



City of Rancho Palos Verdes – Program Manager RPV LANDSLIDE COMPLEX WORKING GROUP MEETING AGENDA, NOTES, AND ACTION ITEMS

Date/Time: December 11, 2024, 3:00 pm to 4:00 pm PST

Topic: **RPV Community Stakeholder Meeting**

Attendees: **City of Rancho Palos Verdes:** Ara Mihranian, City Manager; Ramzi Awwad, Director of Public Works; David Copp, Deputy Director of Public Works; Cory Linder; Daniel Trautner; Brandy Forbes; Megan Barnes; Katie Lozano; Juan Hernandez; Brandon Mesker; David Rasor; John Fox (attorney); Jeremiah Sunwoo, Noel Casil, Nic Grillo, John Cruikshank; David Bradley, Cheri Bailiff, Catherine Jun, Luna Mohammad, Diego Ascencio

California Office of Emergency Services (CalOES): Anna Hurt

Hout Construction Services, Inc. (HCS): Jayme Fairfield, Document Control Manager

Cotton, Shires and Associates, Inc.: Mike Phipps, Contract City Geologist

Klondike Canyon Landslide Abatement District (KCLAD): Steve Cummins

Abalone Cove Landslide Abatement District (ACLAD): Gordon Leon

Seaview Residents Association: Kit Song, Rayne Sherman, Deirdre Heimer

Portuguese Bend Community Association (PBCA): Kent Attridge, Claudia Gutierrez

Portuguese Beach Club HOA: Michael Barth, Andrew Ely

Palos Verdes Peninsula Land Conservancy: Cris Sarabia

Cal Water: Ralph Felix, Augie Beaza, Kimberly Caballero

Southern California Gas Company (SoCal Gas): Ben Steinberger

Southern California Edison (SCE): Celina Luna

Frontier Communications: Doug McAllister, Ramiro De La Cruz, William Kearns, Stephen McDonald

Los Angeles County Public Works (LACPW): Alex Villarama, Robert Swartz, Brian Kane (fire department), Teagan Ferdinandsen

Los Angeles County Sanitation District (LACSD): Kevin Kim, Michael Chee, Daniel Salama

Wayfarer's Chapel: Peter Gottschalk

Others: Adrienne Mohan

(Note: Those in attendance are in black; not in attendance are in gray)

Working Group Purpose: *"We are committed to evaluating and addressing every concern the community has for this important initiative. We will look to share information and ideas amongst all the major stakeholders and initiate short-term measures for proactive success. The community has spoken and the City is taking action."*

City of Rancho Palos Verdes – Program Manager
RPV LANDSLIDE COMPLEX WORKING GROUP
MEETING AGENDA, NOTES, AND ACTION ITEMS

TABLE 1: AGENDA ITEMS	Presenter(s)
DISCUSSION ITEMS	
<p>Current, Short-Term, and Long-Term Mitigation Projects</p> <ul style="list-style-type: none"> • See Table 2 below. 	Ramzi Awwad Jayme Fairfield
<p>Declaration(s) of Emergency and Los Angeles County Disaster Management AREA G</p> <ul style="list-style-type: none"> • At the 12/17/2024 City Council meeting, City staff will ask that the City Council consider extending the declaration. 	Ara Mihranian Ramzi Awwad Brandy Villanueva
<p>Holiday Schedules (offices closed and emergency contacts)</p> <ul style="list-style-type: none"> • City of Rancho Palos Verdes: Offices closed 12/23 – 1/1. Ramzi Awwad will provide a number/protocol for emergency responses. • Southern California Gas Company: (800) 427-2200 emergency number is always active 24/7/365. • Cal Water: (310) 257-1400 emergency number is always active 24/7/365. 	Jayme Fairfield
<p>General Comments or Questions</p> <ul style="list-style-type: none"> • Luna Mohammad sent a notice regarding the abandoned homes survey for law enforcement patrol. The abandoned homes draw in unhoused people. Rayne Sherman suggests that residents should continue to keep their eyes open and report anything suspicious. • ACLAD sent a letter to SCE requesting they investigate powering some of the ACLAD wells. SCE requested the well locations and status. Gordon Leon provided that information. SCE stated that they will get back to Gordon. Gordon will share the letter to SCE with the City, PBCA, and Seaview Association. • PBC sent a letter to SCE on 12/9/2024 asking what their criteria is for restoring power. • Is there an update on the FEMA buyout funds? Ramzi Awwad replied that there are no updates at this time. The next Staff Report being released in the next day or two will include the latest information. • There was a house fire on East Pomegranate Lane last night. There was an incredible response from LACFD. Responders completely shut down/blocked Peppertree for about 45 minutes with no ingress or egress. This was a good practice scenario for emergencies. Claudia Gutierrez asked if the Farm Road access could be available for future emergencies (a.k.a. the Malcolm superhighway as residents call it)? PBCA has an appointed evacuation committee who will further investigate a better plan moving forward. The City is working towards updating a regional evacuation plan; this area is high on the planning list. • At the intersection of First Street and Western, Caltrans reversed their project and put the configuration back the way it was before. Ramzi Awwad is already looking into it and can report back once he finds out more. • The City is working on a final draft for a map of all wells, including City, ACLAD, and KCLAD wells. • Please email landmovement@rpvca.gov with public/resident concerns, issue reports, or complaints. 	Working Group
NEXT MEETING	
<ul style="list-style-type: none"> • Occurs the second and fourth Wednesdays of the month at 3:00 pm PST. The next meeting will be on 1/8/2025. The 12/25/2024 meeting will be cancelled due to the holiday(s). 	Jayme Fairfield

