Run Date: 01/19/2010

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location D 14.0 13.0 14 A C B	**Well Reg.No** 55 - 585610	Cancelled	**AMA** TUCSON AMA

Registered Name CITY OF TUCSON ENVIRONMENTAL SERVICES
ATTN: KAREN MASBRUCH
PO BOX 27210
TUCSON AZ 85726

File Type ABANDONMENTS
Application/Issue Date 02/09/2001

Owner	OWNER	**Well Type**	MONITOR
Driller No.	611	**SubBasin**	UPPER SANTA CRUZ
Driller Name	THF DRILLING, INC.	**Watershed**	SANTA CRUZ RIVER
Driller Phone		**Registered Water Uses**	TEST
County	PIMA	**Registered Well Uses**	ABANDONED
Parcel No.	116-20-6280	**Discharge Method**	NO DISCHARGE METHOD LISTED
Intended Capacity GPM	0.00	**Power**	NO POWER CODE LISTED

Well Depth	48.00	**Case Diam**	1.00	**Tested Cap**	0.00
Pump Cap.	0.00	**Case Depth**	48.00	**CRT**	
Draw Down	0.00	**Water Level**	0.00	**Log**	X
		Acres Irrig	0.00	**Finish**	PLASTIC OR PVC

Contamination Site: NO - NOT IN ANY WQARF SITE

Comments This NOIA is an after-the-fact filing; therefore, no abandonment packets were printed or mailed. The well was filled with clean soil on 4/1/2009. For additional information, please see imaged record. 1/15/2010 dsk

WR-425A
WELL CAPPED

Places Of Use

D 14 0 13 0 14 A C B

Current Action

4/1/2009 870 ABANDONED
Action Comment: tb/dsk

Action History

1/19/2010 880 CHANGE IN CONTAMINATION SITE
Action Comment: OLD WQARF code: null

10/1/2009 175 NOI RECEIVED TO ABANDON A WELL
Action Comment: tb/dsk

9/28/2009 750 WELL LOG RECEIVED
Action Comment: MO

9/28/2009 750 WELL LOG RECEIVED
Action Comment: MO

9/28/2009 750 WELL LOG RECEIVED
Action Comment: MO

9/28/2009 750 WELL LOG RECEIVED
Action Comment: MO

1/20/2005 775 WQARF UPLOAD OF WELL INVENTORY DATA
Action Comment: Changed by ADWR WQARF Group as part of well inventory - Old Latitude: 33 13 2, Old Longitude: 110 39 22, New Latitude: 32 13 1.831, New Longitude: 110 59 9.738, Project Id: PE-0852, Lat/Long Measurement Method: RTK GPS Survey Using an Offset Point, H_Datum: NAD83, V_Datum: NAVD88, Elevation Ft: 2353.84, Measurement Source: ADWR

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

5/18/2004	878	UPDATE LOCATION DATA FROM WQARF
Action Comment:		Changed by ADWR WQARF Group as part of well inventory - Old Latitude: 33 13 2, Old Longitude: 110 39 22, New Latitude: 32 13 1.831, New Longitude: 110 59 9.738, Project Id: PE-0852, Lat/Long Measurement Method: RTK GPS Survey Using an Offset Point, H_Datum: NAD83, V_Datum: NAVD88, Elevation Ft: 2353.84, Measurement Source: ADWR
2/20/2001	550	DRILLING AUTHORITY ISSUED
Action Comment:		tb
2/16/2001	265	HYDROLOGY NOI REVIEW - VARIANCE GRANTED
Action Comment:		tb
2/14/2001	250	NOI SENT TO HYDROLOGY FOR REVIEW
Action Comment:		MO
2/9/2001	155	NOI RECEIVED FOR A NEW NON-PRODUCTION WELL
Action Comment:		MO
2/7/2001	755	WELL CONSTRUCTION COMPLETED
Action Comment:		MO

585610

CITY OF TUCSON
ENVIRONMENTAL SERVICES

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OCT - 1 2009

AZ DEPT OF WATER RESOURCES
HYDROL[illegible]

Do More Blue

September 25, 2009

VIA U.S. CERTIFIED MAIL

Mr. David Christiana
Arizona Dept. of Water Resources
Water Quality Unit
3550 N. Central Ave.
Phoenix, AZ 85012

Re: Transmittal: Notice of Intent to Abandon Well WR-425A ADWR ID 55-585610, 890 W. Congress Street, Tucson, Arizona 85745

Dear Mr. Christiana:

Attached please find a Notice of Intent (NOI) to abandon one groundwater well with Arizona Department of Water Resources (ADWR) Well ID #55-585610 (WR-425A). A location map is provided in Figure 1, a detailed location map is provided as Figure 2. Per your conversation with Molly Collins of the City of Tucson (COT), Environmental Services (ES) on August 18, 2009, regarding the construction and abandonment of this well we are submitting this NOI directly for your consideration.

Well WR-425A was installed in February 2001 primarily to monitor soil vapor within waste at the Nearmont Landfill as part of the Rio Nuevo Full Scale Stabilization Project (LSP). The LSP involved injecting air and water into the waste at the Nearmont and adjacent Congress Landfills in order to accelerate waste degradation prior to redevelopment of the property as a park. Well WR-425A was installed to a depth of 48 feet which corresponds to the top of a continuous clay layer underlying waste at both landfills. Figure 3 provides a cross section of the area. The well contained enough water to collect samples in March, June and September 2001, but has been dry since January 2002.

The area containing both landfills was regraded in March and April 2009, to divert water away from areas containing waste as part of the closure of the LSP. The closure included dismantling soil vapor extraction (SVE) infrastructure and wells. Site crews were directed to cap or fill unregistered wells used during the LSP process with soil prior to backfilling the entire site with clean soil. The wells to be filled were not registered with ADWR as they were all screened in waste, did not penetrate an aquifer and were less than 100 feet deep. During the site work, well WR-425A was inadvertently filled with clean soil from the total depth to the ground surface by the crews. Figure 4 provides the well abandonment details.

585610

Note that the surrounding waste is likely to be more permeable than the soil fill inside the well and that WR-425A terminates at a depth of 48 feet on top of the continuous clay layer beneath the waste. In addition, the regional groundwater table is located at a depth of 160 feet below ground surface in this area. In light of this, COT-ES believes that the abandonment procedures were sufficient to be protective of the regional aquifer. COT-ES is requesting the well be considered abandoned by ADWR.

Thank you for taking the time to consider this NOI. Please contact Molly Collins at (520) 873-3703 with questions or concerns.

Sincerely,

Nancy Petersen
Deputy Director

NP/MC/mv

Enclosures

NOI
Figure 1: Well Location Map, Rio Nuevo Full Scale Stabilization Project
Figure 2: Well Location Map, WR-425A
Figure 3: Cross Section, Rio Nuevo Full Scale Stabilization Project
Figure 4: Well Abandonment Details

Attachment 1: Boring Log and Well As Built Diagram

cc: Jeff Drumm, City of Tucson, Environmental Services
Molly Collins, City of Tucson, Environmental Services
Well File WR-425A

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Arizona Department of Water Resources
Water Management Support Section
P.O. Box 33589 Phoenix, Arizona 85067-3589
(602) 771-8500 • (800) 352-8488
www.azwater.gov

Notice of Intent to Abandon a Well

WR-425A

NO FEE

- Review instructions and the Well Abandonment Handbook prior to completing form with black or blue ink.
- You must include with your Notice:
  - Well construction diagram showing all existing well construction features listed in Section 5 and the proposed abandonment specifications listed in Section 6.

** PLEASE PRINT CLEARLY **

AMA / INA	B	SB
TUCSON	TUC	16
RECEIVED DATE	WS	
10-09	09	
ISSUED DATE	WQARF	CERCLA
—	—	

FILE NUMBER: D(14-13)14 A+B

WELL REGISTRATION NUMBER: 55 - 585610

SECTION 1. REGISTRY INFORMATION

Well Type

CHECK ONE

- ☐ Domestic
- ☐ Stock
- ☐ Irrigation
- ☐ Municipal
- ☑ Monitor / Piezometer
- ☐ Geotechnical
- ☐ Mineral Exploration
- ☐ Other (*please specify*):

ORIGINAL WELL OWNER (IF KNOWN): City of Tucson

ORIGINAL WELL DRILLING FIRM (IF KNOWN): THF Drilling

DRILL DATE (IF KNOWN): February 2001

Location of Well

WELL LOCATION ADDRESS (IF ANY): 890 W. Congress St, Tucson AZ 85745

TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
14 S	13 E	14	NE ¼	SW ¼	NW ¼

COUNTY ASSESSOR'S PARCEL ID NUMBER BOOK	MAP	PARCEL	COUNTY WHERE WELL IS LOCATED
116	20	6280	Pima

LATITUDE			LONGITUDE		
32 °	12 '	3 "N	110 °	59 '	8.16" W
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

METHOD OF LATITUDE/LONGITUDE (CHECK ONE): ☑ USGS Quad Map ☐ Conventional Survey ☐ *GPS: Hand-Held ☐ *GPS: Survey-Grade

*IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE): ☐ NAD-83 ☐ Other (*please specify*):

SECTION 2. OWNER INFORMATION

Well Owner

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL: City of Tucson, Environmental Services

MAILING ADDRESS: 100 N. Stone Ave, 2nd Floor

CITY / STATE / ZIP CODE: Tucson, AZ 85701

CONTACT PERSON NAME AND TITLE: Molly Collins, Project Coordinator

TELEPHONE NUMBER: (520) 791-5414 FAX: (520) 791-5417

Landowner (if different from Well Owner)

FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL: Same

MAILING ADDRESS:

CITY / STATE / ZIP CODE:

CONTACT PERSON NAME AND TITLE:

TELEPHONE NUMBER: FAX:

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SECTION 3. ABANDONMENT AUTHORIZATION

Drilling Firm

NAME: None

DWR LICENSE NUMBER: ROC LICENSE CATEGORY:

TELEPHONE NUMBER: FAX:

Consultant (if applicable)

CONSULTING FIRM: None

CONTACT PERSON NAME:

TELEPHONE NUMBER: FAX:

E-MAIL ADDRESS:

SECTION 4.

