



Phelan Piñon Hills Community Services District

4176 Warbler Road • P. O. Box 294049 • Phelan, CA 92329-4049 • (760) 868-1212 Fax (760) 868-2323

ENGINEERING COMMITTEE MEETING

November 14, 2018 – 4:00 p.m.

PPHCSD Office

4176 Warbler Road, Phelan, CA

AGENDA

1. **Call to Order** – Pledge of Allegiance
2. **Roll Call**
3. **Approval of Agenda**
4. **Public Comment** – Under this item, any member of the public wishing to directly address the Board on any item of interest that may or may not be within the subject matter jurisdiction of the Board, but not listed on the agenda, may do so at this time. However, the Board is prohibited by law from taking any action on any item not appearing on the agenda unless the action is otherwise authorized by the Brown Act. Any member of the public wishing to directly address the Board on any item listed on the agenda may do so when the item is being considered by the Board. If you wish to address the Board, please complete a Comment Card and present it to the Board Secretary. Speakers are requested to be brief in their remarks. The Chair may limit each speaker to a comment period of five (5) minutes.
5. **Approval of Minutes** – October 10, 2018
6. **Discussion Regarding Water System**
 - Pumps and Wells Services Agreement
 - 10-Year Tank Rehabilitation & Maintenance Service
 - Water Quality
 - Other Repairs/Replacements/Updates
7. **Smithson Springs Update**
8. **Ducommun – Dairy Well Discussion**
9. **State Regulations Overview**
10. **Service Line Replacement Program Update**
11. **Well 12 Test Pumping Update**
12. **Review of Current Projects**
 - Pressure Zone 6
 - Parking Lot Rehabilitation Project – Engineering/Design Services

13. Review of Action Items

14. Set Agenda for Next Meeting – December 12, 2018

15. Adjourn

Pursuant to Government Code Section 54954.2(a), any request for a disability-related modification or accommodation, including auxiliary aids or services, that is sought in order to participate in the above-agendized public meeting should be directed to the District's General Manager at (760) 868-1212 at least 24 hours prior to said meeting.

Agenda materials can be viewed online at: <http://www.pphcsd.org/2018.php>



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ENGINEERING COMMITTEE MEETING

October 10, 2018 – 4:00 p.m.

DISTRICT OFFICE

4176 Warbler Road, Phelan, CA

MINUTES

Directors Present: Director Dan Whalen, Chair
President Mark Roberts

Committee Members Absent: None

Staff Present: George Cardenas, Engineering Manager
Sean Wright, Water Operations Manager
Jennifer Oakes, Water Conservation Specialist

- 1. Call to Order and Flag Salute**
Director Whalen called the Meeting to order at 4:15 p.m.
- 2. Roll Call**
All Committee members were present.
- 3. Approval of Agenda**
President Roberts moved to approve the Agenda. Director Whalen seconded the motion. All were in favor and the motion carried.
- 4. Public Comment-** None
- 5. Approval of Minutes – July 11, 2018**
Director Whalen moved to approve the Minutes. President Roberts seconded the motion. All were in favor and the motion carried.
- 6. Discussion Regarding Water System**
 - Pumps and Wells Services Agreement
 - 10-Year Tank Rehabilitation & Maintenance Service
 - Water Quality
 - Other Repairs/Replacements/Updates
- 7. Smithson Springs Update**
- 8. Ducommun – Dairy Well Discussion**
- 9. State Regulations Overview**

10. Service Line Replacement Program Update

11. Well 12 Test Pumping Update

12. Review of Current Projects

- Pressure Zone 6 & Snowline Pipeline Projects
- Parking Lot Rehabilitation Project – Engineering/Design Services

13. Review of Action Items

14. Set Agenda for Next Meeting – November 14, 2018

15. Adjournment

With no further business before the Committee, the meeting was adjourned at 5:15 p.m.

Link to Agenda Materials and Handouts: <http://www.pphcsd.org>



STILES POMEROY LLP

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August 30, 2018

By Email

Don Bartz, S.D.A., General Manager
Mark Roberts, Board President
Phelan Piñon Hills Community Services District
4176 Warbler Road
Phelan, CA 92329-4049

RE: Phelan Piñon Hills Community Services District (PPHCSD) Wells
Near Ducommun AeroStructures Inc. (DAS), El Mirage Facility.