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TABLE 1: AGENDA ITEMS	Presenter(s)
<ul style="list-style-type: none"> Regular Meeting Format: This meeting will be held virtually via Teams. Notes from past meetings can be found on the City's website at this link: RPV Landslide Complex Working Group Rancho Palos Verdes, CA - Official Website (rpvca.gov). 	

TABLE 2: CURRENT, SHORT-TERM, AND LONG-TERM MITIGATION PROJECTS

Activity	Responsible Entity	Notes/Status	Estimated Completion
UTILITIES			
Sewer Lines	LACSD	<ul style="list-style-type: none"> The next phase of emergency repair work is scheduled to begin in January 2025. LACSD has been closely monitoring the 14" steel pipe from the end of Seaview along PVDS. It is not engineered to bend and is under enormous stress. Engineers have decided to replace it with a more flexible option (HDPE) along the route from the Abalone Cove pumping plant out about 8.000 feet. The pipe will briefly go underground at a few points, including where PVDS separates into two directions with the median. During construction, crews will need to go down to one lane of traffic in each direction. Notifications will be provided ahead of time through LACSD and City platforms. 	Ongoing
Sewer Lines: Seaview Neighborhood	LACPW: Mains Homeowners: Lateral	<ul style="list-style-type: none"> No updates. 	Ongoing
Sewer Lines: Portuguese Bend Community	City	<ul style="list-style-type: none"> No updates. 	Ongoing
Power Poles Repairs	Southern California Edison (SCE)	<ul style="list-style-type: none"> No updates. 	Ongoing
Communications	Frontier Others	<ul style="list-style-type: none"> No updates. 	Ongoing
Gas Lines: Portuguese Bend Community and Seaview Community	SoCal Gas	<ul style="list-style-type: none"> No updates. 	Ongoing
Water: Seaview Neighborhood	Cal Water	<ul style="list-style-type: none"> Residents would like a response from Cal Water on their request regarding planting/landscaping near the new flexible water mains. Cal Water stated that they will provide that to the Seaview Association by the end of the month, as promised. At the red-tagged home at Dauntless and Exultant, Cal Water crews met two men that stated that they purchased the home. Ramzi Awwad stated that any work will require a permit. The City will make sure that any construction/work will not impact Cal Water's work or the City's winterization efforts. As far 	TBD