Questions	Yes	No	If Yes:
1. To your knowledge, is there any information that exists which indicates that the water in this well has been, may be, or is contaminated?		✔	EXPLAIN (ATTACH ADDITIONAL PAGE IF NECESSARY): Well has been dry since installation in 2001
2. Is there another well name or identification number associated with this well? (e.g., Lot 3 Well, MW-1,etc.)	✔		PLEASE STATE: WR-425A
3. Was the well casing video logged?		✔	
4. Why is the well being abandoned?	Termination of Rio Nuevo Bioreactor Project		

Notice of Intent to Abandon a Well WR-425A

WELL REGISTRATION NUMBER 55 - 585610

Provide a well construction diagram showing all existing well construction features listed in Section 5 and the proposed abandonment specifications listed in Section 6.

SECTION 5. ORIGINAL WELL CONSTRUCTION DESIGN (attach additional page if needed)

Existing Borehole			Existing Casing (to the best of your knowledge)													
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE (T)				PERFORATION TYPE (T)						SLOT SIZE IF ANY (inches)
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	
0	48	9 5/8	0	33			✔			✔						
			33	48	4		✔							✔		0.06
			See attached sheet for additional intervals of casing.													

Condition of casing: ☑ Good ☐ Fair ☐ Poor

Existing Annular Material (to the best of your knowledge)

DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE (T)								FILTER PACK		
						BENTONITE						
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	GROUT	CHIPS	PELLETS	IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE	SAND	GRAVEL	SIZE
0	7			✔								
7	8						✔					
			See attached sheet for additional intervals of annular material									

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SECTION 6. PROPOSED WELL ABANDONMENT DESIGN (attach additional page if needed)

DATE ABANDONMENT IS TO BEGIN April 1, 2009

Refer to ADWR's Well Abandonment Handbook for additional information.

Casing Treatment							Sealing or Fill Material											
DEPTH FROM SURFACE		TREATMENT TYPE (T)					DEPTH FROM SURFACE		MATERIAL TYPE (T)									
														HIGH SOLIDS BENTONITE				
FROM (feet)	TO (feet)	SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE	CASING REMOVAL (explain in Remarks)	IF OTHER TYPE, DESCRIBE OR IF CASING IS TO BE PERFORATED, DESCRIBE SPACING AND SIZE OF PERFORATIONS TO BE ADDED	FROM (feet)	TO (feet)	NEAT CEMENT	CONCRETE	SAND-CEMENT GROUT	CEMENT-BENTONITE GROUT	SAND-BENTONITE GROUT	GROUT	CHIPS	PELLETS	SAND	MIXING RATIO by (check one) ☑ Weight ☐ Volume	ESTIMATED VOLUME OF MATERIAL (cubic feet)
0	48						0	48	Well filled with clean soil on April 1, 2009.									

Proposed Abandonment Method (See Well Abandonment Handbook)

CHECK ONE

- ☐ Standard Method
- ☐ Alternative 1
- ☐ Alternative 2
- ☐ Alternative 3
- ☐ Alternative 4:
  - ☐ Variance Option *
- ☐ Alternative 5:
  - ☐ Variance Option 1
  - ☐ Variance Option 2*
- ☐ Other (please specify): Well was filled with clean soil 4/1/2009

requesting a variance

Emplacement Method of Sealing or Fill Material

CHECK ONE

- ☑ Gravity
- ☐ Pressure Grouting
- ☐ Tremie Pumped
- ☐ Other (please specify):

REMARKS Top two feet of casing to be removed with well pad and bollards. Area to be covered with soil.

I state that this notice is filed in compliance with A.R.S. § 45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and belief.

TYPE OR PRINT NAME AND TITLE	SIGNATURE OF WELL OWNER	DATE
Jeff Drumm, Environmental Manger, City of Tucson Environmental Services		9/30/09
TYPE OR PRINT NAME AND TITLE	SIGNATURE OF LANDOWNER, IF APPLICABLE (SEE INSTRUCTIONS)	DATE

Section 5. Original Well Construction Design Additional Sheet for 55-585610 Well Abandonment

Borehole			Casing													
Depth from Surface		Diameter	Depth from Surface		Diameter	Material Type				Perforation Type						Slot Size
From (ft)	To (ft)	(in)	From (ft)	To (ft)	(in)	Steel	PVC	ABS	Other	Blank or None	Wire Wrap	Shutter Screen	Mills Knife	Slotted	Other	(in)
0	48	9 5/8	0	33	4		x			x						
			33	48	4		x							x		0.06
			0	8	0.5		x			x						
			8	11	0.5		x							x		0.02
			0	18	0.5		x			x						
			18	21	0.5		x							x		0.02

Annular Material												
Depth from Surface		Annular Material Type								Filter Pack		
From (ft)	To (ft)	None	Concrete	Cement or Cement Grout	Cement Bentonite Grout	Grout	Bentonite Chips	Pellets	Other	Sand	Gravel	Size
0	7			x								
7	8						x					
8	12									x		8-12
12	16				x							
16	18						x					
18	23									x		8-12
23	27				x							
27	30						x					
30	48										x	1/2" to 3/8"

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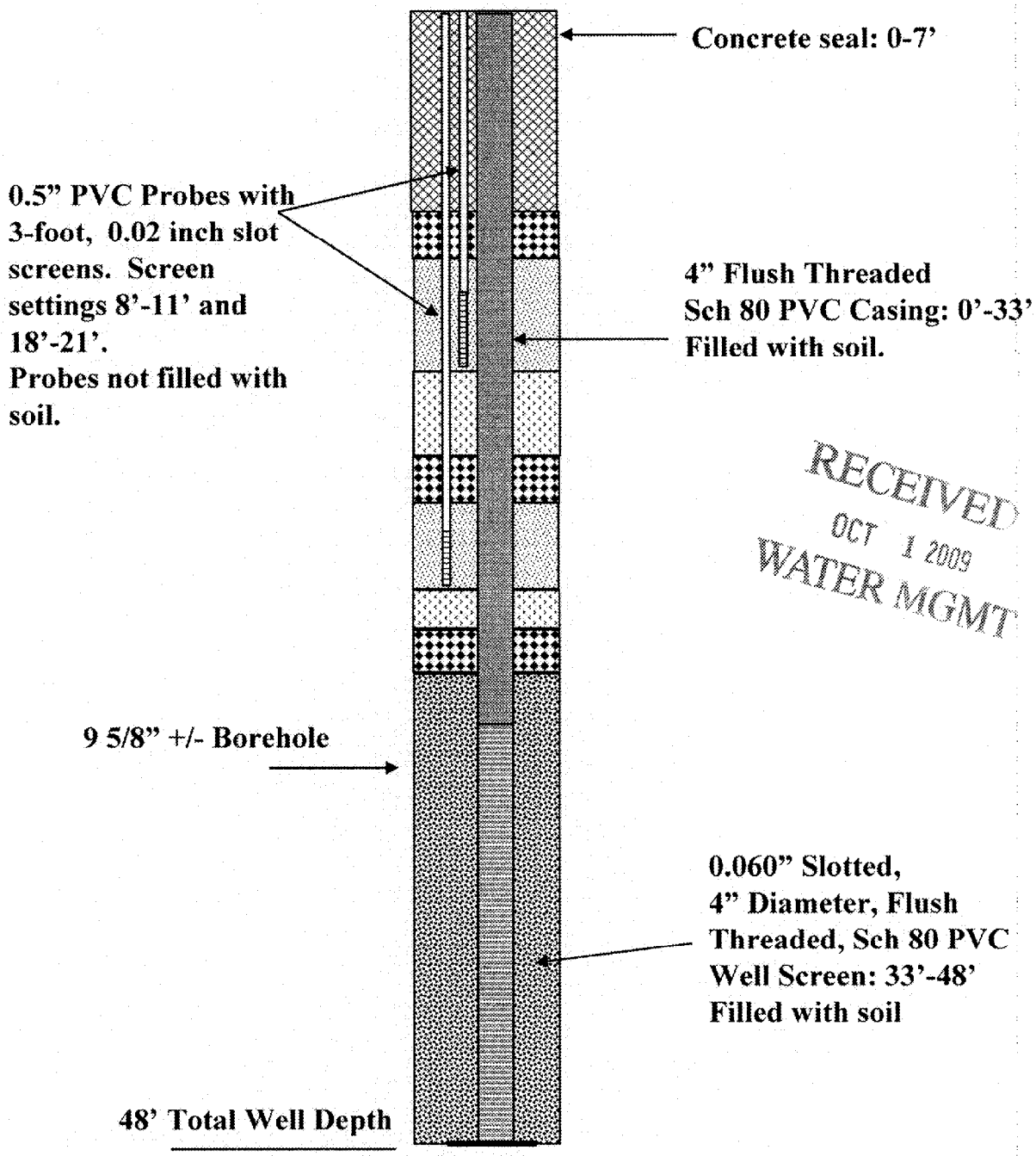
9/22/2009

585610

Area covered with a minimum of clean soil fill.



