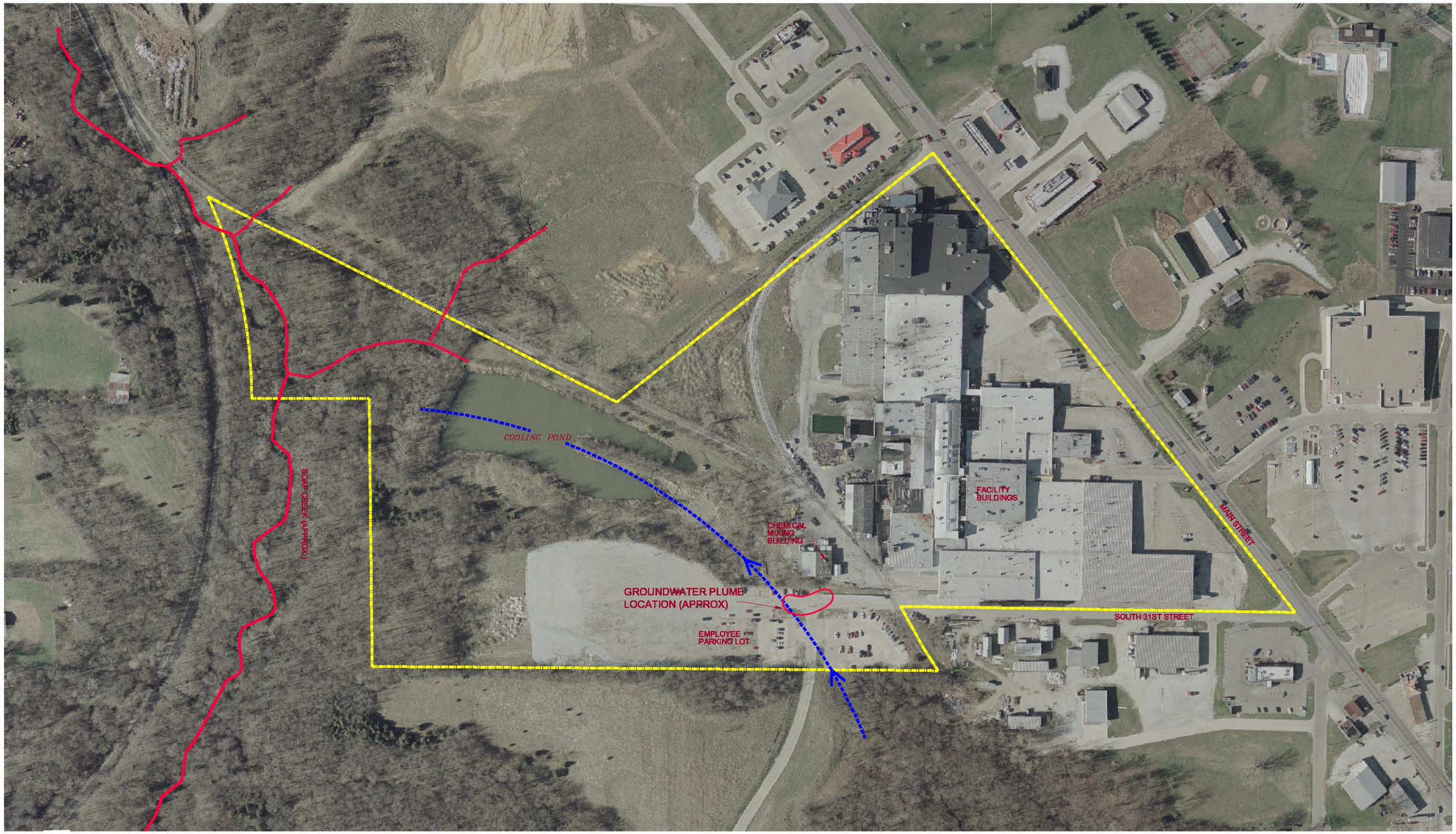

LEGEND:

- APPROXIMATE LOCATION OF CURRENT SURFACE DRAINAGE FEATURES
- APPROXIMATE LOCATION OF HISTORIC SURFACE DRAINAGE FEATURES
- APPROXIMATE LOCATION OF SOAP CREEK (DASHED LINES INDICATE EPHEMERAL DRAINAGES)
- APPROXIMATE LOCATION OF PROPERTY LINE

NOTE:

AERIAL PHOTOGRAPH TAKEN IN 2001.

N

200 0 200 400

SCALE FEET

URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: PROPERTY LINE AND FACILITY LAYOUT

DRAWN BY	CHECKED BY	APPROVED BY
TMS	CLA	DAD
PROJECT NO. 16530531	DATE AUG. 2011	DRAWING NO. COVER

August 11, 2011 2:07:54 pm (mik)
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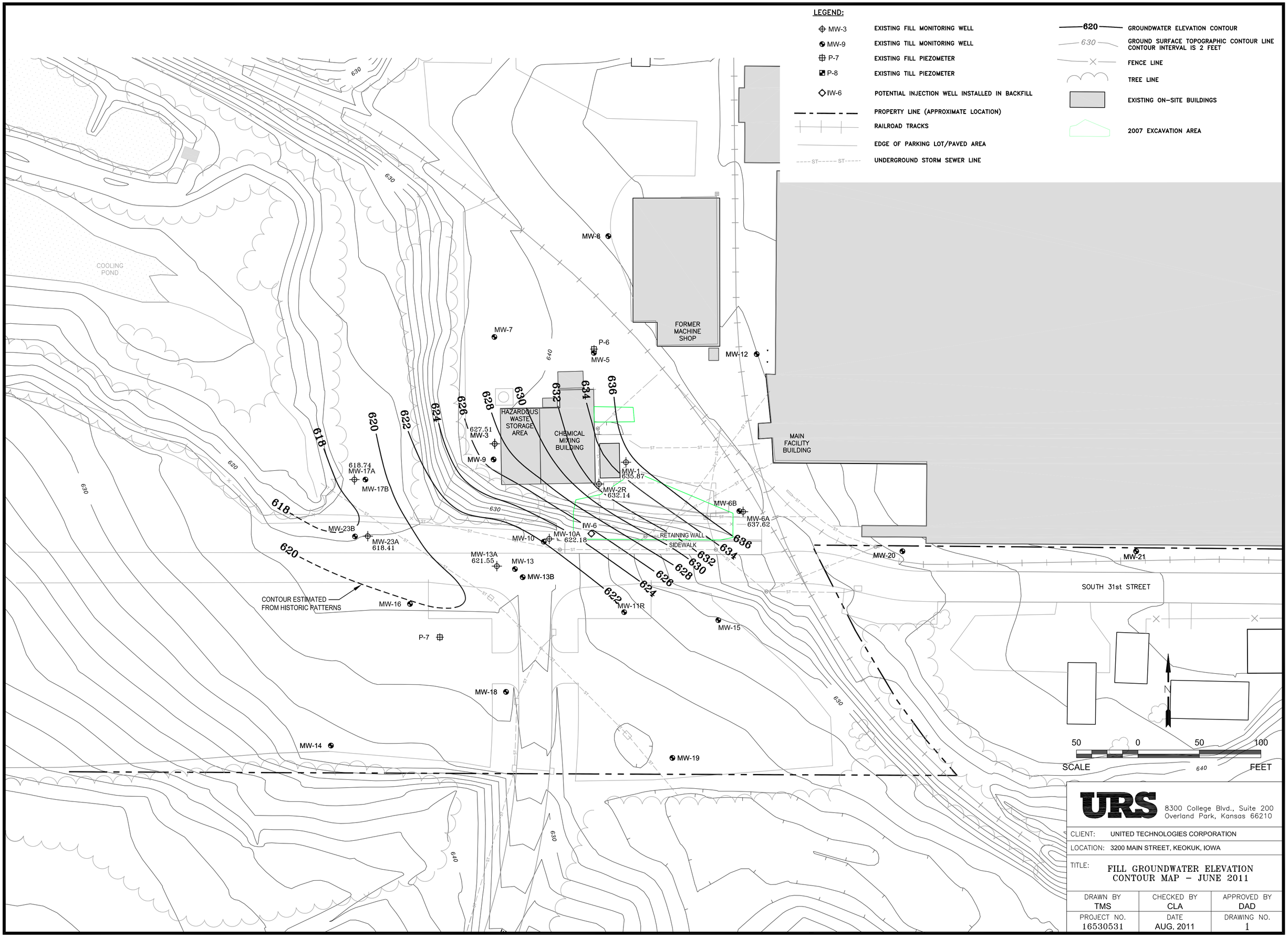
LEGEND:
MW-3 EXISTING FILL MONITORING WELL
MW-9 EXISTING TILL MONITORING WELL
P-7 EXISTING FILL PIEZOMETER
P-8 EXISTING TILL PIEZOMETER
IW-6 POTENTIAL INJECTION WELL INSTALLED IN BACKFILL
PROPERTY LINE (APPROXIMATE LOCATION)
RAILROAD TRACKS
EDGE OF PARKING LOT/PAVED AREA
UNDERGROUND STORM SEWER LINE
620 GROUNDWATER ELEVATION CONTOUR
630 GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
FENCE LINE
TREE LINE
EXISTING ON-SITE BUILDINGS
2007 EXCAVATION AREA
COOLING POND
FORMER MACHINE SHOP
MAIN FACILITY BUILDING
HAZARDOUS WASTE STORAGE AREA
CHEMICAL MIXING BUILDING
RETAINING WALL
SIDEWALK
SOUTH 31st STREET
CONTOUR ESTIMATED FROM HISTORIC PATTERNS
MW-8
MW-7
P-6
MW-5
MW-12
MW-3
627.51
MW-9
MW-17A
618.74
MW-17B
MW-1
635.87
MW-2R
632.14
MW-6B
MW-6A
637.62
IW-6
MW-10A
622.18
MW-10
MW-23B
MW-23A
618.41
MW-13A
621.55
MW-13
MW-13B
MW-16
MW-11R
MW-15
MW-20
MW-21
P-7
MW-18
MW-14
MW-19
N
50 0 50 100
SCALE FEET
URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210
CLIENT: UNITED TECHNOLOGIES CORPORATION
LOCATION: 3200 MAIN STREET, KEOKUK, IOWA
TITLE: FILL GROUNDWATER ELEVATION CONTOUR MAP – JUNE 2011
DRAWN BY TMS
CHECKED BY CLA
APPROVED BY DAD
PROJECT NO. 16530531
DATE AUG. 2011
DRAWING NO. 1
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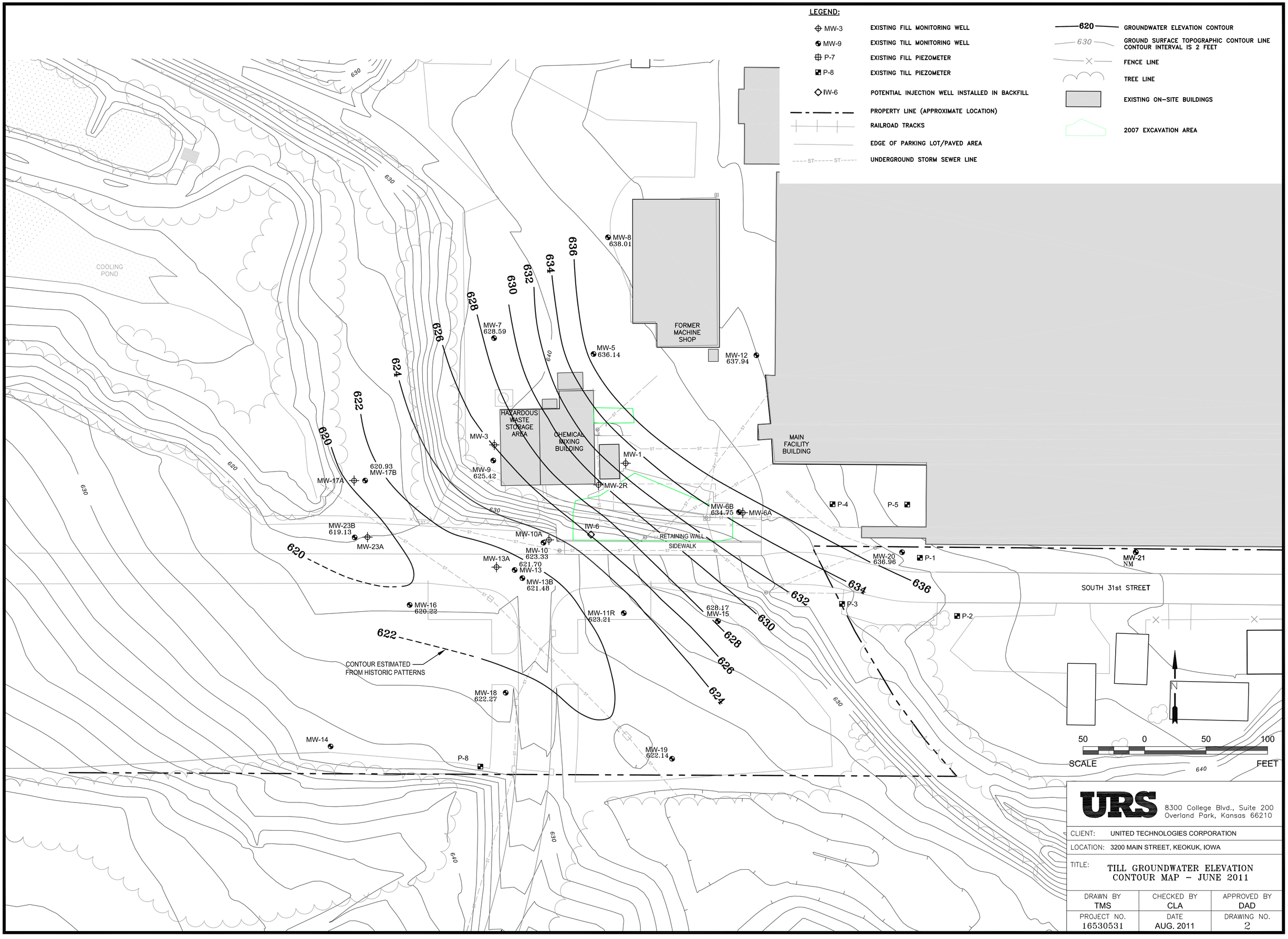

URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: TILL GROUNDWATER ELEVATION CONTOUR MAP – JUNE 2011

DRAWN BY	CHECKED BY	APPROVED BY
TMS	CLA	DAD
PROJECT NO.	DATE	DRAWING NO.
16530531	AUG. 2011	2

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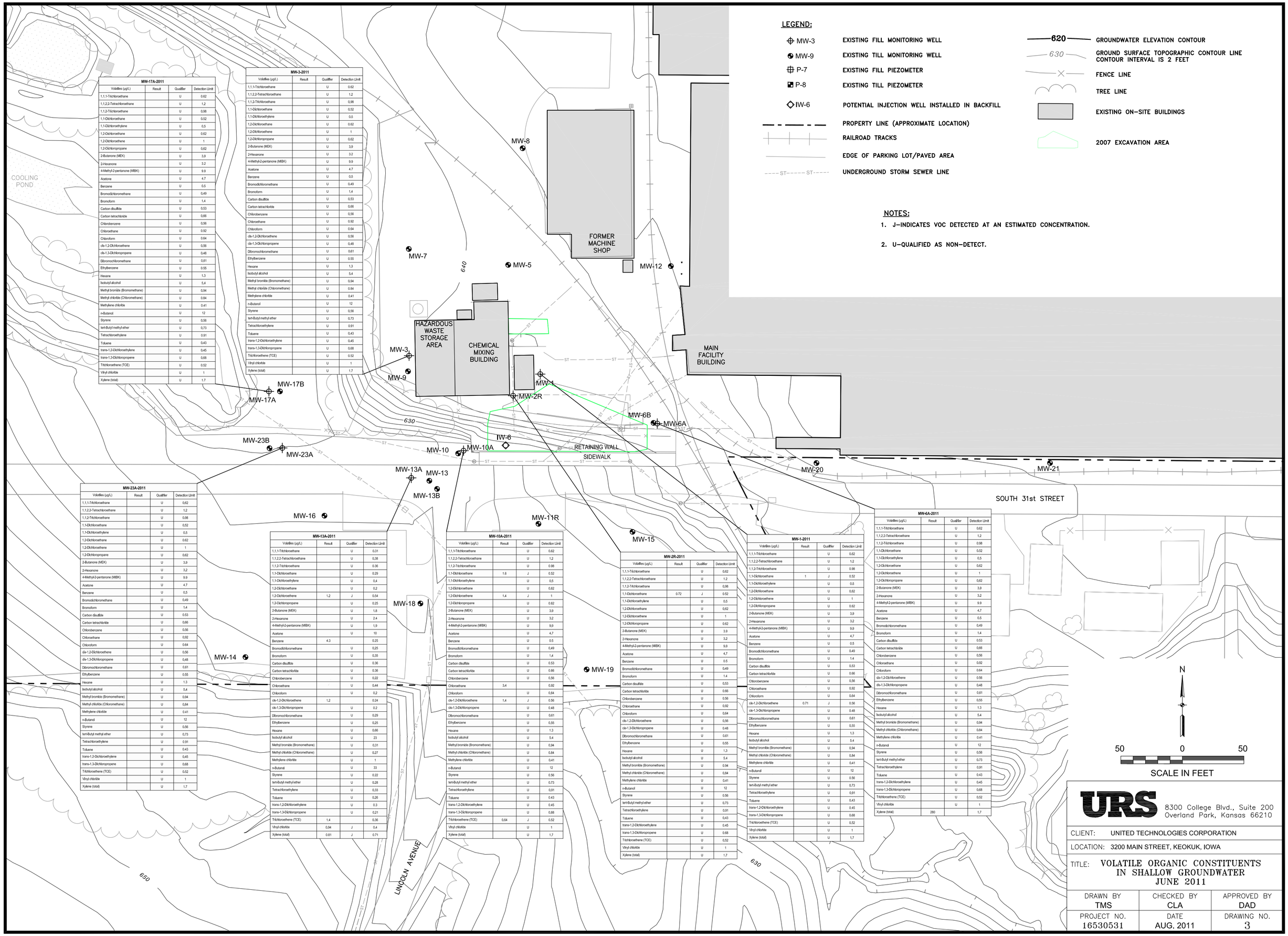


MW-17A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane		U	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene		U	1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform		U	0.64
cis-1,2-Dichloroethene		U	0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride		U	0.41
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene		U	0.91
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Xylene (total)		U	1.7

MW-3-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane		U	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene		U	1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform		U	0.64
cis-1,2-Dichloroethene		U	0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride		U	0.41
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene		U	0.91
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Xylene (total)		U	1.7

MW-23A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane		U	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene		U	1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform		U	0.64
cis-1,2-Dichloroethene		U	0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride		U	0.41
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene		U	0.91
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Xylene (total)		U	1.7

MW-13A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.31
1,1,2,2-Tetrachloroethane		U	0.38
1,1,2-Trichloroethane		U	0.36
1,1-Dichloroethane		U	0.29
1,1-Dichloroethylene		U	0.4
1,2-Dichloroethane		U	0.2
1,2-Dichloroethene	1.2	J	0.54
1,2-Dichloropropane		U	0.25
2-Butanone (MEK)		U	1.8
2-Hexanone		U	2.4
4-Methyl-2-pentanone (MIBK)		U	1.9
Acetone		U	10
Benzene	4.3		0.25
Bromodichloromethane		U	0.25
Bromoform		U	0.35
Carbon disulfide		U	0.36
Carbon tetrachloride		U	0.36
Chlorobenzene		U	0.22
Chloroethane		U	0.44
Chloroform		U	0.2
cis-1,2-Dichloroethene	1.2		0.24
cis-1,3-Dichloropropene		U	0.2
Dibromochloromethane		U	0.29
Ethylbenzene		U	0.25
Hexane		U	0.66
Isobutyl alcohol		U	23
Methyl bromide (Bromomethane)		U	0.31
Methyl chloride (Chloromethane)		U	0.27
Methylene chloride		U	1
n-Butanol		U	33
Styrene		U	0.22
tert-Butyl methyl ether		U	0.28
Tetrachloroethylene		U	0.33
Toluene		U	0.26
trans-1,2-Dichloroethylene		U	0.3
trans-1,3-Dichloropropene		U	0.21
Trichloroethene (TCE)	1.4		0.36
Vinyl chloride	0.94	J	0.4
Xylene (total)	0.81	J	0.71

MW-10A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane	1.6	J	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene	1.4	J	1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane	3.4		0.92
Chloroform		U	0.64
cis-1,2-Dichloroethene	1.4	J	0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride		U	0.41
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene		U	0.91
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)	0.64	J	0.52
Vinyl chloride		U	1
Xylene (total)		U	1.7

MW-2R-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane	0.72	J	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene		U	1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform		U	0.64
cis-1,2-Dichloroethene		U	0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride		U	0.41
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene		U	0.91
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Xylene (total)		U	1.7

MW-1-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane	1	J	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene		U	1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform		U	0.64
cis-1,2-Dichloroethene	0.71	J	0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride		U	0.41
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene		U	0.91
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Xylene (total)		U	1.7

MW-6A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane		U	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene		U	1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform		U	0.64
cis-1,2-Dichloroethene		U	0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride		U	0.41
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene		U	0.91
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Xylene (total)	280		1.7

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

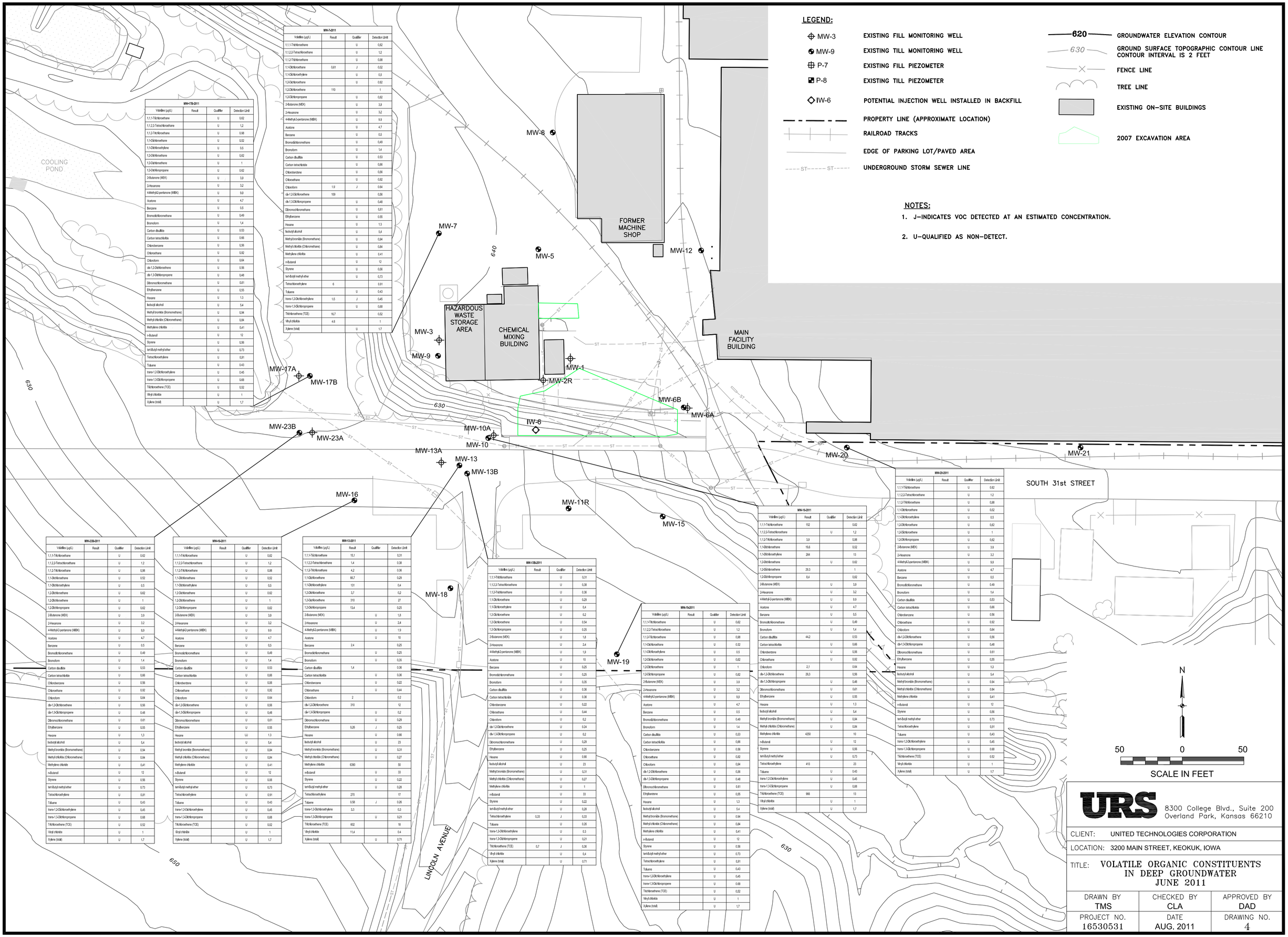
CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: VOLATILE ORGANIC CONSTITUENTS IN SHALLOW GROUNDWATER JUNE 2011

DRAWN BY	CHECKED BY	APPROVED BY
TMS	CLA	DAD
PROJECT NO. 16530531	DATE AUG. 2011	DRAWING NO. 3

August 11, 2011 2:02:39 pm (mik)
J:\3200 Main Street\16529904\August 2011\3.dwg



MW-7-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane	0.61	J	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene	110		1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform	1.9	J	0.64
cis-1,2-Dichloroethene	109		0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride		U	0.41
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene	6		0.91
Toluene		U	0.43
trans-1,2-Dichloroethylene	1.5	J	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)	16.7		0.52
Vinyl chloride	4.6		1
Xylene (total)		U	1.7

MW-17B-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane		U	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene		U	1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform		U	0.64
cis-1,2-Dichloroethene		U	0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride		U	0.41
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene		U	0.91
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Xylene (total)		U	1.7

MW-23B-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane		U	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene		U	1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform		U	0.64
cis-1,2-Dichloroethene		U	0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride		U	0.41
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene		U	0.91
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Xylene (total)		U	1.7

MW-16-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane		U	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene		U	1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform		U	0.64
cis-1,2-Dichloroethene		U	0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride		U	0.41
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene		U	0.91
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Xylene (total)		U	1.7