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Activity	Responsible Entity	Notes/Status	Estimated Completion
		as the escalation protocol to report any work on this property, it should be reported to any of the City staff in this meeting.	
Water: Portuguese Bend Community Association	Cal Water	<ul style="list-style-type: none"> Cal Water is tying up work on Vanderlip today. Cal Water crews are still working on repairs on Burma. 	TBD
Water: Portuguese Bend Beach Club	Cal Water	<ul style="list-style-type: none"> No updates. 	Completed
CITY			
Portuguese Bend Landslide EIR, Final Engineering, and E1/E2	City	<p>Deep Dewatering Wells (DDW):</p> <ul style="list-style-type: none"> Installed eleven DDWs that were funded by the City Council. DDW 11 began operation on 12/3/2024, and the flow rate is 30 gpm as of yesterday, and is changing by the day. There is continued maintenance on several DDWs. Some rates are going up, some down. DDWs 1-6 show no signs of pinching but some pumps need to be replaced. DDWs 7-8 above the Archery Range are showing signs of pinching at the deeper slide plane but are working at the higher slide plane. The City won't recommend redrilling DDW 7. Crews are completing the last test bore hole further up the slide area. This should be completed by the end of this week. It is showing signs of Artesian water. The City will collect data and provide it to this group. The overall vision for the ultimate build out remains the same as last reported to the City Council. 	October 2024
Winterization	City	<ul style="list-style-type: none"> Shaping and fissure filling in Altamira and Kelvin Canyons include grading, liners, swales. Klondike Canyon is about 40-50% completed., which includes shaping, filling fissures, and protective liners. Crews are working their way up hill from the Seaview Neighborhood, including installing a swale. In Klondike Canyon, the City is coordinating with KCLAD some of the drainage, which will be picked up by KCLAD. In the Seaview Neighborhood, the contractor is finishing work at Exultant and Dauntless. It should be completed next week. The City is setting up protocol for immediately adjacent residents to call in any issues. The grading and paving on Exultant is complete. The work on Admirable should be complete by the end of next week. 	Ongoing
PVDS at Peppertree Drainage	City	<ul style="list-style-type: none"> No updates. 	TBD

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Activity	Responsible Entity	Notes/Status	Estimated Completion
GPS Surveying of Landslide Movement	City	<ul style="list-style-type: none"> The City received the latest monitoring point survey data last night. City staff is analyzing the raw data and will provide the report as soon as it is ready. 	Ongoing
PVDS Roadway Repairs	City	<ul style="list-style-type: none"> The City is scheduling roadway repairs for next week. Details are still being decided and worked out. On the 12/17/2024 City Council agenda, City staff will be asking City Council to consider extending the two-wheel vehicle restriction. 	Ongoing
Seaview Neighborhood Roadway Repairs	City	<ul style="list-style-type: none"> No updates. 	Ongoing
Drainage Source Study	City	<ul style="list-style-type: none"> Proposals are due at the end of this week. City staff will evaluate the proposals, negotiate a contract, and present it to the City Council in early February for approval. 	TBD

COMMUNITY ASSOCIATIONS AND LANDSLIDE ABATEMENT DISTRICTS

Road Repairs in the Portuguese Bend Community	Portuguese Bend Community Association	<ul style="list-style-type: none"> PBCA had 16 loads of CMB installed in front of driveways for better access at Lower Cinnamon and below the Narcissa curve. PBCA says they are ready for winter. The Narcissa gate is wide open and there is no solar. The Peppertree gate has solar, and the gates are open because there are issues with the motor and arms. The vendor will be coming out to repair it. 	Ongoing
KCLAD Dewatering Wells	KCLAD	<ul style="list-style-type: none"> Information from Steve Hinchliff's weekly email update: <ul style="list-style-type: none"> Current production: Two wells (5 and 6) produce 300 gallons per minute, with a depth to water of 81 feet. Well inventory: KCLAD has two active wells (5 and 6) with submersible pumps set at 105 feet. Additional data: Weekly readings are provided on the attached spreadsheet. KCLAD is testing a new ultrasonic meter on well 5. The pump specialist was onsite yesterday and is addressing a leak. Water tables and flow rates remain constant. There are two active wells (5 and 6) with pumps at 105 feet down. 	Ongoing
Klondike Canyon Fissures	KCLAD & City	Information from Steve Hinchliff's weekly email update: <ul style="list-style-type: none"> All resources are currently focused on Winterization. 	Ongoing
Klondike Canyon Culvert and Pipe	KCLAD & City	Information from Steve Hinchliff's weekly email update: <ul style="list-style-type: none"> All resources are currently focused on Winterization. 	Ongoing
Lower Seaview/ PVDS at Klondike Canyon Drainage	KCLAD & City	Information from Steve Hinchliff's weekly email update: <ul style="list-style-type: none"> All resources are currently focused on Winterization. 	TBD

