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AZ CORP COMMISSION
DOCKET CONTROL

ORIGINAL

July 31, 2014

Renee de la Fuente
1200 W. Washington St.
Phoenix, AZ 85007

Arizona Corporation Commission
DOCKETED
AUG 01 2014

DOCKETED BY 

RE: Southland Sanitation Closure

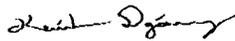
SW-02390A-05-0796

Dear Renee:

As of 2007 the sanitation system has been tied into the City of Sierra Vista and final approval of the Clean Closure by ADEQ was December 20, 2012. This company has been dissolved since 2007 and all assets were transferred to the City of Sierra Vista. I will send you a copy of the approved closure for your files.

If you have any questions, please feel free to contact me.

Sincerely,



Keith Dojaquez, CCI
Vice President and Operations Manager
Southwestern Utility Management
For Southland Utilities



Janice K. Brewer
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • www.azdeq.gov



Henry R. Darwin
Director

December 24, 2012

Mr. Andrew L. Romo
Southland Sanitation, Inc.
2730 E. Broadway Blvd. Suite 135
Tucson, AZ 85716

Re: Clean Closure Application for Aquifer Protection Permit No. P-101491, LTF # 43169
Southland Sanitation, Inc. - Golden Acres Wastewater Treatment Plant (WWTP)

Dear Mr. Romo:

Enclosed is a signed copy of a Clean Closure Approval and the Executive Summary for the Clean Closure for the above referenced facility. The permit conditions shall apply from December 20, 2012 which is the date of the Water Quality Division Director's signature, and shall be valid for the life of the facility. Thank you for your cooperation in protecting the water quality of the state of Arizona. If you have any questions, please feel free to contact me by phone at (602) 771-4503, or by email at vb2@azdeq.gov.

Sincerely,

Vinita Bhatt, APP Project Manager
APP and Reuse Unit
Groundwater Section, Water Quality Division

CERTIFIED MAIL – Return Receipt Required
Attachments: Signed APP and Fact Sheet

cc: Asif Majeed, Supervisor, APP and Reuse Unit
Lynne Dekarske, Environmental Program Specialist, Administrative Unit
Kathy Boland, Manager, Water Quality Compliance Section, Data Unit
Mindi Cross, Manager, Water Quality Compliance Section
Daniel Czecholinski, Supervisor, Water Quality Compliance Section, Utility Field Services Unit
Marcia Colquitt, Supervisor, Water Quality Compliance Section, Enforcement Unit
David Lelsz, Ph.D., Supervisor, Administrative Services Unit – (Final Letter Only)
Peter Livingston, P.E. Consultant for Bosque Engineering, Bosque Engineering, AZ

APPR12: 0626

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733

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STATE OF ARIZONA
Aquifer Protection Permit Program
Clean Closure Approval

Inventory No. 101491, LTF No. 43169, Site Code No. 500646-00, Place ID No. 1479

Facility Name: Golden Acres Wastewater Treatment Plant

Owner and Operator: Southland Sanitation Inc.

The Golden Acres Wastewater Treatment Plant (WWTP) is located at 4050 E. Golden Acres Drive, Sierra Vista, Arizona, in Cochise County, Township 22 South, Range 21 East, Section 20, SW ¼, NW ¼, and NE ¼, NW ¼, of the Gila and Salt River Baseline and Meridian:

Latitude: 31° 31' 02" North

Longitude: 110° 15' 32" West

The permittee has completed a clean-closure investigation for closure and removal of the Golden Acres WWTP.

The Clean Closure Application was submitted by the permittee, Southland Sanitation Inc. on February 1, 2007 for the Golden Acres WWTP. The APP permit was issued on May 14, 2002 and authorized the Southland Sanitation Inc. to operate the Golden Acres WWTP with a capacity of 0.07 million gallon per day (mgd). The WWTP treated flows from 350 mobile home units, a community center and a laundry in the Golden Acres Mobile Home Park. The WWTP consisted of two unlined, aerated stabilization lagoons connected in series. The treated effluent was disposed by evaporation, infiltration, and reused under a reclaimed water permit. Post-closure monitoring and maintenance are not necessary to meet the requirements of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2 (Water Quality Control). The facility has met the clean closure criteria as defined in A.R.S. §49-201(5). In accordance with A.R.S. §49-252(D), an Aquifer Protection Permit is not required.

