

# **APPENDIX B**

## **Field Data Collection Sheets**

**For additional assistance with the information provided in the appendix, please contact Emily Sheu with Arcadis ([emily.sheu@arcadis.com](mailto:emily.sheu@arcadis.com)).**

## CMP Quarterly Manual Water Level Snapshot

Location	Depth to Water (ft BTOC)	Date	Time
CW-01D	110.95	1/28/2020	13:22
CW-01M	110.89	1/28/2020	13:25
CW-02D	94.00	1/28/2020	13:29
CW-02M	94.60	1/28/2020	13:33
CW-03D	78.71	1/28/2020	13:37
CW-03M	79.44	1/28/2020	13:40
CW-04D	63.02	1/28/2020	14:19
CW-04M	63.25	1/28/2020	14:23
OW-01D	94.82	1/28/2020	13:31
OW-01M	95.22	1/28/2020	13:34
OW-01S	95.51	1/28/2020	13:37
OW-02D	93.25	1/28/2020	13:44
OW-02M	93.35	1/28/2020	13:47
OW-02S	94.16	1/28/2020	13:50
OW-05D	96.32	1/28/2020	13:55
OW-05M	95.56	1/28/2020	13:58
OW-05S	96.91	1/28/2020	14:01

Notes: Confirm with IM-3 staff that each of the prior three days and the day of the event are normal operation days with no backwashing or plant down time prior to snapshot collection.

Measured by Nara Tep.

## CMP Quarterly Manual Water Level Snapshot

Location	Depth to Water (ft BTOC)	Date	Time
CW-01D	110.41	4/7/2020	11:17
CW-01M	110.27	4/7/2020	11:19
CW-02D	93.22	4/7/2020	11:23
CW-02M	93.69	4/7/2020	11:25
CW-03D	78.1	4/7/2020	11:28
CW-03M	78.47	4/7/2020	11:30
CW-04D	62.34	4/7/2020	10:55
CW-04M	62.58	4/7/2020	10:57
OW-01D	94.05	4/7/2020	11:04
OW-01M	94.17	4/7/2020	11:06
OW-01S	94.51	4/6/2020	18:29
OW-02D	92.42	4/7/2020	11:12
OW-02M	92.54	4/7/2020	11:14
OW-02S	93.28	4/6/2020	18:25
OW-05D	95.52	4/6/2020	18:20
OW-05M	95.12	4/6/2020	18:15
OW-05S	96.07	4/6/2020	18:10

Notes: Confirm with IM-3 staff that each of the prior three days and the day of the event are normal operation days with no backwashing or plant down time prior to snapshot collection.

Measured by Spencer Doolittle.

## CMP Quarterly Manual Water Level Snapshot

Location	Depth to Water (ft BTOC)	Date	Time
CW-01D	108.65	8/4/2020	8:13
CW-01M	108.72	8/4/2020	8:15
CW-02D	91.77	8/4/2020	8:19
CW-02M	92.20	8/4/2020	8:21
CW-03D	76.40	8/4/2020	8:27
CW-03M	77.04	8/4/2020	8:29
CW-04D	60.82	8/4/2020	8:10
CW-04M	61.10	8/4/2020	8:13
OW-01D	92.44	8/4/2020	7:51
OW-01M	92.99	8/4/2020	7:47
OW-01S	93.12	8/4/2020	7:43
OW-02D	90.86	8/4/2020	7:37
OW-02M	91.11	8/4/2020	7:34
OW-02S	91.76	8/4/2020	7:31
OW-05D	94.05	8/4/2020	7:57
OW-05M	93.30	8/4/2020	8:00
OW-05S	94.58	8/4/2020	8:02

Notes: Confirm with IM-3 staff that each of the prior three days and the day of the event are normal operation days with no backwashing or plant down time prior to snapshot collection.

Measured by Reggie Tep.