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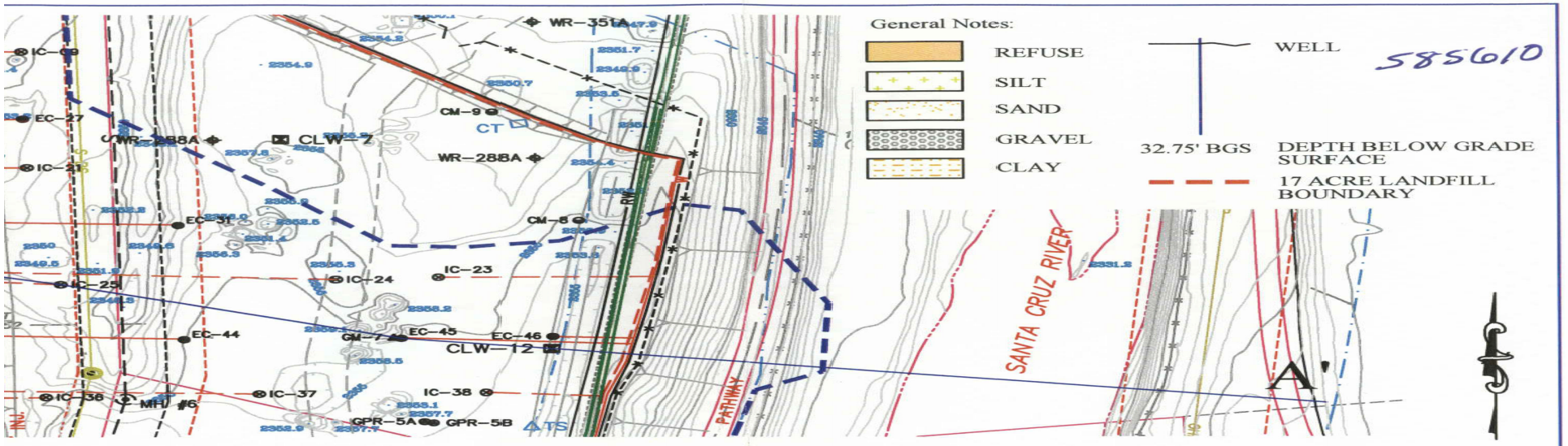
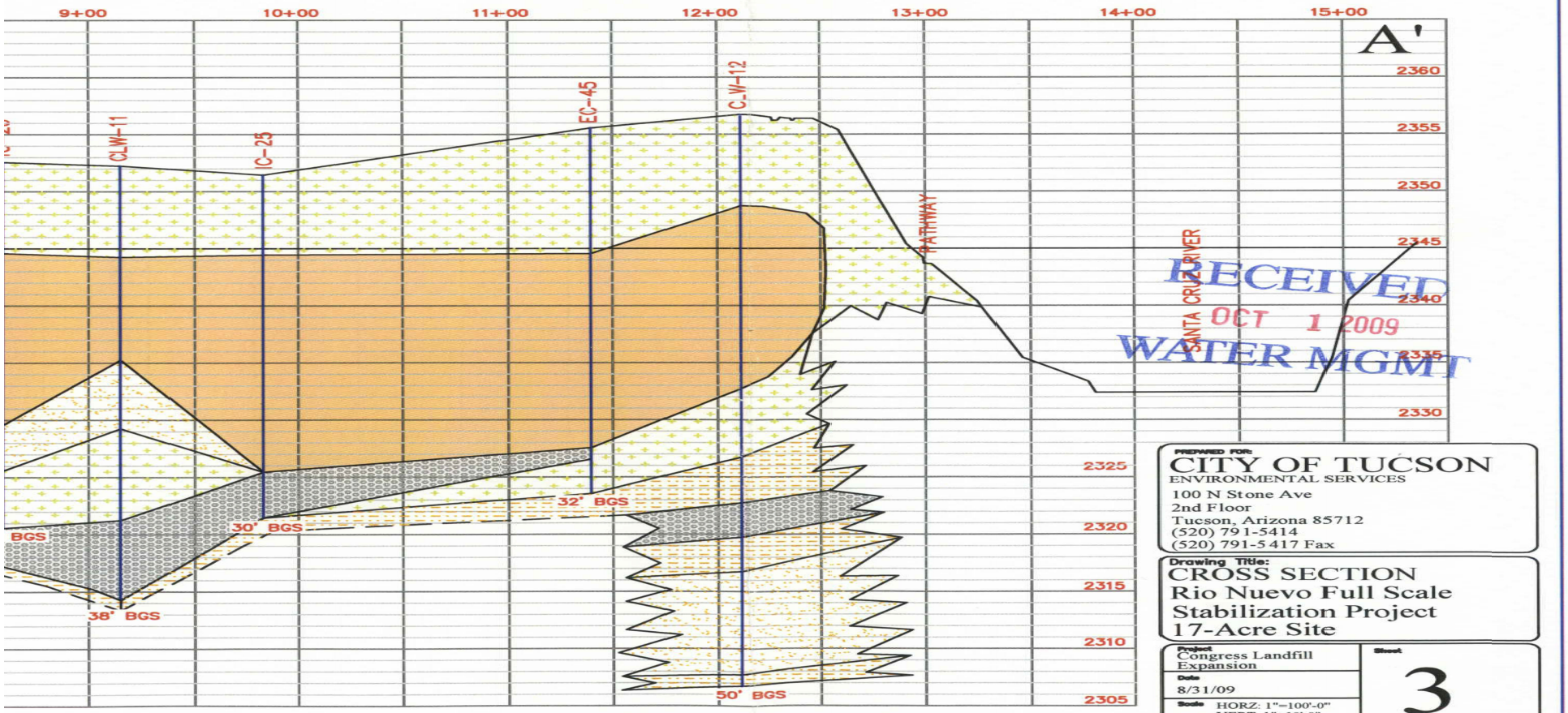
SERVICES

Figure 4
WR-425A As Abandoned Diagram
Well ID #55-585610





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PREPARED FOR:
CITY OF TUCSON
ENVIRONMENTAL SERVICES
100 N Stone Ave
2nd Floor
Tucson, Arizona 85712
(520) 791-5414
(520) 791-5417 Fax

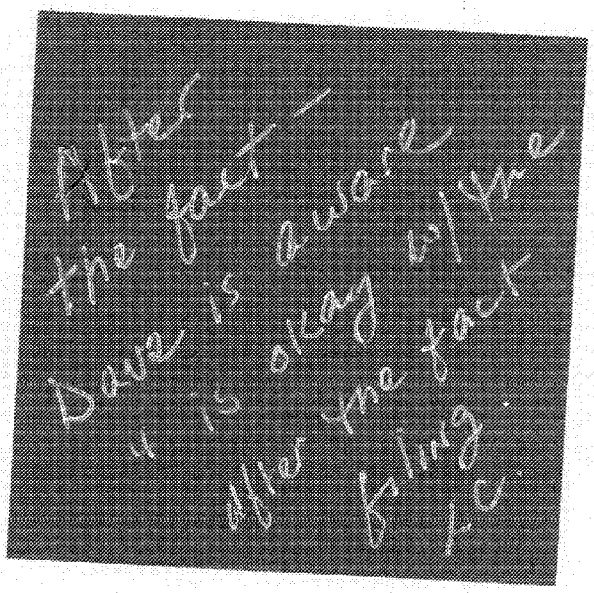
Drawing Title:
CROSS SECTION
Rio Nuevo Full Scale
Stabilization Project
17-Acre Site

Project: Congress Landfill Expansion
Date: 8/31/09
Scale: HORZ: 1"=100'-0"
VERT: 1"=10'-0"
Sheet: 3

s: \EMCOMMON\RIO NUEVO\REPORTS\17-ACRE ANNUAL\FIG4X-SECTION.DWG

585610

ATTACHMENT 1
BORING LOG AND AS BUILT DIAGRAM
WR-425A



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CITY OF TUCSON
INVESTING IN OUR COMMUNITY

OFFICE OF ENVIRONMENTAL MANAGEMENT

Boring No. WR-425A			
Project No.	Nearmont Wells	Project Loc.	Nearmont Landfill
Init. Date	02-06-01	M.P. Elevation	2350
Comp. Date	02-06-01 Well 02-06-01	Initial GW Depth	46' BGS
Driller	THF	Static GW Depth	46' BGS
Rig Type	Mobile B-61	GW Elevation	
Drilling Method	HSA	Field Geologist	RM Byrd
Datum	2350'	Reviewed By	R.M. Byrd
Total Depth	48' BGS	x - coord =	y - coord =

Depth In Feet	PID\FID	Blow Count Blows/Foot	Sample Type	Time	Description	Construction
0	N/A	N/A		0840	Gravelly Sands And Silts, Light Tan, Calcified, slight dampness with depth, Top of Landfill cover material.	4" Diameter Schedule 80 PVC Well with two 0.5 " PVC vapor probes. One probe is screened from 8' to 11' below land surface (BLS), the second probe is screened from 18' to 21' BLS. Top 7' is sealed with a Portland cement slurry.
				0845	Gravel Zone with Sands and Silts, Auger bouncing on Gravel. Color Change from Light Tan to an Orangish Brown. Dry and Dusty. Non-native Landfill Cap material.	
5				0900	Silty Sand, Trace Gravel, Orangish Brown, Dry. Non-native Landfill Cap Material.	
				0905	Old Asphaltic Concrete	Bentonite Chip Seal, Hydrated during construction.
				0920	Sand, Gravel, Asphalt Pieces, Dark Gray/Brown, Hard, Dry	#8-12 Colorado Silica Sand Filter Pack Surrounding the shallow Vapor Probe (Screened from 8'-11')
10				0925	Municipal Solid Waste (MSW), Light Grayish Brown, Interbedded With Soil. Refuse Includes Glass fragments, Plastic bags and Plastic chunks, minimal Paper, trace cans	
				0930	MSW, Color Getting Darker, Less Paper, More Cans	Bentonite Grout Slurry Seal
15				0935	MSW, Steel Gray, moist,Clay content increasing, Less wood or paper, more decomposed, trace cans	Bentonite Chip Seal Hydrated during Construction
20				0938	MSW, Dark Gray Black, Glass fragments, trace steel cans,	#8-12 Colorado Silica Sand Filter Pack Surrounding the deeper vapor probe (Screened from 18'-21')
25				0939	MSW, Gray/Black, moist, glass fragments, Brick Fragments	Bentonite Grout Slurry
				0942	Large (2") sorted, rounded gravel. Gray, dirty, appears to have been placed, Non-native.	Bentonite Chip Seal, Hydrated during construction
30				0950	Cobbles, Gravels, Trace fines. Well sorted, rounded, appears Non-native	4 " diameter schedule 80 PVC Well Screen, 0.060 slot size surrounded with 1/2"-3/8" washed gravel pack
35					Sandy Clay, light grayish brown, damp, Bottom of MSW, Trace of Bricks, glass	
				1000	Color Change, Silty Clay, Medium Brown, Damp Sand, well sorted, medium/fine grain, light tan, damp,	
40				1010	Silty, Clayey, Sand, Fine Grain, Light Tan	