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Activity	Responsible Entity	Notes/Status	Estimated Completion
Winterization and curbs at force mains at curve of PVDS	KCLAD	Information from Steve Hinchliff's weekly email update: <ul style="list-style-type: none"> • All resources are currently focused on Winterization. 	TBD
ACLAD Dewatering Wells	ACLAD	<ul style="list-style-type: none"> • ACLAD just got well 11 set up and will be adding a generator at the end of this week. There should be minimal fire risk the way it is set up/cleared (according to fire officials). • During an inspection of the water line at wells 18 and 20 off Olmstead Road, it was discovered that the road is completely blocked with the generators. The road should be accessible for the lifeguards with access to wells 18 and 20. 	Ongoing
General Maintenance	ACLAD	<ul style="list-style-type: none"> • A culvert under Vanderlip Drive will be installed next week. During construction, there will be one-way traffic with a flagman. • There appears to be problems with the output line under PVDS. Gordon Leon will be inspecting it this week to determine the issue and will report back. 	Ongoing
Top of Slide Area and Kelvin Canyon Spring	ACLAD & City	<ul style="list-style-type: none"> • No updates. 	TBD
Altamira Canyon Lining	ACLAD, RPV, and LACPW (Flood Control District)	<ul style="list-style-type: none"> • No updates. 	TBD

