WATER WELL PLUGGING R	ECORD Form W	WC-5P KSA 8	2a-1212 ID NO.	BIU-1	
1 LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number	
County: Neosho		Clobal Positionina	T 27 S	18	
Street/Rural Address of Well Location; if unknown, distance & Global Positioning Systems (GPS) information:  Latitude:					
check here. [ ] Longitude:(in decimal degrees)					
Elevation: Datum: WGS84, NAD83, NAD27					
Approximately 1.5 miles SE of Dowtown Chanute Collection Method:					
2 WATER WELL OWNER: City of Chanute GPS unit (Make/Model:					
RR#, St. Address, Box #: 101 S. Lincoln, PO Bx 907					
City, State ZIP Code: Chanute, KS 66720 Est. Accuracy: $\square$ <3 m, $\square$ 3-5 m, $\square$ 5-15 m, $\square$ > 15 m					
3 MARK WELL'S LOCATION 4 DEPTH OF WELL 20.35 ft.					
WITH AN "X" IN SECTION					
BOX:					
WELL WAS USED AS:					
NW NE Domestic Public Water Supply Dewatering					
W Irrigation Oil Field Water Supply Monitoring  Domestic (Lawn & Garden) Injection Well					
Industrial Air Conditioning Other					
SW / SE — Was a chemical/bacteriological sample submitted to Department? Yes ☐ No ☑					
was a chemical bacteriological sample submitted to Department? Tes 170 (2)					
5 TYPE OF BLANK CASING USED:					
Do . Dr. m (n) D. W					
Steel RMP (SR) Wrought Fiberglass Other (Specify below)  PVC ABS Concrete Tile					
Blank casing diameter 1 in. Was casing pulled? Yes No If yes, how much 20.35 feet					
Casing height above or below land surface in.					
6 GROUT PLUG MATERIAL: Neat cement Cement grout Bentonite Other					
Grout Plug Intervals: From 3 ft. to 20.35 ft., From ft. to ft., From to ft.					
What is the nearest source of possible contamination:  Septic tank  Seepage pit  Fuel Storage  Other (specify below)					
Sewer lines Pit privy Fertilizer storage Landfill					
Watertight sewer lines Sewage lagoon Insecticide storage Lateral lines Feedyard Abandoned water well Direction from well? West					
Lateral lines Feedyard Abandoned water well Direction from well? West  Cess pool Dil Livestock pens Oil well/Gas well How many feet?					
	GING MATERIALS	FROM TO	PLUGGING	MATERIALS	
0 3 Native Soil		<u> </u>			
3 20.35 Bentonite					
	THE TAXABLE TO STATE OF THE STA				
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was plugged under my jurisdiction and was					
completed on (mo/day/year) 3/17/2010 and this record is true to the best of my knowledge and belief. Kansas Water					
Well Contractor's License No. 708 . This Water Well Record was completed on (mo/day/year) 7/8/10 under the business name of Aquaterra Environmental Solutions, Inc. by (signature)					
Unstress righte of Advances Estational and Colonoles, 110.					
INSTRUCTIONS: Use typewriter or ballpoint pen. Please press firmly and print clearly. Please fill in blanks, underline or circle the					
correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Ste. 420, Topeka, Kansas 66612-1367. Telephone: 785/296-5524. Send one to Water Well Owner and retain one for your					
records. Visit us at http://www.kdheks.gov/waterwell/index.html.					
Check one:  White Copy  Blue Copy  Pink Copy					



August 2, 2010

Mr. John Venneman
Public Works Supervisor
City of Chanute
101 South Lincoln
Chanute, Kansas 66720

**COPY** 

Re: Well Abandonment - BIP and PRB Wells

Chanute Sanitary Landfill
Kansas Solid Waste Permit Number 274
Aquaterra Project Number 2112.10

Dear Mr. Venneman:

On March 17, 2010, Aquaterra Environmental Solutions, Inc. (Aquaterra) abandoned fifteen monitoring wells (BIU-1 through BIU-5, and BID-1 through BID-10) located at the Chanute Sanitary Landfill in Chanute, Kansas. An additional 42 monitoring wells (RBU-1 through RBU-6, RBD-1 through RBD-24, and PRB-1 through PRB-12) were abandoned by Aquaterra on June 23, 2010. This letter briefly summarizes the abandonment activities.

## SITE INFORMATION

The Chanute Sanitary Landfill is located at 2201 E. 14th Street in Chanute, Neosho County, Kansas. The approximate total area of the facility property is 80 acres located in the East ½, Southwest ¼ of Section 27, Township 27 South, Range 18 East. Fifteen Bioremediation Enhancing Injection Point (BIP) wells were installed on the property during pilot test activities completed by Aquaterra in 2002/2003.

A 35-acre low concentration chlorinated aliphatic hydrocarbon (CAH) impacted groundwater plume emanating from the Chanute Sanitary Landfill was discovered in the late 1980s. Based on historical investigations at the site, the impacted groundwater traveled east/northeast from the landfill, and some of the groundwater eventually discharged via riverbank seeps into the Neosho River.

BIP pilot tests began in September 2002, in conjunction with three other remedial technologies aimed at addressing the CAH impacted groundwater plume: Permeable Reactive Barriers (PRB); Landfill Cap Drainage Improvements and Evapotranspiration (ET) - Tree Cap; and, Deep Planted Poplar Trees. In September 2002, five upgradient (BIU-1

Well Abandonment Chanute Sanitary Landfill Chanute, Kansas August 2, 2010 Page 2 of 2

through BIU-5) and ten downgradient (BID-1 through BID-10) mini-wells were installed around the BIPs. Based on the results of the remedial pilot testing, the BIP and PRB wells were no longer needed. KDHE requested that the BIP and PRB wells be properly abandoned.

## **ABANDONMENT ACTIVITIES**

Aquaterra performed well abandonment activities on March 17 and June 23, 2010. The City of Chanute provided a backhoe/operator during both events, which was used to remove the PVC casing at wells BIU-1 through BIU-5, BID-1 through BID-10, RBU-1 through RBU-6, RBD-1 through RBD-24, and PRB-1 through PRB-12. The boreholes were backfilled with medium bentonite chips from the bottom of the borehole to within approximately 3 feet bgs and hydrated. Native soils were used to backfill the remaining 3 feet and bring the boreholes flush with the ground, restoring the surface to conform to current property use. Copies of the completed Water Well Plugging Records (Forms WWC-5P) are attached.

Aquaterra appreciates the opportunity to provide environmental services to the City of Chanute. If you have any questions or need additional information, please do not hesitate to contact our office at (913) 681-0030.

Sincerely,

Aquaterra Environmental Solutions, Inc.

Anne S. Melia, CHMM

Project Manager

Susan McCart, P.E., P.G.

Susan McCart

Senior Project Manager

**Attachments** 

Cc: Mr. Scott Yankey, KDHE-BER KDHE-BOW, Geology Section