## CMP Quarterly Manual Water Level Snapshot

Location	Depth to Water (ft BTOC)	Date	Time
CW-01D	109.16	10/6/2020	10:46
CW-01M	108.83	10/6/2020	10:42
CW-02D	91.93	10/6/2020	10:49
CW-02M	92.24	10/6/2020	10:51
CW-03D	76.50	10/6/2020	10:54
CW-03M	76.96	10/6/2020	10:56
CW-04D	61.10	10/6/2020	11:17
CW-04M	61.26	10/6/2020	11:19
OW-01D	92.28	10/6/2020	10:36
OW-01M	92.91	10/6/2020	10:38
OW-01S	93.25	10/6/2020	10:30
OW-02D	90.54	10/6/2020	10:18
OW-02M	91.00	10/6/2020	10:20
OW-02S	91.83	10/6/2020	10:22
OW-05D	94.61	10/6/2020	9:55
OW-05M	94.06	10/6/2020	9:57
OW-05S	94.71	10/6/2020	9:59

Notes: Confirm with IM-3 staff that each of the prior three days and the day of the event are normal operation days with no backwashing or plant down time prior to snapshot collection.

Measured by Spencer Doolittle.

Site: PGE Topock  
Topock, CA

## CW-01M

Date	10/08/2020	Sampler	Jecte Boyd
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	105.68
Water Quality Meter	YSI	Gallons in Well	13.75
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	190.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	165
Water Column in Well	84.32	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-758-Q420
Sample Date	10/08/2020	EB Time	14:50
Sample Time	14:11	MS/MSD Sample ID	
Sample ID	CW-01M-LF-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-901-Q420	Double Filter Turbidity	
Dup Sample Time	14:21	Post Sampling Turbidity	
Single Filter Turbidity	0	Purge Date	10/08/2020
Without Filter Turbidity	2		

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:54	500	2000	33.1	7.67	9350	0.4	5.73	3	105.72	4.43	5.26
13:58	500	4000	32.1	7.65	9173	1.3	6.10	2	105.72	4.43	5.26
14:02	500	6000	31.5	7.64	9088	2.4	6.00	2	105.72	4.43	5.26
14:06	500	8000	31.3	7.63	9044	2.7	6.06	2	105.72	4.43	5.26
14:10	500	10000	31.3	7.62	9020	3.3	6.02	2	105.72	4.43	5.26

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?		X		
Standing or Ponded Water?		X		
Lock in Place?		X		
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?		X		
Erosion Around Wellhead?		X		
Steel Casing Intact?		X		
PVC Cap Present?	X			
Standing Water in Annulus?		X		

**Site: PGE Topock**  
**Topock, CA**

Item	Yes	No	NA	Notes
Well Casing Intact?	X			
Photo Taken?	X			

**Photos and Drawings**



Site: PGE Topock  
Topock, CA

## CW-01D-LF

Date	10/08/2020	Sampler	Matt Trainotti
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	105.49
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	300
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	275
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/08/2020	EB Sample ID	EB-757-Q420
Sample Time	14:10	EB Time	14:40
Sample ID	CW-01D-LF-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	6	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	10/08/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:53	500	2000	28.7	7.24	7523	101.4	11.22	15	105.57	4.13	4.87
13:57	500	4000	29.0	7.23	7539	104.0	11.03	9	105.57	4.14	4.89
14:01	500	6000	29.2	7.22	7557	106.8	10.86	6	105.57	4.15	4.90
14:05	500	8000	29.2	7.22	7571	109.7	10.80	6	105.57	4.14	4.92
14:09	500	10000	29.2	7.21	7591	111.7	10.77	6	105.57	4.15	4.92

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?		X		
Standing or Pondered Water?		X		
Lock in Place?			X	
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?			X	
Erosion Around Wellhead?			X	
Steel Casing Intact?			X	
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	



Site: PGE Topock  
Topock, CA

## CW-02M-LF

Date	10/07/2020	Sampler	Matt Trainotti
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	92.20
Water Quality Meter	YSI	Gallons in Well	17.78
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	201.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	177
Water Column in Well	109.00	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/07/2020	EB Time	
Sample Time	09:50	MS/MSD Sample ID	
Sample ID	CW-02M-LF-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	10/07/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:33	500	2000	28.4	7.66	6651	166.3	6.93	22	92.26	3.61	4.30
09:37	500	4000	29.0	7.70	6799	155.4	6.25	13	92.26	3.70	4.38
09:41	500	6000	29.2	7.74	6923	150.8	5.98	7	92.26	3.78	4.52
09:45	500	8000	29.2	7.75	7013	148.7	5.90	7	92.26	3.83	4.57
09:49	500	10000	29.2	7.75	7093	146.5	5.86	7	92.26	3.89	4.62

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Ponded Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

