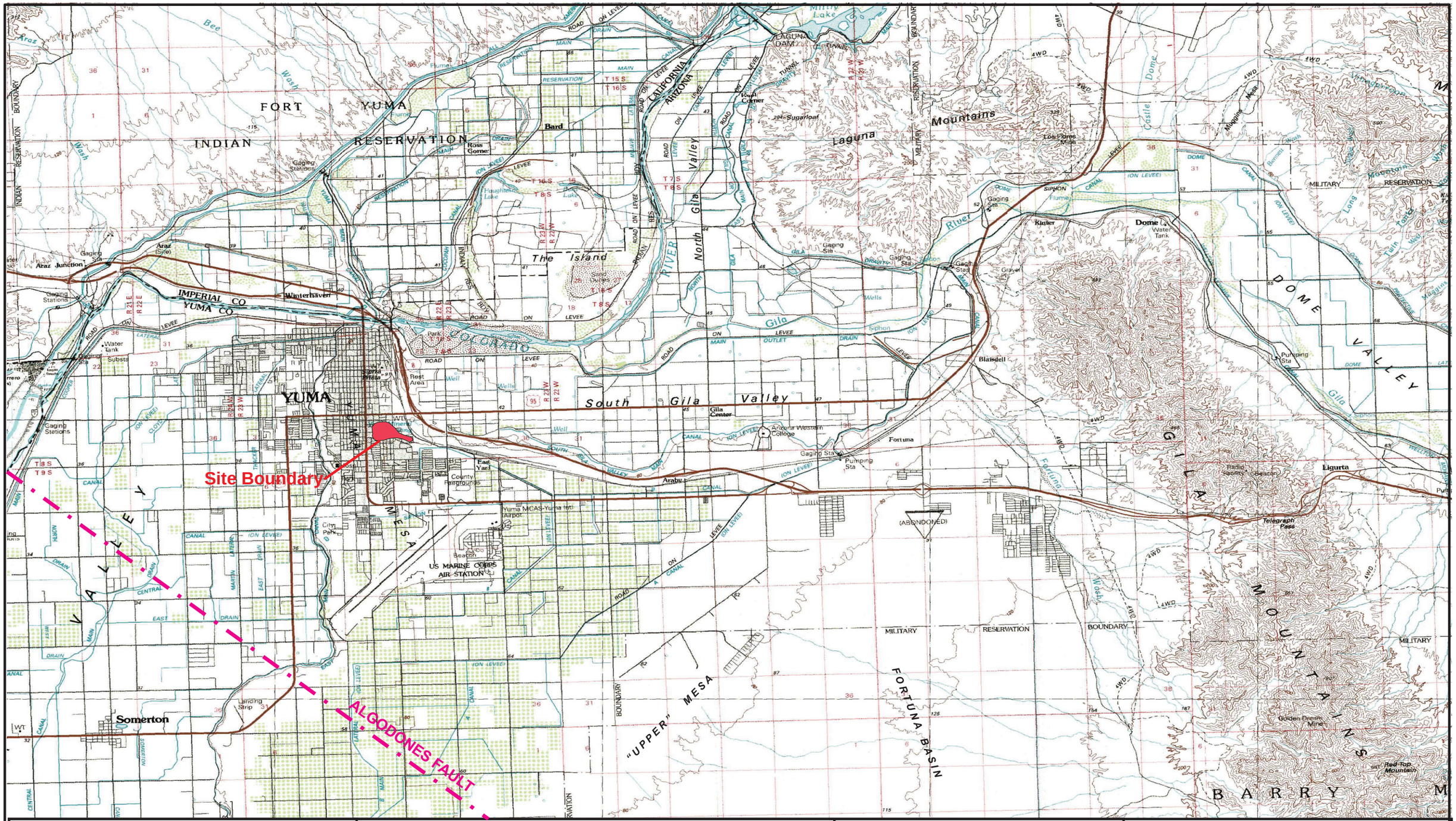
TITLE:
RESIDUAL CYANIDE CONCENTRATIONS - BOTTOM OF EXCAVATIONS GPL EVALUATION FOR CYANIDES

PROJECT:
HOUSTON INTERNATIONAL FACILITY
20th STREET & FACTOR AVENUE WQARF SITE, YUMA, AZ

TETRA TECH, INC.

CHECKED	JZ
DRAFTED	DBS
PROJ. NO.	1303.049
DATE	12/12/13

FIGURE: 2-7



TETRA TECH, INC.

SCALE 1:100,000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

CONTOUR INTERVAL 40 METERS

* Lineament fault associated with Algodones Fault.

* Locations of "Upper" Mesa, Fortuna Basin, Algodones Fault, and Lineament Fault inferred.

SOURCE: USGS Yuma, AZ 30x60 minute topographic map, 1993

TITLE: YUMA AREA AND ALGODONES FAULT

LOCATION: YUMA COUNTY, ARIZONA

CHECKED	MO	DRAWN	12/11/13	FIGURE:
DRAFTED	CL	PROJECT#	1303.049	4-1

NOTES:

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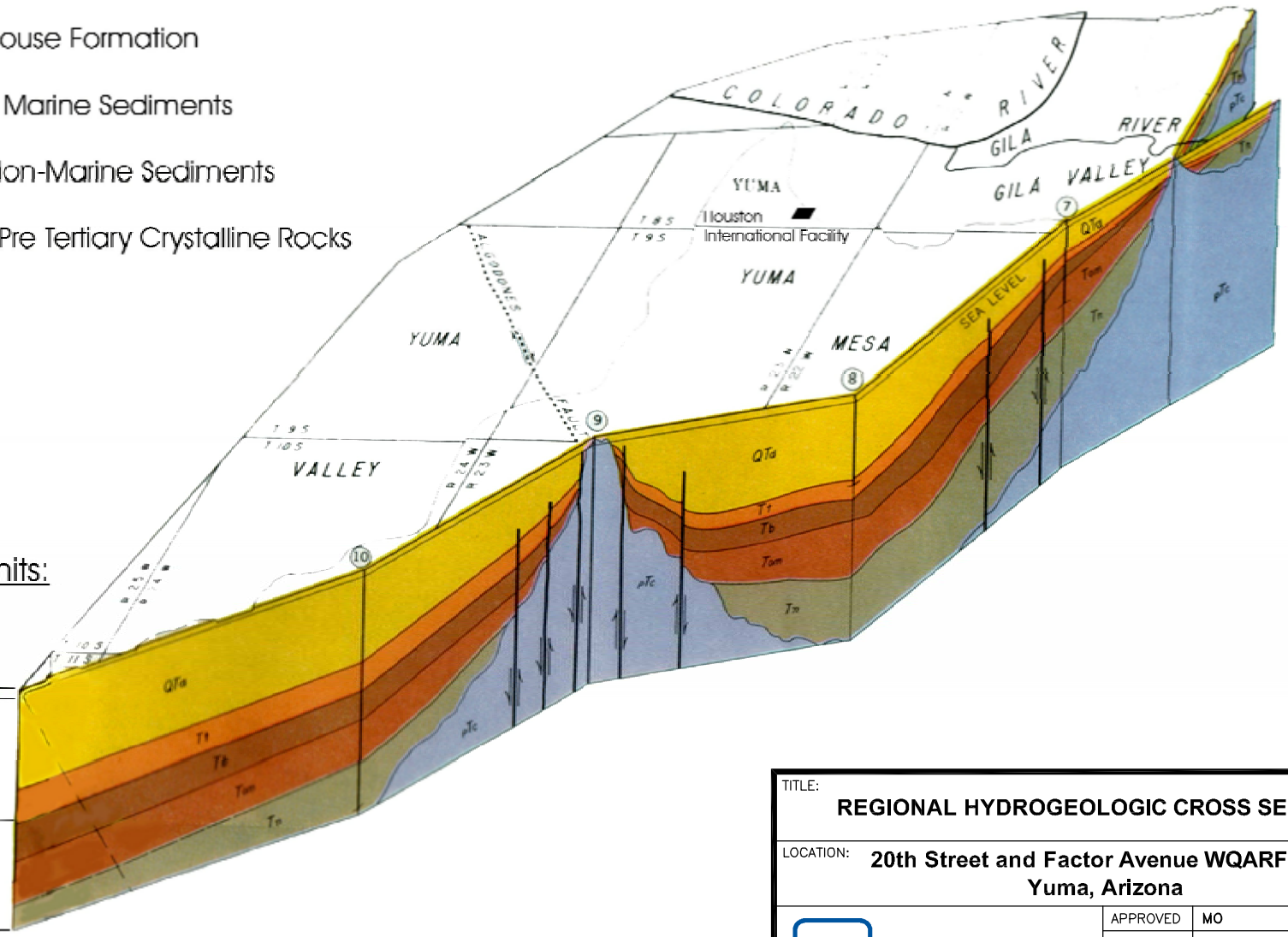
Geologic Units:

- QTa - (Older & Younger)
- Tt - Transition Zone
- Tb - Bouse Formation
- Tom - Marine Sediments
- Tn - Non-Marine Sediments
- pTC- Pre Tertiary Crystalline Rocks



Hydrologic Units:

Younger (Course Gravel and Upper Fine Grained Units)

Wedge Zone

Older Sediments

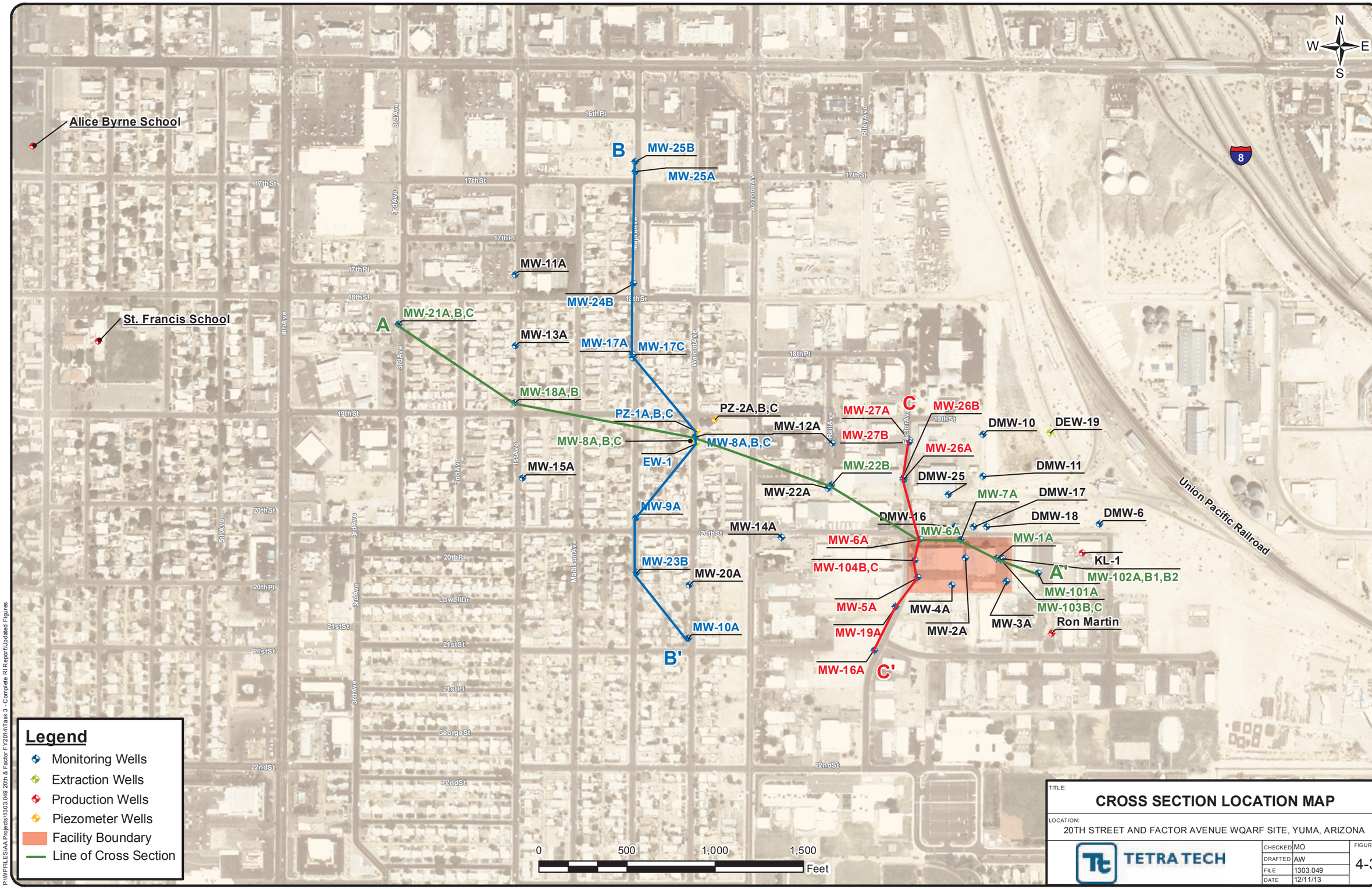
NOTE: Figure adapted from Geohydrology of the Yuma Area, Arizona and California (Olmsted, et al, 1973)

TITLE: **REGIONAL HYDROGEOLOGIC CROSS SECTION**

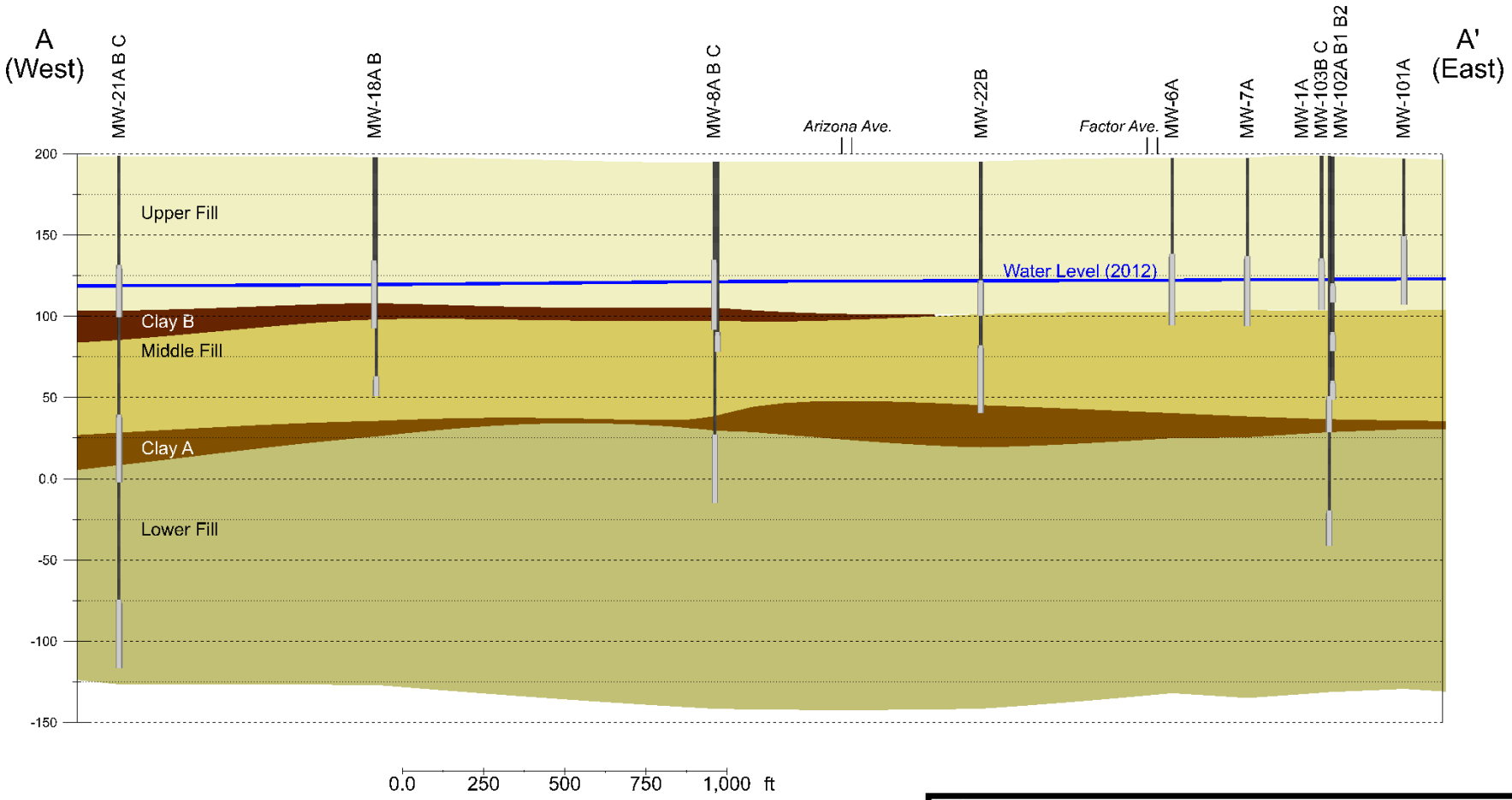
LOCATION: **20th Street and Factor Avenue WQARF Site Yuma, Arizona**

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	CP	4-2
PROJECT#	117-1303046	
DATE	1-14-14	


N
W
E
S
Alice Byrne School
St. Francis School
B
MW-25B
MW-25A
MW-11A
MW-24B
A
MW-21A,B,C
MW-13A
MW-17A
MW-17C
MW-18A,B
PZ-1A,B,C
PZ-2A,B,C
MW-12A
MW-8A,B,C
MW-8A,B,C
EW-1
MW-15A
MW-9A
MW-23B
MW-20A
MW-10A
B'
MW-14A
MW-22A
MW-22B
C
MW-27A
MW-27B
MW-26B
MW-26A
DMW-10
DEW-19
DMW-25
DMW-11
MW-7A
DMW-17
DMW-16
DMW-18
DMW-6
MW-6A
MW-6A
MW-1A
KL-1
MW-104B,C
A'
MW-102A,B1,B2
MW-101A
MW-103B,C
MW-5A
MW-4A
MW-3A
Ron Martin
MW-19A
MW-2A
MW-16A
C'
Union Pacific Railroad
8
16th Pl
17th St
17th Pl
18th St
18th Pl
19th St
20th St
20th Pl
21st St
21st Pl
22nd St
Lowell Dr
George St
3rd Ave
4th Ave
5th Ave
2nd Ave
1st Ave
Madison Ave
Walnut Ave
Fell Ave
Factor Ave
Arizona Ave
Riley Ave
Legend
Monitoring Wells
Extraction Wells
Production Wells
Piezometer Wells
Facility Boundary
Line of Cross Section
0
500
1,000
1,500
Feet
TITLE:
CROSS SECTION LOCATION MAP
LOCATION:
20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA
TETRA TECH
CHECKED MO
DRAFTED AW
FILE 1303.049
DATE 12/11/13
FIGURE:
4-3
P:\WPFILES\AA Projects\1303.049 20th & Factor FY2014\Task 3 - Complete RI Report\Updated Figures

P:\WPFILES\AA Projects\1303.049 20th & Factor FY2014\Task 3 - Complete RI Report\Updated Figures



TITLE: **GEOLOGIC CROSS-SECTION FROM A – A'**

LOCATION: **20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA**

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	4-4
PROJECT#	1303.049	
DATE	12/11/13	