MW-13-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane	15.1		0.31
1,1,2,2-Tetrachloroethane	1.4		0.38
1,1,2-Trichloroethane	4.2		0.36
1,1-Dichloroethane	66.7		0.29
1,1-Dichloroethylene	131		0.4
1,2-Dichloroethane	3.7		0.2
1,2-Dichloroethene	310		27
1,2-Dichloropropane	13.4		0.25
2-Butanone (MEK)		U	1.8
2-Hexanone		U	2.4
4-Methyl-2-pentanone (MIBK)		U	1.9
Acetone		U	10
Benzene	2.4		0.25
Bromodichloromethane		U	0.25
Bromoform		U	0.35
Carbon disulfide	1.4		0.36
Carbon tetrachloride		U	0.36
Chlorobenzene		U	0.22
Chloroethane		U	0.44
Chloroform	2		0.2
cis-1,2-Dichloroethene	310		12
cis-1,3-Dichloropropene		U	0.2
Dibromochloromethane		U	0.29
Ethylbenzene	0.26	J	0.25
Hexane		U	0.66
Isobutyl alcohol		U	23
Methyl bromide (Bromomethane)		U	0.31
Methyl chloride (Chloromethane)		U	0.27
Methylene chloride	6360		50
n-Butanol		U	33
Styrene		U	0.22
tert-Butyl methyl ether		U	0.28
Tetrachloroethylene	270		17
Toluene	0.58	J	0.26
trans-1,2-Dichloroethylene	3.3		0.3
trans-1,3-Dichloropropene		U	0.21
Trichloroethene (TCE)	602		18
Vinyl chloride	11.4		0.4
Xylene (total)		U	0.71

MW-13B-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.31
1,1,2,2-Tetrachloroethane		U	0.38
1,1,2-Trichloroethane		U	0.36
1,1-Dichloroethane		U	0.29
1,1-Dichloroethylene		U	0.4
1,2-Dichloroethane		U	0.2
1,2-Dichloroethene		U	0.54
1,2-Dichloropropane		U	0.25
2-Butanone (MEK)		U	1.8
2-Hexanone		U	2.4
4-Methyl-2-pentanone (MIBK)		U	1.9
Acetone		U	10
Benzene		U	0.25
Bromodichloromethane		U	0.25
Bromoform		U	0.35
Carbon disulfide		U	0.36
Carbon tetrachloride		U	0.36
Chlorobenzene		U	0.22
Chloroethane		U	0.44
Chloroform		U	0.2
cis-1,2-Dichloroethene		U	0.24
cis-1,3-Dichloropropene		U	0.2
Dibromochloromethane		U	0.29
Ethylbenzene		U	0.25
Hexane		U	0.66
Isobutyl alcohol		U	23
Methyl bromide (Bromomethane)		U	0.31
Methyl chloride (Chloromethane)		U	0.27
Methylene chloride		U	1
n-Butanol		U	33
Styrene		U	0.22
tert-Butyl methyl ether		U	0.28
Tetrachloroethylene	0.33	J	0.33
Toluene		U	0.26
trans-1,2-Dichloroethylene		U	0.3
trans-1,3-Dichloropropene		U	0.21
Trichloroethene (TCE)	0.7	J	0.36
Vinyl chloride		U	0.4
Xylene (total)		U	0.71

MW-19-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane		U	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene		U	1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform	2.1		0.64
cis-1,2-Dichloroethene	29.3		0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride	4250		10
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene	413		23
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)	966		13
Vinyl chloride		U	1
Xylene (total)		U	1.7

MW-10-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane	152		0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane	3.9		0.98
1,1-Dichloroethane	19.6		0.52
1,1-Dichloroethylene	264		13
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene	29.3		1
1,2-Dichloropropane	8.4		0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide	44.2		0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform	2.1		0.64
cis-1,2-Dichloroethene	29.3		0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride	4250		10
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene	413		23
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)	966		13
Vinyl chloride		U	1
Xylene (total)		U	1.7

MW-20-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
1,1,1-Trichloroethane		U	0.62
1,1,2,2-Tetrachloroethane		U	1.2
1,1,2-Trichloroethane		U	0.98
1,1-Dichloroethane		U	0.52
1,1-Dichloroethylene		U	0.5
1,2-Dichloroethane		U	0.62
1,2-Dichloroethene		U	1
1,2-Dichloropropane		U	0.62
2-Butanone (MEK)		U	3.9
2-Hexanone		U	3.2
4-Methyl-2-pentanone (MIBK)		U	9.9
Acetone		U	4.7
Benzene		U	0.5
Bromodichloromethane		U	0.49
Bromoform		U	1.4
Carbon disulfide		U	0.53
Carbon tetrachloride		U	0.66
Chlorobenzene		U	0.56
Chloroethane		U	0.92
Chloroform		U	0.64
cis-1,2-Dichloroethene		U	0.56
cis-1,3-Dichloropropene		U	0.48
Dibromochloromethane		U	0.61
Ethylbenzene		U	0.55
Hexane		U	1.3
Isobutyl alcohol		U	5.4
Methyl bromide (Bromomethane)		U	0.94
Methyl chloride (Chloromethane)		U	0.84
Methylene chloride		U	0.41
n-Butanol		U	12
Styrene		U	0.56
tert-Butyl methyl ether		U	0.73
Tetrachloroethylene		U	0.91
Toluene		U	0.43
trans-1,2-Dichloroethylene		U	0.45
trans-1,3-Dichloropropene		U	0.68
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Xylene (total)		U	1.7

URS 8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: VOLATILE ORGANIC CONSTITUENTS IN DEEP GROUNDWATER JUNE 2011

DRAWN BY	CHECKED BY	APPROVED BY
TMS	CLA	DAD
PROJECT NO. 16530531	DATE AUG. 2011	DRAWING NO. 4

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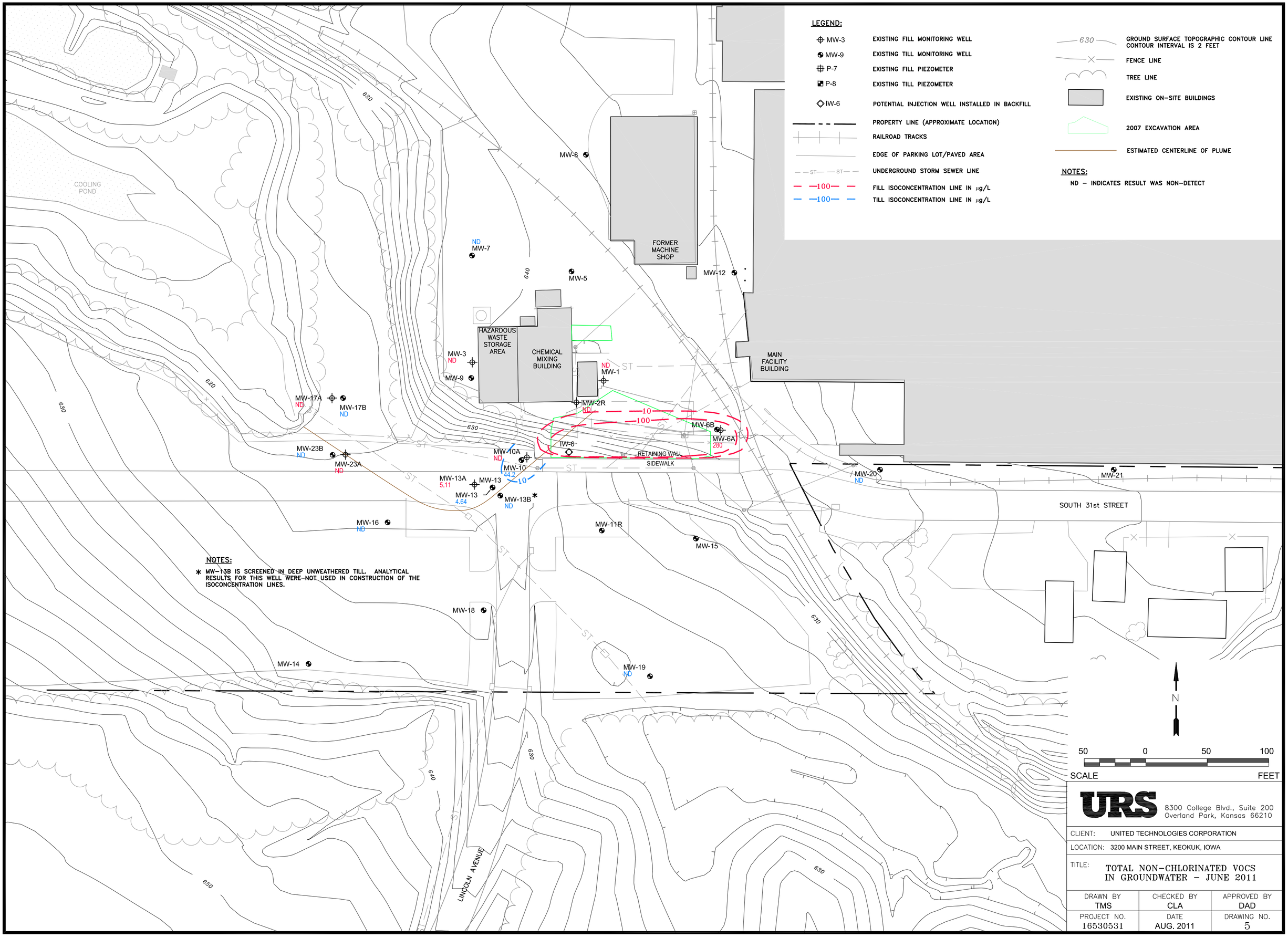

URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: TOTAL NON-CHLORINATED VOCS IN GROUNDWATER – JUNE 2011

DRAWN BY	CHECKED BY	APPROVED BY
TMS	CLA	DAD
PROJECT NO.	DATE	DRAWING NO.
16530531	AUG. 2011	5

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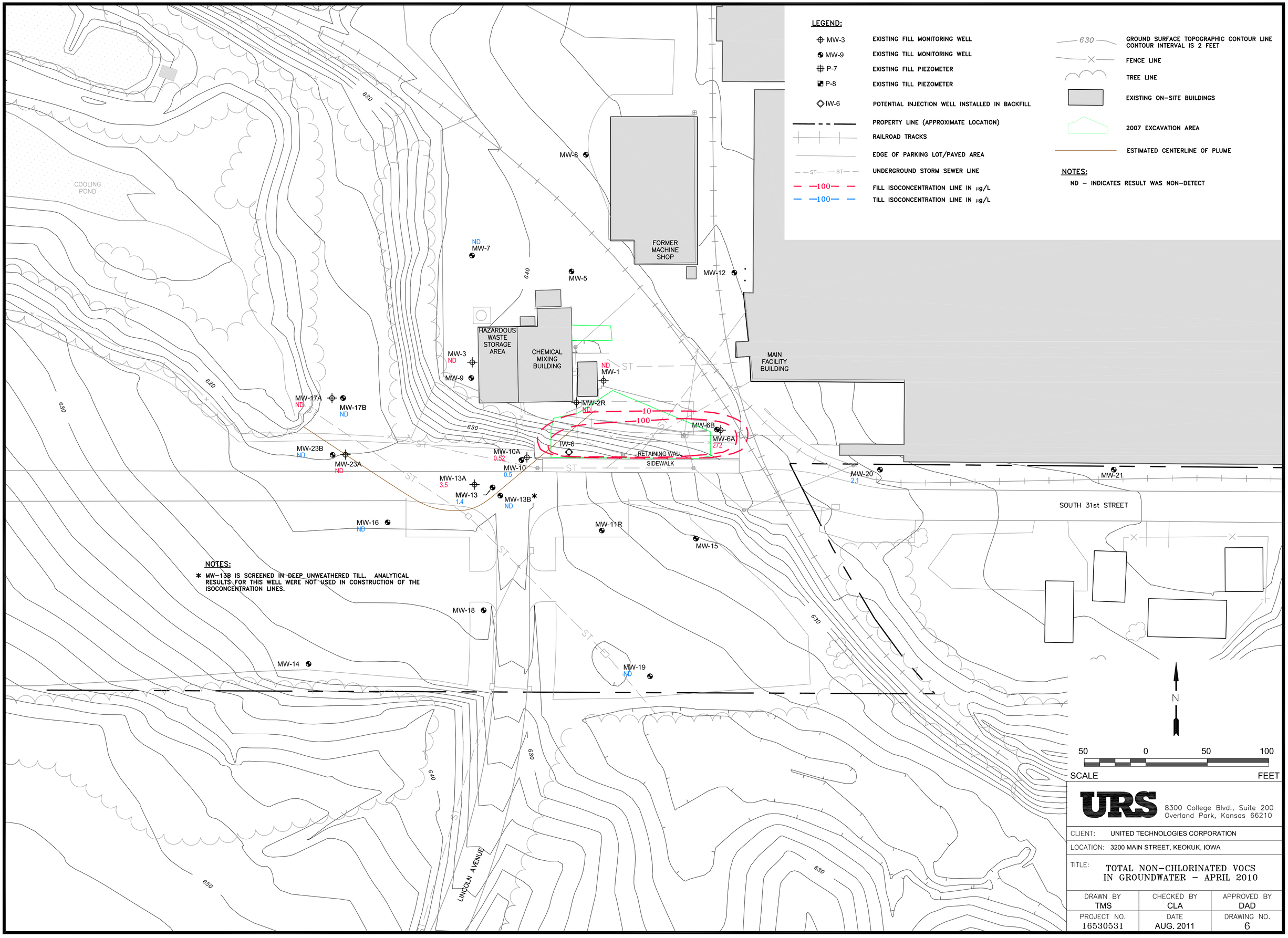