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WELL NMA.GPJ TUCSON.GDT 3/9/01

CITY OF TUCSON
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OFFICE OF
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MANAGEMENT

Boring No. WR-425A			
Project No.	Nearmont Wells	Project Loc.	Nearmont Landfill
Init. Date	02-06-01	M.P. Elevation	2350
Comp. Date	02-06-01 Well 02-06-01	Initial GW Depth	46' BGS
Driller	THF	Static GW Depth	46' BGS
Rig Type	Mobile B-61	GW Elevation	
Drilling Method	HSA	Field Geologist	RM Byrd
Datum	2350'	Reviewed By	R.M. Byrd
Total Depth	48' BGS	x - coord =	y - coord =

Depth In Feet	PID\FID	Blow Count Blows/Foot	Sample Type	Time	Description
40					Silty Clay, Light brown, damp, Low Plasticity, Sand, Medium Grain, well sorted, clean, Light Brown
				1035	Coarse Sand and Gravel, Clay matrix. Multicolored Clasts, oxidized clasts, moist in upper section, wet at 46'
45					
				1055	Clay, medium Brown, lean, moderate plasticity, moist
50					
55					
60					
65					
70					
75					
80					

4" diameter Bottom Cap

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WELL NMA.GPJ TUCSON.GDT 3/9/01

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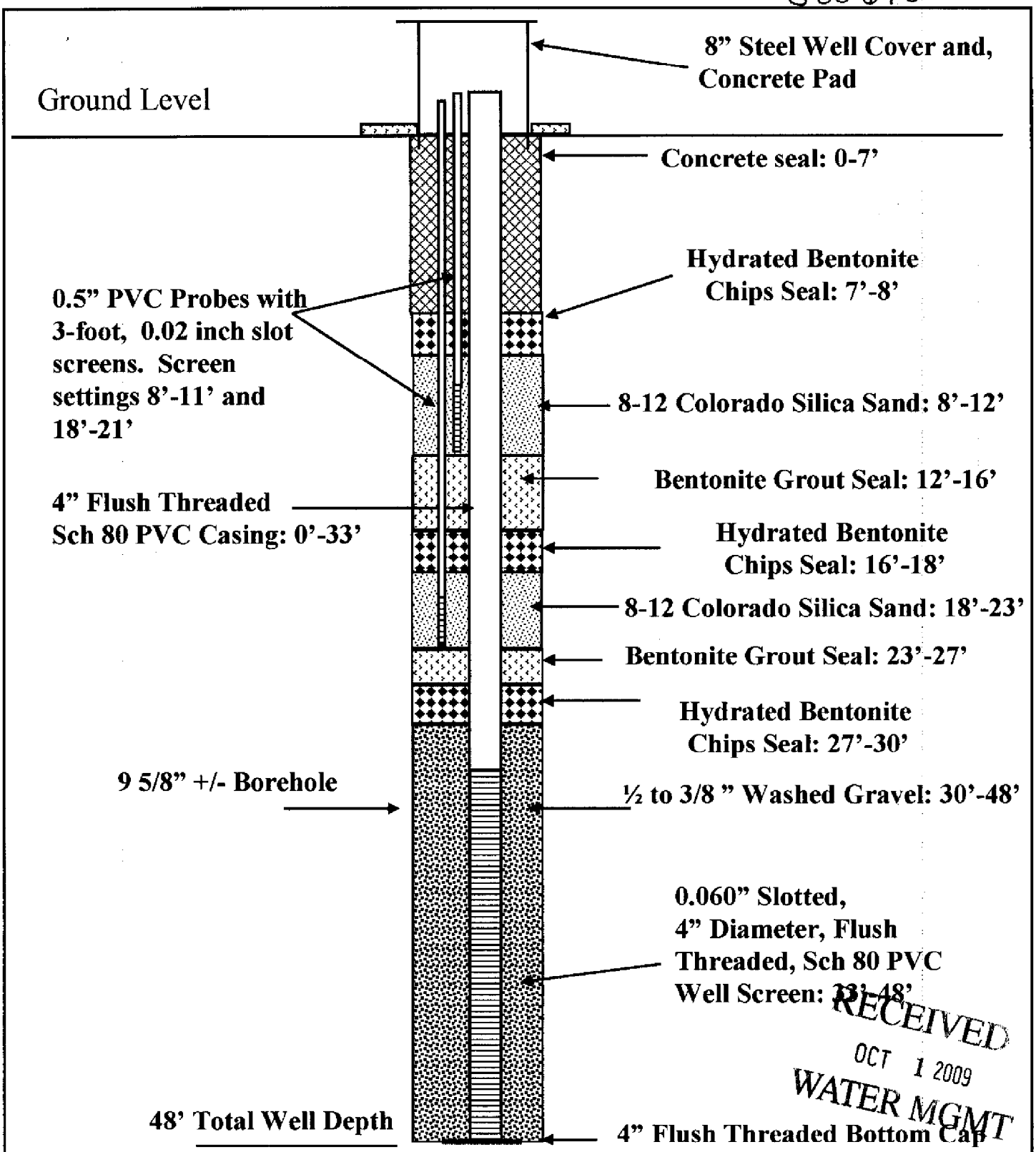

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CITY OF TUCSON
ENVIRONMENTAL SERVICES

WR-425A As Constructed Diagram
Well ID #55-585610

585610

FIGURES

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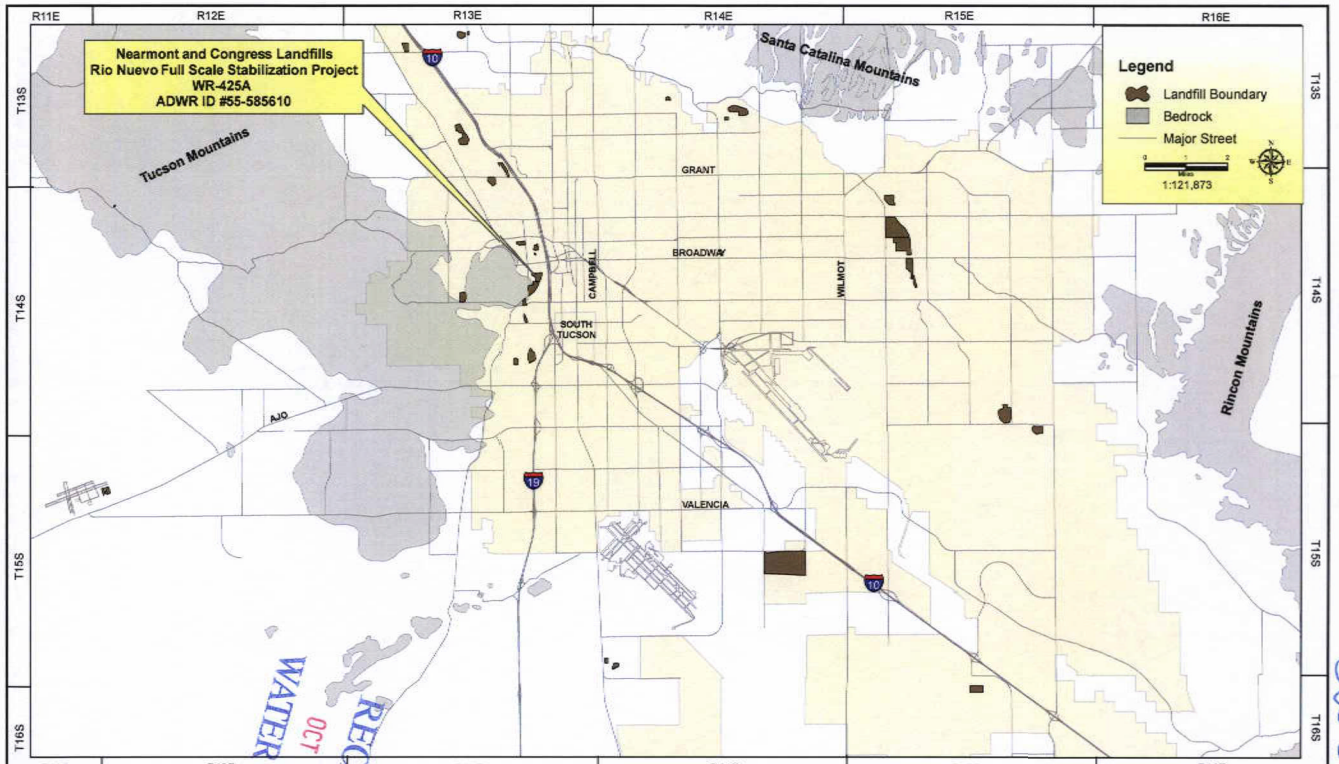

CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 1
LOCATION MAP
WR-425A
RIO NUEVO FULL SCALE STABILIZATION PROJECT

Drawn By:	MC
Checked:	MC
Approved:	JD
Date:	9/22/2009
File:	See Below

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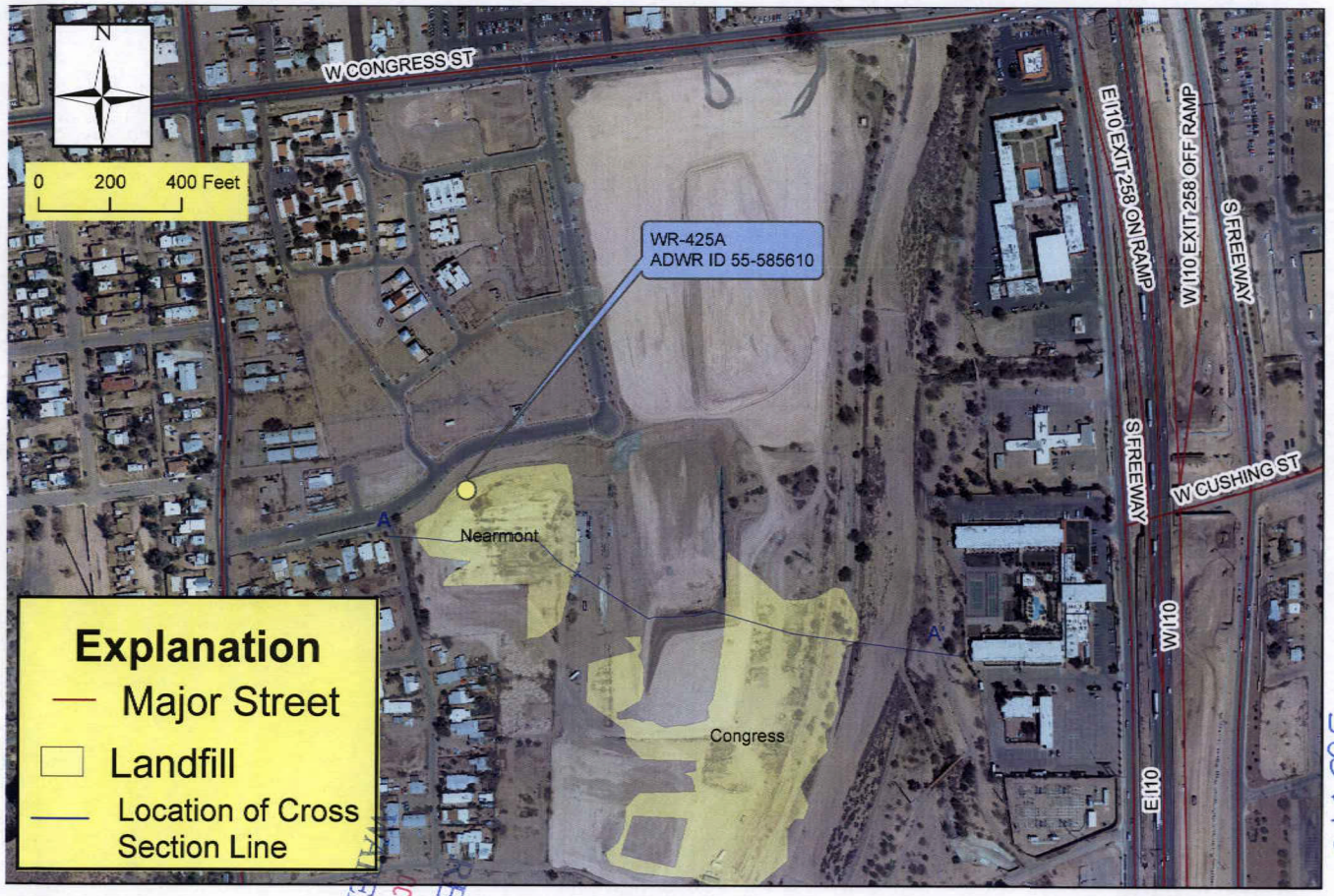

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ENVIRONMENTAL SERVICES

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FIGURE 2
WR-428A
Well and Cross Section
Location Map

Drawn By:	MC
Checked:	LE
Approved:	JD
Date:	8/14/2009
File:	See Below

I:\GIS\Rio Nuevo South\2009\wr-428a.mxd

Arizona Department of Water Resources
Information Management Unit
P.O. Box 33589 Phoenix, Arizona 85067-3589
(602) 771-8627 • (800) 352-8488
www.azwater.gov

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ENTERED OCT - 2 2009 MO

Well Driller Report and Well Log

FILE NUMBER: D(14-13)14ACB

WELL REGISTRATION NUMBER: 55 - 585610

PERMIT NUMBER (IF ISSUED):

THIS REPORT MUST BE FILED WITHIN **30 DAYS** OF COMPLETING THE WELL.

PLEASE PRINT CLEARLY USING BLACK OR BLUE INK.

SECTION 1. DRILLING AUTHORIZATION

Drilling Firm

Mail To:

NAME: WDC Exploration & Wells	DWR LICENSE NUMBER: 161
ADDRESS: 1200 West San Pedro Street	TELEPHONE NUMBER: 480-813-4486
CITY / STATE / ZIP: Gilbert, Arizona 85233	FAX: 480-813-5671

SECTION 2. REGISTRY INFORMATION

Well Owner

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL: City of Tucson

MAILING ADDRESS: 100 N. Stone Ave, 2nd Floor

CITY / STATE / ZIP CODE: Tucson, AZ 85701

CONTACT PERSON NAME AND TITLE: Molly Collins

TELEPHONE NUMBER: 520-791-5414

FAX: 520-791-5417

WELL NAME (e.g., MW-1, PZ-3, Lot 25 Well, Smith Well, etc.): WR-425A

Location of Well

WELL LOCATION ADDRESS (IF ANY): 890 W. Congress St, Tucson AZ 85745

TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
14S	13E	14	NE ¼	SW ¼	NW ¼

LATITUDE			LONGITUDE		
32 ° Degrees	12 ' Minutes	3 "N Seconds	110 ° Degrees	59 ' Minutes	8.16 "W Seconds

METHOD OF LATITUDE/LONGITUDE (CHECK ONE)
☐ *GPS: Hand-Held ☐ *GPS: Survey-Grade

LAND SURFACE ELEVATION AT WELL: Feet Above Sea Level

METHOD OF ELEVATION (CHECK ONE)
☐ *GPS: Hand-Held ☐ *GPS: Survey-Grade

*GEOGRAPHIC COORDINATE DATUM (CHECK ONE)
☐ NAD-83 ☐ Other *(please specify)*:

COUNTY: Pima

ASSESSOR'S PARCEL ID NUMBER: BOOK 116 | MAP 20 | PARCEL 6280

SECTION 3. WELL CONSTRUCTION DETAILS

Drill Method

CHECK ALL THAT APPLY
- ☐ Air Rotary
- ☒ Bored or Augered
- ☐ Cable Tool
- ☐ Dual Rotary
- ☐ Mud Rotary
- ☐ Reverse Circulation
- ☐ Driven
- ☐ Jetted
- ☐ Air Percussion / Odex Tubing
- ☐ Other *(please specify)*:

Method of Well Development

CHECK ALL THAT APPLY
- ☐ Airlift
- ☐ Bail
- ☐ Surge Block
- ☐ Surge Pump
- ☐ Other *(please specify)*:

Method of Sealing at Reduction Points

CHECK ONE
- ☒ None
- ☐ Packed
- ☐ Swedged
- ☐ Welded
- ☐ Other *(please specify)*:

Condition of Well

CHECK ONE
- ☒ Capped
- ☐ Pump Installed

Construction Dates

DATE WELL CONSTRUCTION STARTED: 2/7/01

DATE WELL CONSTRUCTION COMPLETED: 2/7/01

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

SIGNATURE OF QUALIFYING PARTY: [signature]

DATE: 9/23/09

Well Driller Report and Well Log

WELL REGISTRATION NUMBER
55 - 585610

SECTION 4. WELL CONSTRUCTION DESIGN (AS BUILT) (attach additional page if needed)

Depth

DEPTH OF BORING	DEPTH OF COMPLETED WELL
48 Feet Below Land Surface	48 Feet Below Land Surface