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DATE	Well #1 (No Pump) Near Klondike Yard		Well #2 - Pump #2 Near Court 3			Well #3 - Pump #1 In Wood Box			Well #4 - Pump #3 In Sand On Beach			Well #4A			Well #5 and Pump			Well #6 and Pump			Notes
	Time	Water Depth	Time	Water Depth	Pump GPM	Time	Water Depth	Pump Reading	Pump GPM	Time	Water Depth	Pump Reading	Pump GPM	Time	Water Depth	Pump GPM	Time	Water Depth	Pump GPM		
12/14/2023	11:40 AM	12:40 PM				1:40 PM	7.5 ft	39937300	30	1:05 PM	4.9 ft	Not Installed Yet									
12/14/2023	11:40 AM	98.1 ft	12:40 PM	3.2 ft	9	1:40 PM															
12/21/2023	8:45 AM	98.3 ft	9:15 AM	3.1 ft	7	11:10 AM	7.8 ft	40327400	45	9:40 AM	5.1 ft	Not Installed Yet									
#####	8:15 AM	104.0 ft	8:35 AM	10.1 ft	14	9:40 AM	15.8 ft	40800700	48	9:20 AM	24.5 ft	00309600	115								
1/5/2024	9:20 AM	110.0 ft	9:30 AM	6.0 ft	n/a	11:20 AM	23.7 ft	41295200	59	11:10 AM	32.0 ft	01513500	113								
1/11/2024	2:20 PM	114.0 ft	2:35 PM	9.4 ft	n/a	2:40 PM	27.9 ft	41817100	55	3:00 PM	35.5 ft	02543600	114								
1/18/2024	3:10 PM	n/a	3:20 PM	N/A	n/a	3:25 PM	n/a	42365100	53	3:40 PM	n/a	03695600	110							Depth Reader not working	
1/26/2024	9:30 AM	117.7 ft	9:45 AM	9.5 ft	n/a	10:15 AM	30.8 ft	42949400	52	10:00 AM	38.6 ft	04945000	110							"PREVIOUS MULTIPLE RAIN EVENTS BEFORE THESE READINGS"	
2/2/2024	9:00 AM	n/a	9:20 AM	n/a	n/a	10:20am	n/a	43463800	50	9:45 AM	n/a	06022200	102							PREVIOUS RAIN EVENT BEFORE THESE READINGS.	
2/9/2024	9:00 AM	114.8 ft	9:30 AM	5.2 ft	n/a	10:15 AM	27.8 ft	43956700	48	11:00 AM	34.3 ft	07056900	100							Pump #1 & #2 are not functioning.	
2/15/2024	10:10 AM	115.8 ft	10:25 AM	6.5 ft	n/a	10:55 AM	28.5 ft	44335300	44	10:30 AM	35.6 ft	07925600	100							Pump #1 & #2 are not functioning. Rain event earlier in the week.	
2/23/2024	9:15 AM	113.6 ft	9:25 AM	4.6 ft	n/a	10:05 AM	25.8 ft	44796300	35	9:40 AM	33.1 ft	0908680	100								
3/1/2024	8:35 AM	112.5 ft	8:50 AM	5.9 ft	n/a	9:30 AM	24.5 ft	44906900	n/a	9:40 AM	31.9 ft	10071500	100								
3/8/2024	9:10 AM	110.8 ft	9:20 AM	6.5 ft	n/a	9:45 AM	22.7 ft	44906900	n/a	9:30 AM	29.9 ft	11074600	100								
3/13/2024	8:35 AM	112.3 ft	8:45 AM	6.8 ft	n/a	9:30 AM	25.4 ft	45299300	59	9:10 AM	33.1 ft	11782600	100								
3/21/2024	11:50 AM	112.4 ft	12:15 PM	7.4 ft	n/a	12:30 AM	25.8 ft	45922500	68	12:50 PM	32.5 ft	12912700	96								
3/28/2024	8:35 AM	112.3 ft	8:55 AM	8.4 ft	n/a	9:45 AM	24.3 ft	46602400	n/a	9:25 AM	31.0 ft	13788800	93								
4/5/2024	11:00 AM	108.0 ft	11:25 AM	7.2 ft	n/a	12:15 PM	19.6 ft	46602400	78	11:50 AM	28.0 ft	14857700	92								
4/12/2024	7:25 AM	106.6 ft	7:45 AM	8.5 ft	n/a	8:45 AM	17.5 ft	46609000	86	8:25 AM	22.1 ft	15753000	89								
4/19/2024	9:25 AM	101.9 ft	9:40 AM	8.5 ft	n/a	10:40 AM	13.8 ft	46510200	79	10:20 AM	14.5 ft	16534700	79								
4/26/2024	2:15 PM	101.1 ft	2:25 PM	8.5 ft	n/a	3:00 PM	13.2 ft	46610300	79	2:50 PM	13.5 ft	17308500	70								