Dear Don:

Thank you for taking my telephone call yesterday. As we discussed, DAS was interested in hearing the PPHSCD response to its letter providing a detailed summary of the nearby PPHSCD wells 14K, 14K1, 14Q1 and 23F1, along with proposed actions for each well for your consideration.

You mentioned to me that PPHSCD believed the proposed actions were acceptable, but that your agency was not actively considering work on the wells at this time. I indicated DAS is interested in moving forward and would like PPHSCD to be a part of the cost-sharing on this work. You asked for me to provide a cost summary of the work and a proposal for the cost sharing and believed you could provide me a response on this proposal within thirty days.

The prior Table 1 Attachment outlined the destruction of Wells 14K and 14Q. The estimate DAS received for this work is approximately \$50,000 per well and would eliminate these potential conduits.

The work associated with Well 14K1, which will be retained as a long-term production well, is estimated at approximately \$60,000. This work would provide a significant benefit to PPHSCD by preventing leakage from the upper aquifer, which is generally non-potable, as well as protect against possible future nitrate infiltration.

Our proposal for this \$160,000 project is that PPHSCD share one-half (up to \$30,000) of the work associated with Well 14K1. DAS would pay for the remaining work and perform all the work.

The attached **Table 1** provides the same prior information along with the cost estimate per well.

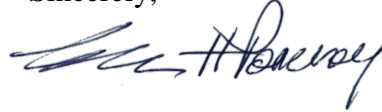
Don Bartz, S.D.A.

August 30, 2018

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We appreciate the opportunity to work with you and your agency and look forward to your response. Please let us know if you have any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read "Charles H. Pomeroy". The signature is fluid and cursive, with a prominent initial "C" and "H".

CHARLES H. POMEROY
StilesPomeroy LLP

Attachment: Table1 with costs - PPHCSD Wells Near DAS El Mirage Facility

Table 1 - Phelan Pinon Hills Community Service District (PPHCSD) Wells Near to Ducommun AeroStructures (DAS) El Mirage Facility