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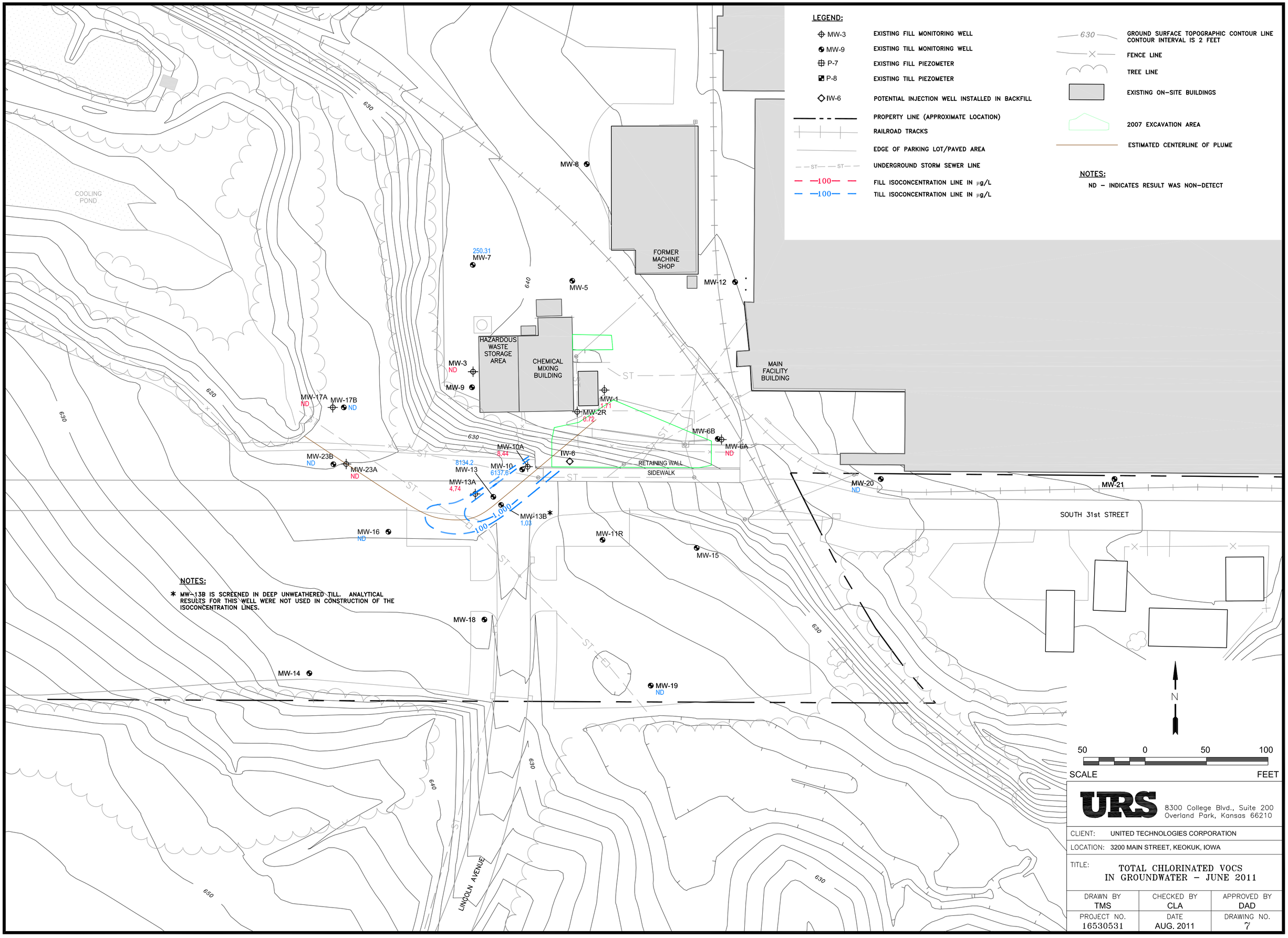

URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: TOTAL CHLORINATED VOCS IN GROUNDWATER – JUNE 2011

DRAWN BY	CHECKED BY	APPROVED BY
TMS	CLA	DAD
PROJECT NO.	DATE	DRAWING NO.
16530531	AUG. 2011	7

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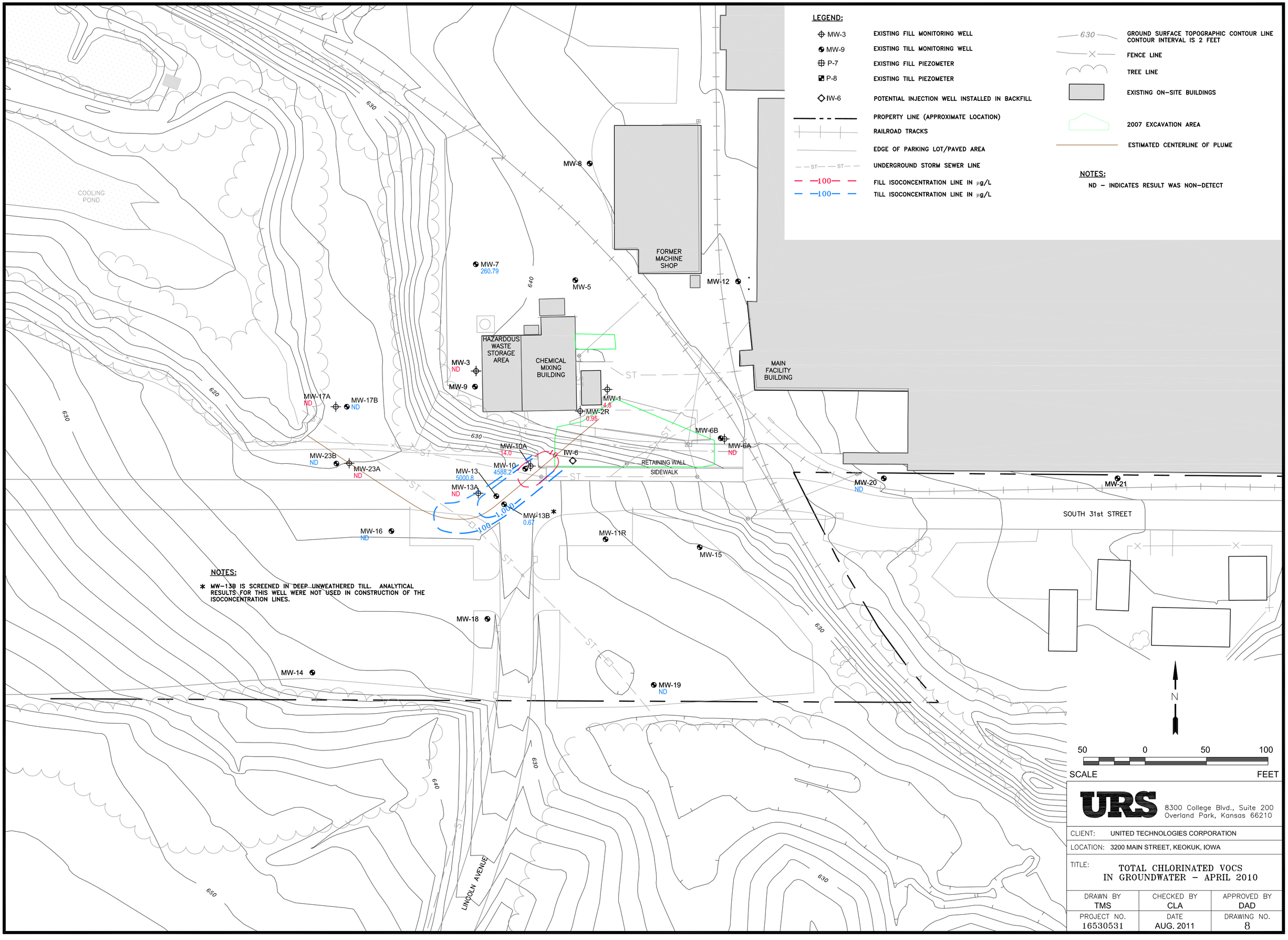

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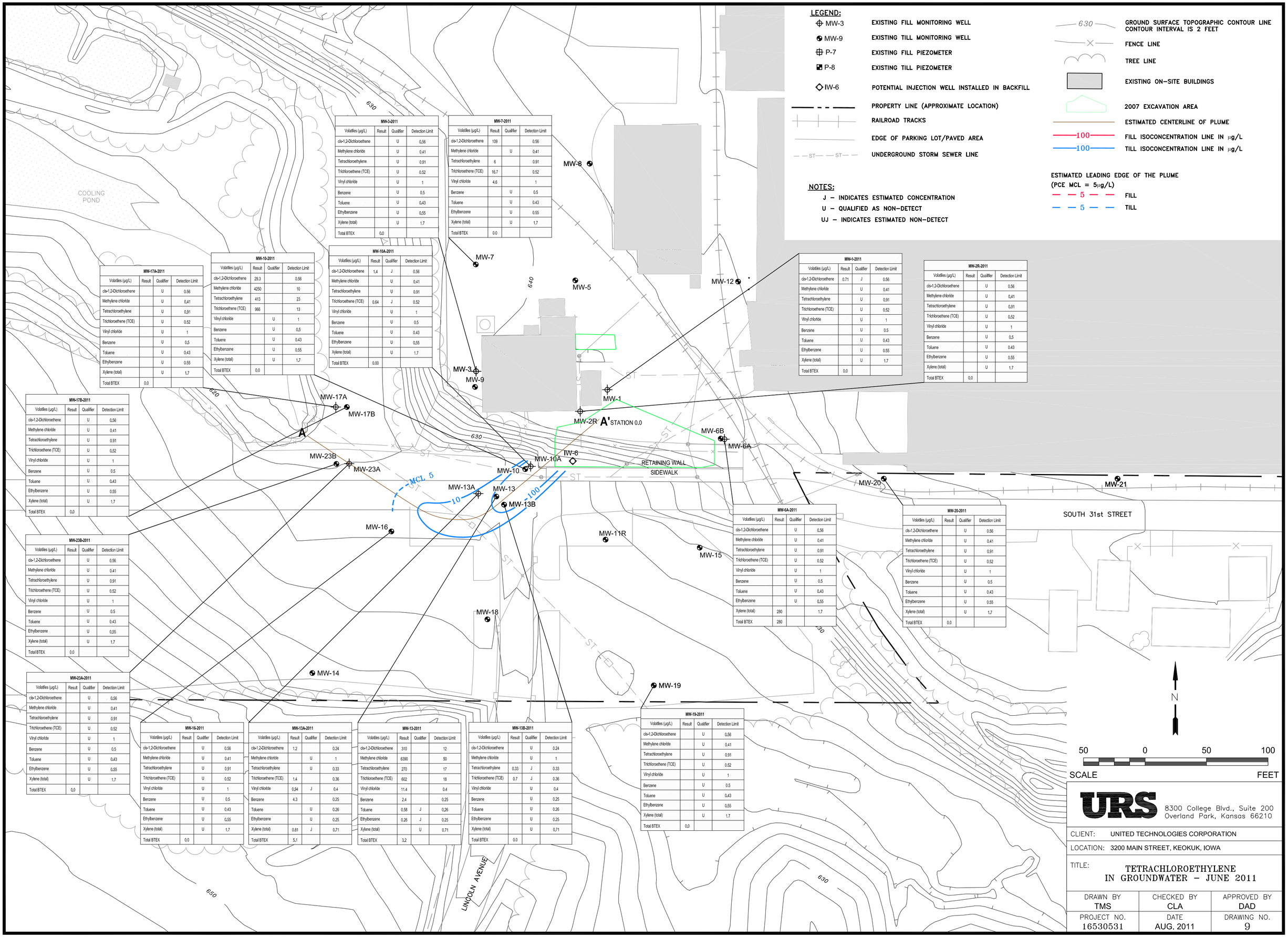

LEGEND:

- MW-3 — EXISTING FILL MONITORING WELL
- MW-9 — EXISTING TILL MONITORING WELL
- P-7 — EXISTING FILL PIEZOMETER
- P-8 — EXISTING TILL PIEZOMETER
- IW-6 — POTENTIAL INJECTION WELL INSTALLED IN BACKFILL
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST — ST — UNDERGROUND STORM SEWER LINE
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON-SITE BUILDINGS
- 2007 EXCAVATION AREA
- ESTIMATED CENTERLINE OF PLUME
- 100 — FILL ISOCONCENTRATION LINE IN µg/L
- 100 — TILL ISOCONCENTRATION LINE IN µg/L

ESTIMATED LEADING EDGE OF THE PLUME (PCE MCL = 5µg/L)

- 5 — FILL
- 5 — TILL

NOTES:

J – INDICATES ESTIMATED CONCENTRATION
U – QUALIFIED AS NON-DETECT
UJ – INDICATES ESTIMATED NON-DETECT

MW-3-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-7-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	109		0.56
Methylene chloride		U	0.41
Tetrachloroethylene	6		0.91
Trichloroethene (TCE)	16.7		0.52
Vinyl chloride	4.6		1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-17A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-10-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	29.3		0.56
Methylene chloride	4250		10
Tetrachloroethylene	413		23
Trichloroethene (TCE)	966		13
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-10A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1.4	J	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)	0.64	J	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.00		

MW-1-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	0.71	J	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-2R-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-17B-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-23B-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-23A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-16-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-13A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1.2		0.24
Methylene chloride		U	1
Tetrachloroethylene		U	0.33
Trichloroethene (TCE)	1.4		0.36
Vinyl chloride	0.94	J	0.4
Benzene	4.3		0.25
Toluene		U	0.26
Ethylbenzene		U	0.25
Xylene (total)	0.81	J	0.71
Total BTEX	5.1		

MW-13-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	310		12
Methylene chloride	6390		50
Tetrachloroethylene	270		17
Trichloroethene (TCE)	602		18
Vinyl chloride	11.4		0.4
Benzene	2.4		0.25
Toluene	0.58	J	0.26
Ethylbenzene	0.26	J	0.25
Xylene (total)		U	0.71
Total BTEX	3.2		

MW-13B-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.24
Methylene chloride		U	1
Tetrachloroethylene	0.33	J	0.33
Trichloroethene (TCE)	0.7	J	0.36
Vinyl chloride		U	0.4
Benzene		U	0.25
Toluene		U	0.26
Ethylbenzene		U	0.25
Xylene (total)		U	0.71
Total BTEX	0.0		

MW-19-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-6A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)	280		1.7
Total BTEX	280		