5/2/2024	2:30 PM	101.6 ft	2:45 PM	9.0 ft	n/a	3:25 PM	15.8 ft	46718700	77	3:05 PM	14.1 ft	17954500	77	2:35 PM	9.8 ft	2:30pm	9.8 ft			Pump #1 was replaced after prior reading	
5/9/2024	2:10 PM	102.3 ft	2:25 PM	8.7 ft	n/a	2:45 PM	16.8 ft	47498800	78	3:15 PM	14.1 ft	18722400	78	2:35 PM	14.1 ft	2:30pm	9.5 ft				
5/17/2024	3:15 PM	101.8 ft	3:35 PM	7.5 ft	n/a	4:15 PM	16.5 ft	48347000	76	4:00 PM	12.0 ft	19621400	77	3:50 PM	12.5 ft	3:40 PM	8.2 ft				
5/23/2024	7:40 AM	102.6 ft	7:55 AM	7.4 ft	n/a	8:50 AM	17.5 ft	48956500	78	8:20 AM	13.5 ft	20237800	78	8:10 AM	12.3 ft	8:00 AM	8.0 ft				
5/30/2024	3:00 PM	102.6 ft	3:05 PM	7.4 ft	n/a	3:55 PM	17.1 ft	49735400	80	3:35 PM	13.0 ft	21025600	78	3:25 PM	12.1 ft	3:15 PM	8.1 ft				
6/7/2024	11:25 AM	102.0 ft	11:45 AM	6.3 ft	n/a	12:30 PM	16.6 ft	50639100	78	12:10 PM	12.3 ft	21896700	81	12:15 PM	10.7 ft	11:55 AM	7.1 ft				
6/14/2024	2:25 PM	101.8 ft	2:45 PM	6.0 ft	n/a	3:30 PM	17.3 ft	51245400	74	3:10 PM	12.3 ft	22564200	81	3:05 PM	10.6 ft	2:55 PM	6.8 ft				
6/21/2024	2:30 PM	101.0 ft	2:50 PM	7.0 ft	n/a	3:25 PM	17.5 ft	52040700	78	3:45 PM	11.8 ft	n/a	n/a	3:15 PM	11.5 ft	3:05 PM	7.7 ft			Pump #3 was not working at time of this reading	
6/27/2024	12:15 PM	97.9 ft	11:20 AM	7.0 ft	n/a	11:00 AM	13.1 ft	52581700	82	10:50 AM	9.8 ft	n/a	n/a	11:45 AM	11.7 ft	11:40 AM	7.8 ft			New pump #3 is not energized	
7/1/2024	9:50 AM	97.6 ft	10:00 AM	6.9 ft	n/a	10:25 AM	13.1 ft	52929400	80	10:20 AM	8.7 ft	n/a	n/a	10:15 AM	11.7 ft	10:10 AM	7.7 ft			New pump #3 is not energized	
7/5/2024	7:20 AM	96.9 ft	7:25 AM	7.1 ft	n/a	7:40 AM	13.4 ft	53495700	78	7:30 AM	8.9 ft	n/a	n/a	7:30 AM	11.9 ft	7:35 AM	11.5 ft			New pump #3 is not energized	
7/12/2024	10:35 AM	96.6 ft	10:50 AM	3.8 ft	n/a	12:20 PM	12.4 ft	54327600	78	11:55 AM	7.0 ft	n/a	n/a	11:40 AM	7.3 ft	11:20 AM	4.4 ft			New pump #3 is not energized	
7/19/2024	10:15 AM	96.3 ft	10:40 AM	4.4 ft	n/a	12:25 PM	12.4 ft	55072700	77	11:45	6.8 ft	n/a	n/a	11:20 AM	9.8 ft	11:05 AM	6.6 ft			New pump #3 is not energized	
7/26/2024	2:00 PM	95.1 ft	11:30 AM	3.7 ft	n/a	12:35 PM	11.4 ft	55822600	80	1:00 PM	6.2 ft	n/a	n/a	1:45 AM	11.7 ft	11:40 AM	7.8 ft			New pump #3 is not energized	
8/2/2024	11:50 AM	95.4 ft	10:15 AM	3.9 ft	n/a	10:55 AM	12.0 ft	56584900	82	10:45 AM	8.3 ft	n/a	n/a	10:30 AM	8.9 ft	10:20 AM	6.0 ft			New pump #3 is not energized	
8/9/2024	2:30 PM	94.6 ft	3:00 PM	5.0 ft	n/a	3:55 PM	11.9 ft	57048600	72	3:25 pm	6.1 ft	23369800	46	3:15 PM	10.5 ft	3:05 PM	7.3 ft			Prior reading 6/14/24 was 81GPM	
8/16/2024	8:05 AM	95.2 ft	well #2 & pump #2 terminated			8:30 AM	12.5 ft	57756200	80	8:50 AM	6.8 ft	23682200	n/a	9:00 AM	10.6 ft	8:25 AM	terminated			pump #3 needs new converter box	
8/23/2024	10:10 AM	95.6 ft	well #2 & pump #2 terminated			10:45 AM	13.1 ft	58544800	75	11:10 AM	7.6 ft	23919100	43	11:35 AM	15.4 ft	11:05 AM	Well #5 terminated				