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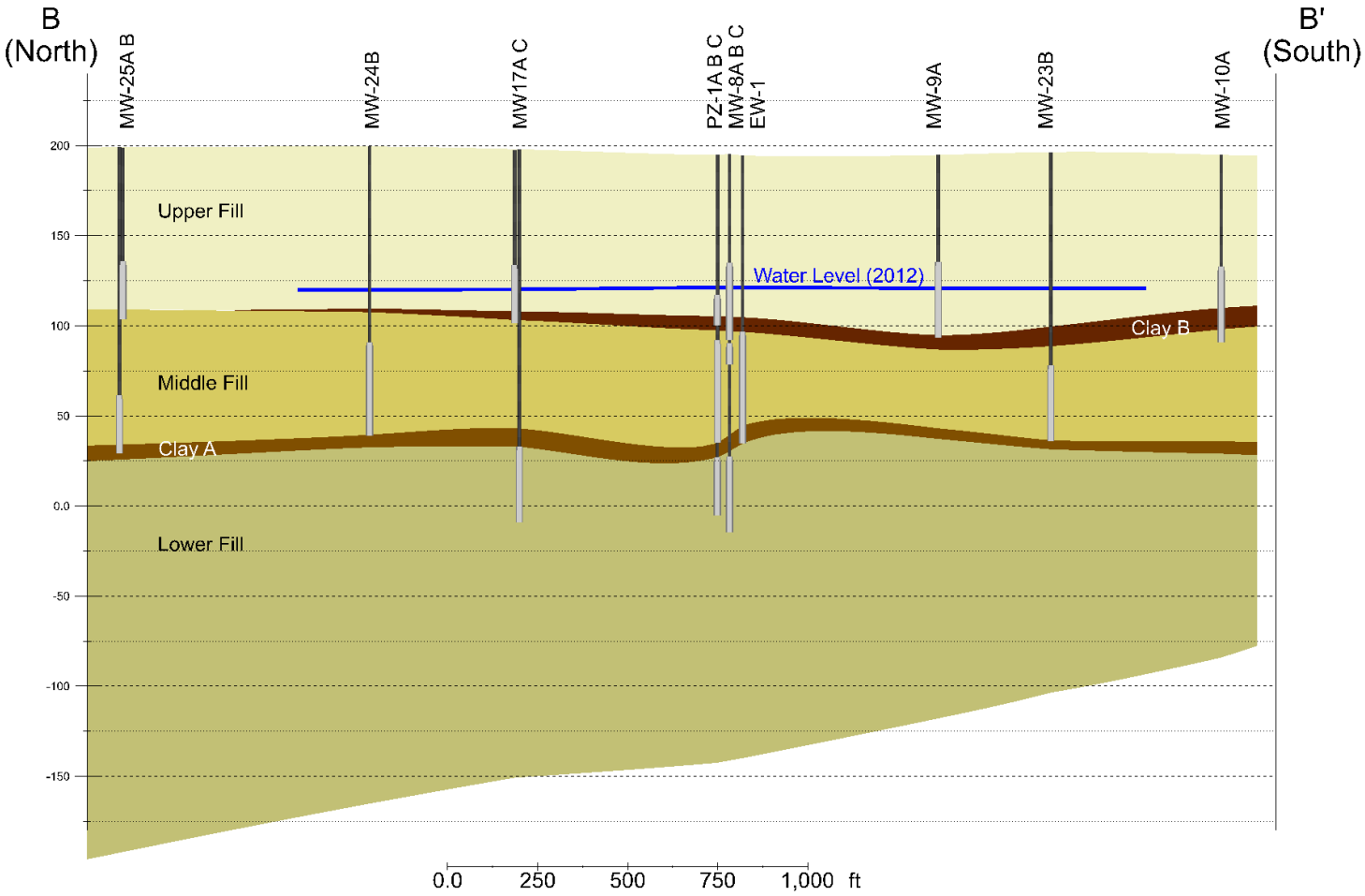
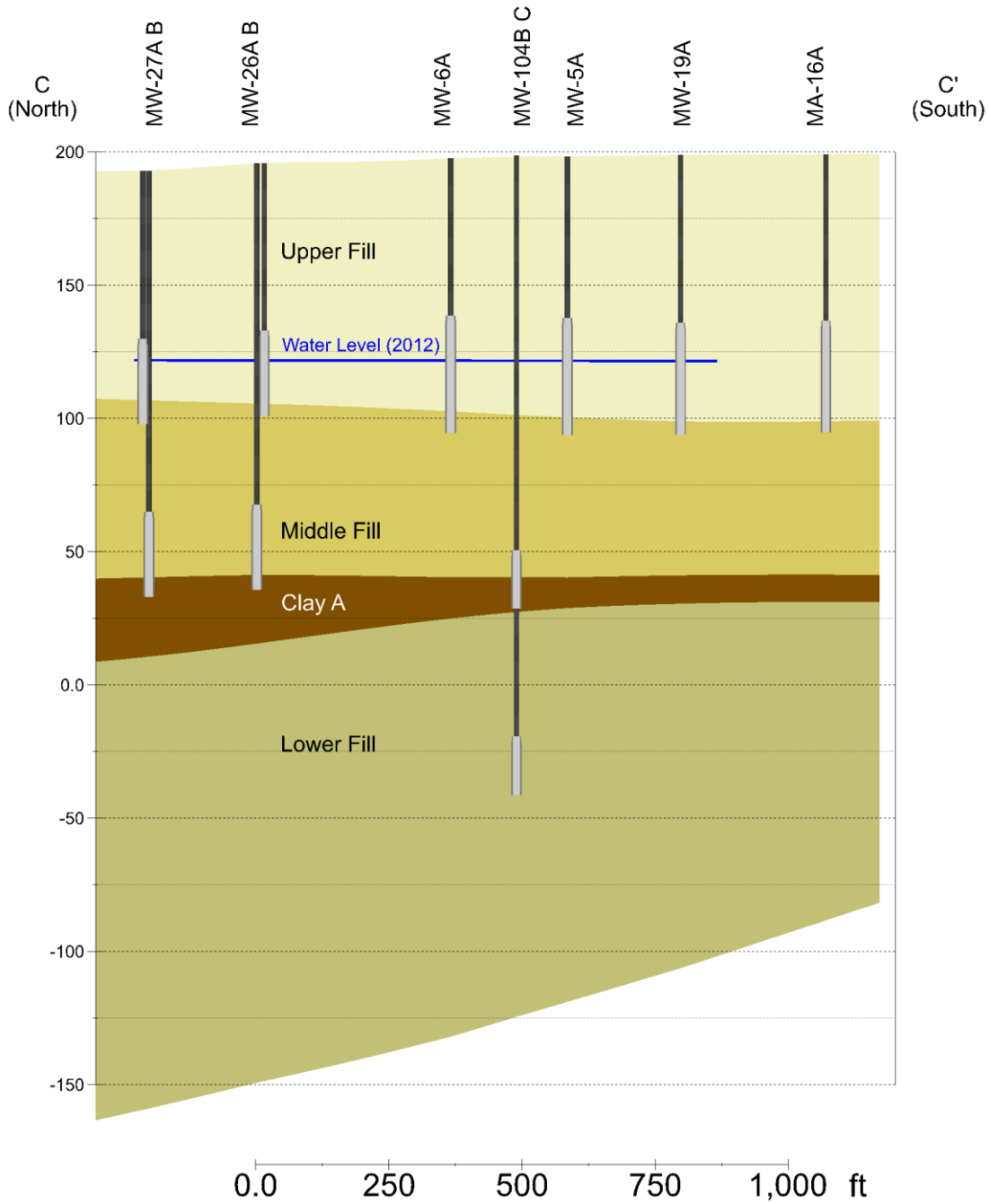


TITLE: **GEOLOGIC CROSS-SECTION FROM B – B'**

LOCATION: **20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA**

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	4-5
PROJECT#	1303.049	
DATE	12/11/13	



TITLE: **GEOLOGIC CROSS SECTION FROM C-C'**

LOCATION: **20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA**

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	4-6
PROJECT#	1303.049	
DATE	12/11/13	

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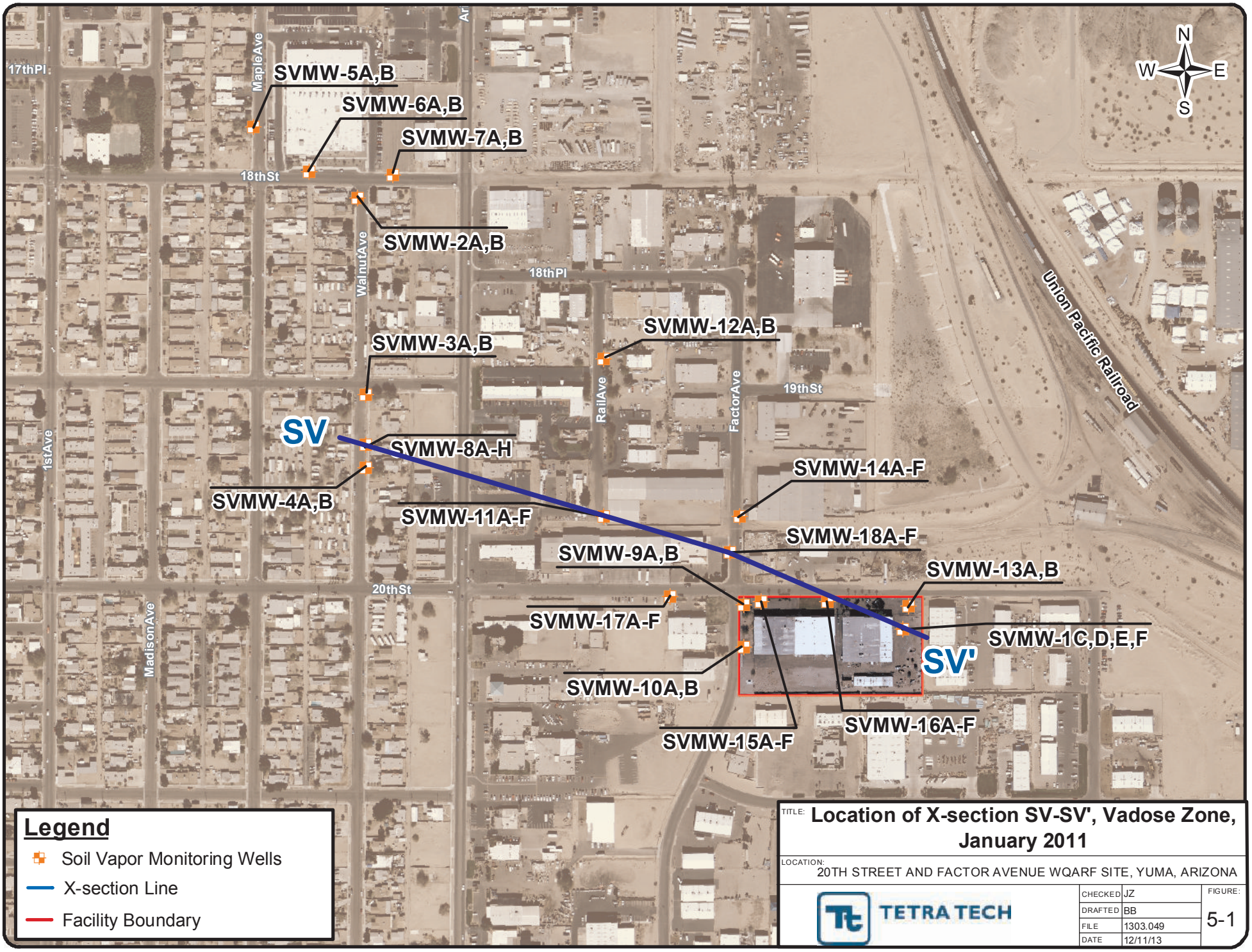


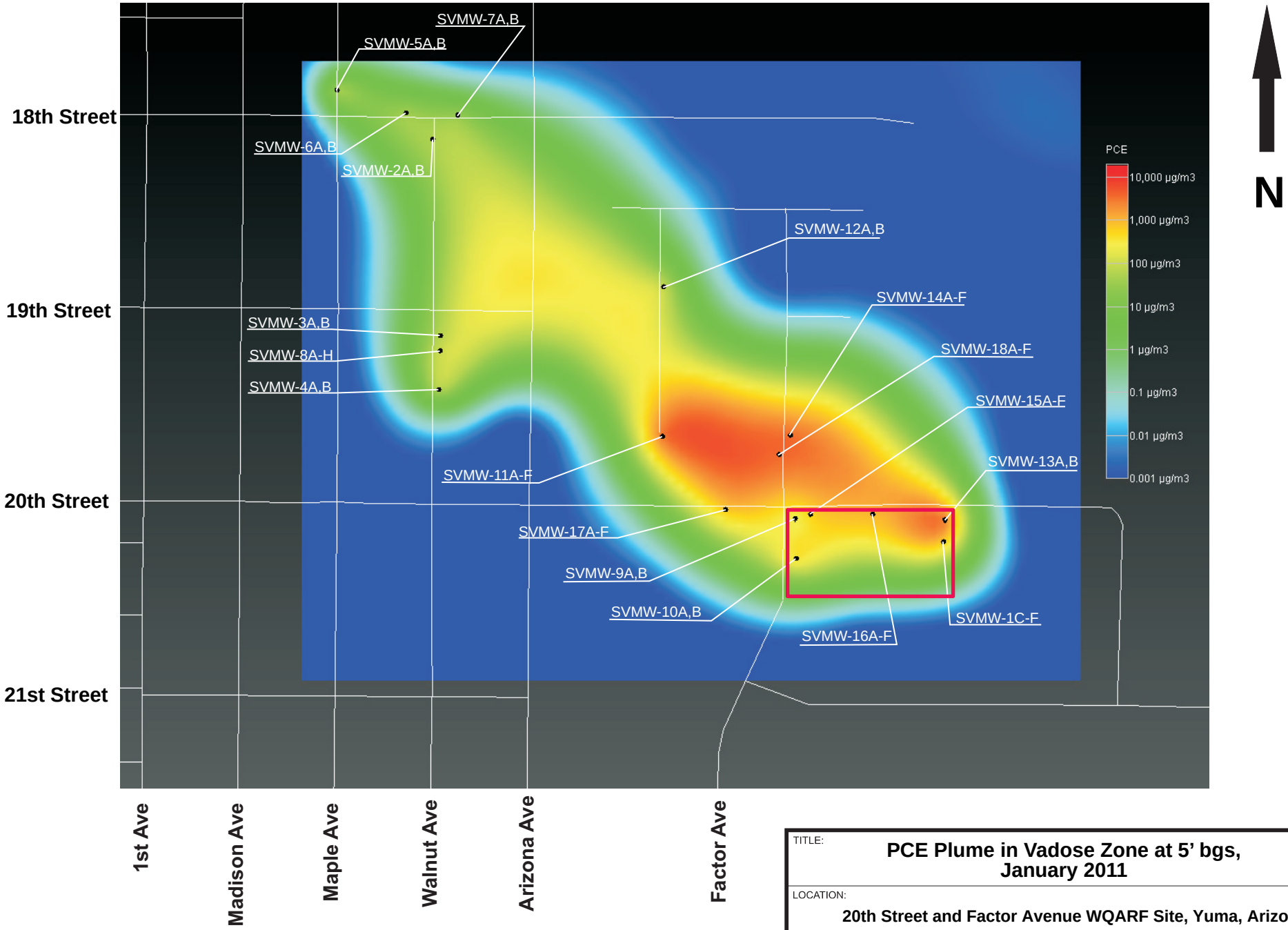
TITLE: Location of X-section SV-SV', Vadose Zone, January 2011

LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

CHECKED	JZ
DRAFTED	BB
FILE	1303.049
DATE	12/11/13

FIGURE: 5-1



*Note:

Facility Boundary

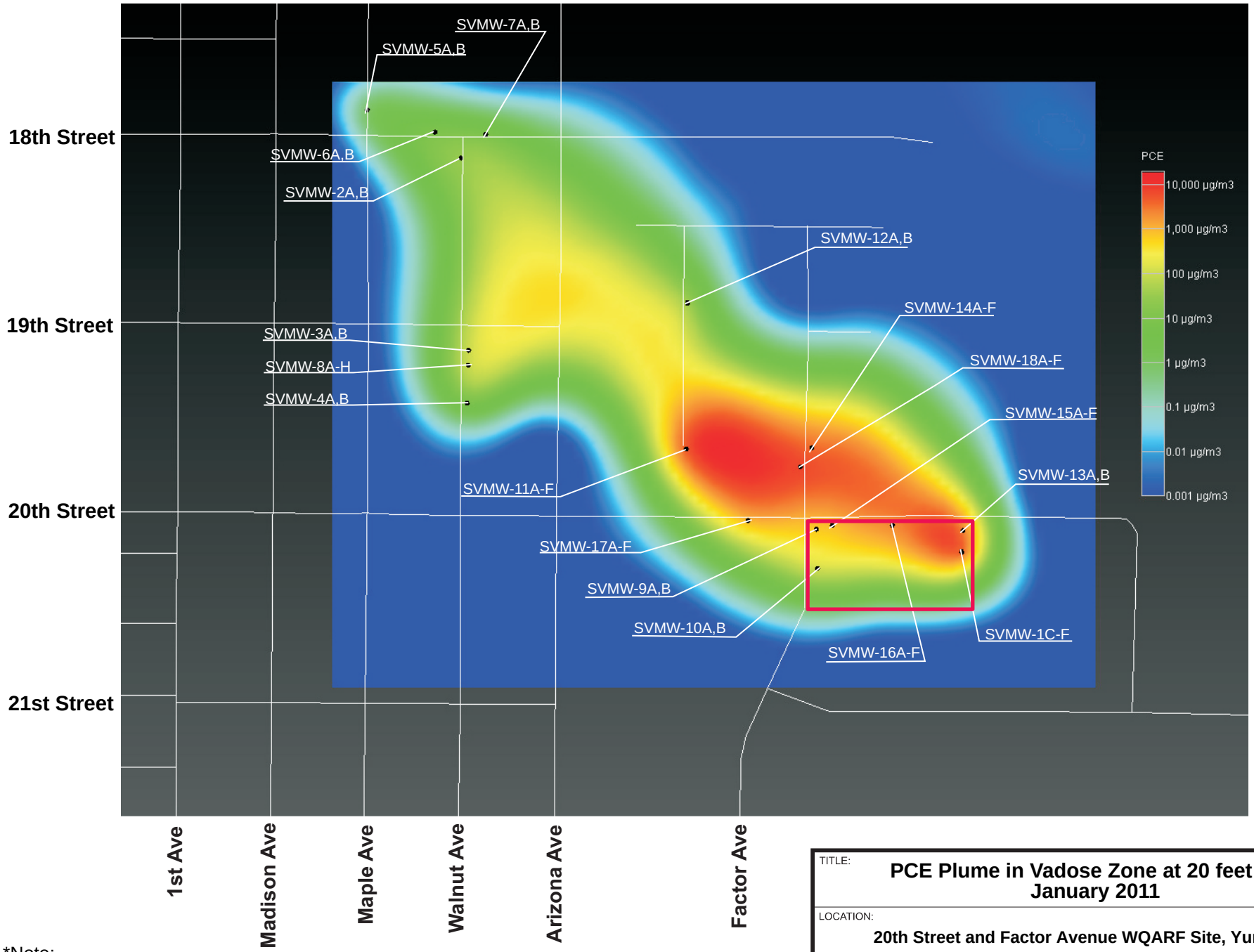
TITLE: **PCE Plume in Vadose Zone at 5' bgs, January 2011**

LOCATION: **20th Street and Factor Avenue WQARF Site, Yuma, Arizona**

TETRA TECH

APPROVED	JZ
DRAFTED	BB
PROJECT#	1303.049
DATE	12/11/13

FIGURE **5-2**



*Note:

Facility Boundary

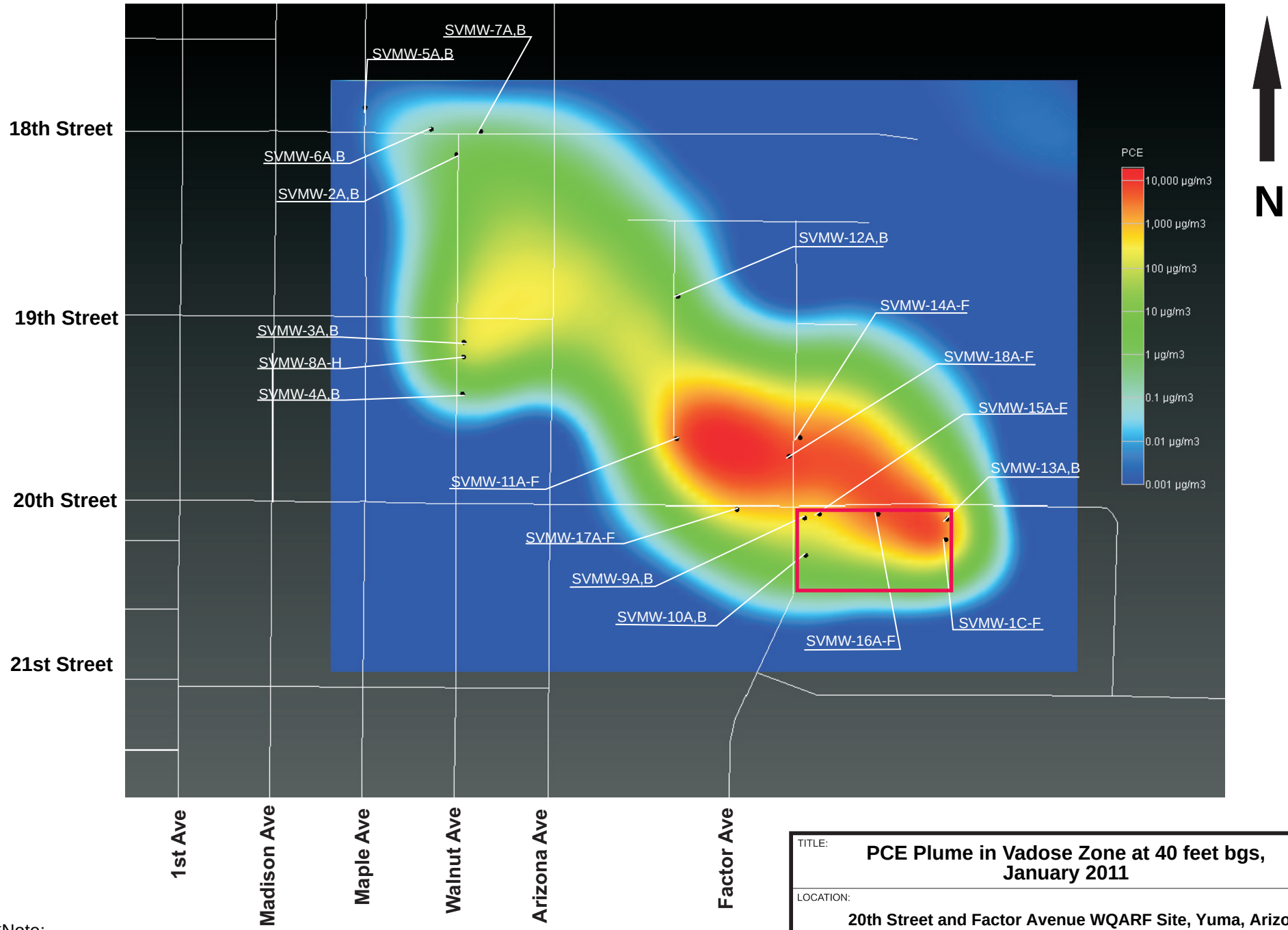
TITLE: **PCE Plume in Vadose Zone at 20 feet bgs, January 2011**

LOCATION: **20th Street and Factor Avenue WQARF Site, Yuma, Arizona**

TETRA TECH

APPROVED	JZ
DRAFTED	BB
PROJECT#	1303.049
DATE	12/11/13

FIGURE **5-3**



*Note:

Facility Boundary

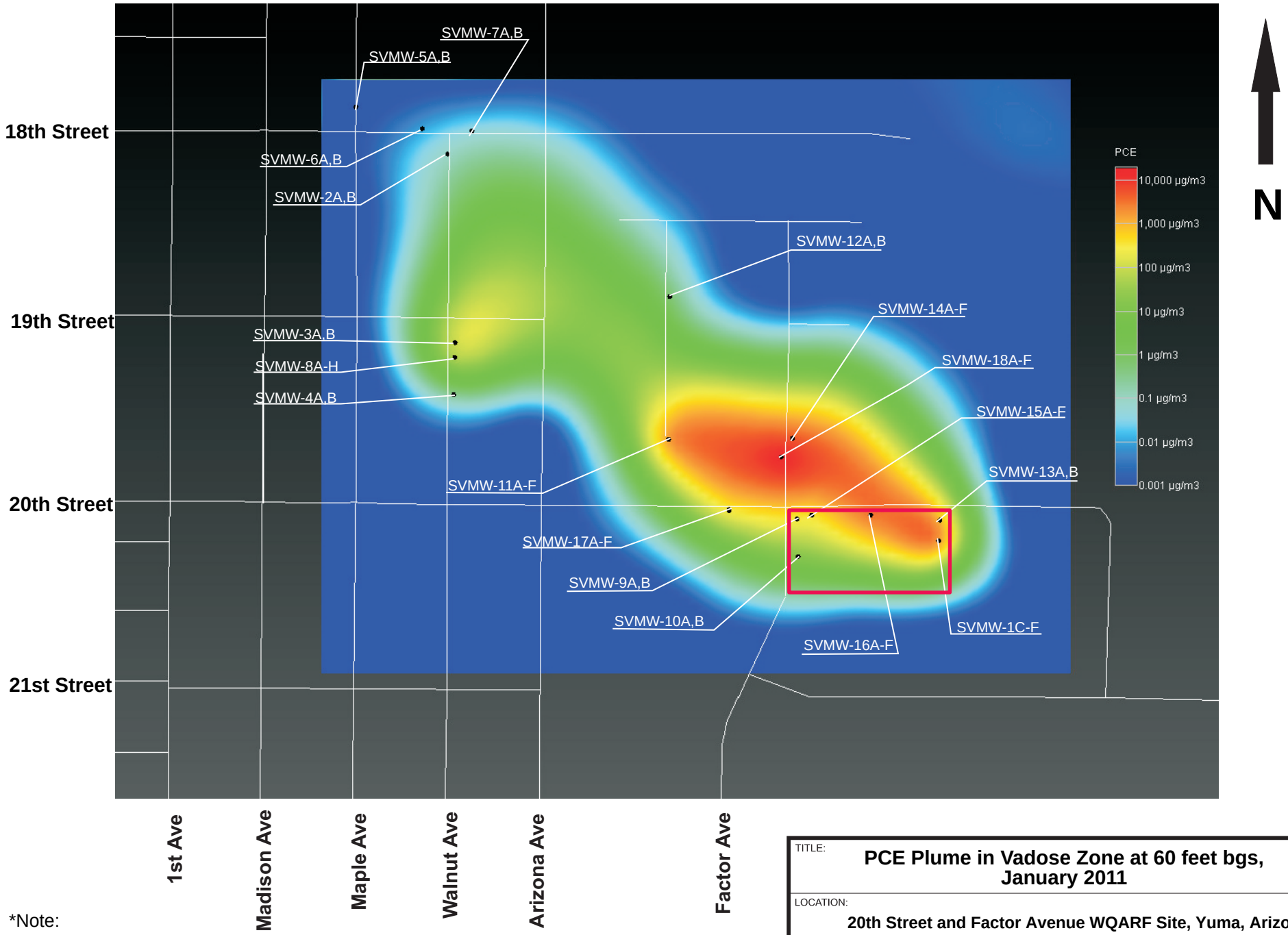
TITLE: **PCE Plume in Vadose Zone at 40 feet bgs, January 2011**