ADEQ may withdraw this decision if the provided information is found to be inaccurate. Further, this letter is not intended to waive any other federal, state, or local requirements that may apply to this facility.



Michael A. Fulton, Director
Water Quality Division
Arizona Department of Environmental Quality

Signed this 20 day of December, 2012

EXECUTIVE SUMMARY FOR CLEAN-CLOSURE APPROVAL

Inventory No. 101491, LTF No. 43169
Site Code No.500646-00, Place ID No. 1479

Facility Name

Golden Acres Wastewater Treatment Plant (WWTP)

Location

The Golden Acres WWTP is located at 4050 Golden Acres Drive, Sierra Vista, Cochise County, Arizona over groundwater of the Upper San Pedro Basin in Township 22 S, Range 21 E, Section 20, SW ¼, NW ¼, NW ¼, and NE ¼, NW ¼. of Salt River Baseline and Meridian:

Latitude: 31° 31' 02" N
Longitude: 110° 15' 32" W

Facility Description

The facility lies within a fenced area of four acres. There are two lagoons connected in series at the Golden Acres WWTP. The areas of the lagoons, in the order they receive discharge are: Lagoon #1, approximately 1 acre, and Lagoon #2, approximately 1 acre. The lagoons served approximately 350 mobile home units, a community center, and a laundry room at the Golden Acres Mobile Homes Park. The lagoons are unlined allowing both evaporation and soil treatment. The WWTP was designed for 70,000 gallons per day (gpd). Effluent was permitted to be disposed through evaporation, infiltration and under a reclaimed water permit. There were four (4) 1-hp aerators in each lagoon. The facility was classified as producing Class C reclaimed water pursuant to A.A.C. R18-11-307. The two lagoons ceased receiving wastewater in June of 2007.

There have never been any industrial or commercial connections to the system. A third unpermitted, unlined lagoon was previously used as an overflow lagoon for wastewater; however, operation of this lagoon ceased on January 6, 1997, and this lagoon was granted a clean closure by ADEQ.

Any sludge generated was hauled off site and disposed of in accordance with State and Federal regulations. Any remaining dried solids were disked into the bottom of the basins and graded to drain.

The facility is located approximately five miles southeast of Sierra Vista; 1.3 miles east of Highway 92, as measured 0.5 miles south of the intersection of Highway 92 with Buffalo Solider Trail. The facility is 5.5 miles east of the foot of the Huachuca Mountains, and lies at an elevation of 4,525 feet. The facility is surrounded to the north, east and south by primarily undeveloped native desert land. The Golden Acres Mobile Home Park borders the facility on the westernmost boundary.

There are no wells located within a ½ mile radius of the property boundary, with the exception of the on-site facility monitoring well (ADWR # 55-588309). The monitor well is located approximately 200 feet north east of the northeastern corner of the eastern lagoon. The depth to groundwater is

approximately 310 feet below ground surface (bgs). The groundwater flow direction is toward the northeast which follows the gradient of the surface topography. There are two main aquifers (the floodplain aquifer and the regional aquifer) that supply the water in the vicinity of the facility. Smaller aquifers, mainly in areas of fractured and saturated crystalline and consolidated rocks, provide just enough water for domestic and livestock purposes.

The facility is within the upper San Pedro River basin. The San Pedro Watershed originates in Mexico and trends north. The San Pedro River is perennial and passes approximately 6 miles east of the facility. There is an unnamed ephemeral wash tributary to the San Pedro River immediately south of the lagoons. The facility is not within both the 100 and 500-year flood dangers. According to the FEMA map, the lagoons are in "Zone X: Area determined to be outside of 500 year flood plain."