MW-20-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

August 11, 2011 2:09:33 pm (mik)
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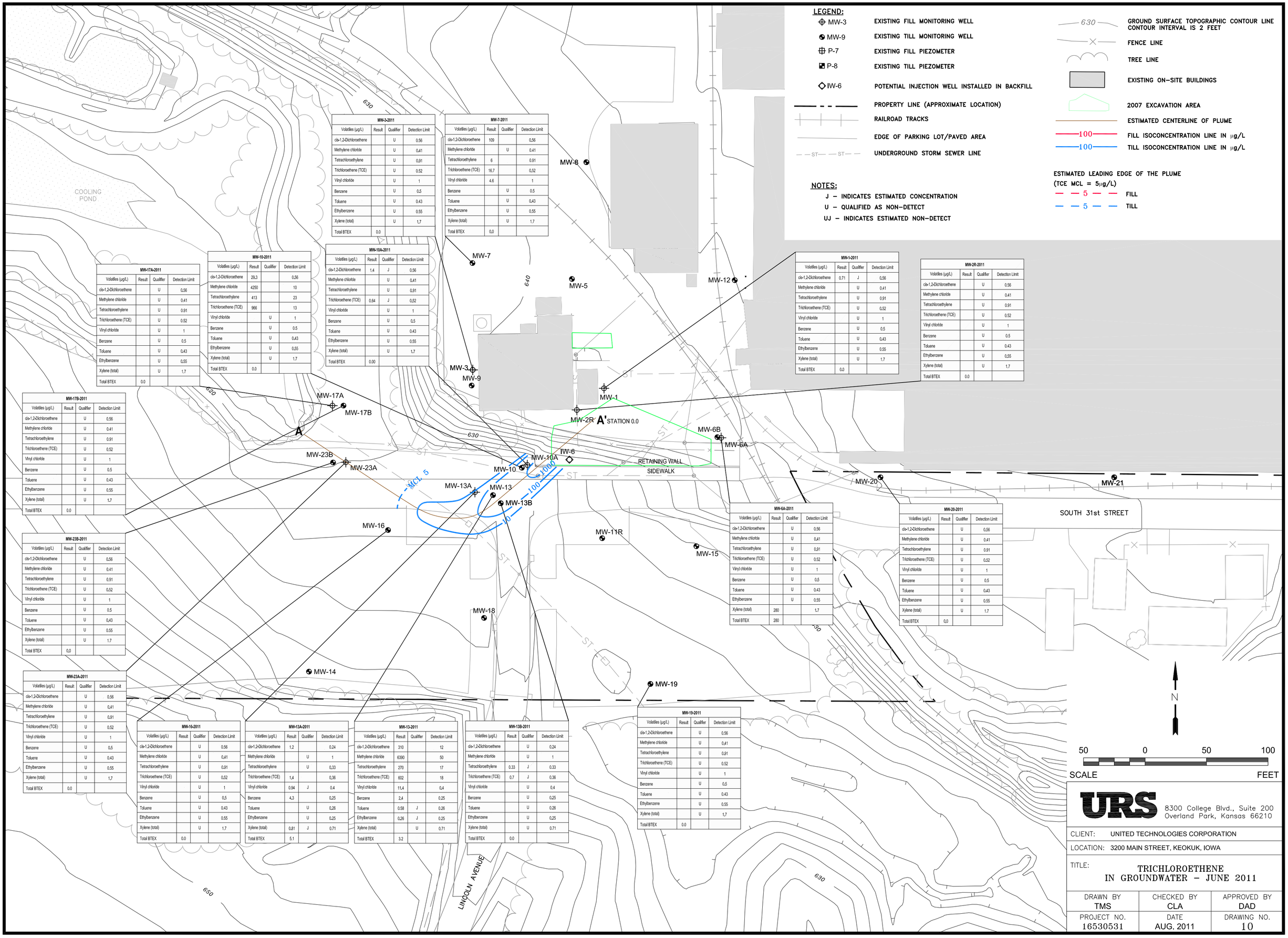
URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: TETRACHLOROETHYLENE IN GROUNDWATER – JUNE 2011

DRAWN BY	CHECKED BY	APPROVED BY
TMS	CLA	DAD
PROJECT NO.	DATE	DRAWING NO.
16530531	AUG. 2011	9



LEGEND:

- MW-3 — EXISTING FILL MONITORING WELL
- MW-9 — EXISTING TILL MONITORING WELL
- P-7 — EXISTING FILL PIEZOMETER
- P-8 — EXISTING TILL PIEZOMETER
- IW-6 — POTENTIAL INJECTION WELL INSTALLED IN BACKFILL
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST — ST — UNDERGROUND STORM SEWER LINE
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON-SITE BUILDINGS
- 2007 EXCAVATION AREA
- ESTIMATED CENTERLINE OF PLUME
- 100 — FILL ISOCONCENTRATION LINE IN µg/L
- 100 — TILL ISOCONCENTRATION LINE IN µg/L

ESTIMATED LEADING EDGE OF THE PLUME
(TCE MCL = 5µg/L)

- 5 — FILL
- 5 — TILL

NOTES:

J – INDICATES ESTIMATED CONCENTRATION
U – QUALIFIED AS NON-DETECT
UJ – INDICATES ESTIMATED NON-DETECT

MW-3-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-7-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	109		0.56
Methylene chloride		U	0.41
Tetrachloroethylene	6		0.91
Trichloroethene (TCE)	16.7		0.52
Vinyl chloride	4.6		1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-17A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-10-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	29.3		0.56
Methylene chloride	4250		10
Tetrachloroethylene	413		23
Trichloroethene (TCE)	966		13
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-10A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1.4	J	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)	0.64	J	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.00		

MW-1-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	0.71	J	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-2R-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-17B-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-23B-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-23A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-16-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-13A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1.2		0.24
Methylene chloride		U	1
Tetrachloroethylene		U	0.33
Trichloroethene (TCE)	1.4		0.36
Vinyl chloride	0.94	J	0.4
Benzene	4.3		0.25
Toluene		U	0.26
Ethylbenzene		U	0.25
Xylene (total)	0.81	J	0.71
Total BTEX	5.1		

MW-13-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	310		12
Methylene chloride	6390		50
Tetrachloroethylene	270		17
Trichloroethene (TCE)	602		18
Vinyl chloride	11.4		0.4
Benzene	2.4		0.25
Toluene	0.58	J	0.26
Ethylbenzene	0.26	J	0.25
Xylene (total)		U	0.71
Total BTEX	3.2		

MW-13B-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.24
Methylene chloride		U	1
Tetrachloroethylene	0.33	J	0.33
Trichloroethene (TCE)	0.7	J	0.36
Vinyl chloride		U	0.4
Benzene		U	0.25
Toluene		U	0.26
Ethylbenzene		U	0.25
Xylene (total)		U	0.71
Total BTEX	0.0		

MW-6A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)	280		1.7
Total BTEX	280		

MW-20-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-19-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: TRICHLOROETHENE IN GROUNDWATER – JUNE 2011

DRAWN BY	CHECKED BY	APPROVED BY
TMS	CLA	DAD
PROJECT NO.	DATE	DRAWING NO.
16530531	AUG. 2011	10

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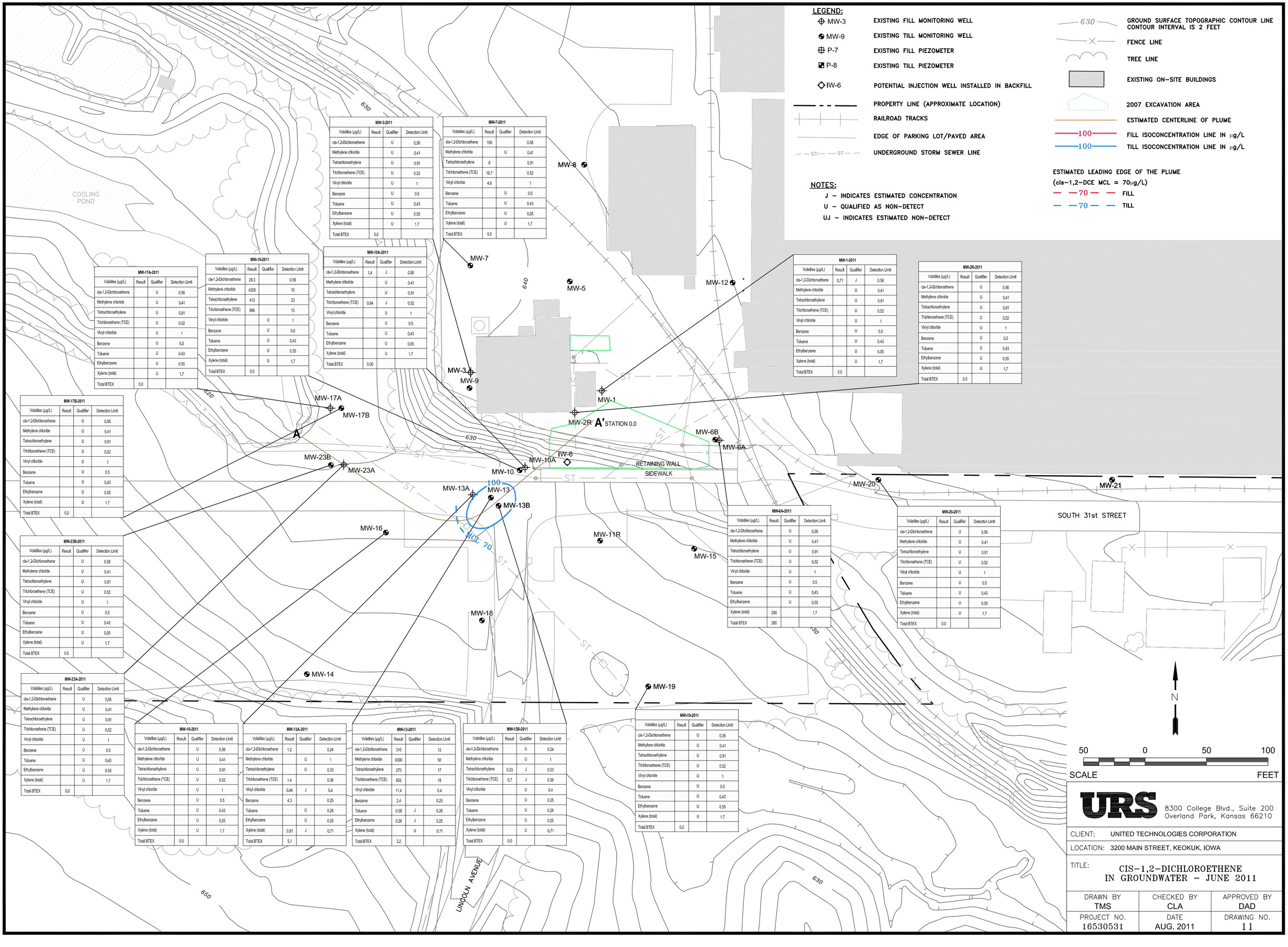

MW-3-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0,56
Methylene chloride		U	0,41
Tetrachloroethylene		U	0,91
Trichloroethene (TCE)		U	0,52
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,0		

MW-7-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	109		0,56
Methylene chloride		U	0,41
Tetrachloroethylene	6		0,91
Trichloroethene (TCE)	16,7		0,52
Vinyl chloride	4,6		1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,0		

MW-17A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0,56
Methylene chloride		U	0,41
Tetrachloroethylene		U	0,91
Trichloroethene (TCE)		U	0,52
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,0		

MW-10-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	29,3		0,56
Methylene chloride	4250		10
Tetrachloroethylene	413		23
Trichloroethene (TCE)	966		13
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,0		

MW-10A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1,4	J	0,56
Methylene chloride		U	0,41
Tetrachloroethylene		U	0,91
Trichloroethene (TCE)	0,64	J	0,52
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,00		

MW-1-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	0,71	J	0,56
Methylene chloride		U	0,41
Tetrachloroethylene		U	0,91
Trichloroethene (TCE)		U	0,52
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,0		

MW-2R-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0,56
Methylene chloride		U	0,41
Tetrachloroethylene		U	0,91
Trichloroethene (TCE)		U	0,52
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,0		

MW-17B-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0,56
Methylene chloride		U	0,41
Tetrachloroethylene		U	0,91
Trichloroethene (TCE)		U	0,52
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,0		

MW-23B-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0,56
Methylene chloride		U	0,41
Tetrachloroethylene		U	0,91
Trichloroethene (TCE)		U	0,52
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,0		

MW-23A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0,56
Methylene chloride		U	0,41
Tetrachloroethylene		U	0,91
Trichloroethene (TCE)		U	0,52
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,0		

MW-16-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0,56
Methylene chloride		U	0,41
Tetrachloroethylene		U	0,91
Trichloroethene (TCE)		U	0,52
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,0		

MW-13A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1,2		0,24
Methylene chloride		U	1
Tetrachloroethylene		U	0,33
Trichloroethene (TCE)	1,4		0,36
Vinyl chloride	0,94	J	0,4
Benzene	4,3		0,25
Toluene		U	0,26
Ethylbenzene		U	0,25
Xylene (total)	0,81	J	0,71
Total BTEX	5,1		

MW-13-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	310		12
Methylene chloride	6390		50
Tetrachloroethylene	270		17
Trichloroethene (TCE)	602		18
Vinyl chloride	11,4		0,4
Benzene	2,4		0,25
Toluene	0,58	J	0,26
Ethylbenzene	0,26	J	0,25
Xylene (total)		U	0,71
Total BTEX	3,2		

MW-13B-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0,24
Methylene chloride		U	1
Tetrachloroethylene	0,33	J	0,33
Trichloroethene (TCE)	0,7	J	0,36
Vinyl chloride		U	0,4
Benzene		U	0,25
Toluene		U	0,26
Ethylbenzene		U	0,25
Xylene (total)		U	0,71
Total BTEX	0,0		

MW-6A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0,56
Methylene chloride		U	0,41
Tetrachloroethylene		U	0,91
Trichloroethene (TCE)		U	0,52
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)	280		1,7
Total BTEX	280		