**Site: PGE Topock**  
Topock, CA

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings

---

Site: PGE Topock  
Topock, CA

## CW-02D-LF

Date	10/07/2020	Sampler	Matt Trainotti
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	92.14
Water Quality Meter	YSI	Gallons in Well	39.61
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	335
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	310
Water Column in Well	242.86	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/07/2020	EB Time	
Sample Time	10:52	MS/MSD Sample ID	
Sample ID	CW-02D-LF-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	10/07/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:35	500	2000	28.4	7.78	7391	137.7	4.59	14	92.18	4.05	4.78
10:39	500	4000	28.4	7.79	7447	134.5	7.19	8	92.18	4.12	4.89
10:43	500	6000	28.6	7.78	7549	132.8	7.51	3	92.18	4.11	4.85
10:47	500	8000	28.6	7.77	7580	135.6	7.44	3	92.18	4.14	4.91
10:51	500	10000	28.6	7.77	7603	134.5	7.46	3	92.18	4.16	4.94

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pondered Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

**Site: PGE Topock**  
Topock, CA

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings

---

Site: PGE Topock  
Topock, CA

## CW-03M

Date	10/07/2020	Sampler	Jecte Boyd
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	77.10
Water Quality Meter	YSI	Gallons in Well	23.63
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	222.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	197
Water Column in Well	144.90	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/07/2020	EB Time	
Sample Time	12:16	MS/MSD Sample ID	
Sample ID	CW-03M-LF-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-902-Q420	Double Filter Turbidity	
Dup Sample Time	12:26	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	10/07/2020
Without Filter Turbidity	8		

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:59	500	2000	29.9	7.79	8875	17.0	4.22	9	77.15	4.46	5.26
12:03	500	4000	30.0	7.79	8891	16.4	4.38	8	77.14	4.46	5.26
12:07	500	6000	30.0	7.80	8883	16.3	4.38	8	77.14	4.46	5.26
12:11	500	8000	30.0	7.80	8902	16.3	4.48	8	77.14	4.46	5.26
12:15	500	10000	30.0	7.80	8906	16.3	4.45	8	77.14	4.46	5.26

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Ponded Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		

Site: PGE Topock  
Topock, CA

Item	Yes	No	NA	Notes
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings

---

Site: PGE Topock  
Topock, CA

## CW-03D-LF

Date	10/07/2020	Sampler	Matt Trainotti
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	76.66
Water Quality Meter	YSI	Gallons in Well	39.69
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	320
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	295
Water Column in Well	243.34	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/07/2020	EB Time	
Sample Time	12:15	MS/MSD Sample ID	
Sample ID	CW-03D-LF-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4;	Post Sampling Turbidity	
Turbidity		Purge Date	10/07/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:58	500	2000	29.1	7.74	7491	139.7	3.54	12	76.73	4.10	4.85
12:02	500	4000	29.4	7.77	7511	137.3	4.00	7	76.73	4.14	4.91
12:06	500	6000	29.7	7.78	7534	136.5	4.42	4	76.73	4.13	4.90
12:10	500	8000	29.8	7.78	7544	133.2	4.54	4	76.73	4.13	4.92
12:14	500	10000	29.9	7.79	7475	131.8	4.54	4	76.73	4.15	4.92

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Ponded Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

Site: PGE Topock  
Topock, CA

Item	Yes	No	NA	Notes
Action Completed?		X		

Photos and Drawings

---



Site: PGE Topock  
Topock, CA

## CW-04M-LF

Date	10/02/2020	Sampler	Reggie Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	61.29
Water Quality Meter	YSI	Gallons in Well	17.77
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	170.22
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	144.5
Water Column in Well	108.93	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-702-Q420
Sample Date	10/02/2020	EB Time	09:34
Sample Time	09:37	MS/MSD Sample ID	
Sample ID	CW-04M-LF-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	10/02/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:20	500	2000	31.3	7.44	8215	-93	0.90	12	61.40	4.14	7.89
09:24	500	4000	31.4	7.49	8319	-99	0.74	10	61.40	4.14	7.89
09:28	500	6000	31.5	7.50	8311	-101	0.66	8	61.40	4.14	7.89
09:32	500	8000	31.5	7.52	8388	-103	0.49	8	61.40	4.14	7.89
09:36	500	10000	31.5	7.54	8409	-109	0.39	8	61.40	4.14	7.89

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Ponded Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		