Water Level Information

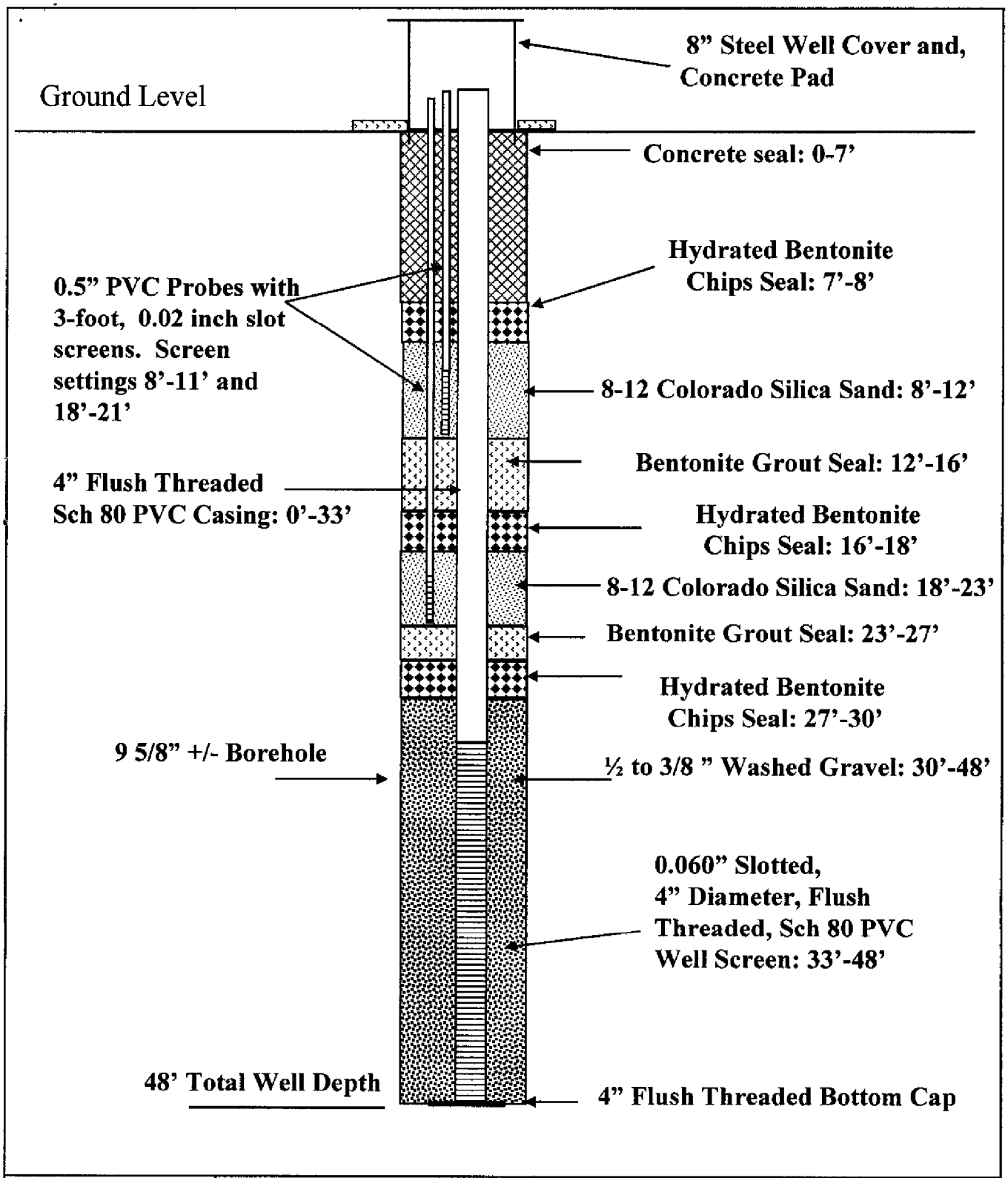
STATIC WATER LEVEL	DATE MEASURED	TIME MEASURED	IF FLOWING WELL, METHOD OF FLOW REGULATION
No Water Feet Below Land Surface			☐ Valve ☐ Other:

Borehole / Installed Casing

Borehole: DEPTH FROM SURFACE FROM (feet)	Borehole: DEPTH FROM SURFACE TO (feet)	Borehole: BOREHOLE DIAMETER (inches)	Installed Casing: DEPTH FROM SURFACE FROM (feet)	Installed Casing: DEPTH FROM SURFACE TO (feet)	OUTER DIAMETER (inches)	MATERIAL TYPE (T): STEEL	MATERIAL TYPE (T): PVC	MATERIAL TYPE (T): ABS	IF OTHER TYPE, DESCRIBE	PERFORATION TYPE (T): BLANK OR NONE	PERFORATION TYPE (T): WIRE WRAP	PERFORATION TYPE (T): SHUTTER SCREEN	PERFORATION TYPE (T): MILLS KNIFE	PERFORATION TYPE (T): SLOTTED	IF OTHER TYPE, DESCRIBE	SLOT SIZE IF ANY (inches)
0	48	10	0	33	4		✓			✓						
			33	48	4		✓						✓			.06
			0	8	.5		✓			✓						
			8	11	.5		✓						✓			.02
			0	18	.5		✓			✓						
			18	21	.5		✓						✓			.02

Installed Annular Material

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	ANNULAR MATERIAL TYPE (T): NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE: GROUT	BENTONITE: CHIPS	BENTONITE: PELLETS	IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE	FILTER PACK: SAND	FILTER PACK: GRAVEL	SIZE
0	7			✓								
7	8						✓					
8	12									✓		8-12
12	16				✓							
16	18						✓					
18	23									✓		8-12
23	27				✓							
27	30						✓					
30	48										✓	1/2"-3/8"



CITY OF TUCSON ENVIRONMENTAL SERVICES

WR-425A As Constructed Diagram
Well ID #55-585610

Section 5. Original Well Construction Design Additional Sheet for 55-585610 Well Abandonment

Borehole			Casing													
Depth from Surface		Diameter (in)	Depth from Surface		Diameter (in)	Material Type				Perforation Type						Slot Size (in)
From (ft)	To (ft)		From (ft)	To (ft)		Steel	PVC	ABS	Other	Blank or None	Wire Wrap	Shutter Screen	Mills Knife	Slotted	Other	
0	48	9 5/8	0	33	4		x			x						
			33	48	4		x							x		0.06
			0	8	0.5		x			x						
			8	11	0.5		x							x		0.02
			0	18	0.5		x			x						
			18	21	0.5		x							x		0.02

Annular Material													
Depth from Surface		Annular Material Type								Filter Pack		
From (ft)	To (ft)	None	Concrete	Cement or Cement Grout	Cement Bentonite Grout	Grout	Bentonite Chips	Pellets	Other	Sand	Gravel	Size
0	7			x								
7	8						x					
8	12									x		8-12
12	16				x							
16	18						x					
18	23									x		8-12
23	27				x							
27	30						x					
30	48										x	1/2" to 3/8"

9/22/2009

ARIZONA DEPARTMENT OF WATER RESOURCES

GROUNDWATER MANAGEMENT SUPPORT SECTION

500 North Third Street
Phoenix, Arizona 85004

VARIANCE GRANTED

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-585610

AUTHORIZED DRILLER: THF DRILLING, INC. LICENSE NO: 611

NOTICE OF INTENTION TO DRILL A MONITOR WELL(S) HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: CITY OF TUCSON PO BOX 27210 TUCSON, AZ 85726

The well(s) is/are to be located in the:

NW ¼ of the SW ¼ of the NE ¼ Section 14 Township 14 SOUTH Range 13 EAST

No. of wells in this project: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 8TH DAY OF FEBRUARY, 2002

GROUNDWATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A LOG OF THE WELL
WITHIN 30 DAYS OF COMPLETION OF DRILLING

GREAT SEAL OF THE STATE OF ARIZONA
DITAT DEUS
1912

ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION

MAIL TO: P.O. BOX 458, PHOENIX, ARIZONA 85001-0458
FOR INFORMATION: CALL MONICA ORTIZ AT 602-417-2470

RECEIVED FEB - 9 2001 GROUNDWATER MGT

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

PLEASE READ GENERAL INSTRUCTIONS AND CONDITIONS ON REVERSE SIDE OF THIS FORM BEFORE COMPLETING.

1. Well/land Location:

14 N/S 13 E/W 14
Township Range Section

NW ¼ SW ¼ NE ¼
10 Acre 40 Acre 160 Acre

2. Position location of the well on the land:

Latitude 110 o 39 ' 22 "

Longitude 32 o 13 ' 02 "

3. County: Pima

4. Owner of the well:

City of Tucson
Name
P.O. Box 27210
Mailing Address
Tucson AZ 85726
City State Zip

Telephone No. (520) 791-5414

5. Lessee of the land of wellsite:

Name

Mailing Address

City State Zip

Telephone No.

6. Owner of the Land of Wellsite:

City of Tucson
Name
P.O. Box 27210
Mailing Address
Tucson AZ 85726
City State Zip

Telephone No. (520) 791-5414

7. Consulting firm:

Hydro Geo Chem, Inc.
Name
Jinshan Tang
Contact Person

Telephone No. (520) 293-1500

8. Purpose of well drilled pursuant to this notice:

Monitor vapor monitoring wells
Piezometer

9. If for deepening or modifying, list well registration number:
55-

*** FOR DEPARTMENT USE ONLY**

File No. D(14-13)14 ACB
Filed 2/9/01 By
Input By

DUPLICATE
Mailed 2/20/01 By
Registration 55- 5856610
AMA/INA Tucson
W/S 09 S/B 16
mo.

10. Will this proposed well be associated with a permit: Yes No X
If yes, Permit No.

11. Construction will start:

02 07 2001
Month Day Year

12. Period well will remain in use:

5 Months/Years

13. For monitoring wells, is pump equipment to be installed?

Yes No X

(a) If yes, design pump

SPECIAL REQUIREMENTS

(b) What use will be made of the water:

14. Drilling Firm:

THF Drilling, Inc.
Name
[illegible] 16th Avenue
Mailing Address
Phoenix AZ 85007
City State Zip
(602) 254-6586
Telephone No.
611
DWR License Number
099597-A4
ROC License Category

VARIANCE GRANTED

15. Proposed method of abandonment of well after project is completed: surface completion material to be removed, well tobe filled and sealed with cement grout, **pursuant to R12-15-816.**

16. Is this well to monitor existing contamination? No **Potential contamination:** **Please explain:** Use for soil vapor monitoring.