MW-20-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0,56
Methylene chloride		U	0,41
Tetrachloroethylene		U	0,91
Trichloroethene (TCE)		U	0,52
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,0		

MW-19-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0,56
Methylene chloride		U	0,41
Tetrachloroethylene		U	0,91
Trichloroethene (TCE)		U	0,52
Vinyl chloride		U	1
Benzene		U	0,5
Toluene		U	0,43
Ethylbenzene		U	0,55
Xylene (total)		U	1,7
Total BTEX	0,0		

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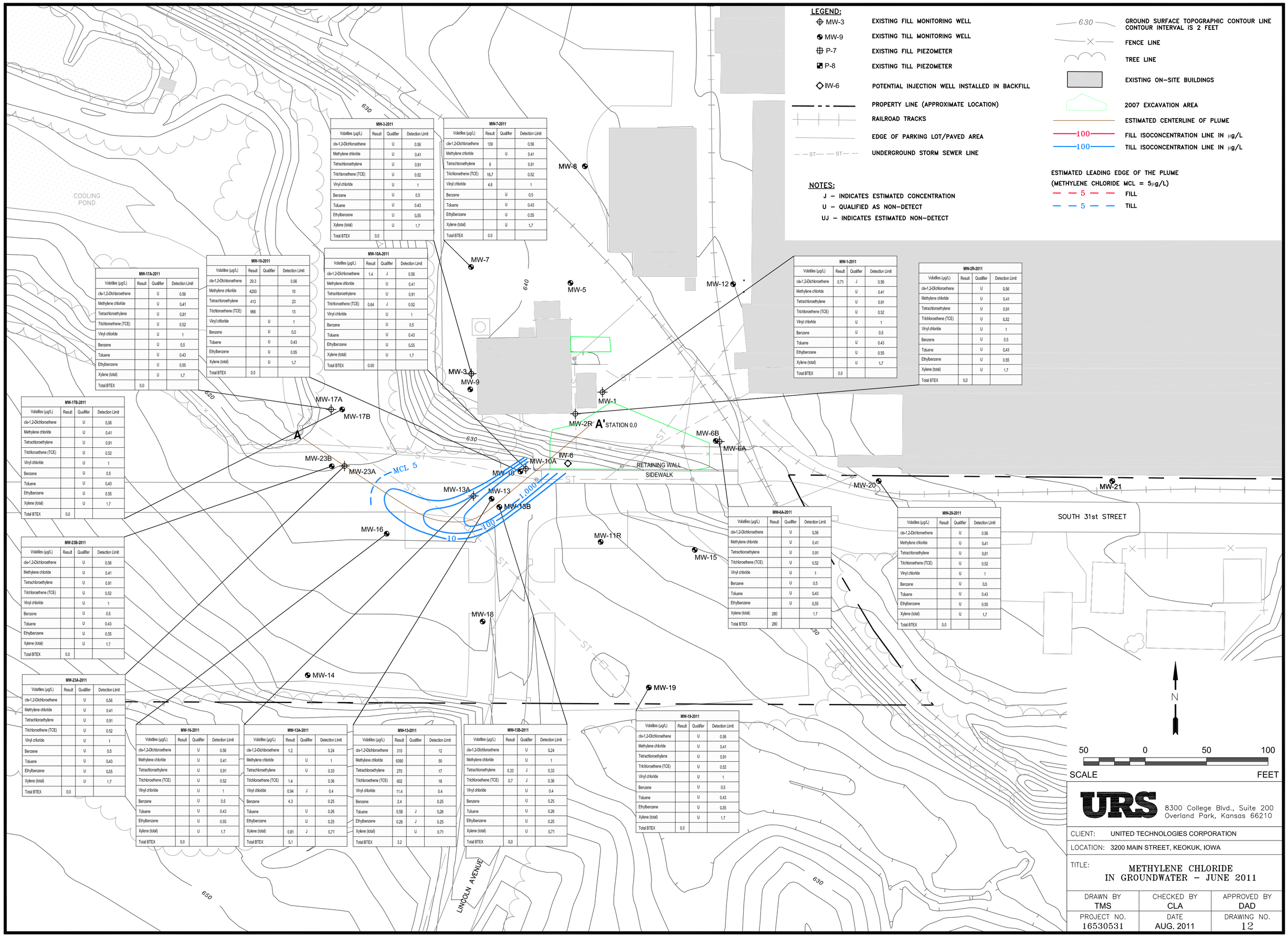

MW-3-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-7-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	109		0.56
Methylene chloride		U	0.41
Tetrachloroethylene	6		0.91
Trichloroethene (TCE)	16.7		0.52
Vinyl chloride	4.6		1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-17A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-10-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	29.3		0.56
Methylene chloride	4250		10
Tetrachloroethylene	413		23
Trichloroethene (TCE)	966		13
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-10A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1.4	J	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)	0.64	J	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.00		

MW-1-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	0.71	J	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-2R-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-17B-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-23B-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-23A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-16-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-13A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection LImit
cis-1,2-Dichloroethene	1.2		0.24
Methylene chloride		U	1
Tetrachloroethylene		U	0.33
Trichloroethene (TCE)	1.4		0.36
Vinyl chloride	0.94	J	0.4
Benzene	4.3		0.25
Toluene		U	0.26
Ethylbenzene		U	0.25
Xylene (total)	0.81	J	0.71
Total BTEX	5.1		

MW-13-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	310		12
Methylene chloride	6390		50
Tetrachloroethylene	270		17
Trichloroethene (TCE)	602		18
Vinyl chloride	11.4		0.4
Benzene	2.4		0.25
Toluene	0.58	J	0.26
Ethylbenzene	0.26	J	0.25
Xylene (total)		U	0.71
Total BTEX	3.2		

MW-13B-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.24
Methylene chloride		U	1
Tetrachloroethylene	0.33	J	0.33
Trichloroethene (TCE)	0.7	J	0.36
Vinyl chloride		U	0.4
Benzene		U	0.25
Toluene		U	0.26
Ethylbenzene		U	0.25
Xylene (total)		U	0.71
Total BTEX	0.0		

MW-6A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)	280		1.7
Total BTEX	280		

MW-20-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-19-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: METHYLENE CHLORIDE IN GROUNDWATER – JUNE 2011

DRAWN BY	CHECKED BY	APPROVED BY
TMS	CLA	DAD
PROJECT NO.	DATE	DRAWING NO.
16530531	AUG. 2011	12

August 11, 2011 2:11:44 pm (mik)
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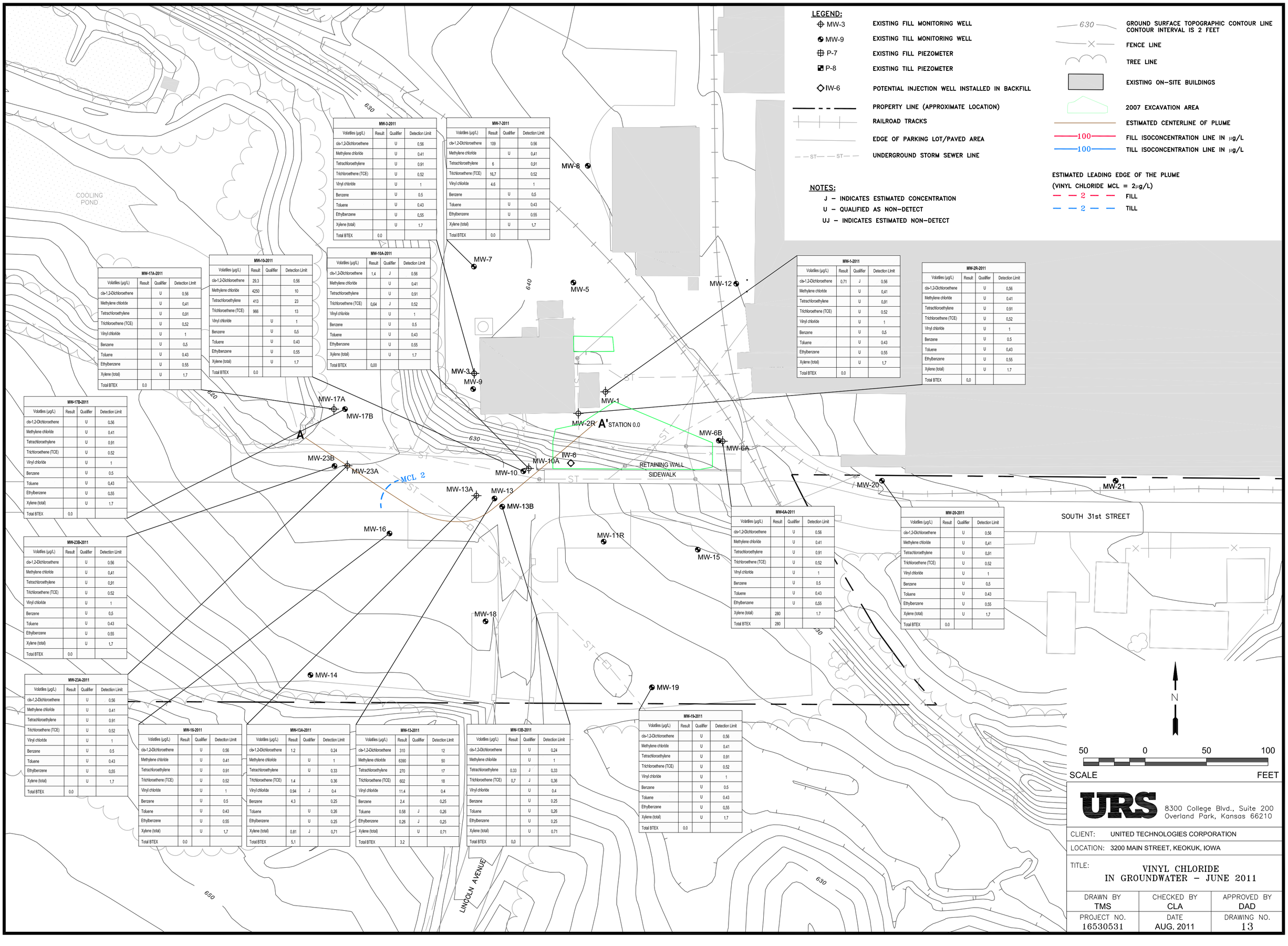

MW-3-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-7-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	109		0.56
Methylene chloride		U	0.41
Tetrachloroethylene	6		0.91
Trichloroethene (TCE)	16.7		0.52
Vinyl chloride	4.6		1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-17A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-10-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	29.3		0.56
Methylene chloride	4250		10
Tetrachloroethylene	413		23
Trichloroethene (TCE)	966		13
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-10A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1.4	J	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)	0.64	J	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.00		

MW-1-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	0.71	J	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-2R-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-17B-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-23B-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-23A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-16-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-13A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1.2		0.24
Methylene chloride		U	1
Tetrachloroethylene		U	0.33
Trichloroethene (TCE)	1.4		0.36
Vinyl chloride	0.94	J	0.4
Benzene	4.3		0.25
Toluene		U	0.26
Ethylbenzene		U	0.25
Xylene (total)	0.81	J	0.71
Total BTEX	5.1		

MW-13-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	310		12
Methylene chloride	6390		50
Tetrachloroethylene	270		17
Trichloroethene (TCE)	602		18
Vinyl chloride	11.4		0.4
Benzene	2.4		0.25
Toluene	0.58	J	0.26
Ethylbenzene	0.26	J	0.25
Xylene (total)		U	0.71
Total BTEX	3.2		

MW-13B-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.24
Methylene chloride		U	1
Tetrachloroethylene	0.33	J	0.33
Trichloroethene (TCE)	0.7	J	0.36
Vinyl chloride		U	0.4
Benzene		U	0.25
Toluene		U	0.26
Ethylbenzene		U	0.25
Xylene (total)		U	0.71
Total BTEX	0.0		

MW-19-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-6A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)	280		1.7
Total BTEX	280		

MW-20-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: VINYL CHLORIDE IN GROUNDWATER – JUNE 2011