LOCATION: **20th Street and Factor Avenue WQARF Site, Yuma, Arizona**

TETRA TECH

APPROVED	JZ
DRAFTED	BB
PROJECT#	1303.049
DATE	12/11/13

FIGURE **5-4**



*Note:

Facility Boundary

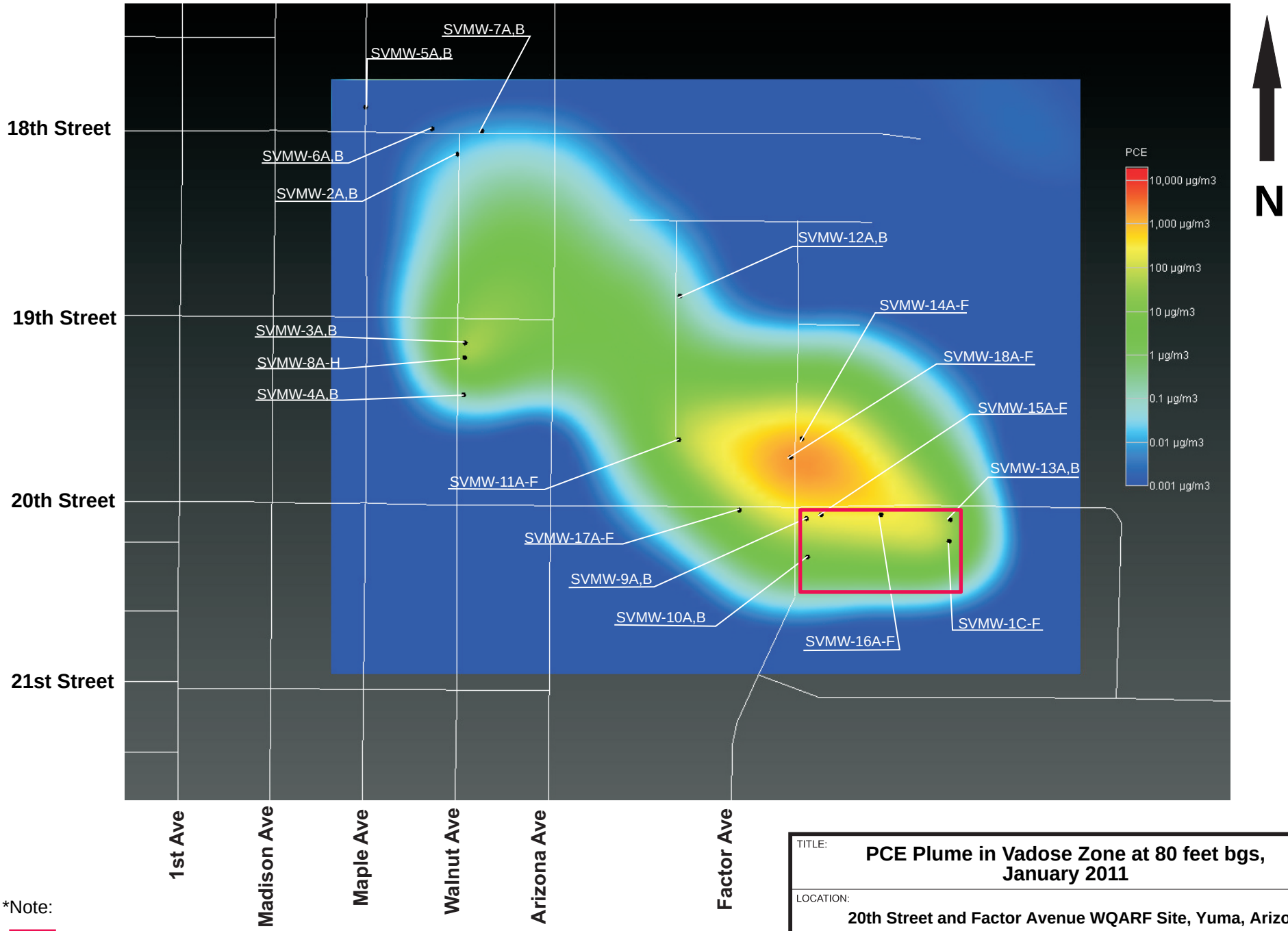
TITLE: **PCE Plume in Vadose Zone at 60 feet bgs, January 2011**

LOCATION: **20th Street and Factor Avenue WQARF Site, Yuma, Arizona**

TETRA TECH

APPROVED	JZ
DRAFTED	BB
PROJECT#	1303.049
DATE	12/11/13

FIGURE **5-5**



*Note:

Facility Boundary

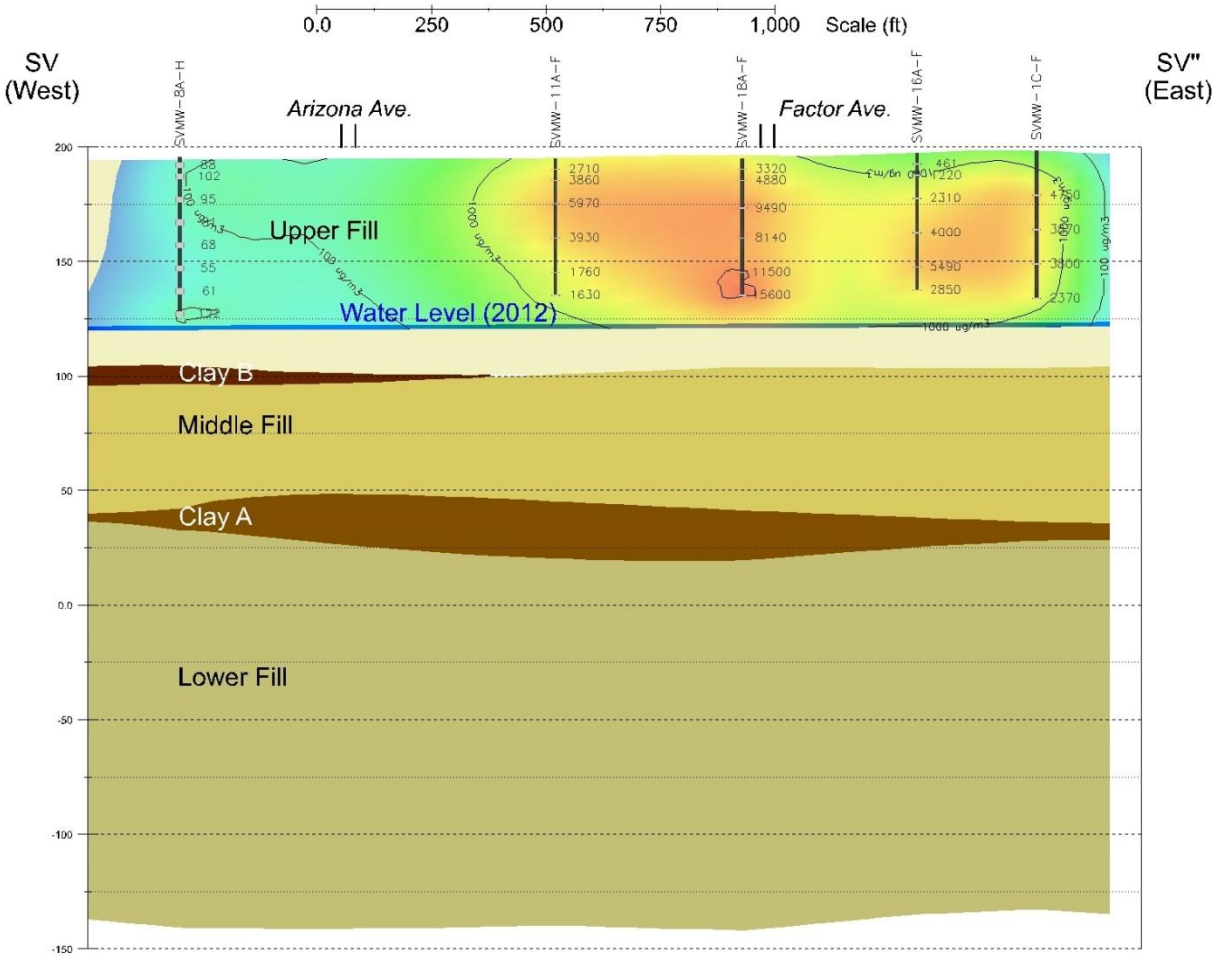
TITLE: **PCE Plume in Vadose Zone at 80 feet bgs, January 2011**

LOCATION: **20th Street and Factor Avenue WQARF Site, Yuma, Arizona**

TETRA TECH

APPROVED	JZ
DRAFTED	BB
PROJECT#	1303.049
DATE	12/11/13

FIGURE **5-6**

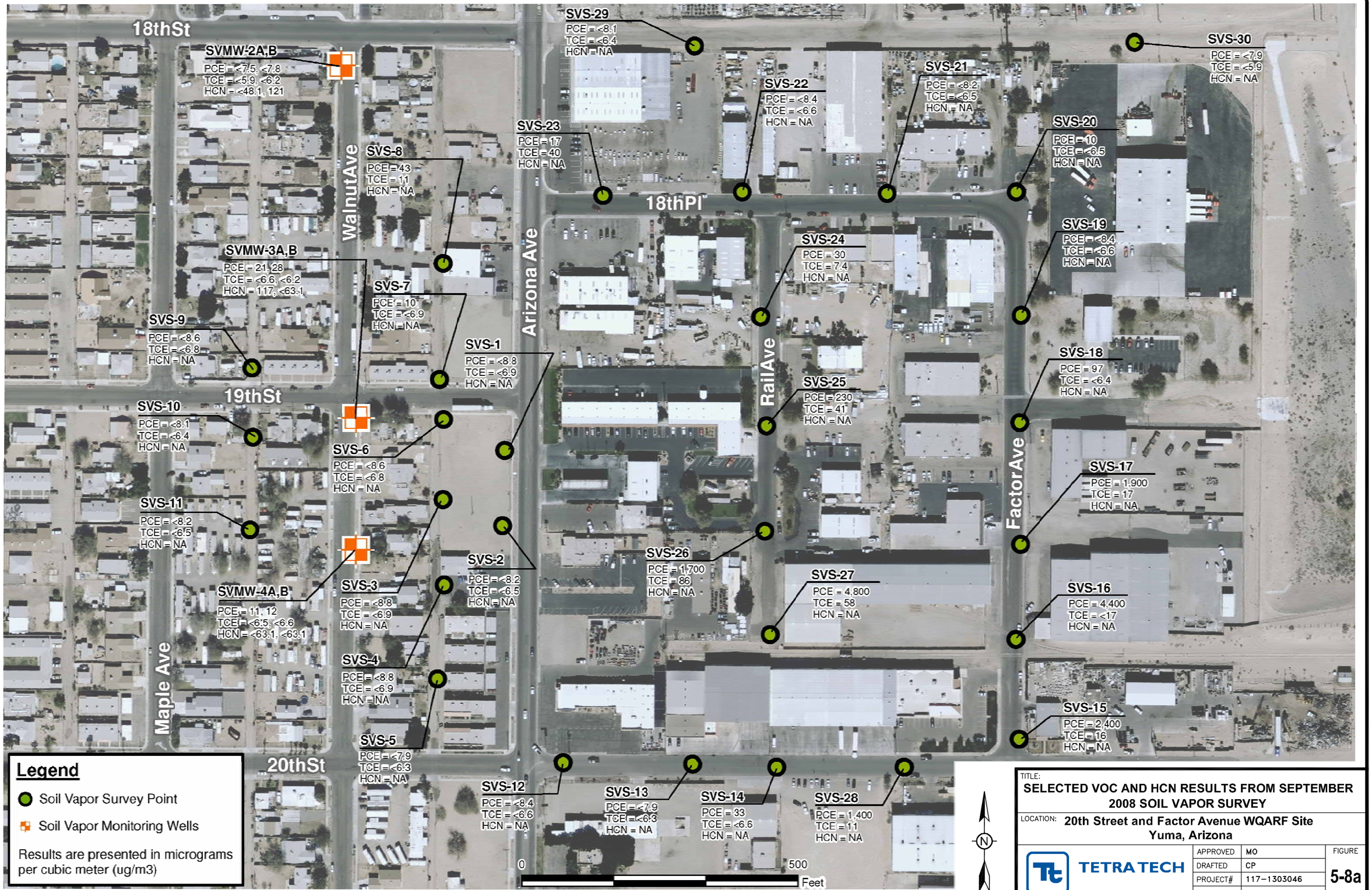


TITLE: **PCE Plume in Vadose Zone X-section SV-SV' January 2011**

LOCATION: **20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA**

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	5-7
PROJECT#	1303.049	
DATE	01/22/14	



TITLE:
SELECTED VOC AND HCN RESULTS FROM SEPTEMBER 2008 SOIL VAPOR SURVEY

LOCATION: **20th Street and Factor Avenue WQARF Site Yuma, Arizona**

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	CP	5-8a
PROJECT#	117-1303046	
DATE	1-14-14	

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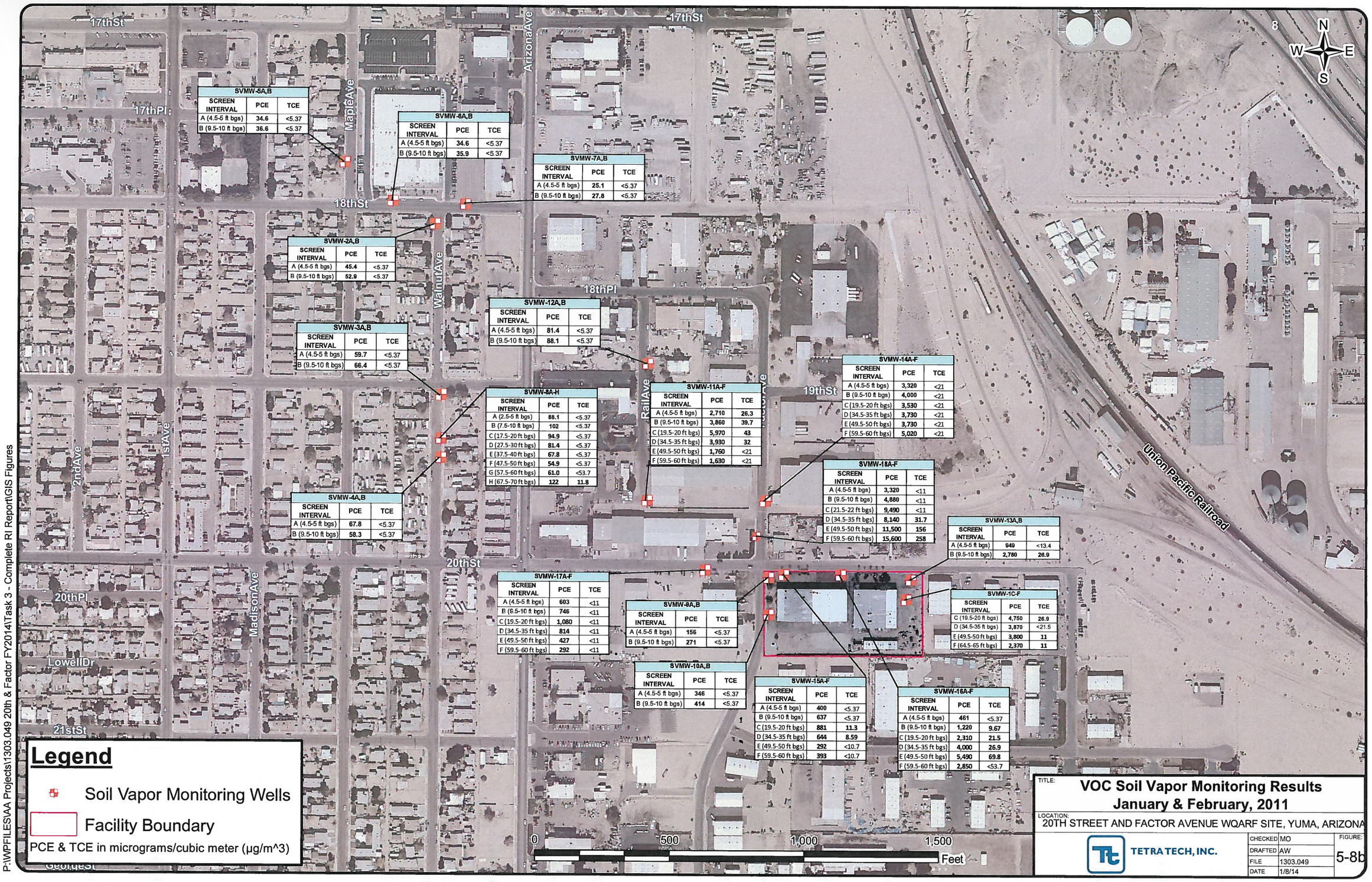


SVMW-5A,B

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	34.6	<5.37
B (9.5-10 ft bgs)	36.6	<5.37

SVMW-6A,B

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	34.6	<5.37
B (9.5-10 ft bgs)	35.9	<5.37

SVMW-7A,B

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	25.1	<5.37
B (9.5-10 ft bgs)	27.8	<5.37

SVMW-2A,B

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	45.4	<5.37
B (9.5-10 ft bgs)	52.9	<5.37

SVMW-12A,B

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	81.4	<5.37
B (9.5-10 ft bgs)	88.1	<5.37

SVMW-3A,B

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	59.7	<5.37
B (9.5-10 ft bgs)	66.4	<5.37

SVMW-8A-H

SCREEN INTERVAL	PCE	TCE
A (2.5-5 ft bgs)	88.1	<5.37
B (7.5-10 ft bgs)	102	<5.37
C (17.5-20 ft bgs)	94.9	<5.37
D (27.5-30 ft bgs)	81.4	<5.37
E (37.5-40 ft bgs)	67.8	<5.37
F (47.5-50 ft bgs)	54.9	<5.37
G (57.5-60 ft bgs)	61.0	<53.7
H (67.5-70 ft bgs)	122	11.8

SVMW-11A-F

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	2,710	26.3
B (9.5-10 ft bgs)	3,860	39.7
C (19.5-20 ft bgs)	5,970	43
D (34.5-35 ft bgs)	3,930	32
E (49.5-50 ft bgs)	1,760	<21
F (59.5-60 ft bgs)	1,630	<21

SVMW-14A-F

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	3,320	<21
B (9.5-10 ft bgs)	4,000	<21
C (19.5-20 ft bgs)	3,530	<21
D (34.5-35 ft bgs)	3,730	<21
E (49.5-50 ft bgs)	3,730	<21
F (59.5-60 ft bgs)	5,020	<21

SVMW-18A-F

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	3,320	<11
B (9.5-10 ft bgs)	4,880	<11
C (21.5-22 ft bgs)	9,490	<11
D (34.5-35 ft bgs)	8,140	31.7
E (49.5-50 ft bgs)	11,500	156
F (59.5-60 ft bgs)	15,600	258

SVMW-13A,B

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	949	<13.4
B (9.5-10 ft bgs)	2,780	26.9

SVMW-4A,B

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	67.8	<5.37
B (9.5-10 ft bgs)	58.3	<5.37

SVMW-17A-F

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	603	<11
B (6.5-10 ft bgs)	746	<11
C (19.5-20 ft bgs)	1,080	<11
D (34.5-35 ft bgs)	814	<11
E (49.5-50 ft bgs)	427	<11
F (59.5-60 ft bgs)	292	<11

SVMW-9A,B

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	156	<5.37
B (9.5-10 ft bgs)	271	<5.37

SVMW-1C-F

SCREEN INTERVAL	PCE	TCE
C (19.5-20 ft bgs)	4,750	26.9
D (34.5-35 ft bgs)	3,870	<21.5
E (49.5-50 ft bgs)	3,800	11
F (64.5-65 ft bgs)	2,370	11

SVMW-10A,B

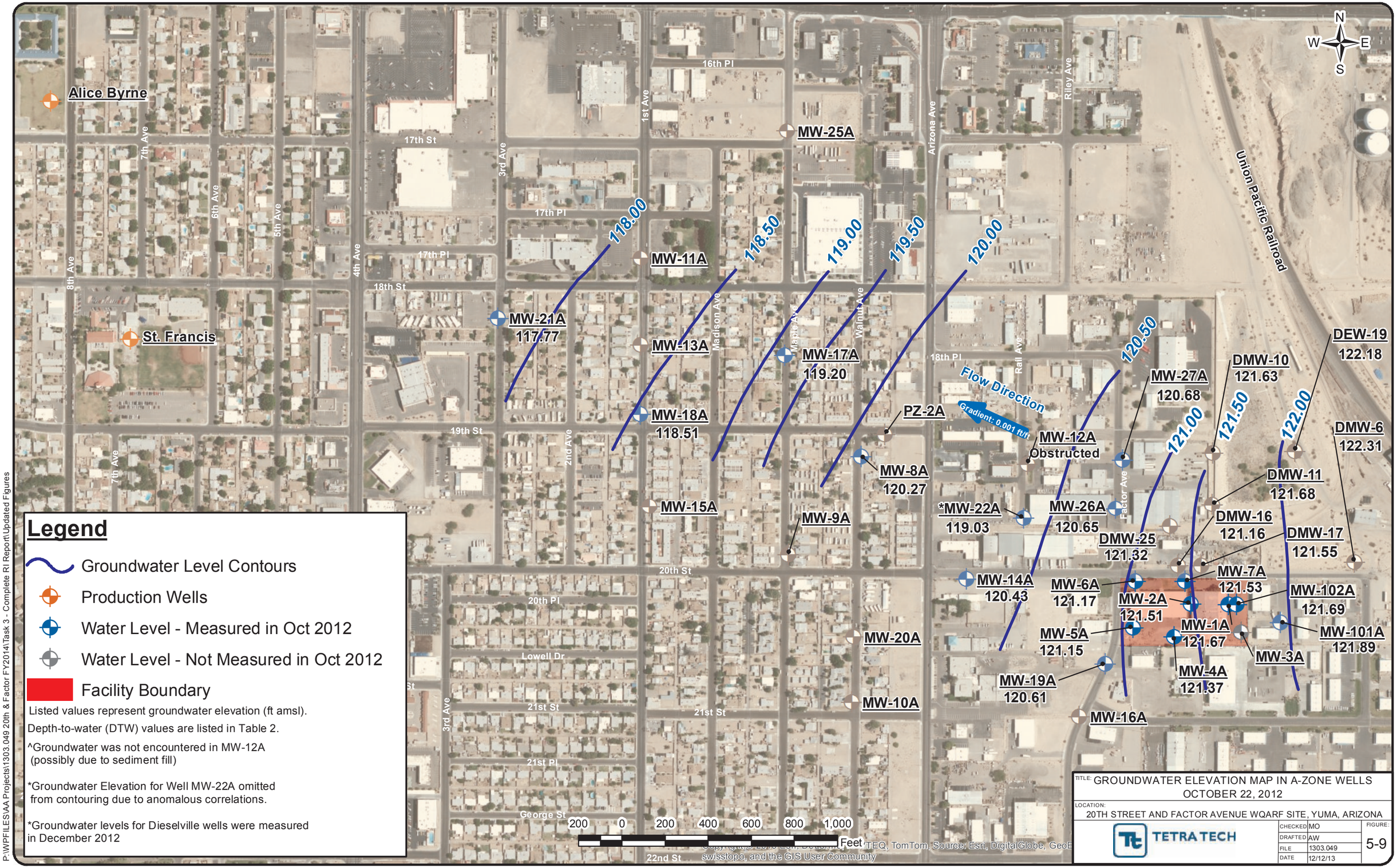
SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	346	<5.37
B (9.5-10 ft bgs)	414	<5.37

SVMW-15A-F

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	400	<5.37
B (9.5-10 ft bgs)	637	<5.37
C (19.5-20 ft bgs)	881	11.3
D (34.5-35 ft bgs)	644	8.59
E (49.5-50 ft bgs)	292	<10.7
F (59.5-60 ft bgs)	393	<10.7

SVMW-16A-F

SCREEN INTERVAL	PCE	TCE
A (4.5-5 ft bgs)	461	<5.37
B (9.5-10 ft bgs)	1,220	9.67
C (19.5-20 ft bgs)	2,310	21.5
D (34.5-35 ft bgs)	4,000	26.9
E (49.5-50 ft bgs)	5,490	69.8
F (59.5-60 ft bgs)	2,850	<53.7



Legend

- Groundwater Level Contours
- Production Wells
- Water Level - Measured in Oct 2012
- Water Level - Not Measured in Oct 2012
- Facility Boundary

Listed values represent groundwater elevation (ft amsl).