Name in DAS Documents	14K	14K1	14Q1	George's Well
Also Known as	Original Domestic Well	Home Irrigation Well	14Q02	
State Well ID	06N07W14K02	06N07W14K01	06N07W14Q02	06N07W23F1
Well Completion Report Number - Date	-	402637 - 5/20/1992	-	
Former Well Owner	Meadowbrook	Meadowbrook	Meadowbrook	Georges
Well Type	Domestic-Dairy	Agricultural	Domestic	Agricultural
Date Installed	8/17/63	5/15/92	Before 1957	5/8/90
Out of Service	1992	2012	2002	?
Back in Service	2002	-	?	-
Out of Service 2	2012	-	?	-
Destroyed	No	No	No	No
Ground Elevation (FT MSL)	2888	2888	2899	2916
UTM-East	446556	446576	446533	?
UTM-North	3829482	3829482	3829097	?
DASCoord-East (FT)	4716	4736	4536	?
DASCoord-North (FT)	7400	7400	6105	?
Distance from Site Boundary	1400	1400	170	2900
Direction from Site	N	N	NW	WSW
Boring Diameter (Inches)	26	26	26(?)	26
Well Outside Diameter (Inches)	16	15.5	?	16
Well Inside Diameter (Inches)	14	14	12 (0 to 145 FT); 10 (145 - 385 FT)	14
Well Casing Material	?	0.25-inch Copper	?	Steel
Well Screen	?	0.09-inch slot wire-wrap 0.25-inch Copper	Steel - knife-cut	Steel - Louvered
Well Seal	?	30-Inch diameter 0.312-inch Steel conductor casing & cement 0 - 50 FT	?	50
Filter Pack	?	Valley Sand 0 - 540 FT	?	?
Boring Depth (FT BGS)	521	580	385	708
Top of Screen (FT BGS)	296	350	73; 245	280
Bottom of Screen (FT BGS)	?	550	145; 385	700
Depth to Water (FT BGS)	180 (1963)	288 (10/8/2013)	56 (1957 & 1/5/1995)	310.9 (10/8/2013)
Estimated Well Yield (GPM)	2400 (1963)	1800 (1992)	?	1200
Date Last Sampled	5/4/2015 (PPHCSD)	01/16/13 (PPHCSD) \ \ 4/2/2012 (DAS)	10/18/2000 (DAS) \ \ May 2002 (DAS)	?
Last VOCs; Cr; CrVI; Nitrate as N (ppb)	TCE = 2.3; 26.0; 18; 8000	NS; ND<10; NS; 2900 \ \ TCE = 0.57; 5.0 ; NS; NS	NS; 23; 23 ; NS \ \ ND<0.5; NS; NS; NS	?
Boring Log?	Yes - Bottman Drilling - Poor Detail	Yes - Well Completion Report	No	?
Video Log	No.	Video Log on 10-08-2013 (PPHCSD). Pump & Pipe were not replaced after logging (per PPHCSD).	Video & Geophysical Logs 1995 (DAS). Pump & 315 FT pipe was replaced after logging (per DAS).	Video Log 10-08-2013 (PPHCSD). Pump & Pipe were not replaced after logging (per PPHCSD).
Geophysical Log	No.	None.	Compensated Sonic (Cement Bond); Spectral Gamma.	None.
Well Condition	Unknown.	~ 28 FT of sediment in bottom. Roscoe Moss Full Flo Louvers 350 to 550 FT. Partially to fully plugged.	Clay from 133 to 250 FT. No cement seal (Sonic only works below the water table). Upper screen heavily scaled, with most perforations nearly closed-off. Lower screen very heavily scaled with perforations difficult to see.	Louvered perforations open to very plugged. Broken PVC airline visible at 475 FT; more PVC airline stops camera at 657 FT.
PROPOSED ACTION	ABANDON WELL Purge one well + filter-pack volume (~ 3,700 gallons) & dispose on field. Remove pipe & pump (if still in well). Mills Knife 130 - 150 FT. Shot perforate 50 - 150 FT. Tremie cement (10-sack sand slurry) up to surface in lifts. Wait for cement level to stabilize; top up to 5 FT. Excavate top 5 FT casing, cut-off casing & pour mushroom cap; backfill with native soil and compact.	KEEP WELL & GROUT FILTER-PACK 130 - 150 FT BGS Pipe & pump currently not in well (PPHCSD). Mills Knife & shot perforate 130 - 150 FT. Pressure grout filter-pack with cement grout (10-sack sand slurry). Wait at least 72 hours for filter-pack seal to set & then install temporary pump & purge three well & filter-pack volumes (~ 12,500 gallons) & dispose on field; then sample groundwater for full suite of analyses (same as PPHCSD analyses for 14K02 in 2013).	ABANDON WELL May require removal of part of the vacant dwelling to gain access to the well. Purge well + filter-pack volume (~ 6,700 gallons) & dispose on field. Remove pipe & pump (if still in well). Mills Knife 130 - 150 FT. Shot perforate 50 - 150 FT. Tremie cement (10-sack sand slurry) up to surface in lifts. Wait for cement level to stabilize; top up to 5 FT. Excavate top 5 FT casing, cut-off casing & pour mushroom cap; backfill with native soil and compact.	NO ACTION REQUIRED

NOTES & ABBREVIATIONS: FT = Feet; BGS = Below Ground Surface; All depths are FT BGS; MSL = Mean Sea Level; GPM = Gallons per Minute; ppb = Parts per Billion (or micrograms per liter); TCE = Trichlorethene; Cr = Chromium (total); CrVI = Hexavalent Chromium; NS = Not Sampled or Analyzed; ND< = Not Detected Above Concentration Indicated (Laboratory Detection Limit); ~ = Approximately; PVC = Polyvinyl Chloride (plastic); UTM = Universal Transverse Mecator

APPROX. COST	\$50,000	\$60,000	\$50,000	\$0
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