17. If construction plans have been coordinated with Arizona Department of Environmental Quality, who is the agency contact? None

18. If construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact?

19. WELL CONSTRUCTION PLAN:

a) Drilling method (mud rotary, hollow-stem auger, etc.) hollow-stem auger

b) Borehole diameters: 10 inches from 0 feet to 50 feet.
_____ inches from _____ feet to _____ feet.

c) Casing materials (PVC, steel, hollow-stem auger, etc.)
material sch 80 PVC diameter 4 inches from -2 feet to 40 feet.
material _____ diameter _____ inches from _____ feet to _____ feet.

d) Method of sealing at reductions None

e) Annular seal materials (cement, grout, etc.,); method of placement (tremied, circulated):
material Bentonite seal method tremied from 35 feet to 38 feet.
material cement method tremied from 0 feet to 35 feet.

f) Filter packs (state material):
material gravel (¼-inch) from 38 feet to 50 feet.
material _____ from _____ feet to _____ feet.

g) Perforations or screen specifications:
Type PVC, sch 80, 0.06" slot from 40 feet to 50 feet.
Type _____ from _____ feet to _____ feet.

h) Method of well development (bail, air lift, surge) _____

i) Will surface or conductor casing extend above grade?: Yes x No _____

20. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified.

I state that this Notice is filed in compliance with Rule A.A.C. R12-15-809, is complete and correct to the best of my knowledge and belief and that I understand the conditions set forth on this form.

DANIEL SAMORANO MANAGER — D. Santamaria Samorano — 2/7/01

Typed or Printed Name and Title — **Signature [✓] Land Owner [ ] Lessee of Wellsite, Title** — **Date**

Necessary Steps and Instructions to Obtain Drilling Authority (Monitor/Piezometer Wells)

1. Arizona Revised Statues ("A.R.S.") § 45-596 provides that prior to drilling a monitor or piezometer well, a Notice of Intention to Drill must be filed with the Department. To assist you in understanding the substantive requirements for this application, copies of A.R.S. § 45-596 and Arizona Administrative Code ("A.A.C.") R12-15-810 are available thru the department bookstore.
2. Information to complete items 1, 2, and 3 may be available from your County Tax Receipt or your County Assessors Office.
3. Information to complete item 9 is available from your copy of the original Notice of Intent to Drill or our Records Division at (602)417-2405.
4. Information to complete items 11, 14 and 15 may be available from your driller.
5. If an individual other than the land owner or lessee signs this notice, an original **notarized** letter of authorization from the land owner/lessee, stating that the individual has permission to sign this specific Notice on his or her behalf, must accompany the Notice of Intention to Drill a Monitor/Piezometer Well.
6. Please complete two original notices with original signatures and include a $10.00 check or money order for the processing fee, in accordance with A.R.S. § 45-113. Submit them to: P.O. Box 458, Phoenix, Arizona 85001-0458.

TIME FRAME FOR REVIEW OF YOUR APPLICATION

Within 15 days after receipt of your Notice of Intention, the Arizona Department of Water Resources ("Department") will determine whether your application should be granted or denied, unless this time is extended for lack of a complete application. If your application is incomplete, the Department will notify you in writing and will specify what information is necessary to make the application complete. Until the missing information is received, the time frame for review of your application will be suspended. Your application will not be complete until all of the requested information is received. If you do not supply the missing information within sixty (60) days, the Department may deem your application withdrawn and close the file.

At the end of its review, the Department will send you written notice either granting or denying your application for drilling authority. If your application is approved, the Drill Card will be mailed directly to the drilling company. If denied, the Department's notice will state justification for the denial and an explanation of your right to appeal.

Construction and Follow-up Requirements

1. Construction and abandonment standards for all wells must be in accordance with Department Rules.
2. A.A.C. Rule R12-15-811(H)(2) requires a monitor well to be identified as such on the vault cover or at the top of the steel casing. Identification information must include the well registration number.
3. Pursuant to A.R.S. § 45-596(E), drilling, deepening or modification of the well must be completed within one year after the date of the Notice of Intent.
4. A Well Driller Report is required within thirty (30) days of completion of drilling. Within thirty (30) days after installation of pumping equipment in monitor wells, a Completion Report must be filed with the Department.
5. Pump equipment may not be installed on a well drilled for piezometer purposes. If a monitor well is pumped, pumping is limited to the maximum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual total volume of 10 acre feet.
6. Special construction standards required pursuant to A.A.C. Rule R12-15-821: _____

ARIZONA DEPARTMENT OF WATER RESOURCES

GROUNDWATER MANAGEMENT SUPPORT SECTION

500 North Third Street
Phoenix, Arizona 85004

VARIANCE GRANTED

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-585610

AUTHORIZED DRILLER: THF DRILLING, INC. LICENSE NO: 611

NOTICE OF INTENTION TO DRILL A MONITOR WELL(S) HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: CITY OF TUCSON PO BOX 27210 TUCSON, AZ 85726

The well(s) is/are to be located in the:

NW ¼ of the SW ¼ of the NE ¼ Section 14 Township 14 SOUTH Range 13 EAST

No. of wells in this project: 1

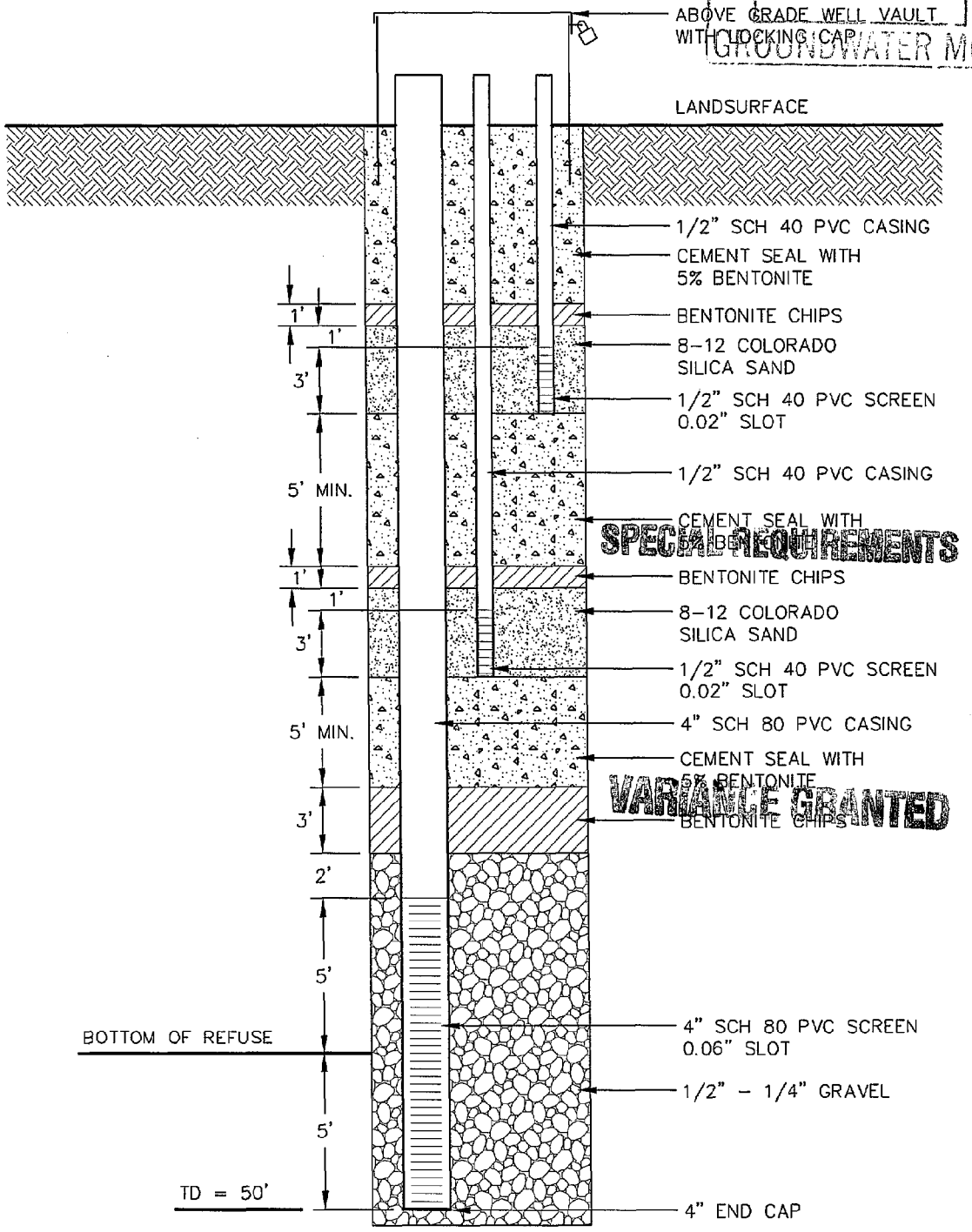
THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 8TH DAY OF FEBRUARY, 2002

GROUNDWATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A LOG OF THE WELL WITHIN 30 DAYS OF COMPLETION OF DRILLING

GREAT SEAL OF THE STATE OF ARIZONA
DITAT DEUS
1912

RECEIVED
FEB - 9 2001
GROUNDWATER MGT



SPECIAL REQUIREMENTS
VARIANCE GRANTED

NOTE:
REGIONAL WATER TABLE BETWEEN 80' AND 120' BLS.

NOT TO SCALE

NAME: K:\745000\74502001.DWG DATE: FEB 07, 2001 TIME: 8:43 AM

HYDRO GEO CHEM, INC.

MULTI-PURPOSE WELL CONSTRUCTION DIAGRAM AT RIO NUEVO SITE

Approved	Date	Revised	Date	Reference:	FIG.
JT	2/5/01			74502001	

CITY OF TUCSON
INVESTING IN OUR COMMUNITY

RECEIVED
FEB - 9 2001
GROUNDWATER MGT

CITY MANAGER
OFFICE OF ENVIRONMENTAL MANAGEMENT

February 7, 2001

Arizona Department of Water Resources (ADWR)
Groundwater Management Support Section
P.O. Box 458
Phoenix, Arizona 85001

Subject: Notice of intent to drill monitoring wells

To whom it may concern,

It is our intent to drill three vapor monitoring wells approximately 35 feet deep at the former Nearmont Landfill site. Historical records indicate that an intermittent perched water zone may be present north of the site. The three vapor monitoring wells may intersect this zone. For this reason, please find an application and payment of $30.00 enclosed for the proper permitting of water wells.