Depth-to-water (DTW) values are listed in Table 2.

^Groundwater was not encountered in MW-12A (possibly due to sediment fill)

*Groundwater Elevation for Well MW-22A omitted from contouring due to anomalous correlations.

*Groundwater levels for Dieselville wells were measured in December 2012

TITLE: GROUNDWATER ELEVATION MAP IN A-ZONE WELLS OCTOBER 22, 2012

LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

CHECKED	MO	FIGURE: 5-9
DRAFTED	AW	
FILE	1303.049	
DATE	12/12/13	

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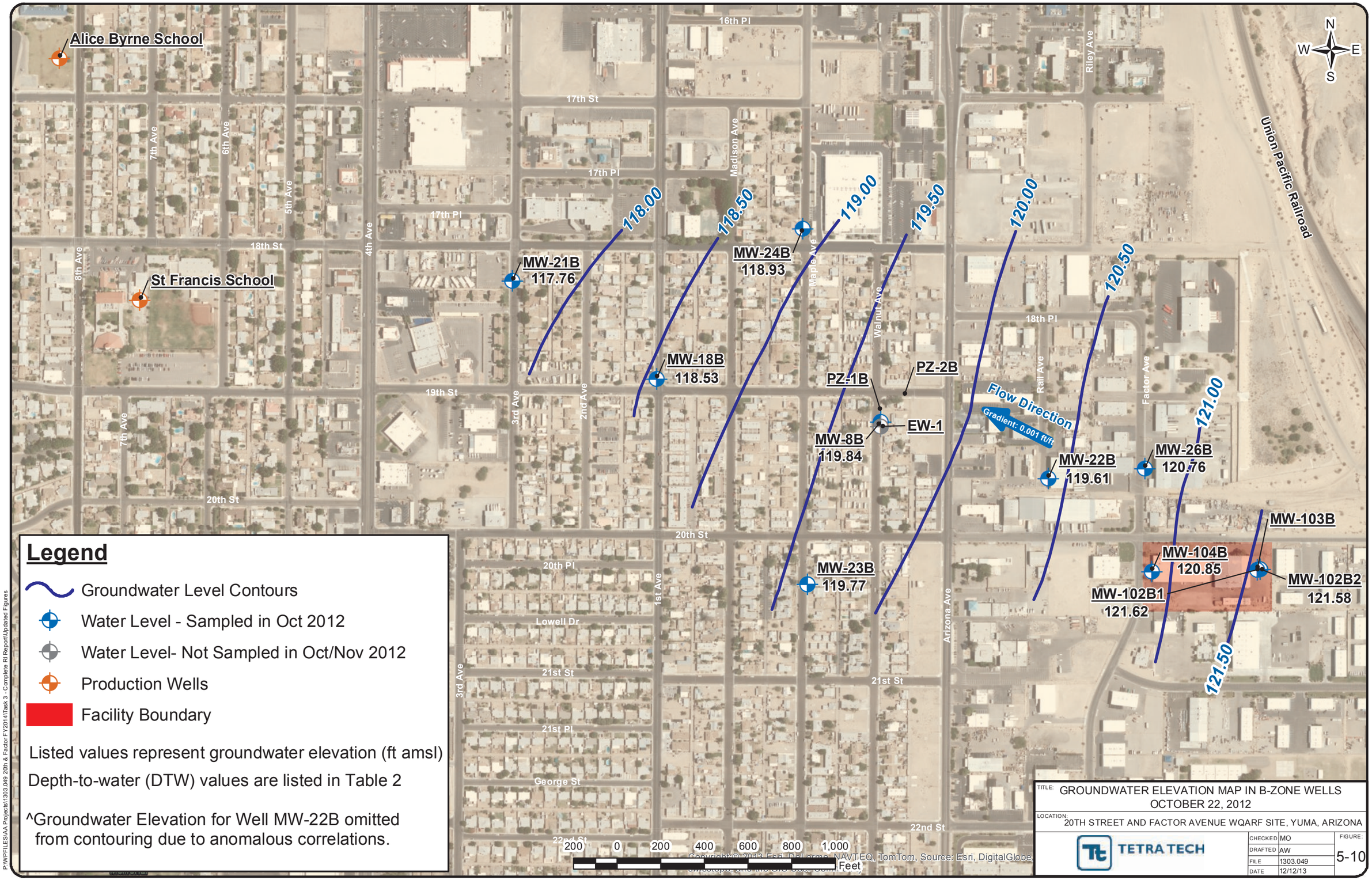

Legend

- Groundwater Level Contours
- Water Level - Sampled in Oct 2012
- Water Level- Not Sampled in Oct/Nov 2012
- Production Wells
- Facility Boundary

Listed values represent groundwater elevation (ft amsl)

Depth-to-water (DTW) values are listed in Table 2

^Groundwater Elevation for Well MW-22B omitted from contouring due to anomalous correlations.

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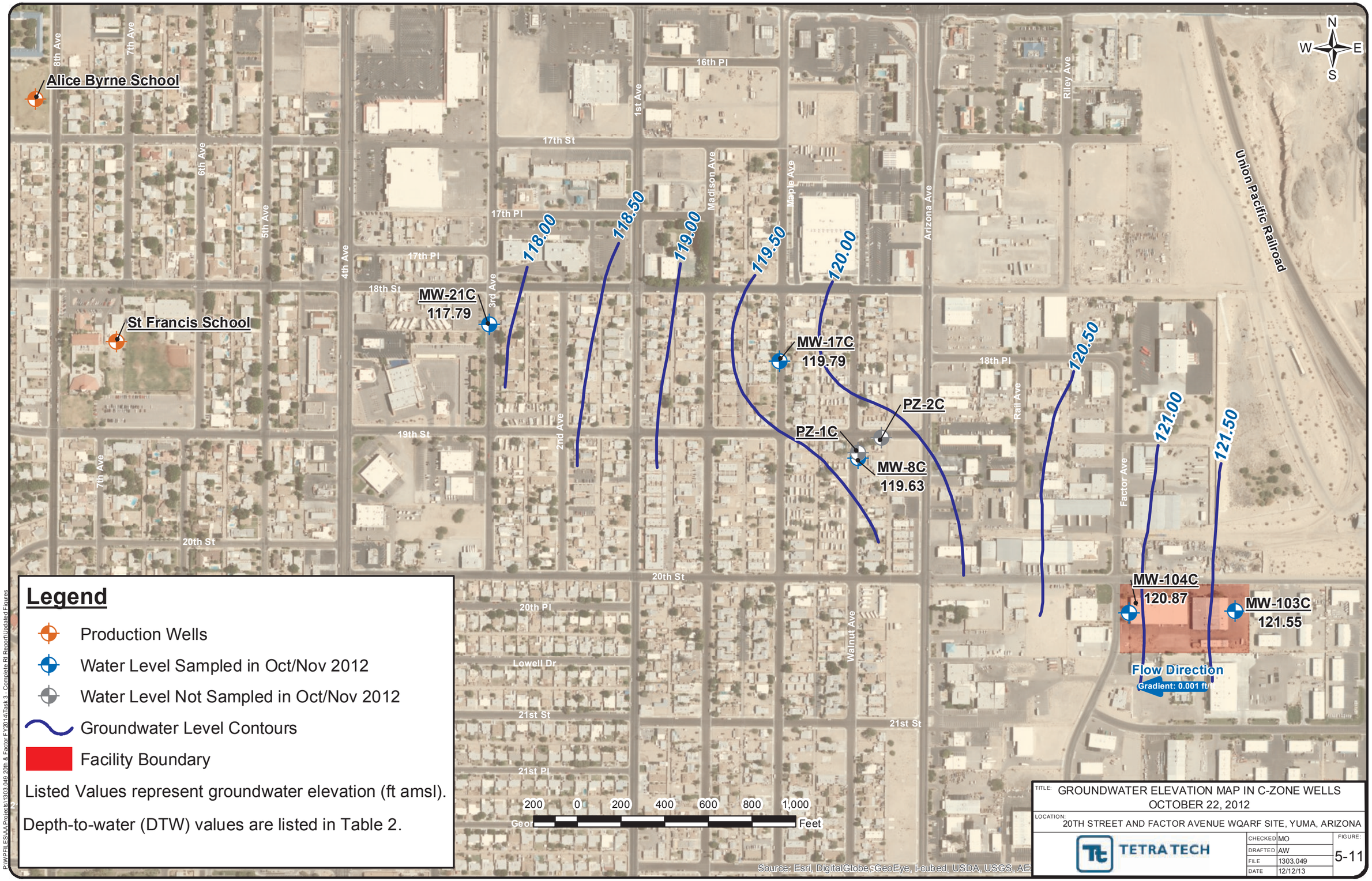
TITLE: GROUNDWATER ELEVATION MAP IN B-ZONE WELLS OCTOBER 22, 2012

LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

CHECKED	MO
DRAFTED	AW
FILE	1303.049
DATE	12/12/13

FIGURE: 5-10



Legend

- Production Wells
- Water Level Sampled in Oct/Nov 2012
- Water Level Not Sampled in Oct/Nov 2012
- Groundwater Level Contours
- Facility Boundary

Listed Values represent groundwater elevation (ft amsl).

Depth-to-water (DTW) values are listed in Table 2.

TITLE: GROUNDWATER ELEVATION MAP IN C-ZONE WELLS OCTOBER 22, 2012

LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

CHECKED	MO
DRAFTED	AW
FILE	1303.049
DATE	12/12/13

FIGURE: 5-11

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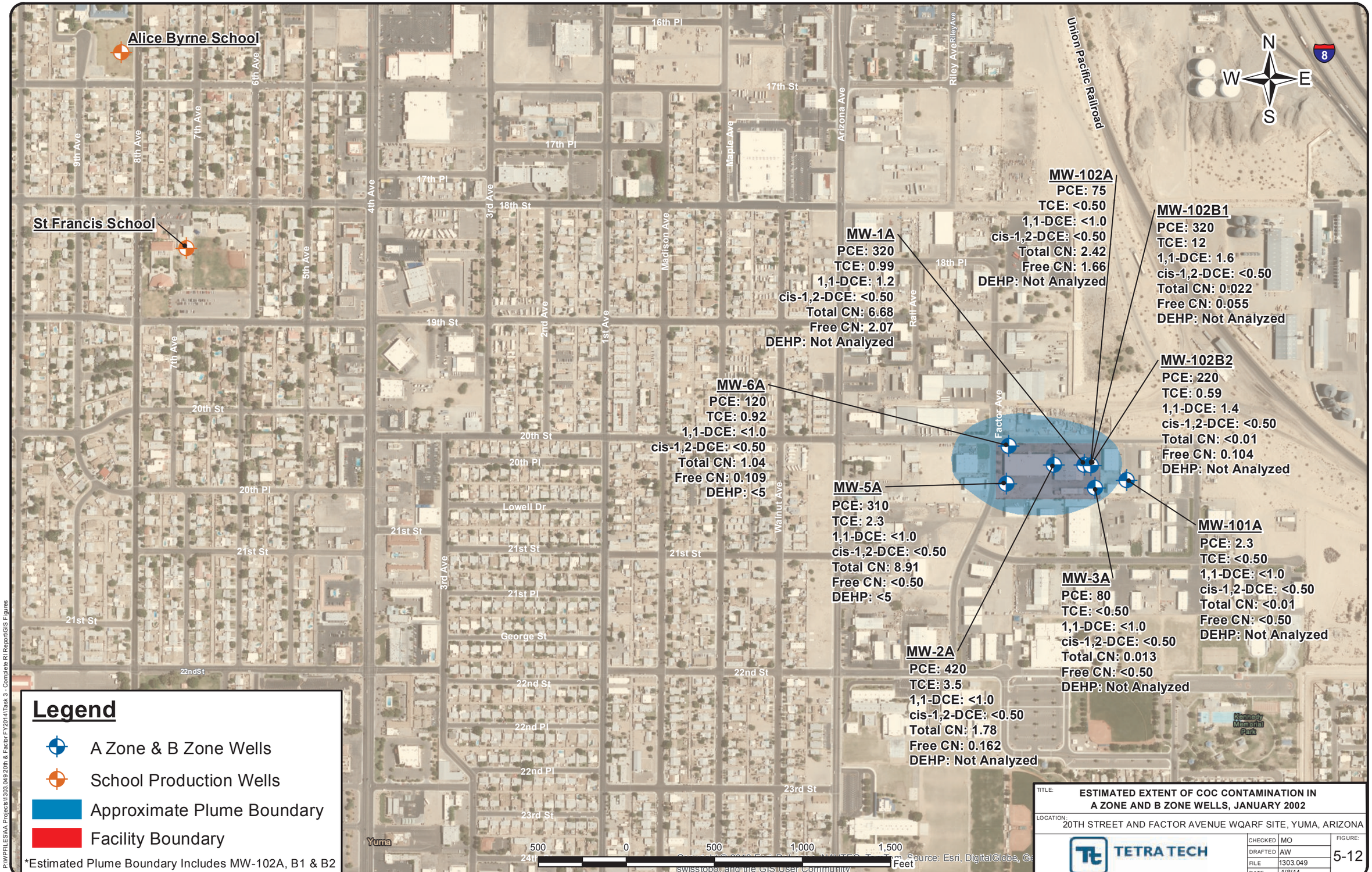

TITLE: ESTIMATED EXTENT OF COC CONTAMINATION IN A ZONE AND B ZONE WELLS, JANUARY 2002

LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

CHECKED	MO
DRAFTED	AW
FILE	1303.049
DATE	1/8/14

FIGURE: 5-12

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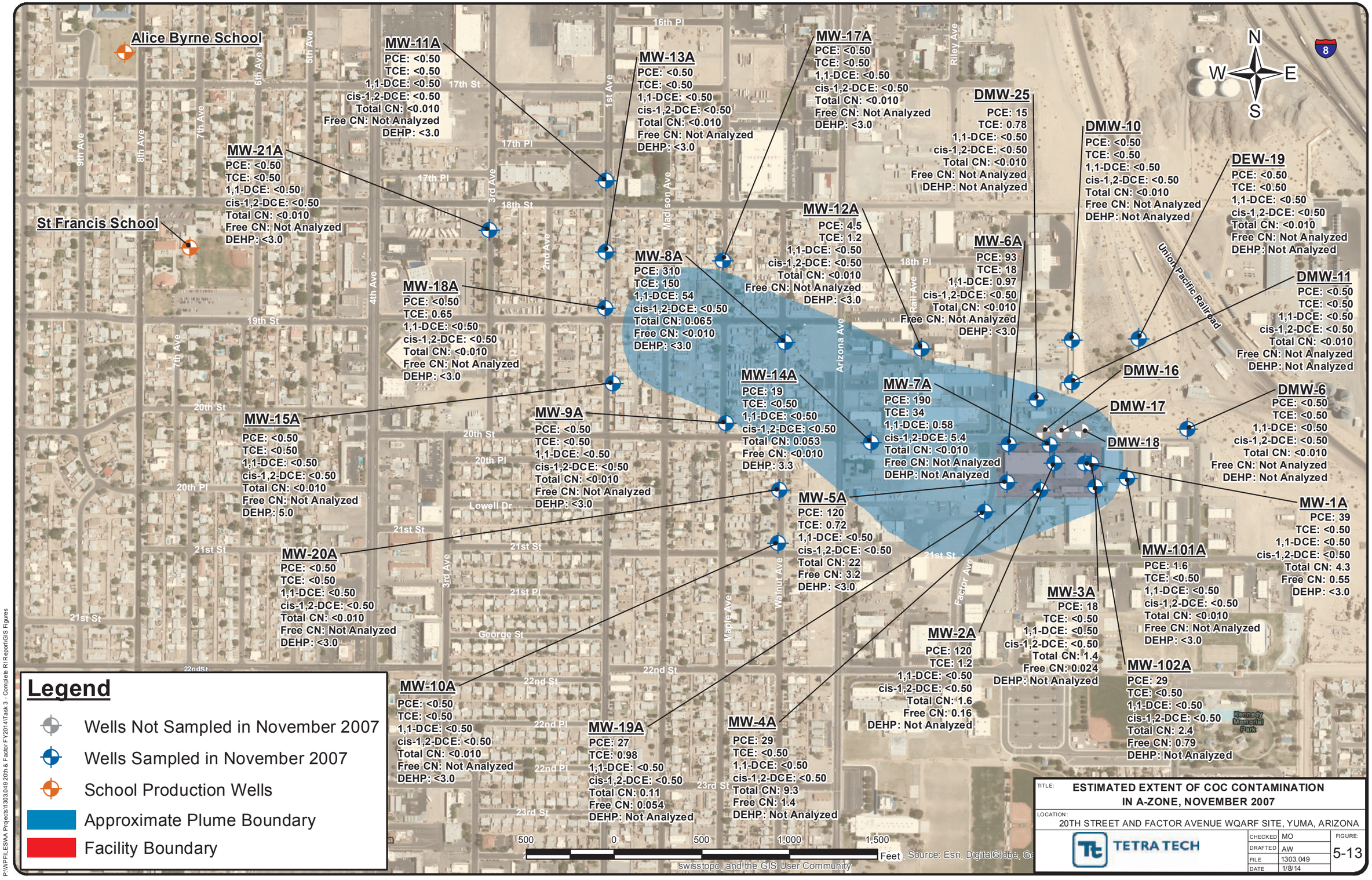
Alice Byrne School
St Francis School
MW-11A
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: <3.0
MW-13A
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: <3.0
MW-17A
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: <3.0
DMW-25
PCE: 15
TCE: 0.78
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: Not Analyzed
DMW-10
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: Not Analyzed
DEW-19
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: Not Analyzed
MW-21A
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: <3.0
MW-12A
PCE: 4.5
TCE: 1.2
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: <3.0
MW-6A
PCE: 93
TCE: 18
1,1-DCE: 0.97
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: <3.0
MW-8A
PCE: 310
TCE: 150
1,1-DCE: 54
cis-1,2-DCE: <0.50
Total CN: 0.065
Free CN: <0.010
DEHP: <3.0
MW-18A
PCE: <0.50
TCE: 0.65
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: <3.0
DMW-11
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: Not Analyzed
DMW-16
MW-14A
PCE: 19
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: 0.053
Free CN: <0.010
DEHP: 3.3
MW-7A
PCE: 190
TCE: 34
1,1-DCE: 0.58
cis-1,2-DCE: 5.4
Total CN: <0.010
Free CN: Not Analyzed
DEHP: Not Analyzed
DMW-17
DMW-18
DMW-6
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: Not Analyzed
MW-15A
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: 5.0
MW-9A
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: <3.0
MW-5A
PCE: 120
TCE: 0.72
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: 22
Free CN: 3.2
DEHP: <3.0
MW-1A
PCE: 39
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: 4.3
Free CN: 0.55
DEHP: <3.0
MW-20A
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: <3.0
MW-101A
PCE: 1.6
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: <3.0
MW-3A
PCE: 18
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: 1.4
Free CN: 0.024
DEHP: Not Analyzed
MW-2A
PCE: 120
TCE: 1.2
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: 1.6
Free CN: 0.16
DEHP: Not Analyzed
MW-102A
PCE: 29
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: 2.4
Free CN: 0.79
DEHP: Not Analyzed
MW-10A
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: <0.010
Free CN: Not Analyzed
DEHP: <3.0
MW-19A
PCE: 27
TCE: 0.98
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: 0.11
Free CN: 0.054
DEHP: Not Analyzed
MW-4A
PCE: 29
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Total CN: 9.3
Free CN: 1.4
DEHP: Not Analyzed
N
W
E
S
8
16th Pl
17th St
17th Pl
18th St
18th Pl
19th St
20th St
20th Pl
Lowell Dr
21st St
21st Pl
George St
22nd St
22nd Pl
23rd St
9th Ave
8th Ave
7th Ave
6th Ave
5th Ave
4th Ave
3rd Ave
2nd Ave
1st Ave
Madison Ave
Arizona Ave
Maple Ave
Walnut Ave
Factor Ave
Riley Ave
Rail Ave
Union Pacific Railroad
Kennedy Memorial Park
Legend
Wells Not Sampled in November 2007
Wells Sampled in November 2007
School Production Wells
Approximate Plume Boundary
Facility Boundary
500 0 500 1,000 1,500
Feet
swisstopo, and the GIS User Community
TITLE: ESTIMATED EXTENT OF COC CONTAMINATION IN A-ZONE, NOVEMBER 2007
LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA
TETRA TECH
CHECKED MO
DRAFTED AW
FILE 1303.049
DATE 1/8/14
FIGURE: 5-13
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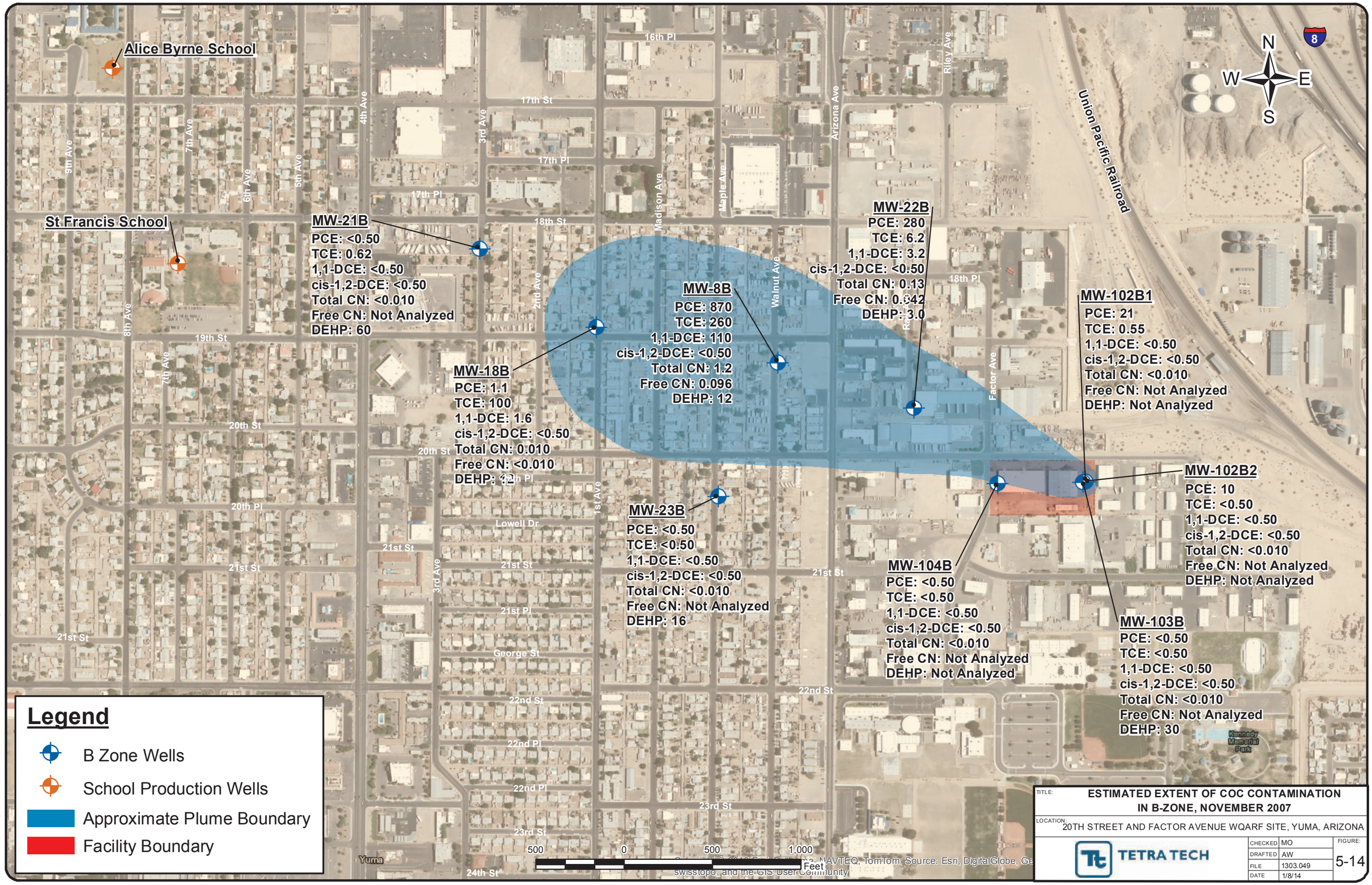