8/29/2024	8:25 AM	99.4 ft	well #2 & pump #2 terminated			9:30 AM	17.7 ft	59181600	77	9:05 AM	14.0 ft	21199600	36	9:50 AM	15.5 ft	10:20 AM	3.9 ft	250		pump #5 installer's estimated flow. well #5 is new dig & new location	
9/4/2024	10:00 AM	100.6 ft	well #2 & pump #2 terminated			10:35 AM	18.7 ft	59844100	75	11:35 AM	29.8 ft	24432900	30	11:20 AM	16.0 ft	10:15 AM	5.4 ft	250		pump #5 installer's estimated flow.	
9/13/2024	11:45 AM	98.8 ft	well #2 terminated			12:05 PM	15.8 ft	N/A	N/A	12:30 PM	15.7 ft	24634400	12	1:20 PM	15.4 ft	1:30 PM	N/A	250		pump #5 installer's estimated flow.	
9/20/2024	1:20 PM	101.5 ft	pump #2 terminated			2:10 PM	18.5 ft	N/A	N/A	2:55 PM	16.5 ft	24703400	11	2:00 PM	15.4 ft	3:25 PM	24.1 ft	250		pump #5 installer's estimated flow.	
9/27/2024	7:25 AM	111.6 ft	well #2 & pump #2 terminated			9:00 AM	29.2 ft	N/A	N/A	9:20 AM	20.8 ft	N/A	N/A	8:20 AM	17.4 ft	8:30 AM	32.8 ft	250		Depth to bottom on well #5 is 103.4 ft. Pump #5 installer's estimated	
10/4/2024	7:15 AM	127.0 ft	well #2 & pump #2 terminated			7:50 AM	35.8 ft	N/A	N/A	8:20 AM	24.8 ft	N/A	N/A	8:50 AM	17.5 ft	9:05 AM	38.9 ft	250		well #1 no water, only silt: pumps #1 & #3 not working. Well #5 depth to bottom of well is 103.2 ft: Well #6 depth to bottom:154.5ft	
#####	9:10 AM	125.4 ft	well #2 & pump #2 terminated			10:50 AM	51.0 ft	N/A	N/A	11:25 AM	44.9 ft	N/A	N/A	10:25 AM	19.4 ft	9:30 AM	56.5 ft	0	9:55 AM	76.4 ft	200
#####	9:05 AM	124.4 ft	well #2 & pump #2 terminated			10:05 AM	49.4 ft	N/A	N/A	10:25 AM	31.9 ft	N/A	N/A	9:25 AM	15.6 ft	11:35 AM	56.3 ft	0	11:05 AM	79.0 ft	280
#####	8:25 AM	124.4 ft	well #2 & pump #2 terminated			9:20 AM	36.9 ft	N/A	N/A	9:10 AM	25.9 ft	N/A	N/A	N/OPERATIVE	N/A	10:00 AM	41.9 ft	0	10:30 AM	67.8 ft	300
11/1/2024	8:45 AM	124.4 ft	well #2 & pump #2 terminated			9:50 AM	58.4 ft	N/A	N/A	10:10 AM	56.4 ft	N/A	N/A	9:25 AM	19.4 ft	10:35 AM	89.1 ft	250		well #1 no water. Pumps #1 & 3 not working. Well #5-105.0' to bottom	
11/8/2024	7:40 AM	123.4 ft	well #2 & pump #2 terminated			8:30 AM	61.4 ft	N/A	N/A	8:10 AM	63.0 ft	N/A	N/A	8:55 AM	19.6 ft	9:15 AM	85.8 ft	280		well #1 no water. Pumps #1 & 3 not working. Well #5-106.2' to bottom	
#####	7:10 AM	124.3 ft	well #2 & pump #2 terminated			7:50 AM	N/A	N/A	N/A	7:55 AM	N/A	N/A	N/A	8:00 AM	19.4 ft	8:15 AM	83.8 ft	175		well #1 no water. Pumps #1 & 3 not working. Well #5-106.4' to bottom	
#####	8:30 AM	124.0 ft	well #2 & pump #2 terminated			9:20 AM	N/A	N/A	N/A	9:15 AM	N/A	N/A	N/A	9:05 AM	19.4 ft	9:30 AM	83.5 ft	175		well #1 no water. Pumps #1 & 3 not working. Well #5-106.1 ft to bottom	
#####	9:00 AM	124.0 ft	well #2 & pump #2 terminated			9:30 AM	N/A	N/A	N/A	9:45 AM	N/A	N/A	N/A	9:35 AM	19.3 ft	9:55 AM	76.3 ft	150		well #1 no water. Pumps #1 & 3 not working. Well #5-106.4 ft to bottom. Well #6-105.7 ft to bottom	
12/4/2024	11:45 AM	125.0 ft	well #2 & pump #2 terminated			12:10 PM	N/A	N/A	N/A	12:05 PM	N/A	N/A	N/A	12:25 PM	19.1 ft	12:35 PM	81.5 ft	150		well #1 no water. Pumps #1 & 3 not working. Well #5-106.3 ft to bottom. Well #6-105.7 ft to bottom	