The site includes the following APP permitted discharging facilities:

Facility	Latitude	Longitude
Effluent Storage Lagoons	31° 31' 02" N	110° 15' 32" W

Regulatory Status

An Individual APP application for the Golden Acres WWTP was received on September 30, 1999, and an APP was issued on May 14, 2002. Clean closure for the first lagoon was issued on December 16, 1999. This application to close the two remaining lagoons was received on February 01, 2007.

Closure Investigation

The objective of this clean closure is to ensure that: (1) discharge is eliminated to the greatest degree possible; (2) there is no reasonable probability that the closed facility will not exceed the Aquifer Water Quality Standards (AWQS); and (3) the facility will not require post-closure monitoring or maintenance. Field investigation including sampling was conducted in order to characterize the soil and groundwater beneath the treatment lagoons to demonstrate no potential impacts to the groundwater.

Clean Closure Sampling

Influent to the lagoons has been rerouted to the City of Sierra Vista municipal sewer collection system for treatment at the Sierra Vista Wastewater Treatment Plant. The lagoons have been dried and retired from use. Soil sampling was conducted at the lagoons to determine the potential for contamination of the underlying aquifer from the site.

On February, 2008, one sludge sample was collected from the lagoon bottom material in each of the two (2) lagoons. The sludge samples were analysed for total concentrations of nitrogen families, metals, and VOC's. The laboratory presented the sludge samples as solid matrix in mg/kg. Solid matrix analytical data were analyzed against groundwater Protection levels (GPLs) and Soil Remediation Levels (SRLs). Analytical results of the sludge samples indicated that there are no chemicals exceeded the GPLs or the SRLs.

On December 27, 2010, a groundwater sample was collected from the existing on-site monitoring Point of Compliance (POC) well. The water quality in the well meets Aquifer Water Quality Standards (AWQS) for all constituents except for lead. However, lead levels in the effluent averaged 0.0024 mg/l, so the lead in the well is not indicative of lead levels in the effluent. It appears that the water collected from the monitoring well has been sitting in the column pipe and has leached metals out of the pipe material.

A total of three soil samples were collected in order to determine if there is contamination leached from the sludge to the vadose zone. The three soil samples include two discrete samples, one from each lagoon and one discrete background sample. A single soil sample was collected from the approximate center of each lagoon. The samples were taken from a depth of 12 inches below the invert of the pond. In order to eliminate cross contamination between the sludge and native soil, prior to excavating the sample hole any remaining sludge was removed from around the sample locations.

A background soil sample was collected approximately 20 feet east of the toe of slope of the eastern-most basin. Groundwater gradient in this area trends generally from southwest to northeast. This will be the background sample. The background soil sample was collected from 12 to 14 inches below the surface

Soil samples were tested for total nitrogen ($\text{NO}_2 + \text{NO}_3 + \text{TKN}$) by using calculation, nitrate (as N), nitrite (as N) and fluoride by using Ion Chromatography-E300, mercury by using SW 7471A, and total metals using SW 6010B. All of the samples were stored at 4° Celsius until delivered under chain-of-custody to an Arizona department of Health Certified (ADHS) laboratory. Samples were analyzed for total concentrations (mg/kg of dry soil). The concentrations were compared to both GPL and SRL.

Analytical results indicated that the concentrations of the analytes did not exceed their associated GPLs and SRLs values. The total nitrogen concentrations were relatively high, but the values are still below the concentration of total nitrogen that collected from the background sample.

Compliance with Aquifer Water Quality Standards

The closure investigation for the Golden Acres WWTP has met the clean closure criteria as required in A.R.S. §49-252 and 201(5). Since monitor well MW-1 is currently in compliance with all AWQSs, the effect of permanently closing the treatment lagoons will result in either no impact at all or if any, a minimal improvement to the aquifer.

Point of Compliance:

The point of compliance (POC) for the facility is located at:

POC	Descriptive Location	Latitude	Longitude
1	The monitor well is located approximately 200 feet north east of the northeastern corner of the eastern basin.	31° 31' 02" N	110° 15' 32" W

Post-closure Care

No post-closure monitoring or maintenance is required for the closure of both stabilization lagoons at the Golden Acres WWTP site.

Final Closure

The closure investigation has met the clean-closure criteria as required in A.R.S. §§ 49-201(5) and 49-252.