TITLE: ESTIMATED EXTENT OF COC CONTAMINATION IN B-ZONE, NOVEMBER 2007

LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

CHECKED	MO
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FILE	1303.049
DATE	1/8/14

FIGURE: 5-14

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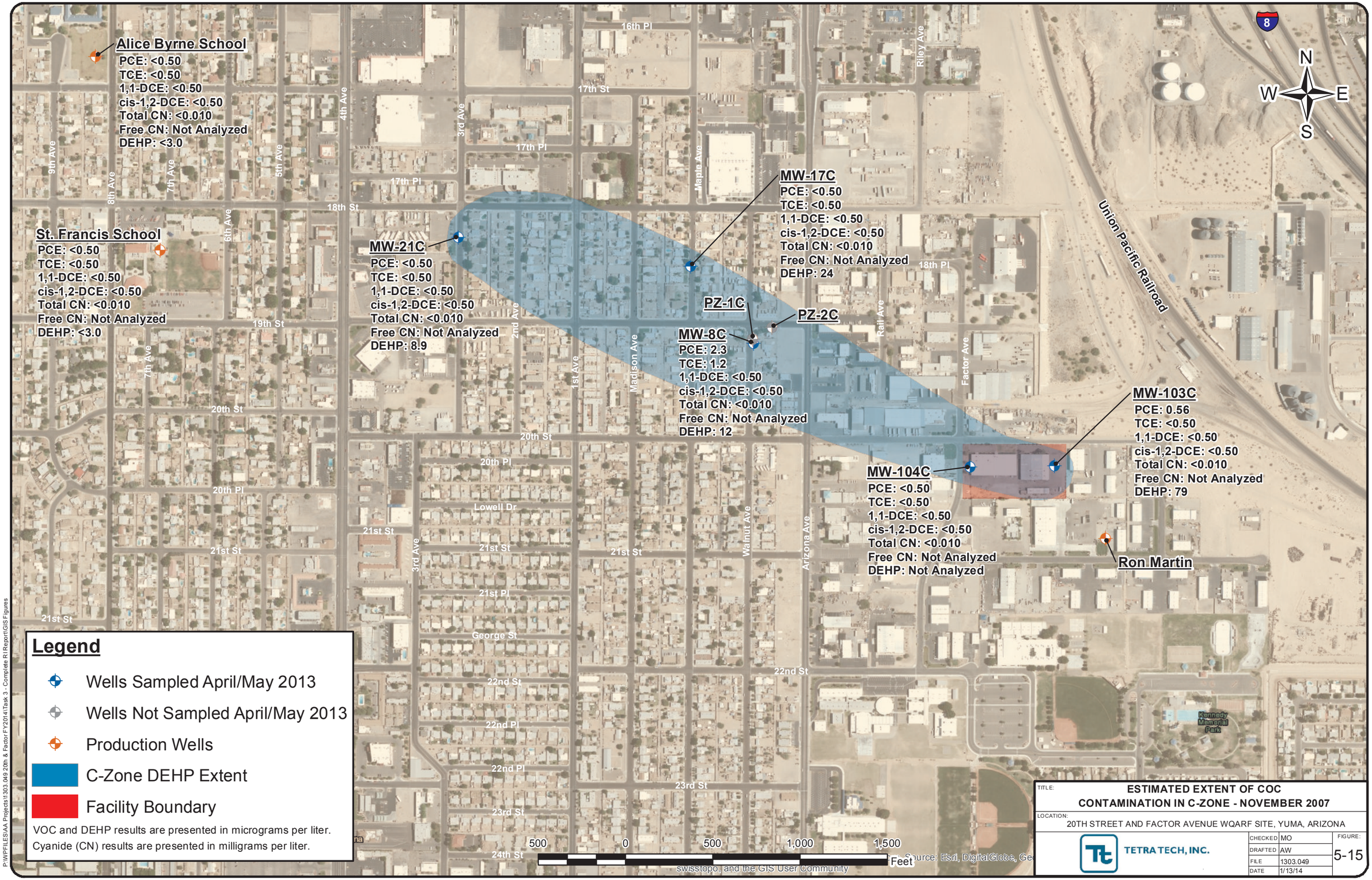

TITLE: ESTIMATED EXTENT OF COC CONTAMINATION IN C-ZONE - NOVEMBER 2007

LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH, INC.

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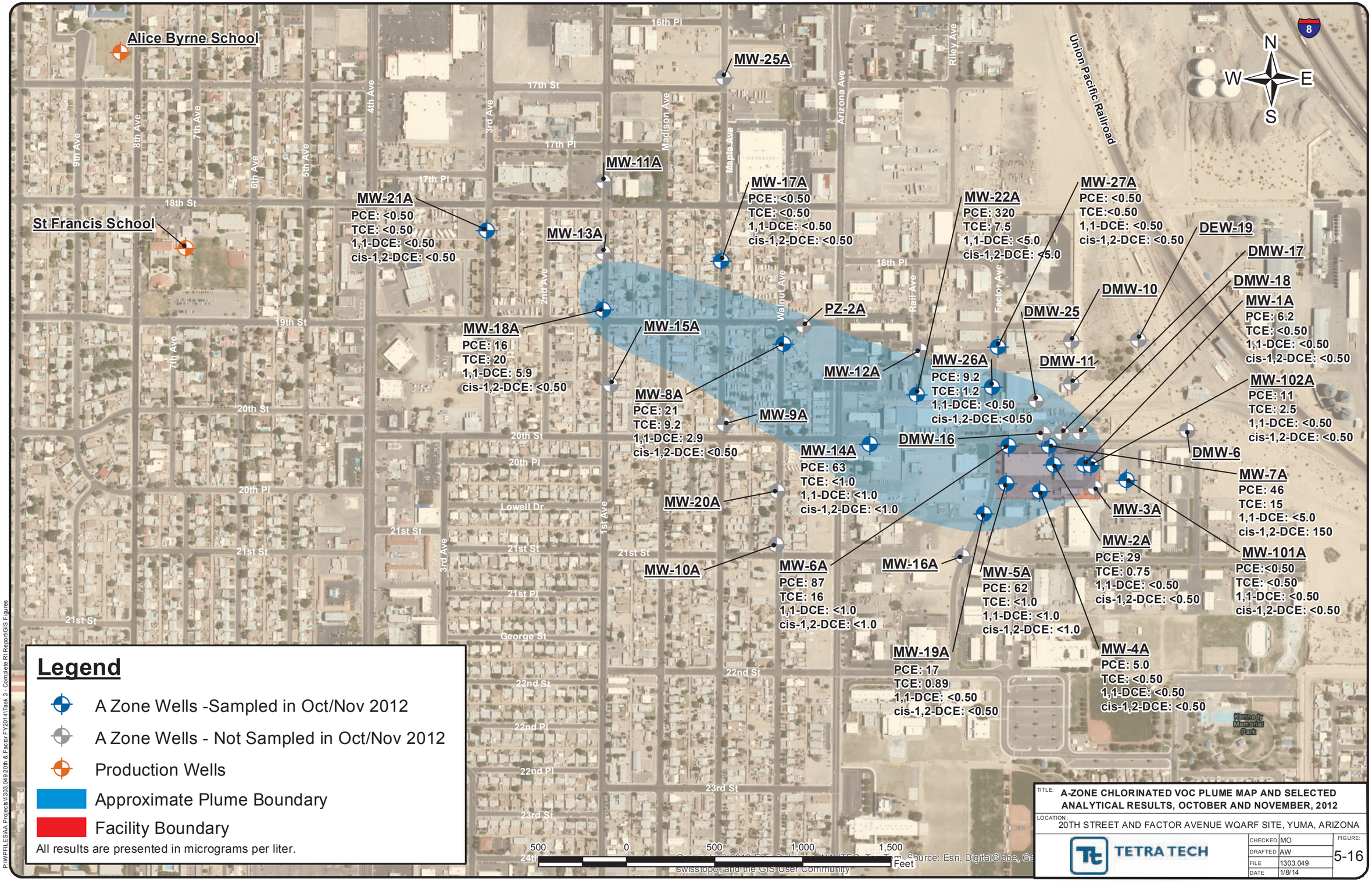
DRAFTED	AW
FILE	1303.049
DATE	1/13/14

FIGURE: 5-15


Alice Byrne School
St Francis School
MW-25A
MW-11A
MW-21A
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
MW-13A
MW-17A
PCE: <0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
MW-22A
PCE: 320
TCE: 7.5
1,1-DCE: <5.0
cis-1,2-DCE: <5.0
MW-27A
PCE: <0.50
TCE:<0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
DEW-19
DMW-17
DMW-18
DMW-10
MW-1A
PCE: 6.2
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
DMW-25
DMW-11
PZ-2A
MW-18A
PCE: 16
TCE: 20
1,1-DCE: 5.9
cis-1,2-DCE: <0.50
MW-15A
MW-12A
MW-26A
PCE: 9.2
TCE: 1.2
1,1-DCE: <0.50
cis-1,2-DCE:<0.50
MW-102A
PCE: 11
TCE: 2.5
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
MW-8A
PCE: 21
TCE: 9.2
1,1-DCE: 2.9
cis-1,2-DCE: <0.50
MW-9A
DMW-16
DMW-6
MW-14A
PCE: 63
TCE: <1.0
1,1-DCE: <1.0
cis-1,2-DCE: <1.0
MW-7A
PCE: 46
TCE: 15
1,1-DCE: <5.0
cis-1,2-DCE: 150
MW-20A
MW-3A
MW-2A
PCE: 29
TCE: 0.75
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
MW-101A
PCE:<0.50
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
MW-10A
MW-6A
PCE: 87
TCE: 16
1,1-DCE: <1.0
cis-1,2-DCE: <1.0
MW-16A
MW-5A
PCE: 62
TCE: <1.0
1,1-DCE: <1.0
cis-1,2-DCE: <1.0
MW-19A
PCE: 17
TCE: 0.89
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
MW-4A
PCE: 5.0
TCE: <0.50
1,1-DCE: <0.50
cis-1,2-DCE: <0.50
Legend
A Zone Wells -Sampled in Oct/Nov 2012
A Zone Wells - Not Sampled in Oct/Nov 2012
Production Wells
Approximate Plume Boundary
Facility Boundary
All results are presented in micrograms per liter.
500 0 500 1,000 1,500
Feet
N
S
E
W
TITLE: A-ZONE CHLORINATED VOC PLUME MAP AND SELECTED ANALYTICAL RESULTS, OCTOBER AND NOVEMBER, 2012
LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA
TETRA TECH
CHECKED MO
DRAFTED AW
FILE 1303.049
DATE 1/8/14
FIGURE: 5-16
P:\WPFILES\AA Projects\1303.049 20th & Factor FY2014\Task 3 - Complete RI Report\GIS Figures

TITLE: A-ZONE CYANIDE PLUME MAP, CYANIDE ANALYTICAL RESULTS, OCTOBER AND NOVEMBER, 2012

LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

CHECKED	MO
DRAFTED	CL
FILE	1303.049
DATE	1/8/14

FIGURE: 5-17

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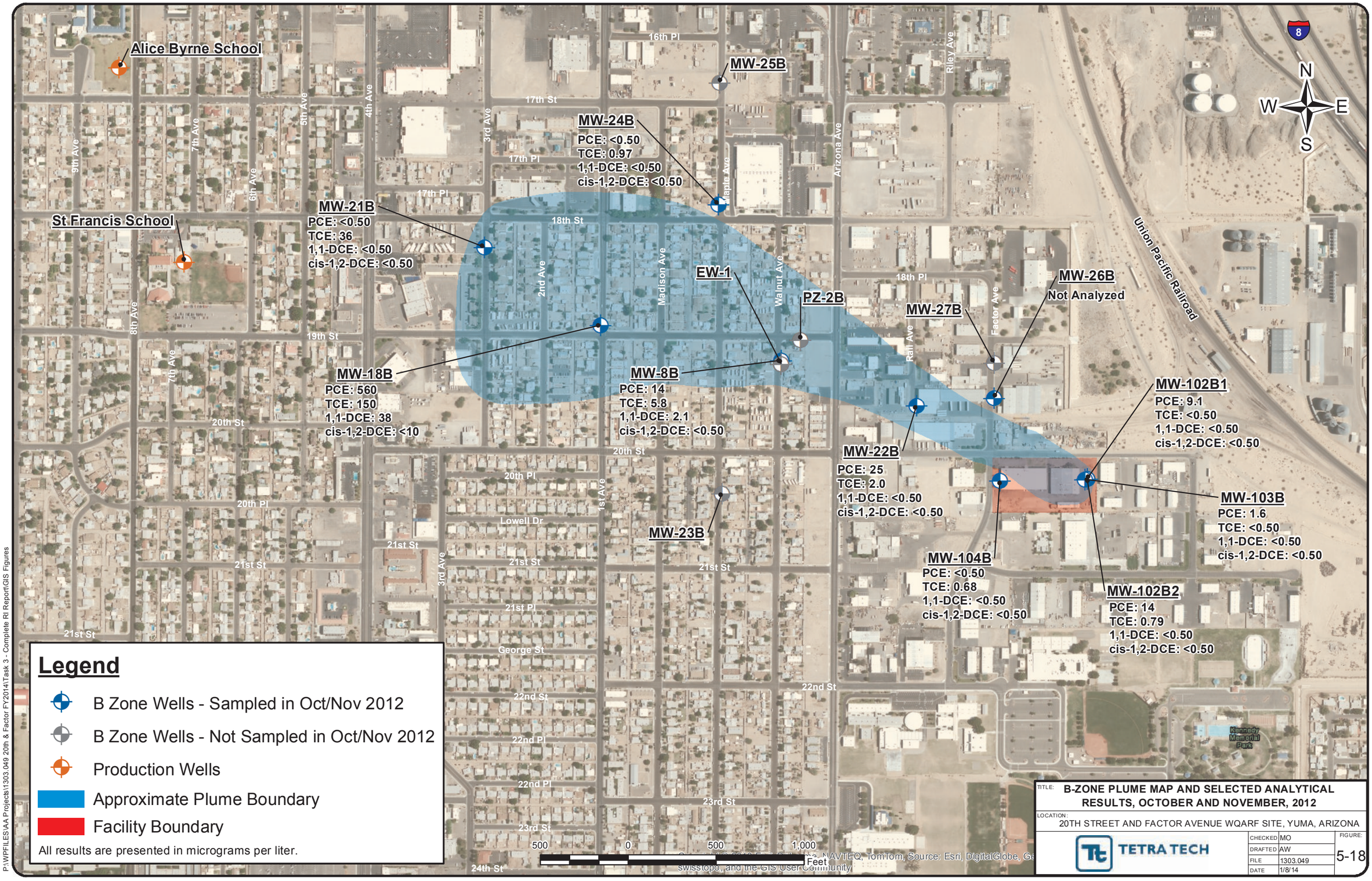

TITLE: B-ZONE PLUME MAP AND SELECTED ANALYTICAL RESULTS, OCTOBER AND NOVEMBER, 2012

LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

CHECKED	MO
DRAFTED	AW
FILE	1303.049
DATE	1/8/14

FIGURE: 5-18

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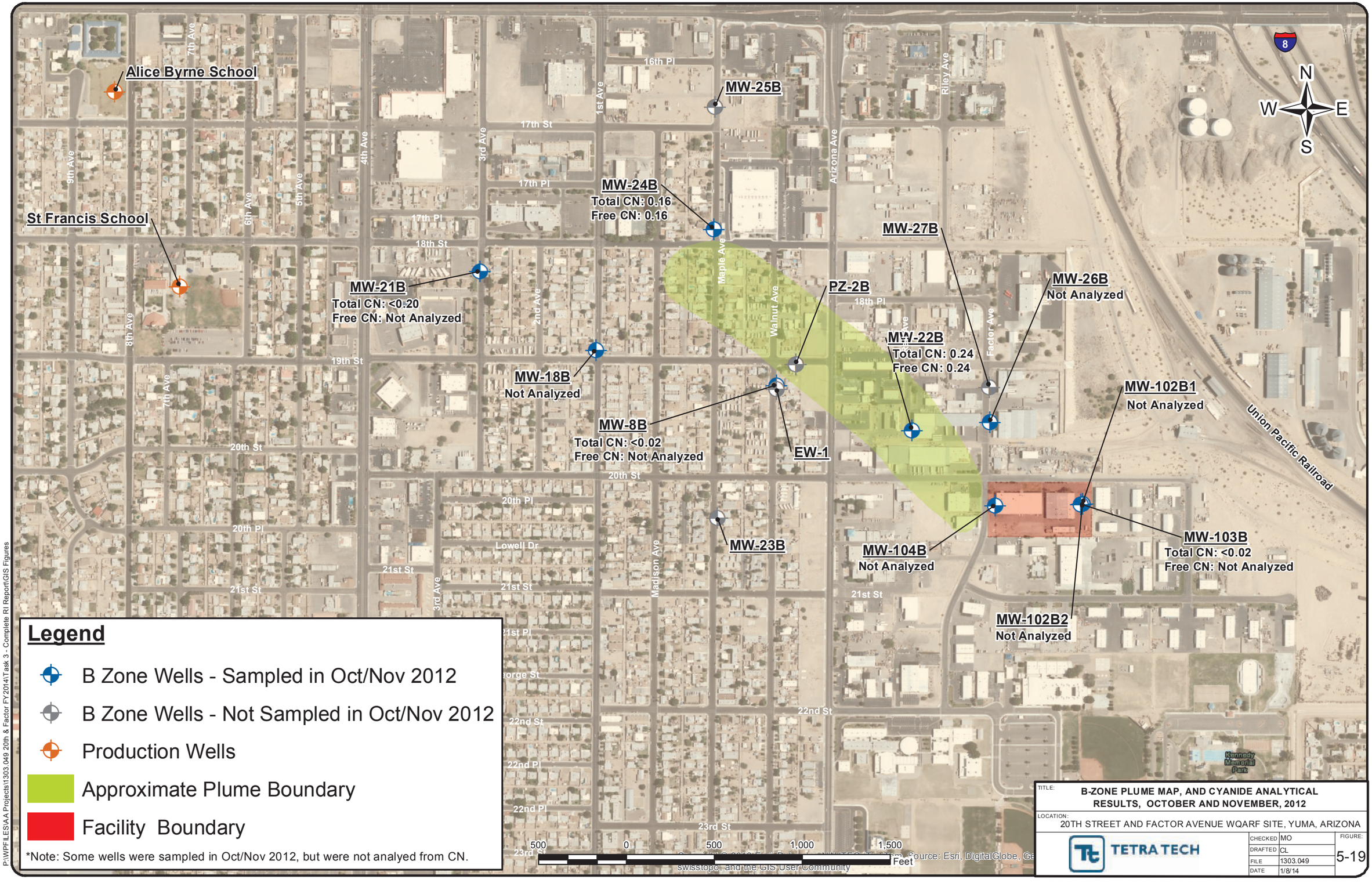