DRAWN BY	CHECKED BY	APPROVED BY
TMS	CLA	DAD
PROJECT NO.	DATE	DRAWING NO.
16530531	AUG. 2011	13

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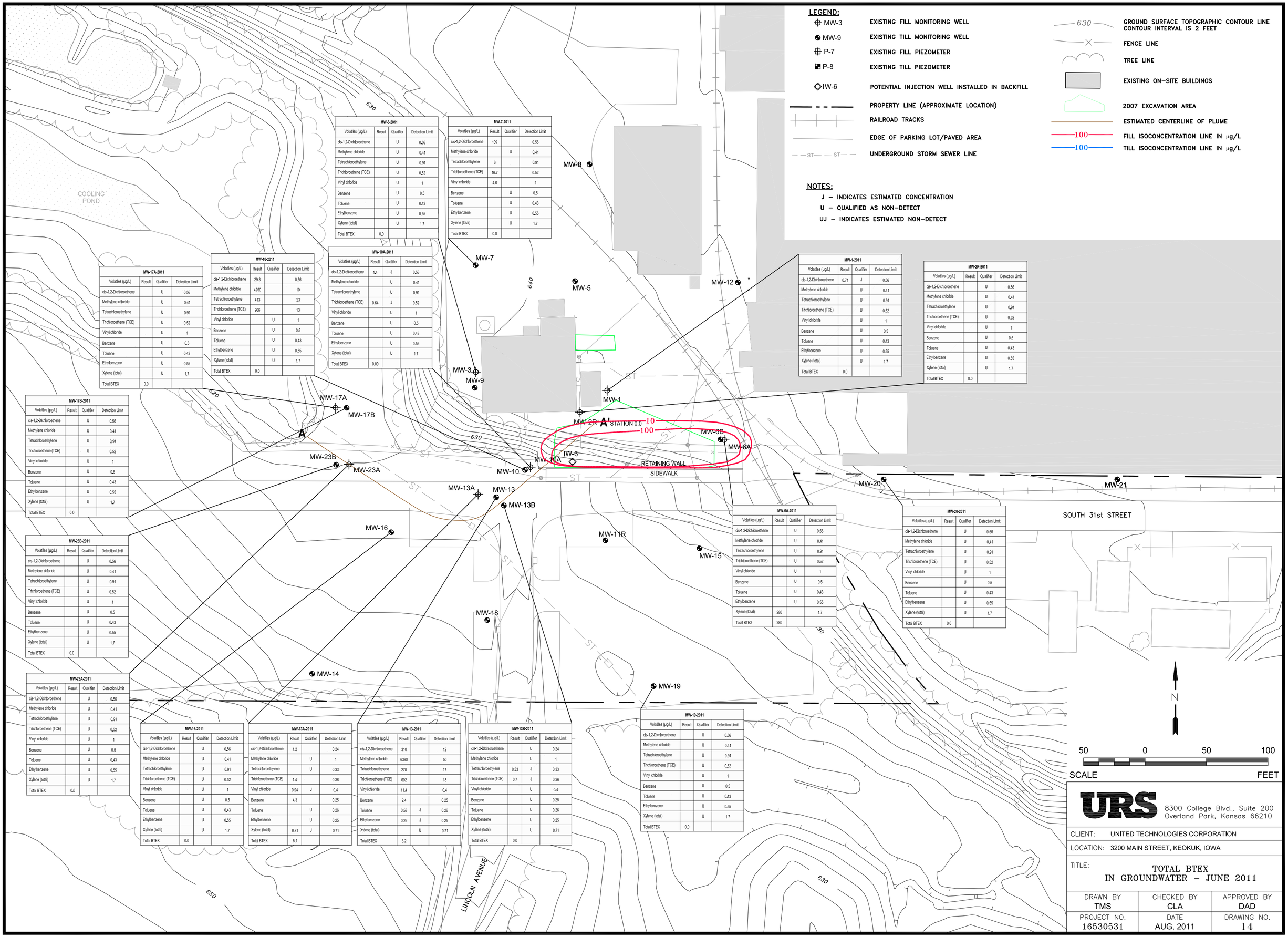


MW-3-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-7-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	109		0.56
Methylene chloride		U	0.41
Tetrachloroethylene	6		0.91
Trichloroethene (TCE)	16.7		0.52
Vinyl chloride	4.6		1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-17A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-19-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	29.3		0.56
Methylene chloride	4250		10
Tetrachloroethylene	413		23
Trichloroethene (TCE)	966		13
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-10A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1.4	J	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)	0.64	J	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.00		

MW-1-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	0.71	J	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-2R-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-17B-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-23B-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-23A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-16-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-13A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1.2		0.24
Methylene chloride		U	1
Tetrachloroethylene		U	0.33
Trichloroethene (TCE)	1.4		0.36
Vinyl chloride	0.94	J	0.4
Benzene	4.3		0.25
Toluene		U	0.26
Ethylbenzene		U	0.25
Xylene (total)	0.81	J	0.71
Total BTEX	5.1		

MW-13-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	310		12
Methylene chloride	6390		50
Tetrachloroethylene	270		17
Trichloroethene (TCE)	602		18
Vinyl chloride	11.4		0.4
Benzene	2.4		0.25
Toluene	0.58	J	0.26
Ethylbenzene	0.26	J	0.25
Xylene (total)		U	0.71
Total BTEX	3.2		

MW-13B-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.24
Methylene chloride		U	1
Tetrachloroethylene	0.33	J	0.33
Trichloroethene (TCE)	0.7	J	0.36
Vinyl chloride		U	0.4
Benzene		U	0.25
Toluene		U	0.26
Ethylbenzene		U	0.25
Xylene (total)		U	0.71
Total BTEX	0.0		

MW-6A-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)	280		1.7
Total BTEX	280		

MW-20-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-19-2011			
Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

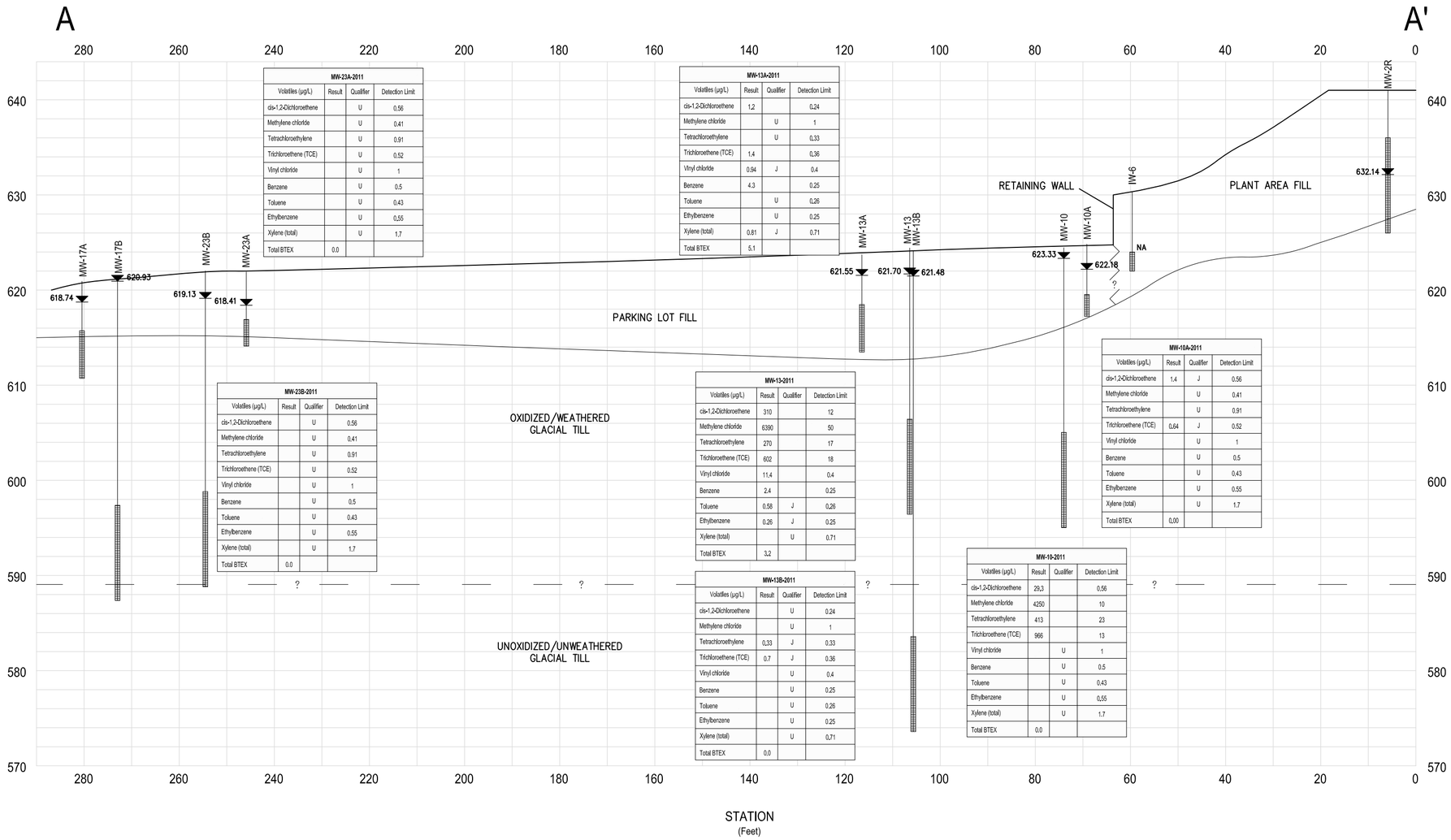
LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: TOTAL BTEX IN GROUNDWATER – JUNE 2011

DRAWN BY	CHECKED BY	APPROVED BY
TMS	CLA	DAD
PROJECT NO.	DATE	DRAWING NO.
16530531	AUG. 2011	14

August 11, 2011 2:12:59 pm (mik)
J:\3200 Main Street\1652990A\August 2011\9-15.dwg

CROSS-SECTION A-A'



MW-23A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-13A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1.2		0.24
Methylene chloride		U	1
Tetrachloroethylene		U	0.33
Trichloroethene (TCE)	1.4		0.36
Vinyl chloride	0.94	J	0.4
Benzene	4.3		0.25
Toluene		U	0.26
Ethylbenzene		U	0.25
Xylene (total)	0.81	J	0.71
Total BTEX	5.1		

MW-2R-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-17A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-23B-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-13-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	310		12
Methylene chloride	6390		50
Tetrachloroethylene	270		17
Trichloroethene (TCE)	602		18
Vinyl chloride	11.4		0.4
Benzene	2.4		0.25
Toluene	0.58	J	0.26
Ethylbenzene	0.26	J	0.25
Xylene (total)		U	0.71
Total BTEX	3.2		

MW-10A-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	1.4	J	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)	0.64	J	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.00		

MW-17B-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.56
Methylene chloride		U	0.41
Tetrachloroethylene		U	0.91
Trichloroethene (TCE)		U	0.52
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

MW-13B-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene		U	0.24
Methylene chloride		U	1
Tetrachloroethylene	0.33	J	0.33
Trichloroethene (TCE)	0.7	J	0.36
Vinyl chloride		U	0.4
Benzene		U	0.25
Toluene		U	0.26
Ethylbenzene		U	0.25
Xylene (total)		U	0.71
Total BTEX	0.0		

MW-10-2011

Volatiles (µg/L)	Result	Qualifier	Detection Limit
cis-1,2-Dichloroethene	29.3		0.56
Methylene chloride	4250		10
Tetrachloroethylene	413		23
Trichloroethene (TCE)	966		13
Vinyl chloride		U	1
Benzene		U	0.5
Toluene		U	0.43
Ethylbenzene		U	0.55
Xylene (total)		U	1.7
Total BTEX	0.0		

20 0 20 40
SCALE FEET

20 10 0 10
FEET SCALE

LEGEND:

STATIC GROUNDWATER LEVEL, JUNE 6, 2011

MONITORING WELL SCREEN

NOTES:

J – INDICATES ESTIMATED CONCENTRATION

U – QUALIFIED AS NON-DETECT

UJ – INDICATES ESTIMATED NON-DETECT

August 11, 2011 2:31:02 pm (mik)
J:\3200 Main Street\16529904\August 2011\9-15.dwg

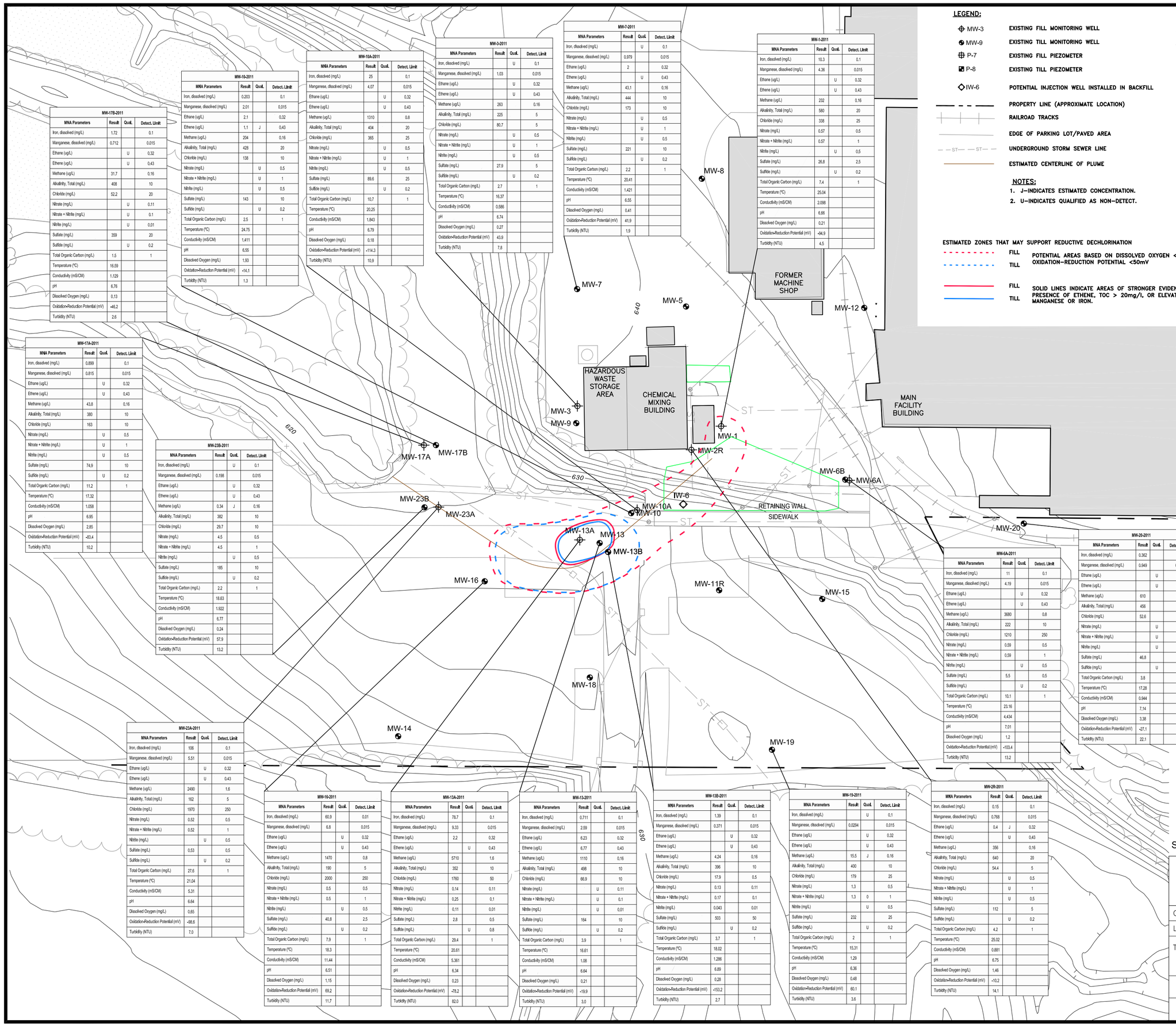
URS 8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: CROSS SECTION A–A', PLUME CENTERLINE WELLS – JUNE 2011

DRAWN BY	CHECKED BY	APPROVED BY
TMS	CLA	DAD
PROJECT NO.	DATE	DRAWING NO.
16530531	AUG. 2011	15



LEGEND:

- MW-3 — EXISTING FILL MONITORING WELL
- MW-9 — EXISTING TILL MONITORING WELL
- P-7 — EXISTING FILL PIEZOMETER
- P-8 — EXISTING TILL PIEZOMETER
- IW-6 — POTENTIAL INJECTION WELL INSTALLED IN BACKFILL
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST — ST — UNDERGROUND STORM SEWER LINE
- ESTIMATED CENTERLINE OF PLUME
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON-SITE BUILDINGS
- 2007 EXCAVATION AREA

NOTES:

1. J–INDICATES ESTIMATED CONCENTRATION.
2. U–INDICATES QUALIFIED AS NON–DETECT.

ESTIMATED ZONES THAT MAY SUPPORT REDUCTIVE DECHLORINATION

- FILL / TILL — POTENTIAL AREAS BASED ON DISSOLVED OXYGEN <0.5mg/l, AND OXIDATION–REDUCTION POTENTIAL <50mV
- FILL / TILL — SOLID LINES INDICATE AREAS OF STRONGER EVIDENCE BASED ON THE PRESENCE OF ETHENE, TOC > 20mg/l, OR ELEVATED DISSOLVED MANGANESE OR IRON.