If you have any questions please contact Daniel Samorano. Thank you for your assistance in this matter.

Sincerely,

D. Santamaria Samorano
for

Karen Masbruch
Director

Copy: Daniel Samorano, Environmental Mgt.

(520) 791-5414 • FAX: (520) 791-5417 • P.O. BOX 27210 • TUCSON, ARIZONA 85726-7210

RECEIVED
FEB - 9 2001
GROUNDWATER MGT

From: Ray Murray
To: Karen Masbruch
Date: 2/7/01 9:05AM
Subject: Richard/Nearmont

Richard has to go home from 9:30-noon. Landlord is finally delivering a stove for his rental house. We need to give the NOIs to Jeff Tannler, ADWR Tucson to send by FAX to Al Ramsey ADWR Phoenix. Should be able to get approval to drill the other two wells today. The NOIs need to be in Phoenix by 10:30AM. FAX number is 602-417-2401.

CC: Danny Samorano

THF DRILLING, INC.

2420 South 18th Avenue
Phoenix, Arizona 85007
Phone: (602) 254-6586
Fax: (602) 254-6648

RECEIVED
FEB - 9 2001
GROUNDWATER MGT

February 7, 2001

Arizona Department of Water Resources
Hydrology Division
Attn: Bruce Hammet
500 North 3rd Street
Phoenix, Arizona 85004

Subject: Request for Variance

Dear Bruce:

On behalf of Hydro Geo Chem, Inc. THF Drilling, Inc. requests a variance in the construction of three (3) Vapor Monitoring wells to a depth of 50', at Rio Nuevo Site located at Township 14 South, Range 13 East, of the NW ¼, SW ¼, NE ¼ of Section 14 in Tucson, Arizona.

1. The Vapor monitoring wells will be constructed with SCH. 40 PVC casing in the upper 20' of the well, in lieu of the required 20' of steel casing.

2. Due to the shallow construction depth and the number of vapor probes required to properly monitor, thus a reduced surface seal of 15' in lieu of the 20' required.

Thank you for your attention to this request for variance. If you have any questions please call us at (602) 254-6586 / or Jinshan Tang at (520) 293-1500 Ext 118.

Sincerely,
THF Drilling, Inc.

Ray Quintero
Operations Manager

ARIZONA DEPARTMENT OF WATER RESOURCES
Hydrology Division
500 North Third Street, Phoenix, Arizona 85004
Telephone 602 417-2448
Fax 602 417-2425

JANE DEE HULL
Governor

RITA PEARSON MAGUIRE
Director

February 15, 2001

THF Drilling, Inc.
2420 South 16th Avenue
Phoenix, AZ. 85007

Attn: Ray Quintero

RE: Variances for Construction of Three Vapor Monitor Wells
Registration Numbers 55-585610 through 55-585612

Dear Mr. Quintero:

The Arizona Department of Water Resources received your request dated February 9, 2001 for construction variances for three vapor monitor wells to be located in Pima County. The purpose of these wells will be to evaluate **potential** groundwater contamination.

The Arizona Department of Water Resources approves this request for the following variances:

- Thermoplastic casing with a water tight cap may be used in lieu of steel (R12-15-811.B.1).
- The length of the surface seal may be reduced to 15 feet below ground surface due to a possible shallow water table (R12-15-811.B.1).

The following *special requirements* are conditions for these variances (R12-15-821.):

- The casing shall comply with ASTM Standard Guide D5092, Section 6.5.
- The wells shall be constructed per the "Variance Granted" Notice of Intention to Drill.
- The wells shall be abandoned (decommissioned) in accordance with A.A.C. R12-15-816.

If you have any questions, contact Bruce Hammett of my staff at 602-417-2400 ext. # 7301.

Sincerely,

Frank Corkhill
Technical Support Section Supervisor

FC/BH/jas
503337

ARIZONA DEPARTMENT OF WATER RESOURCES
500 North 3rd Street, Phoenix, Arizona 85004
Telephone (602) 417-2470
Fax (602) 417-2422

February 20, 2001

JANE DEE HULL
Governor

RITA PEARSON MAGUIRE
Director

CITY OF TUCSON
PO BOX 27210
TUCSON, AZ 85726

Registration No. 55-585610
File No. D(14-13) 14 ACB

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill a well. This is returned to you as evidence of compliance with A.R.S. §45-596. A drilling card has been mailed to your designated driller. Prior to drilling he must have it in his possession.

Since this well is being drilled as a Monitor well, or for Cathodic Protection, Grounding, Geotechnical or Piezometer purposes, our standard driller report form is also being furnished to the driller. He is required to complete it and return it to the Department within 30 days after the completion of the well. A Completion Report form is being furnished for monitor wells where pump installation is authorized. This must be completed within thirty days of installation as required by A.R.S. §45-600.

A Change of Well Information form is enclosed for your future use . If you deem it necessary to change the location of the proposed well, please notify the Department on the enclosed form. A properly amended Drilling Card will then be issued and must be in possession of the driller before drilling begins. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report must be submitted per R12-15-816.F.

Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, in order to keep the well registration file current and accurate.

Sincerely,

Toni Bergeman

Toni Bergeman
Water Resource Technician
Groundwater Management Support Section

Enclosures

ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION

MAIL TO: P.O. BOX 458, PHOENIX, ARIZONA 85001-0458
FOR INFORMATION: CALL MONICA ORTIZ AT 602-417-2470

RECEIVED FEB - 9 2001 GROUNDWATER MGT

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

PLEASE READ GENERAL INSTRUCTIONS AND CONDITIONS ON REVERSE SIDE OF THIS FORM BEFORE COMPLETING.

1. Well/land Location:

14 N/S 13 E/W 14
Township Range Section

NW ¼ SW ¼ NE ¼
10 Acre 40 Acre 160 Acre

2. Position location of the well on the land:

Latitude 110 o 39 ' 22 "

Longitude 32 o 13 ' 02 "

3. County: Pima

4. Owner of the well:

City of Tucson
Name
P.O. Box 27210
Mailing Address
Tucson AZ 85726
City State Zip

Telephone No. (520) 791-5414

6. Owner of the Land of Wellsite:

City of Tucson
Name
P.O. Box 27210
Mailing Address
Tucson, AZ 85726
City State Zip

Telephone No. (520) 791-5414

7. Consulting firm:

Hydro Geo Chem, Inc.
Name
Jinshan Tang
Contact Person

Telephone No. (520) 293-1500

8. Purpose of well drilled pursuant to this notice:

Monitor vapor monitoring wells
Piezometer

9. If for deepening or modifying, list well registration number:
55-

10. Will this proposed well be associated with a permit: Yes ____ **No** X
If yes, Permit No. ____

11. Construction will start:

02 07 2001
Month Day Year

12. Period well will remain in use:

5 Months/Years

13. For monitoring wells, is pump equipment to be installed?

Yes ____ No X

(a) If yes, design pump capacity:

(b) What use will be made of the water:

14. Drilling Firm:

FOR SECURITY PURPOSES, THIS DOCUMENT CONTAINS MICROPRINTING IN THE BORDER AND AN ARTIFICIAL WATERMARK ON THE REVERSE SIDE - HOLD AT AN ANGLE TO VIEW

HYDRO GEO CHEM, INC.
51 W. WETMORE ROAD UNIT 101
TUCSON, ARIZONA 85705-1678
(520) 293-1500

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED AS FULL PAYMENT OF THE FOLLOWING ACCOUNT

91-170/1221

11206

PAY Thirty and no/100 DOLLARS

DATE	TO THE ORDER OF	DESCRIPTION	CHECK NO.	NET AMOUNT
2/1/01	Az Dept. of Water Resources	permit	11206	30 00

[redacted]

BANK OF AMERICA
33 N. STONE TUCSON, ARIZONA 85701

MP

FOR SECURITY PURPOSES, THIS DOCUMENT CONTAINS MICROPRINTING IN THE BORDER AND AN ARTIFICIAL WATERMARK ON THE REVERSE SIDE - HOLD AT AN ANGLE TO VIEW

[redacted] [redacted]

17. If construction plans have been coordinated with Arizona Department of Environmental Quality, who is the agency contact? ____

None

18. If construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact? ____

DWR-55-44a (Rev 1/99)

VARIANCE CHECKLIST - HYDROLOGY

DATE RECEIVED 2-9-01
DATE TO HYDRO 2-14-01
DATE TO GMSS 2-16-01

POTENTIAL REG. Nº 55-_____

55-585610 THRU 55-585612

FRONT OF N.O.I COMPLETE/CORRECT: YES X NO ____

VARIANCE (?) LETTER RECEIVED YES X NO ____
WELL DIAGRAM (?) RECEIVED YES X NO ____
SITE PLAN (?) RECEIVED YES ____ NO X

TYPE AND NUMBER OF WELLS:

3 MONITOR
____ PIEZOMETER
____ GEOTECHNICAL
____ MINERAL EXPLORATION
____ WATER PRODUCTION
____ CATHODIC PROTECTION
____ GROUNDING
____ HEAT PUMP
____ OTHER _____
DESCRIBE TYPE OF WELL

VARIANCE:

✓ REQUIRED
____ NOT REQUIRED
✓ GRANTED
____ NOT GRANTED
____ LETTER ISSUED

ATTENTION!!! NOTICE OF INTENT TEAM:

____ HARD COPY OF LETTER TO FOLLOW
____ CALL FOR PICKUP

COMMENTS: OK. Gah

NOI Variance Checklist for Hydrology - 01/12/00

M.O.