TITLE: B-ZONE PLUME MAP, AND CYANIDE ANALYTICAL RESULTS, OCTOBER AND NOVEMBER, 2012

LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

CHECKED	MO
DRAFTED	CL
FILE	1303.049
DATE	1/8/14

FIGURE: 5-19

TITLE: C-ZONE MAP, SELECTED ANALYTICAL RESULTS, OCTOBER AND NOVEMBER 2012

LOCATION: 20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

CHECKED	MO
DRAFTED	AW
FILE	1303.049
DATE	1/8/14

FIGURE: 5-20

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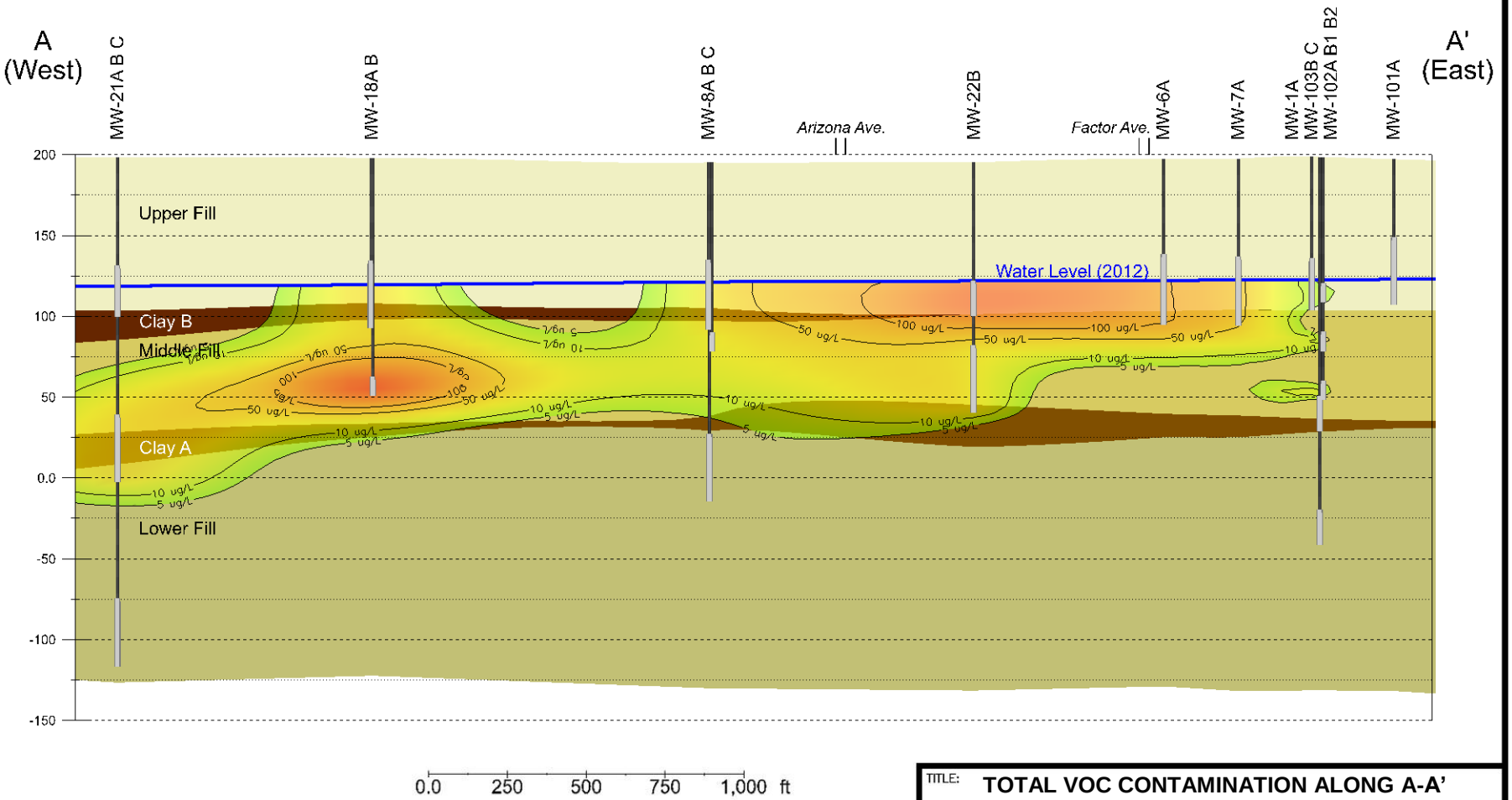

TITLE:	TOTAL VOC CONTAMINATION ALONG A-A' FOURTH QUARTER 2013		
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA		
TETRA TECH	APPROVED	MO	FIGURE
	DRAFTED	AW	5-21
	PROJECT#	1303.049	
	DATE	01/03/14	

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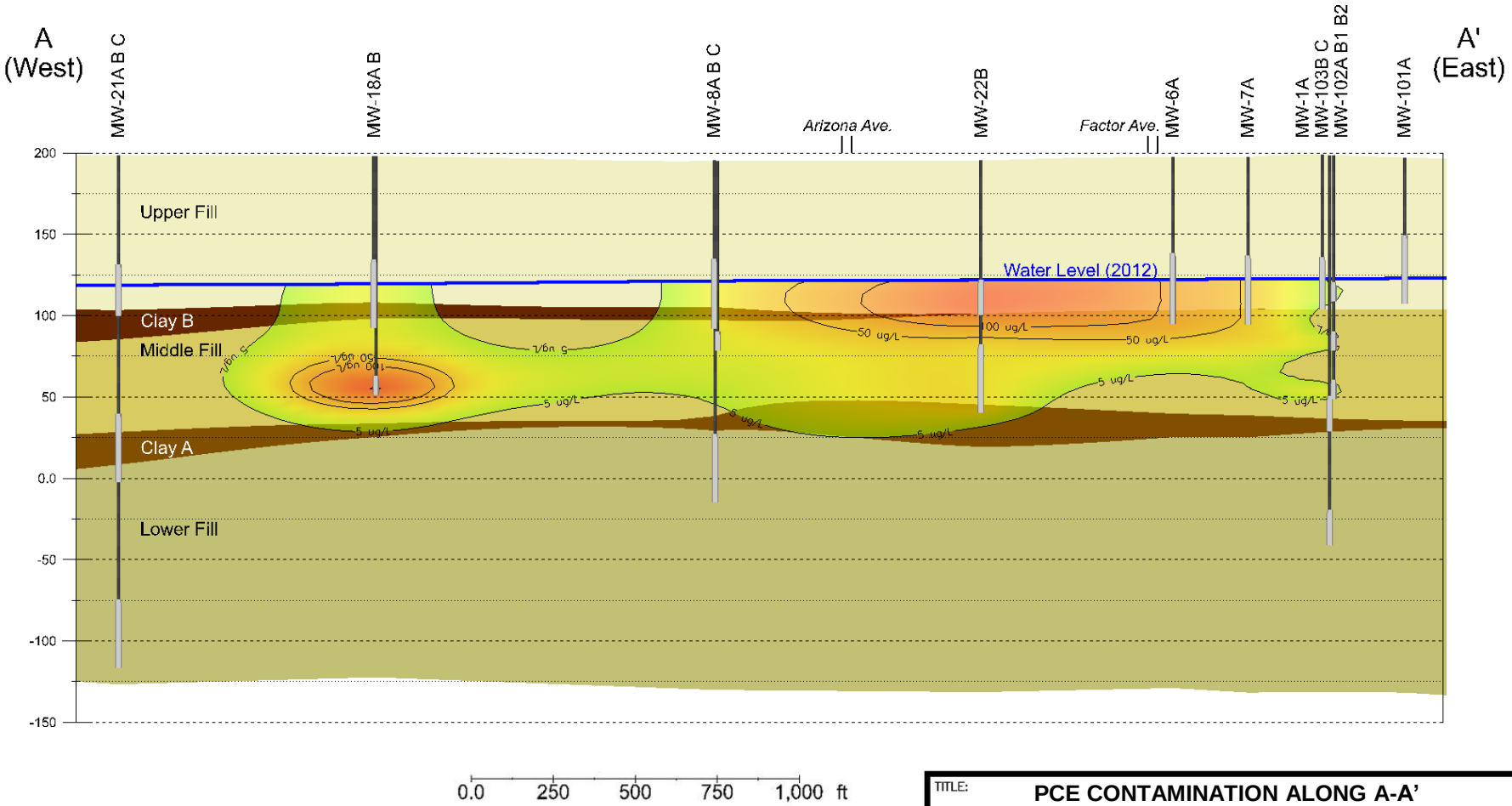

TITLE:	PCE CONTAMINATION ALONG A-A' FOURTH QUARTER 2013
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	5-22
PROJECT#	1303.049	
DATE	01/03/14	

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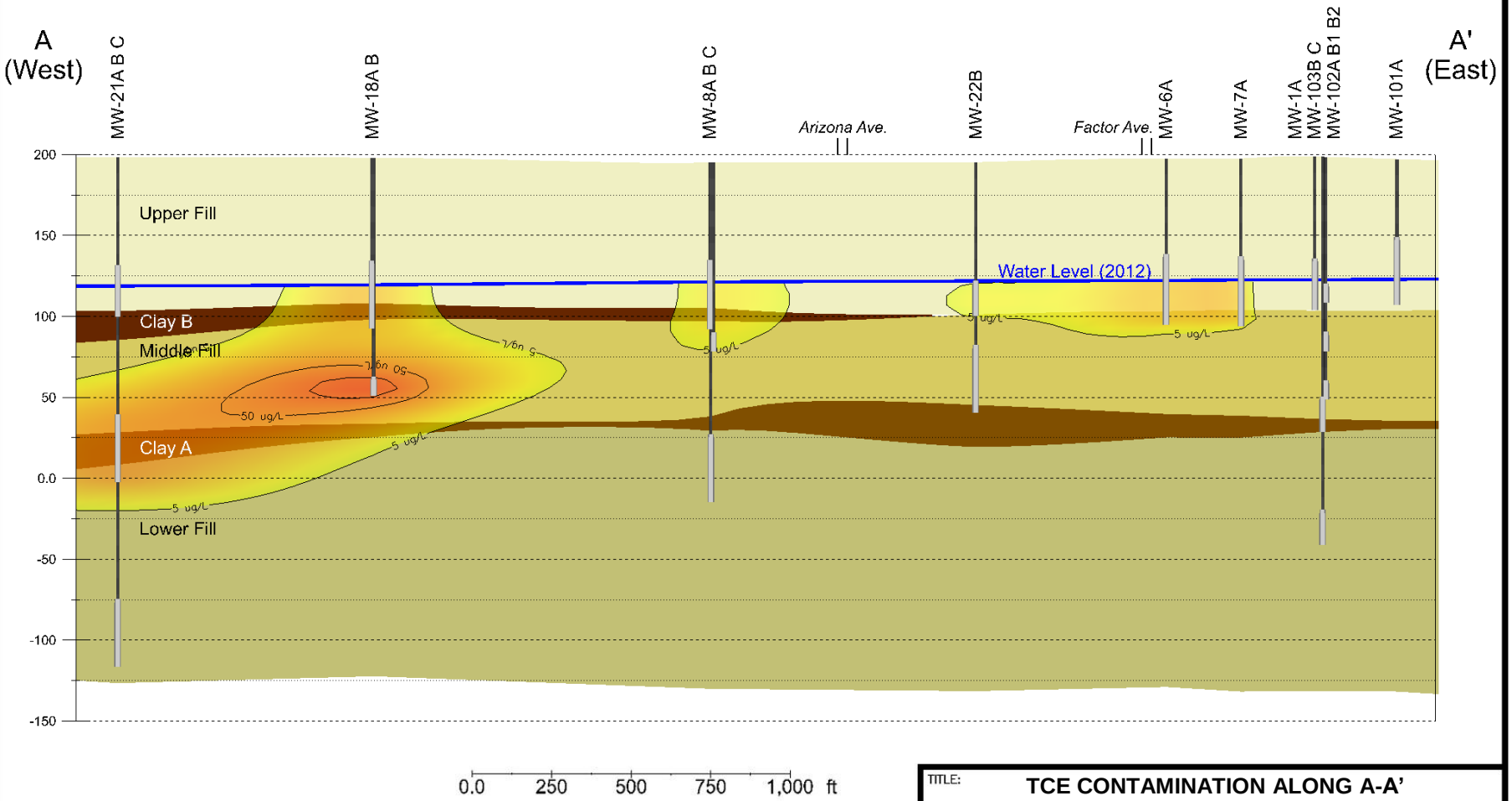

TITLE:	TCE CONTAMINATION ALONG A-A' FOURTH QUARTER 2013
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	5-23
PROJECT#	1303.049	
DATE	01/03/13	

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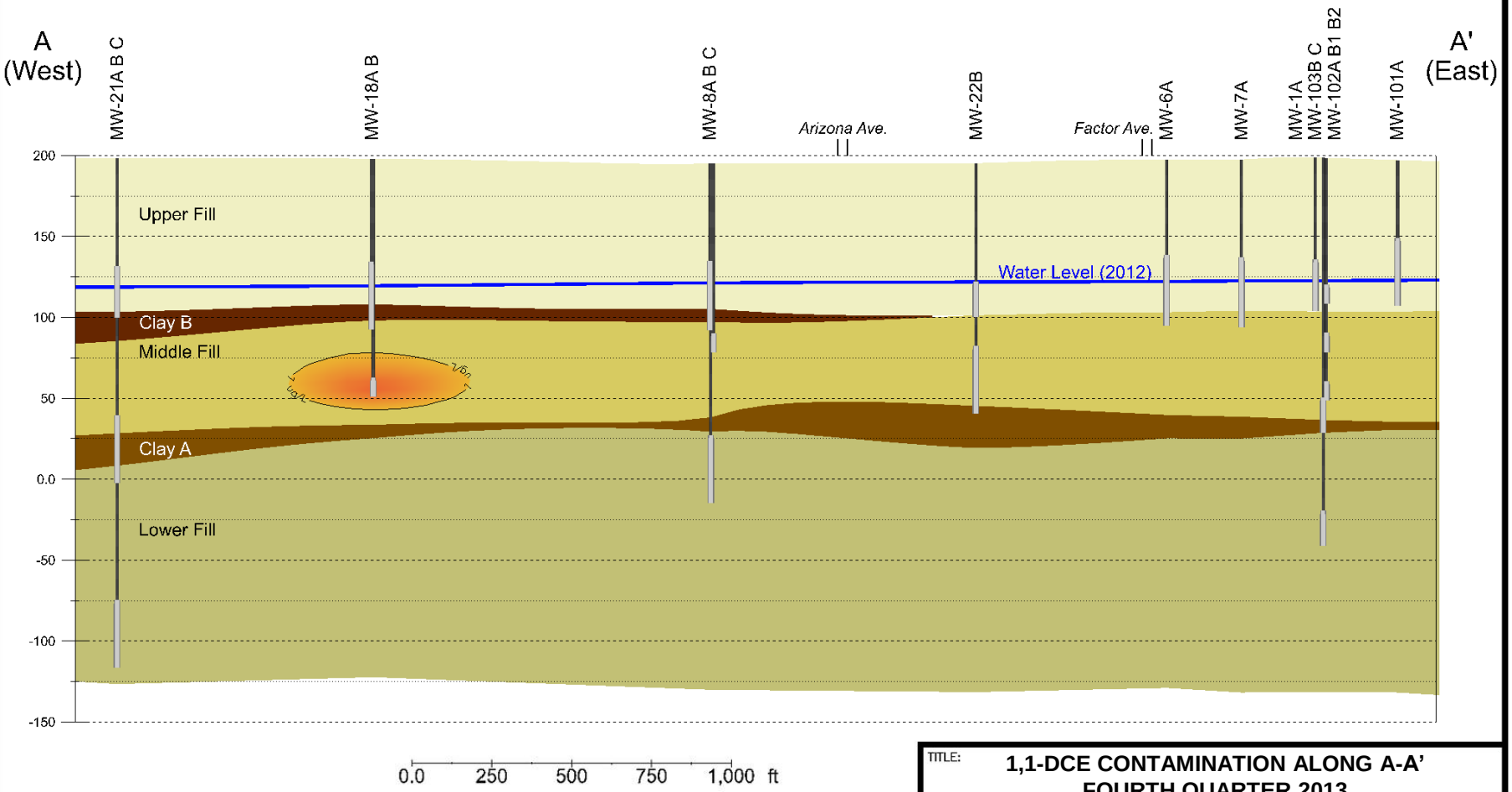

TITLE:	1,1-DCE CONTAMINATION ALONG A-A' FOURTH QUARTER 2013
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	5-24
PROJECT#	1303.049	
DATE	01/03/13	

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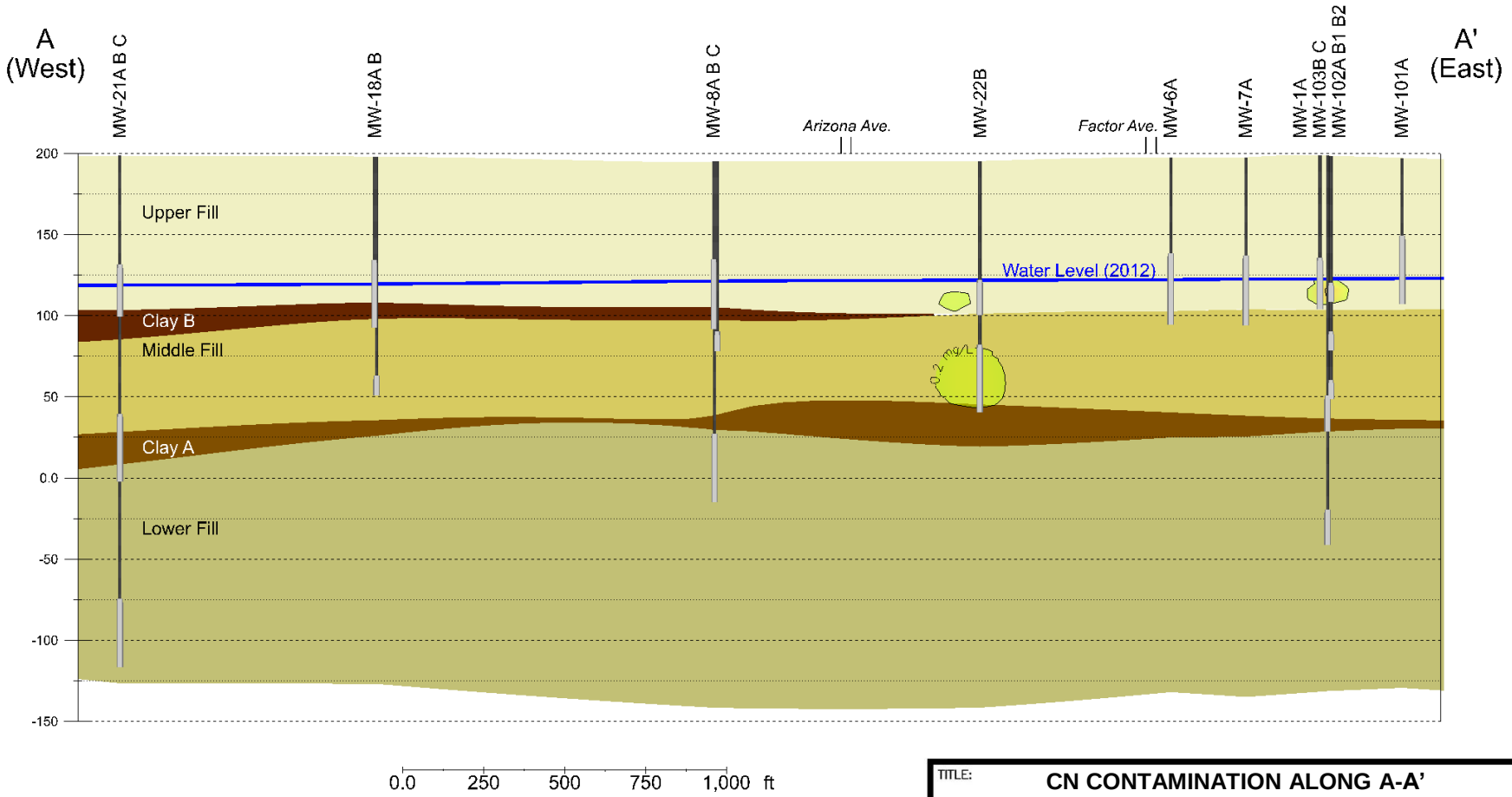

TITLE:	CN CONTAMINATION ALONG A-A' FOURTH QUARTER 2013
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	5-25
PROJECT#	1303.049	
DATE	12/12/13	

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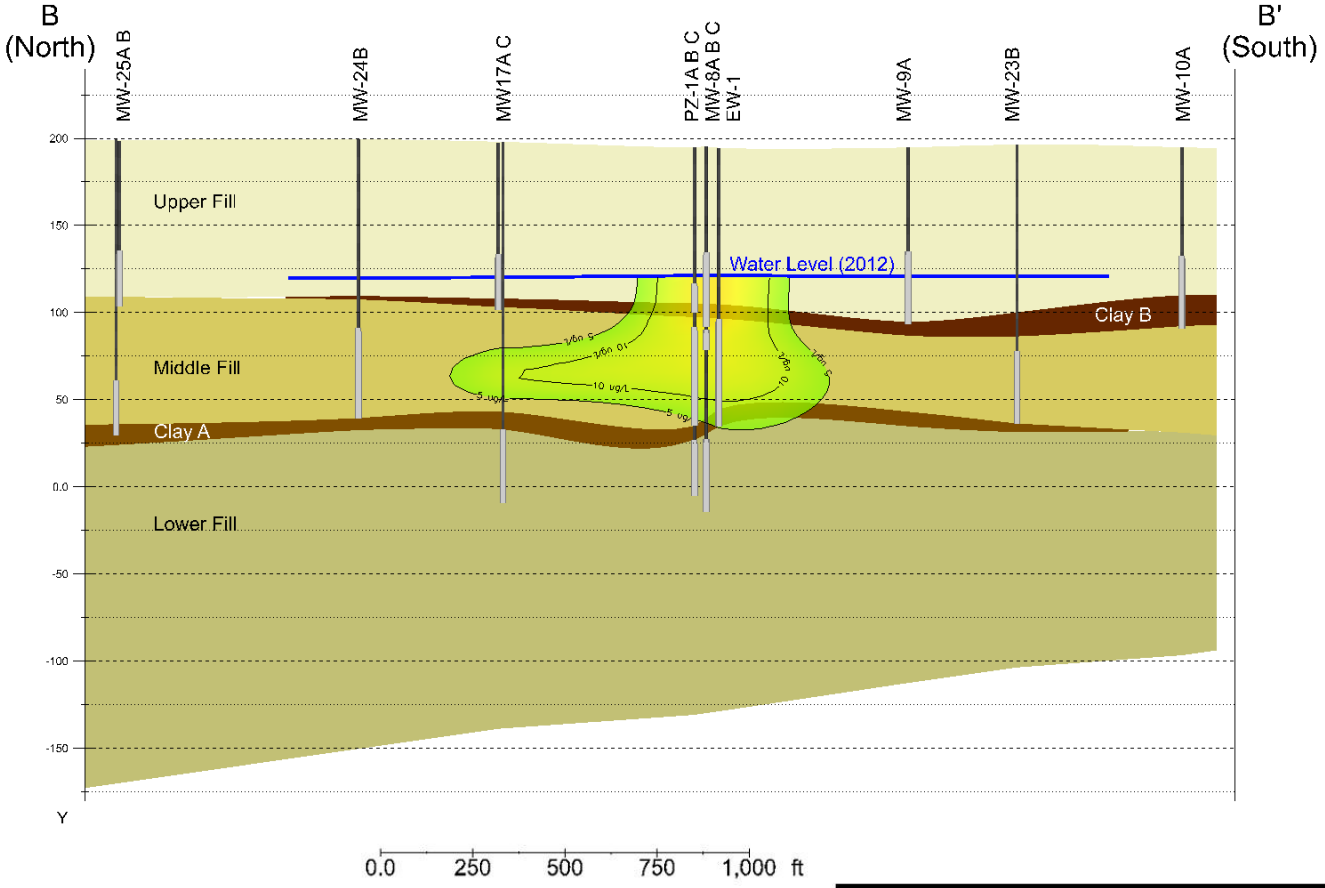