MW-17B-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	1.72		0.1
Manganese, dissolved (mg/L)	0.712		0.015
Ethane (ug/L)		U	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	31.7		0.16
Alkalinity, Total (mg/L)	408		10
Chloride (mg/L)	52.2		20
Nitrate (mg/L)		U	0.11
Nitrate + Nitrite (mg/L)		U	0.1
Nitrite (mg/L)		U	0.01
Sulfate (mg/L)	359		20
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	1.5		1
Temperature (ºC)	16.59		
Conductivity (mS/CM)	1.129		
pH	6.76		
Dissolved Oxygen (mg/L)	0.13		
Oxidation-Reduction Potential (mV)	-46.2		
Turbidity (NTU)	2.6		

MW-10-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	0.203		0.1
Manganese, dissolved (mg/L)	2.01		0.015
Ethane (ug/L)	2.1		0.32
Ethene (ug/L)	1.1	J	0.43
Methane (ug/L)	204		0.16
Alkalinity, Total (mg/L)	428		20
Chloride (mg/L)	138		10
Nitrate (mg/L)		U	0.5
Nitrate + Nitrite (mg/L)		U	1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	143		10
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	2.5		1
Temperature (ºC)	24.75		
Conductivity (mS/CM)	1.411		
pH	6.55		
Dissolved Oxygen (mg/L)	1.93		
Oxidation-Reduction Potential (mV)	-14.1		
Turbidity (NTU)	1.3		

MW-10A-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	25		0.1
Manganese, dissolved (mg/L)	4.07		0.015
Ethane (ug/L)		U	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	1310		0.8
Alkalinity, Total (mg/L)	404		20
Chloride (mg/L)	365		25
Nitrate (mg/L)		U	0.5
Nitrate + Nitrite (mg/L)		U	1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	89.6		25
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	10.7		1
Temperature (ºC)	20.25		
Conductivity (mS/CM)	1.843		
pH	6.79		
Dissolved Oxygen (mg/L)	0.18		
Oxidation-Reduction Potential (mV)	-114.3		
Turbidity (NTU)	10.9		

MW-3-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)		U	0.1
Manganese, dissolved (mg/L)	1.03		0.015
Ethane (ug/L)		U	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	263		0.16
Alkalinity, Total (mg/L)	225		5
Chloride (mg/L)	80.7		5
Nitrate (mg/L)		U	0.5
Nitrate + Nitrite (mg/L)		U	1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	27.9		5
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	2.7		1
Temperature (ºC)	16.37		
Conductivity (mS/CM)	0.586		
pH	6.74		
Dissolved Oxygen (mg/L)	0.27		
Oxidation-Reduction Potential (mV)	43.9		
Turbidity (NTU)	7.8		

MW-7-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)		U	0.1
Manganese, dissolved (mg/L)	0.979		0.015
Ethane (ug/L)	2		0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	43.1		0.16
Alkalinity, Total (mg/L)	444		10
Chloride (mg/L)	173		10
Nitrate (mg/L)		U	0.5
Nitrate + Nitrite (mg/L)		U	1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	221		10
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	2.2		1
Temperature (ºC)	20.41		
Conductivity (mS/CM)	1.421		
pH	6.55		
Dissolved Oxygen (mg/L)	0.41		
Oxidation-Reduction Potential (mV)	41.9		
Turbidity (NTU)	1.9		

MW-1-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	10.3		0.1
Manganese, dissolved (mg/L)	4.36		0.015
Ethane (ug/L)		U	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	232		0.16
Alkalinity, Total (mg/L)	580		20
Chloride (mg/L)	338		25
Nitrate (mg/L)	0.57		0.5
Nitrate + Nitrite (mg/L)	0.57		1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	26.8		2.5
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	7.4		1
Temperature (ºC)	25.04		
Conductivity (mS/CM)	2.098		
pH	6.66		
Dissolved Oxygen (mg/L)	0.21		
Oxidation-Reduction Potential (mV)	-94.9		
Turbidity (NTU)	4.5		

MW-17A-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	0.899		0.1
Manganese, dissolved (mg/L)	0.815		0.015
Ethane (ug/L)		U	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	43.8		0.16
Alkalinity, Total (mg/L)	380		10
Chloride (mg/L)	163		10
Nitrate (mg/L)		U	0.5
Nitrate + Nitrite (mg/L)		U	1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	74.9		10
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	11.2		1
Temperature (ºC)	17.32		
Conductivity (mS/CM)	1.058		
pH	6.95		
Dissolved Oxygen (mg/L)	2.85		
Oxidation-Reduction Potential (mV)	-83.4		
Turbidity (NTU)	10.2		

MW-23B-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)		U	0.1
Manganese, dissolved (mg/L)	0.198		0.015
Ethane (ug/L)		U	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	0.34	J	0.16
Alkalinity, Total (mg/L)	382		10
Chloride (mg/L)	29.7		10
Nitrate (mg/L)	4.5		0.5
Nitrate + Nitrite (mg/L)	4.5		1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	185		10
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	2.2		1
Temperature (ºC)	18.63		
Conductivity (mS/CM)	1.922		
pH	6.77		
Dissolved Oxygen (mg/L)	0.24		
Oxidation-Reduction Potential (mV)	57.9		
Turbidity (NTU)	13.2		

MW-6A-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	11		0.1
Manganese, dissolved (mg/L)	4.19		0.015
Ethane (ug/L)		U	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	3680		0.8
Alkalinity, Total (mg/L)	222		10
Chloride (mg/L)	1210		250
Nitrate (mg/L)	0.59		0.5
Nitrate + Nitrite (mg/L)	0.59		1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	5.5		0.5
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	10.1		1
Temperature (ºC)	23.16		
Conductivity (mS/CM)	4.434		
pH	7.01		
Dissolved Oxygen (mg/L)	1.2		
Oxidation-Reduction Potential (mV)	-103.4		
Turbidity (NTU)	13.2		

MW-20-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	0.362		0.1
Manganese, dissolved (mg/L)	0.949		0.015
Ethane (ug/L)		U	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	610		0.16
Alkalinity, Total (mg/L)	456		20
Chloride (mg/L)	52.6		5
Nitrate (mg/L)		U	0.5
Nitrate + Nitrite (mg/L)		U	1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	46.8		5
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	3.8		1
Temperature (ºC)	17.28		
Conductivity (mS/CM)	0.944		
pH	7.14		
Dissolved Oxygen (mg/L)	3.38		
Oxidation-Reduction Potential (mV)	-27.1		
Turbidity (NTU)	22.1		

MW-23A-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	106		0.1
Manganese, dissolved (mg/L)	5.51		0.015
Ethane (ug/L)		U	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	2490		1.6
Alkalinity, Total (mg/L)	162		5
Chloride (mg/L)	1970		250
Nitrate (mg/L)	0.52		0.5
Nitrate + Nitrite (mg/L)	0.52		1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	0.53		0.5
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	27.6		1
Temperature (ºC)	21.04		
Conductivity (mS/CM)	5.31		
pH	6.64		
Dissolved Oxygen (mg/L)	0.65		
Oxidation-Reduction Potential (mV)	-98.6		
Turbidity (NTU)	7.0		

MW-16-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	60.9		0.01
Manganese, dissolved (mg/L)	6.8		0.015
Ethane (ug/L)		U	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	1470		0.8
Alkalinity, Total (mg/L)	190		5
Chloride (mg/L)	2000		250
Nitrate (mg/L)	0.5		0.5
Nitrate + Nitrite (mg/L)	0.5		1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	40.8		2.5
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	7.9		1
Temperature (ºC)	18.3		
Conductivity (mS/CM)	11.44		
pH	6.51		
Dissolved Oxygen (mg/L)	1.15		
Oxidation-Reduction Potential (mV)	69.2		
Turbidity (NTU)	11.7		

MW-13A-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	78.7		0.1
Manganese, dissolved (mg/L)	9.33		0.015
Ethane (ug/L)	2.2		0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	5710		1.6
Alkalinity, Total (mg/L)	352		10
Chloride (mg/L)	1760		50
Nitrate (mg/L)	0.14		0.11
Nitrate + Nitrite (mg/L)	0.25		0.1
Nitrite (mg/L)	0.11		0.01
Sulfate (mg/L)	2.8		0.5
Sulfide (mg/L)		U	0.8
Total Organic Carbon (mg/L)	29.4		1
Temperature (ºC)	20.61		
Conductivity (mS/CM)	5.361		
pH	6.34		
Dissolved Oxygen (mg/L)	0.23		
Oxidation-Reduction Potential (mV)	-78.2		
Turbidity (NTU)	82.0		

MW-13-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	0.711		0.1
Manganese, dissolved (mg/L)	2.59		0.015
Ethane (ug/L)	6.23		0.32
Ethene (ug/L)	6.77		0.43
Methane (ug/L)	1110		0.16
Alkalinity, Total (mg/L)	498		10
Chloride (mg/L)	66.9		10
Nitrate (mg/L)		U	0.11
Nitrate + Nitrite (mg/L)		U	0.1
Nitrite (mg/L)		U	0.01
Sulfate (mg/L)	164		10
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	3.9		1
Temperature (ºC)	16.61		
Conductivity (mS/CM)	1.08		
pH	6.64		
Dissolved Oxygen (mg/L)	0.21		
Oxidation-Reduction Potential (mV)	-19.9		
Turbidity (NTU)	3.0		

MW-13B-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	1.39		0.1
Manganese, dissolved (mg/L)	0.371		0.015
Ethane (ug/L)		U	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	4.24		0.16
Alkalinity, Total (mg/L)	396		10
Chloride (mg/L)	17.9		0.5
Nitrate (mg/L)	0.13		0.11
Nitrate + Nitrite (mg/L)	0.17		0.1
Nitrite (mg/L)	0.043		0.01
Sulfate (mg/L)	503		50
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	3.7		1
Temperature (ºC)	18.02		
Conductivity (mS/CM)	1.286		
pH	6.89		
Dissolved Oxygen (mg/L)	0.28		
Oxidation-Reduction Potential (mV)	-153.2		
Turbidity (NTU)	2.7		

MW-19-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)		U	0.1
Manganese, dissolved (mg/L)	0.0294		0.015
Ethane (ug/L)		U	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	15.5	J	0.16
Alkalinity, Total (mg/L)	400		10
Chloride (mg/L)	179		25
Nitrate (mg/L)	1.3		0.5
Nitrate + Nitrite (mg/L)	1.3	0	1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	232		25
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	2		1
Temperature (ºC)	15.31		
Conductivity (mS/CM)	1.29		
pH	6.36		
Dissolved Oxygen (mg/L)	0.48		
Oxidation-Reduction Potential (mV)	80.1		
Turbidity (NTU)	3.6		

MW-2R-2011

MNA Parameters	Result	Qual.	Detect. Limit
Iron, dissolved (mg/L)	0.15		0.1
Manganese, dissolved (mg/L)	0.768		0.015
Ethane (ug/L)	0.4	J	0.32
Ethene (ug/L)		U	0.43
Methane (ug/L)	356		0.16
Alkalinity, Total (mg/L)	640		20
Chloride (mg/L)	54.4		5
Nitrate (mg/L)		U	0.5
Nitrate + Nitrite (mg/L)		U	1
Nitrite (mg/L)		U	0.5
Sulfate (mg/L)	112		5
Sulfide (mg/L)		U	0.2
Total Organic Carbon (mg/L)	4.2		1
Temperature (ºC)	25.02		
Conductivity (mS/CM)	0.881		
pH	6.75		
Dissolved Oxygen (mg/L)	1.46		
Oxidation-Reduction Potential (mV)	-10.2		
Turbidity (NTU)	14.1		

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CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: MONITORED NATURAL ATTENUATION PARAMETERS JUNE 2011

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TMS	CLA	DAD
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