TITLE: **TOTAL VOC CONTAMINATION ALONG B-B' FOURTH QUARTER 2013**

LOCATION: **20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA**

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	5-26
PROJECT#	1303.049	
DATE	01/03/14	

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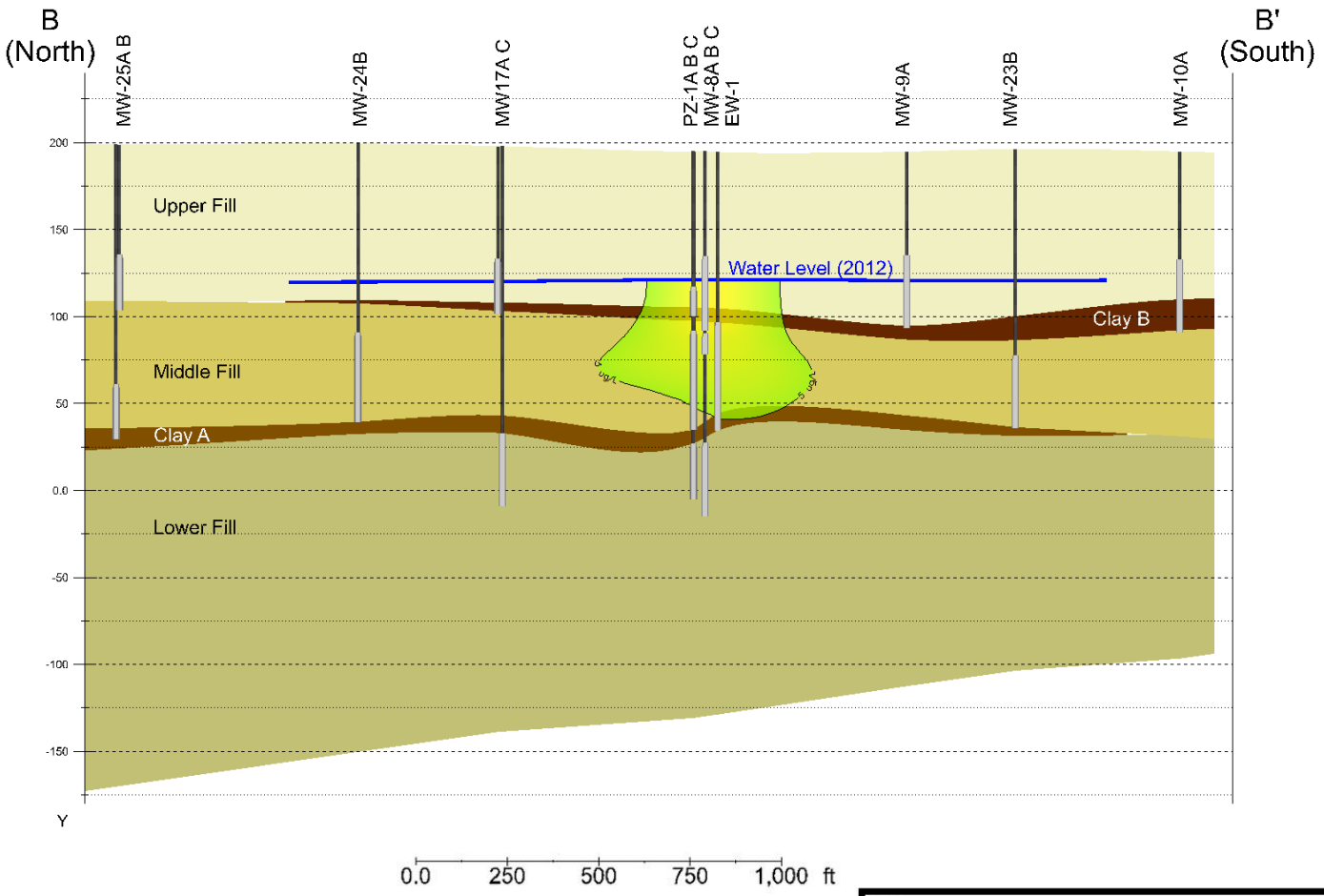
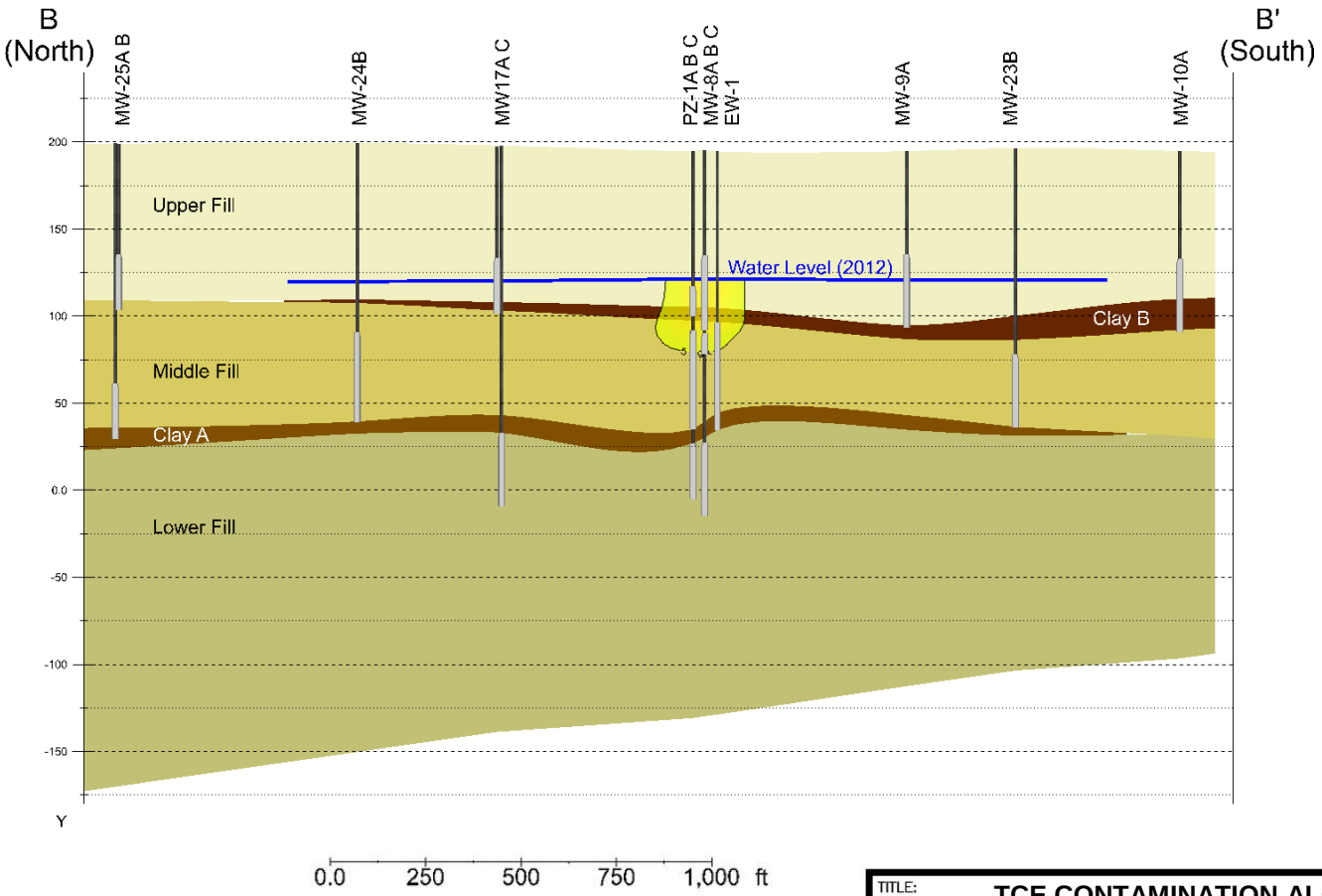


TITLE:	PCE CONTAMINATION ALONG B-B' FOURTH QUARTER 2013
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	5-27
PROJECT#	1303.049	
DATE	01/03/14	



TITLE:	TCE CONTAMINATION ALONG B-B' FOURTH QUARTER 2013
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	5-28
PROJECT#	1303.049	
DATE	01/03/14	

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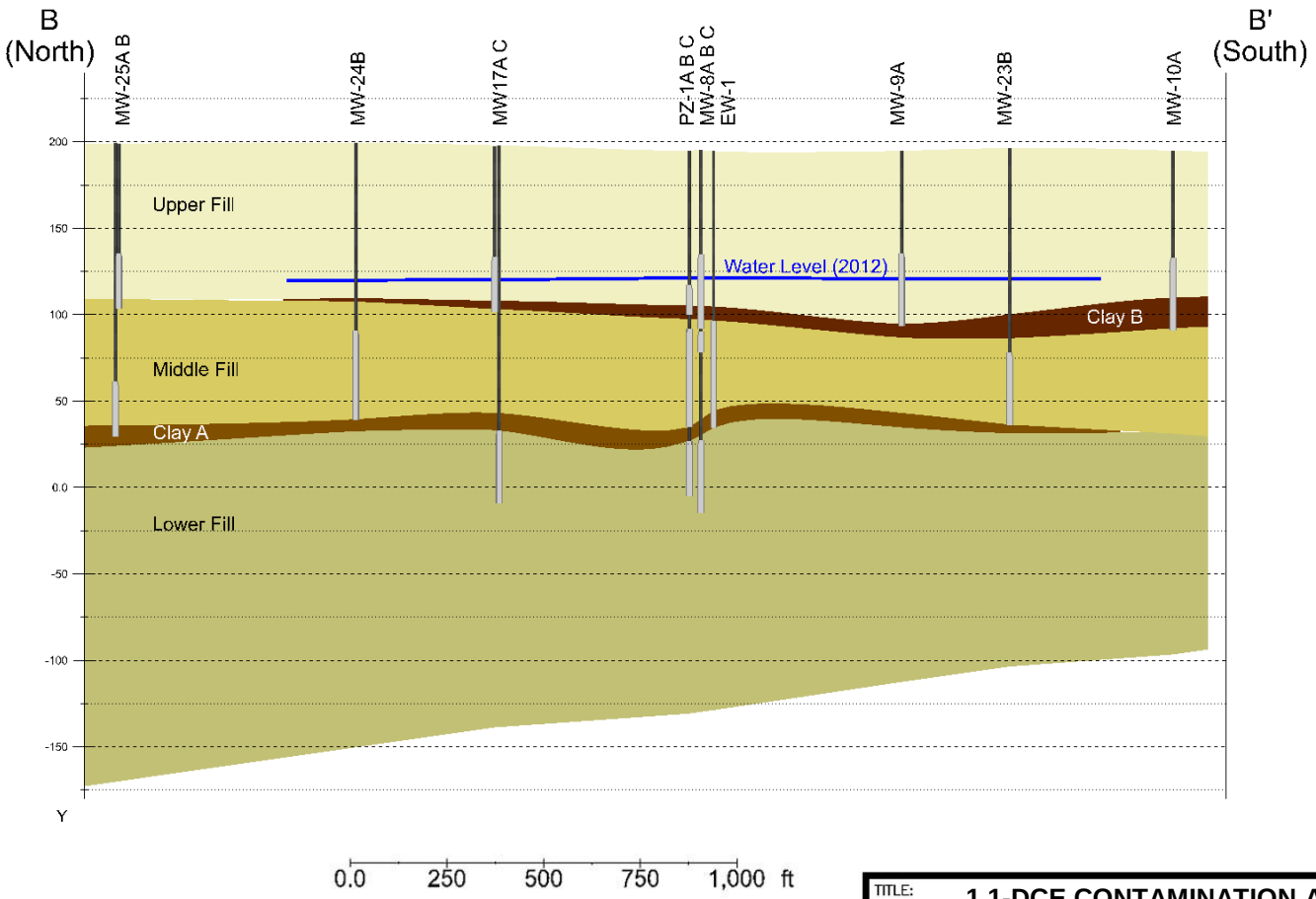

TITLE:	1,1-DCE CONTAMINATION ALONG B-B' FOURTH QUARTER 2013
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	5-29
PROJECT#	1303.049	
DATE	01/03/14	

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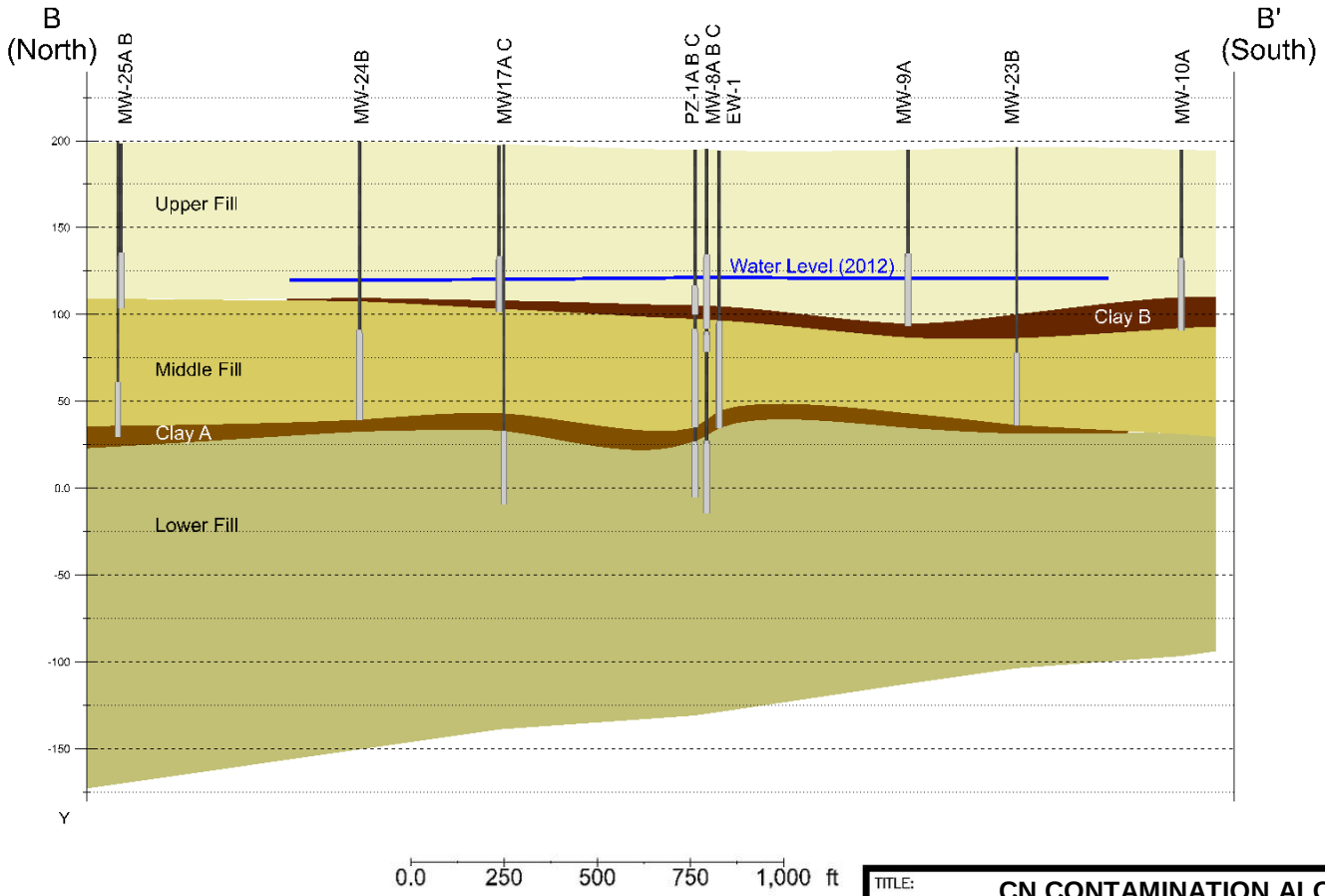
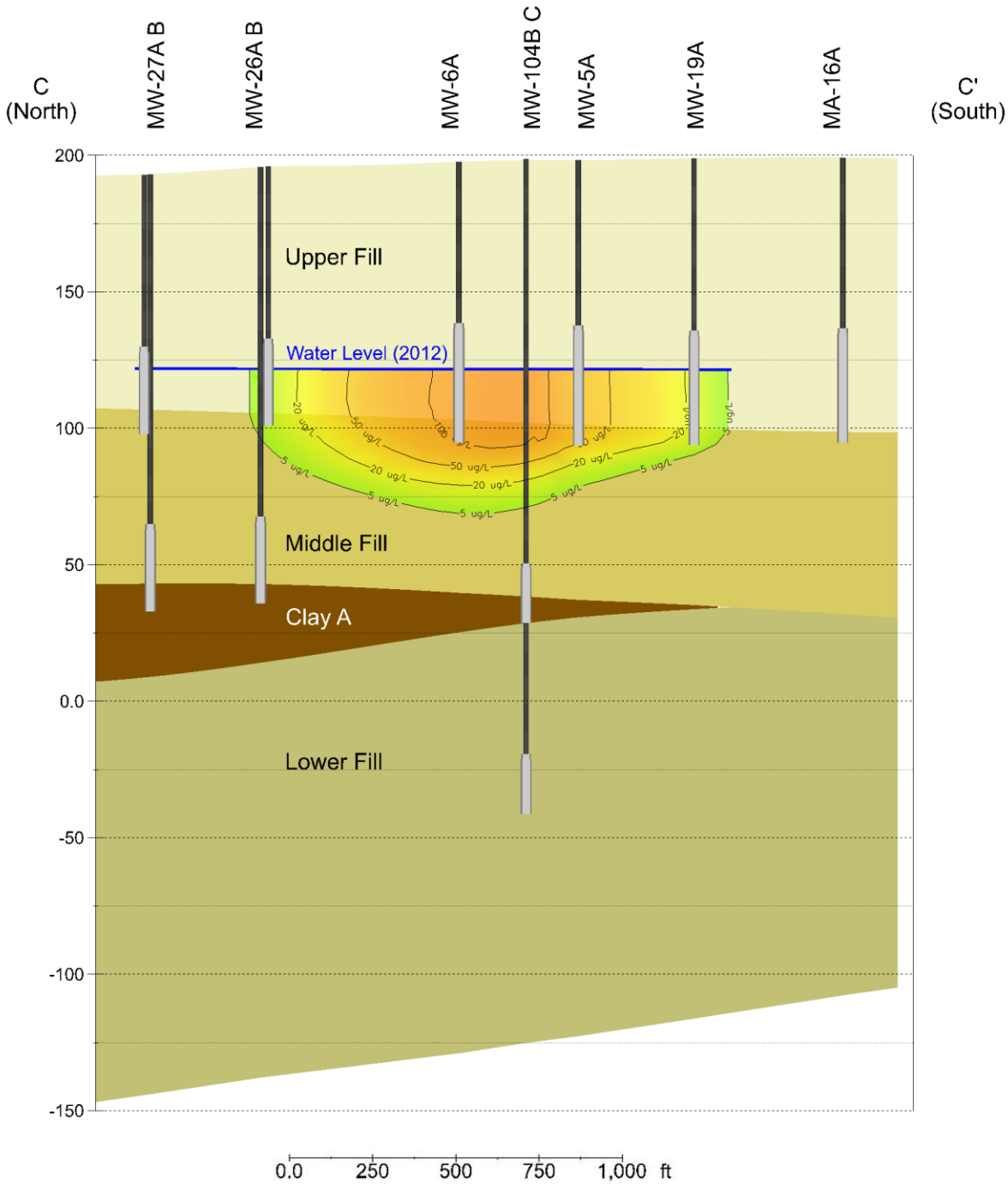


TITLE:	CN CONTAMINATION ALONG B-B' FOURTH QUARTER 2013		
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA		
TETRA TECH	APPROVED	MO	FIGURE
	DRAFTED	AW	5-30
	PROJECT#	1303.049	
	DATE	01/03/14	



TITLE:	TOTAL VOC CONTAMINATION ALONG C-C' FOURTH QUARTER 2013		
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA		
TETRA TECH	APPROVED	MO	FIGURE
	DRAFTED	AW	5-31
	PROJECT#	1303.049	
	DATE	01/03/14	

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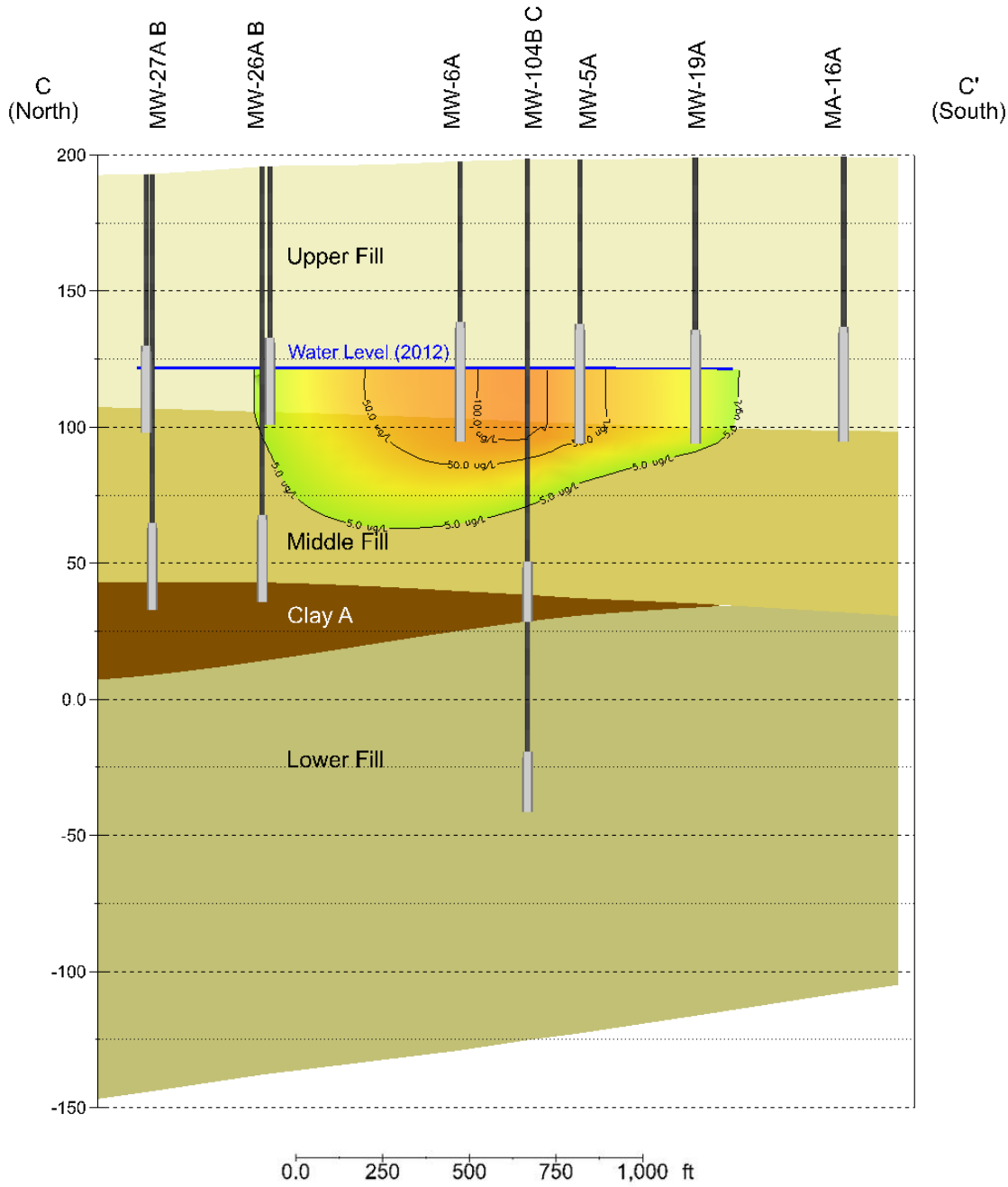

TITLE:	PCE CONTAMINATION ALONG C-C' FOURTH QUARTER 2013		
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA		
TETRA TECH	APPROVED	MO	FIGURE
	DRAFTED	AW	5-32
	PROJECT#	1303.049	
	DATE	01/03/14	

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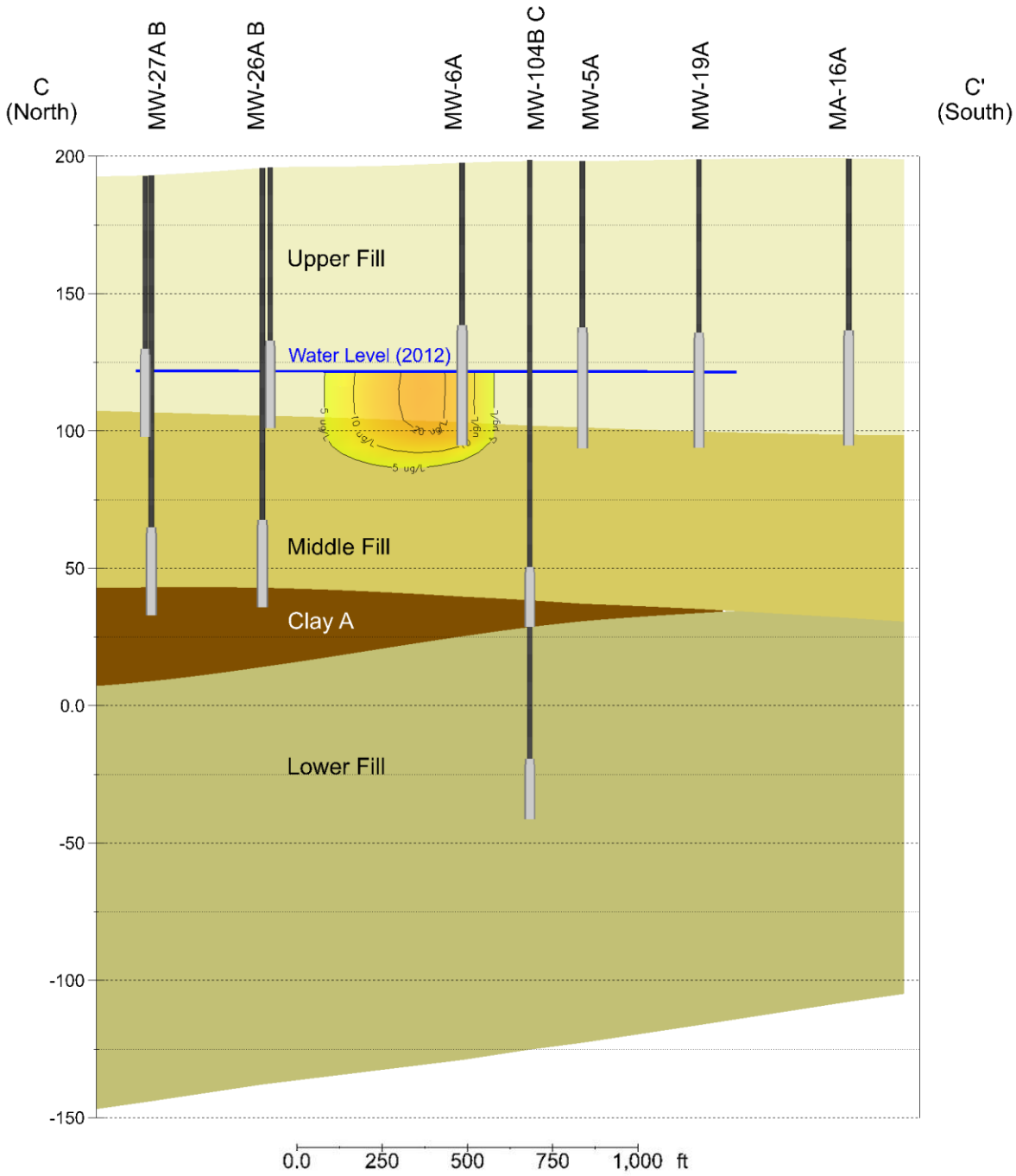

TITLE:	TCE CONTAMINATION ALONG C-C' FOURTH QUARTER 2013		
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA		
TETRA TECH	APPROVED	MO	FIGURE
	DRAFTED	AW	5-33
	PROJECT#	1303.049	
	DATE	01/03/14	

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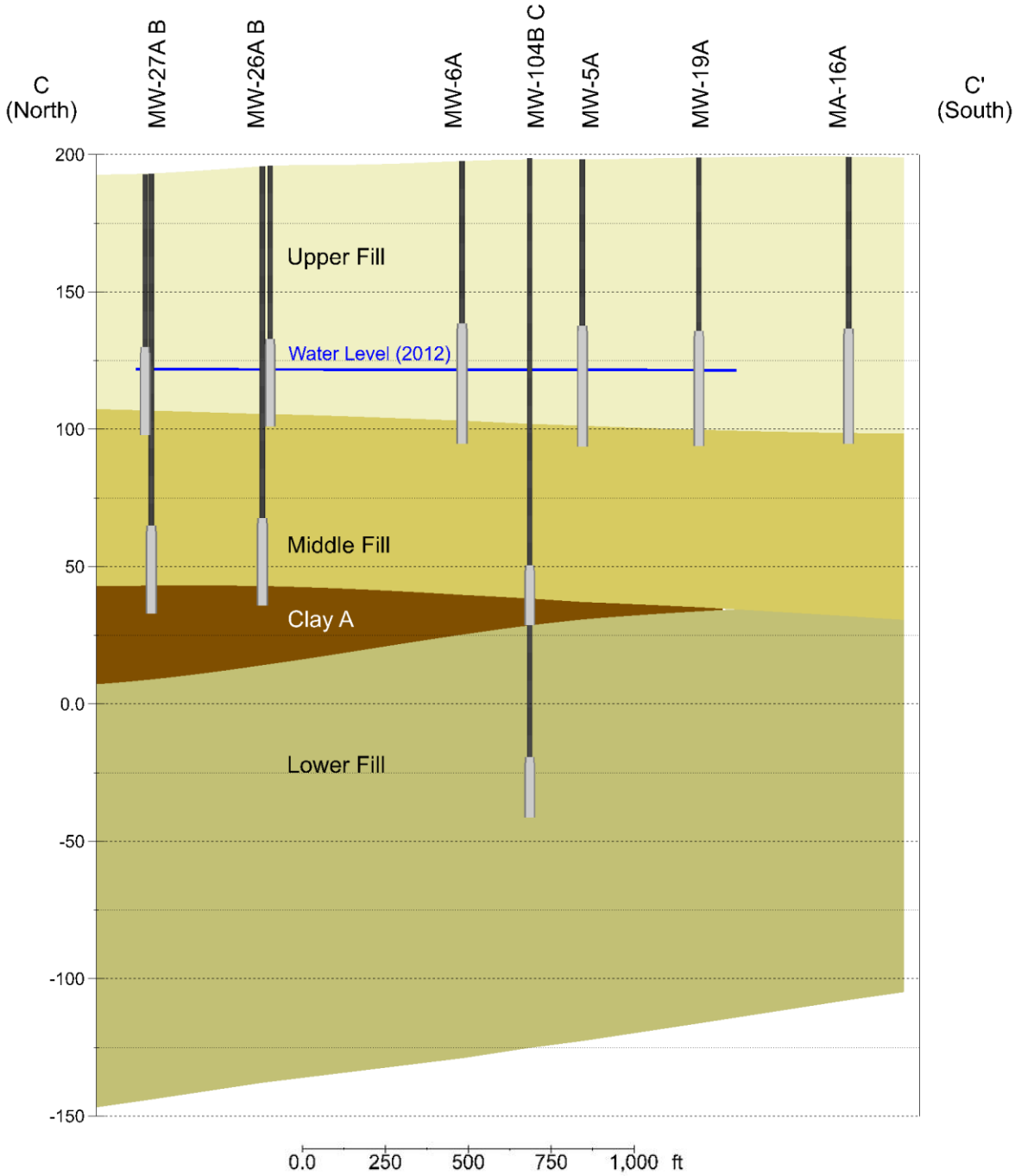

TITLE:	1,1-DCE CONTAMINATION ALONG C-C' FOURTH QUARTER 2013
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	5-34
PROJECT#	1303.049	
DATE	01/03/14	

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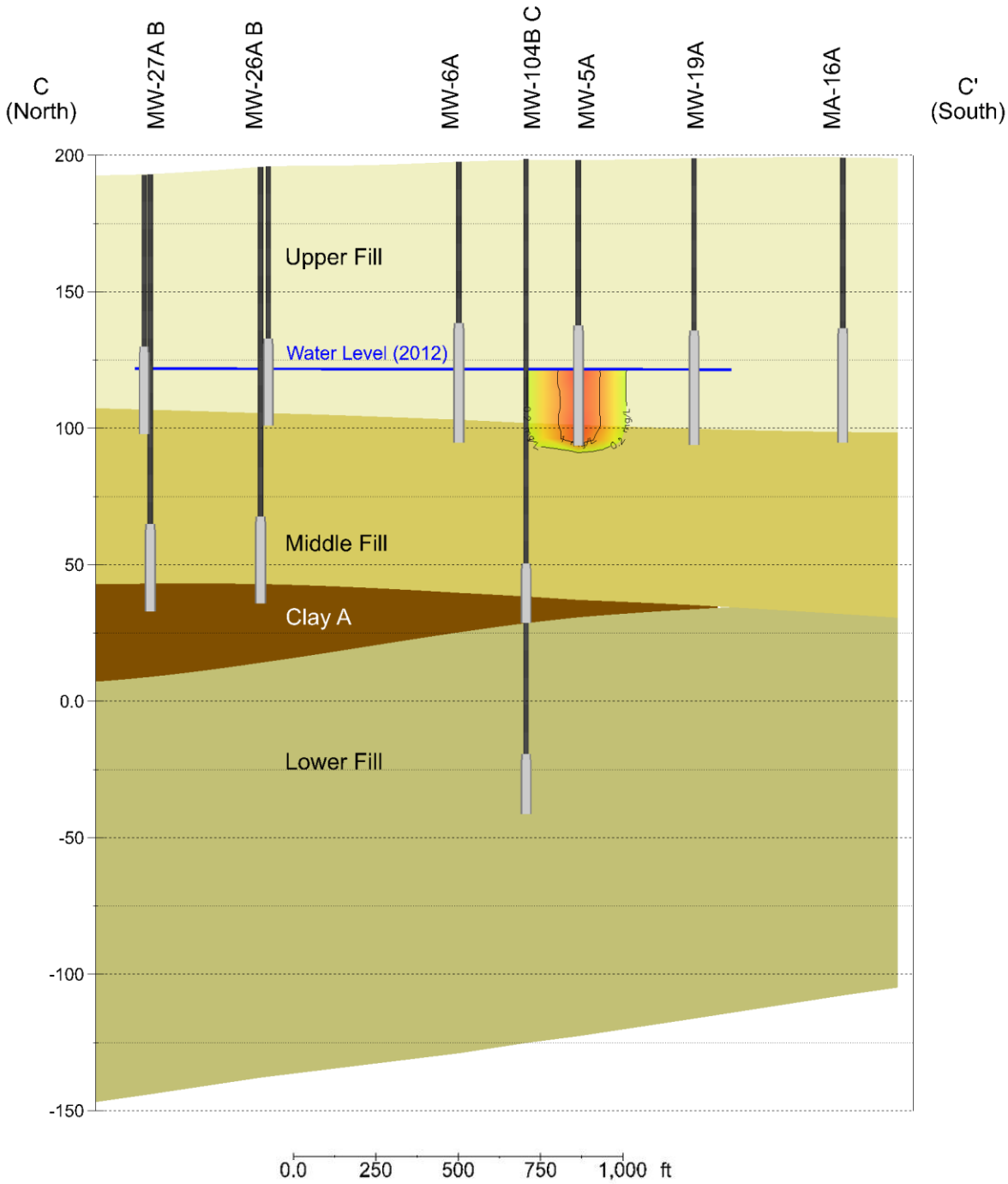

TITLE:	CN CONTAMINATION ALONG C-C' FOURTH QUARTER 2013
LOCATION:	20TH STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	5-35
PROJECT#	1303.049	
DATE	01/03/14	

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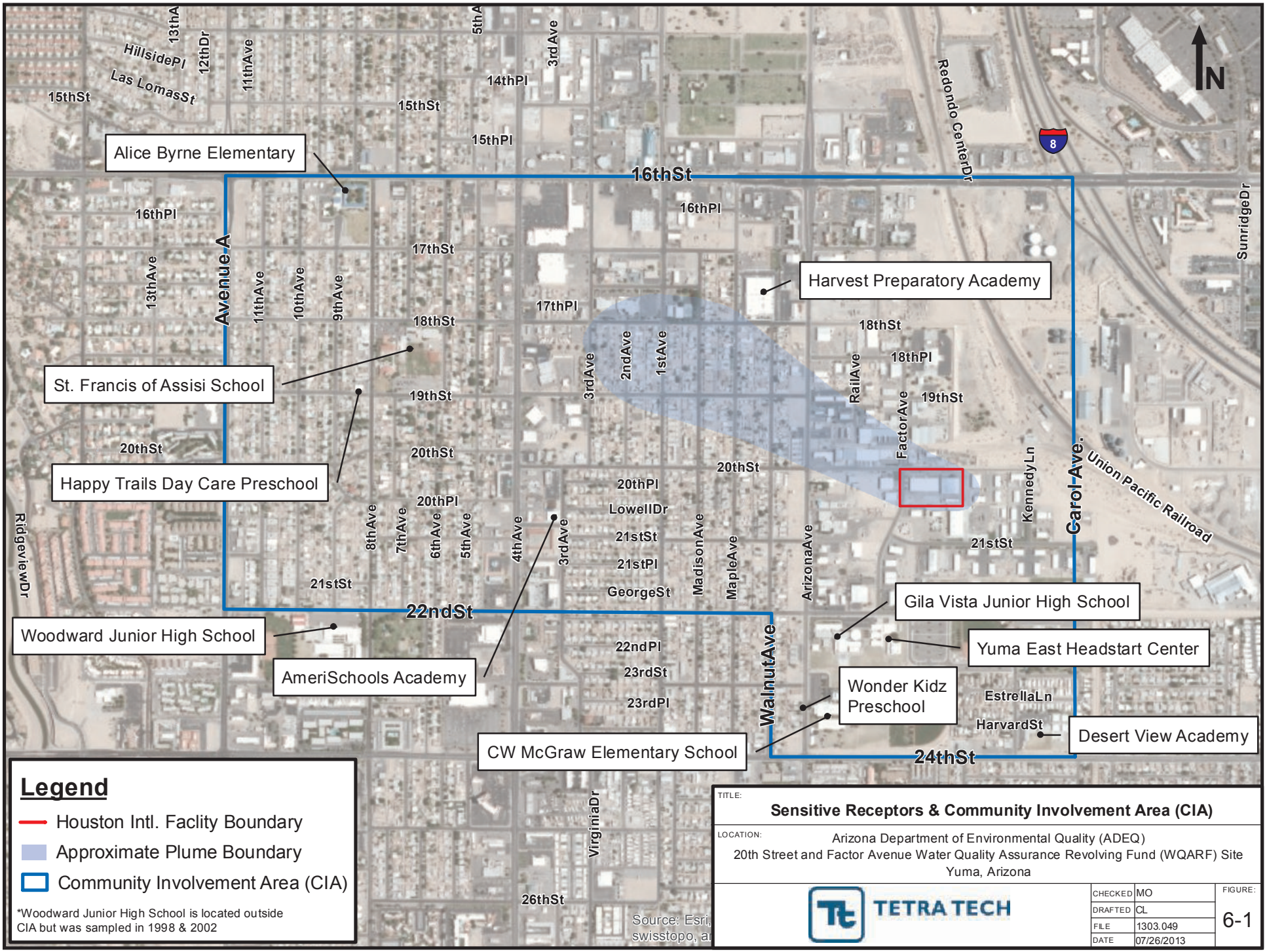

TITLE: **Sensitive Receptors & Community Involvement Area (CIA)**

LOCATION: Arizona Department of Environmental Quality (ADEQ)
20th Street and Factor Avenue Water Quality Assurance Revolving Fund (WQARF) Site
Yuma, Arizona

TETRA TECH

CHECKED	MO
DRAFTED	CL
FILE	1303.049
DATE	07/26/2013

FIGURE: 6-1

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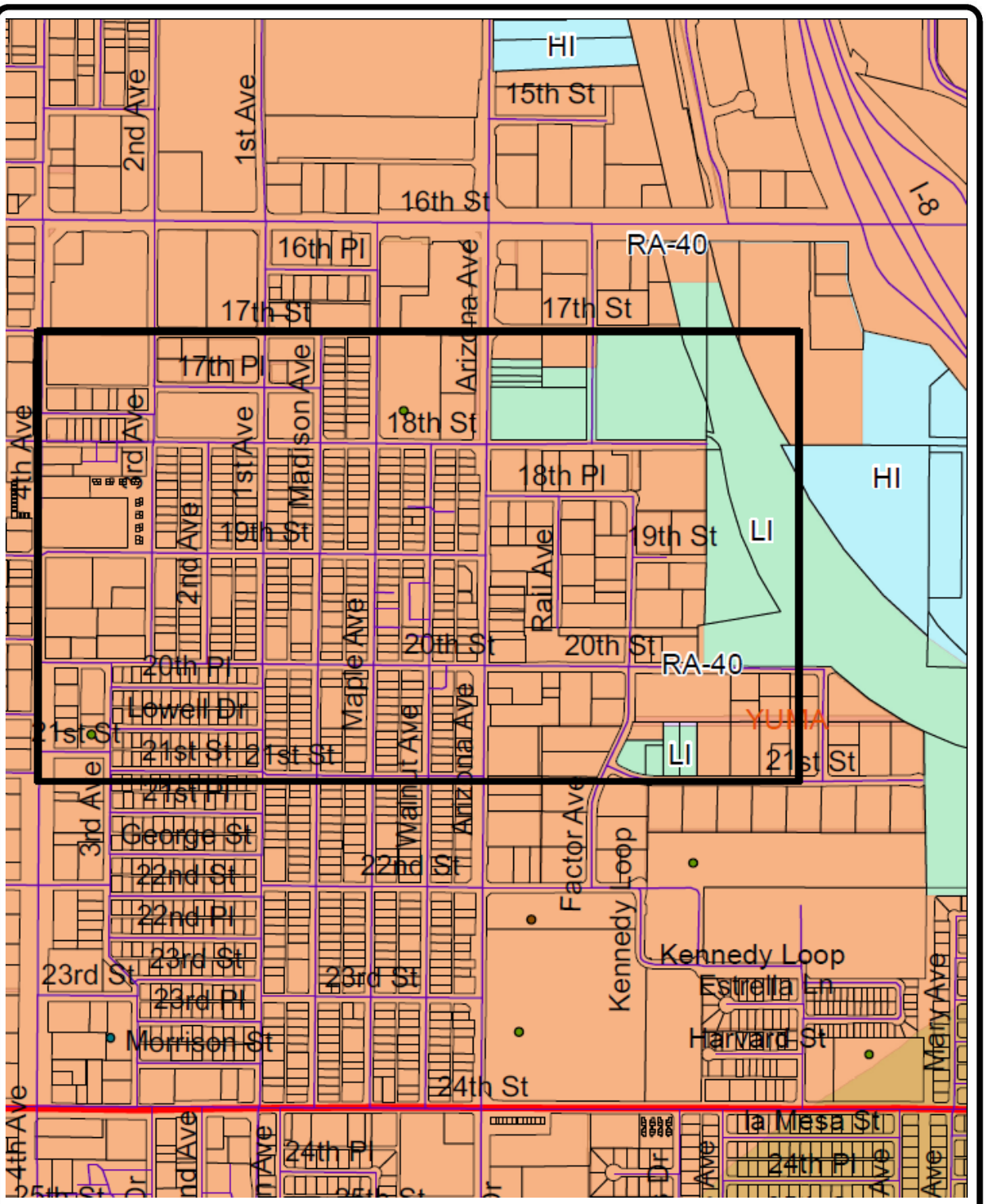

LEGEND

○	County of Yuma Identified Public Educational Facilities
RA-40	Rural Areas – 40 Acre Minimum
HI	Heavy Industrial Zoning
LI	Light Industrial Zoning

TITLE: **COUNTY OF YUMA LAND USE MAP**

LOCATION: **20th STREET AND FACTOR AVENUE WQARF SITE, YUMA, ARIZONA**

TETRA TECH

APPROVED	MO	FIGURE
DRAFTED	AW	6-2
PROJECT#	1303.049	
DATE	01/03/14	

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