**Site: PGE Topock**  
Topock, CA

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings

---

Site: PGE Topock  
Topock, CA

## CW-04D-LF

Date	10/02/2020	Sampler	Reggie Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	60.99
Water Quality Meter	YSI	Gallons in Well	36.45
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	284.44
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	258
Water Column in Well	223.45	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/02/2020	EB Time	
Sample Time	08:36	MS/MSD Sample ID	
Sample ID	CW-04D-LF-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	10/02/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:19	500	2000	30.1	7.55	10115	-120	0.65	9	61.10	6.25	8.13
08:23	500	4000	30.2	7.60	10233	-125	0.49	7	61.10	6.25	8.13
08:27	500	6000	30.2	7.63	10278	-131	0.33	7	61.10	6.25	8.13
08:31	500	8000	30.3	7.64	10299	-134	0.32	7	61.10	6.25	8.13
08:35	500	10000	30.5	7.62	10322	-136	0.33	7	61.10	6.25	8.13

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Ponded Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		

**Site: PGE Topock**  
Topock, CA

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings

---

Site: PGE Topock  
Topock, CA

## OW-01S

Date	10/07/2020	Sampler	Matt Trainotti
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	92.83
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	113.5
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	98.5
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/07/2020	EB Sample ID	
Sample Time	13:35	EB Time	
Sample ID	OW-01S-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	3	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	10/07/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:18	500	2000	28.4	7.26	7304	110.5	6.94	12	92.87	4.01	4.75
13:22	500	4000	29.6	7.22	7313	114.5	6.33	7	92.87	4.03	4.78
13:26	500	6000	29.8	7.19	7322	115.6	6.04	3	92.87	3.95	4.76
13:30	500	8000	29.7	7.14	7308	121.5	5.94	3	92.87	3.96	4.81
13:34	500	10000	30.1	7.12	7276	125.5	5.78	3	92.87	3.96	4.71

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Ponded Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

Site: PGE Topock  
Topock, CA

## OW-01M

Date	10/07/2020	Sampler	Jecte Boyd
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	92.79
Water Quality Meter	YSI	Gallons in Well	15.04
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	185.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	175
Water Column in Well	92.21	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-756-Q420
Sample Date	10/07/2020	EB Time	14:30
Sample Time	13:41	MS/MSD Sample ID	
Sample ID	OW-01M-Q420	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	10/07/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:24	500	2000	29.6	7.44	8543	16.7	5.10	10	92.83	4.30	5.09
13:28	500	4000	29.7	7.43	8544	16.9	5.30	9	92.82	4.30	5.09
13:32	500	6000	29.7	7.43	8553	17.3	5.25	9	92.83	4.30	5.09
13:36	500	8000	29.7	7.42	8556	17.5	5.06	9	92.83	4.30	5.09
13:40	500	10000	29.8	7.42	8558	17.8	5.28	9	92.83	4.30	5.09

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pondered Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

**Site: PGE Topock**  
Topock, CA

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings

---

Site: PGE Topock  
Topock, CA

## OW-01D

Date	10/07/2020	Sampler	Matt Trainotti
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	92.64
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	277
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	267
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/07/2020	EB Sample ID	EB-755-Q420
Sample Time	14:26	EB Time	15:00
Sample ID	OW-01D-Q420	MS/MSD Sample ID	
Duplicate Sample ID	MW-903-Q420	MS/MSD Sample Time	
Dup Sample Time	14:36	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	3	Purge Date	10/07/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:09	500	2000	28.8	7.45	7182	165.4	8.22	13	92.70	4.06	4.74
14:13	500	4000	29.3	7.47	7375	157.8	8.17	9	92.70	4.03	4.82
14:17	500	6000	29.4	7.48	7661	158.7	8.35	3	92.70	4.04	4.80
14:21	500	8000	29.4	7.48	7403	158.5	8.34	3	92.70	3.94	4.69
14:25	500	10000	29.4	7.48	7522	158.1	8.31	3	92.7	4.06	4.82

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pondered Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			



**Site: PGE Topock**  
Topock, CA

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings

---

Site: PGE Topock  
Topock, CA

## OW-02S

Date	10/08/2020	Sampler	Jecte Boyd
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	91.69
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	101.00
Casing Material	PVC	Odor	none
Water Column in Well	9.31	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/08/2020	EB Sample ID	
Sample Time	10:57	EB Time	
Sample ID	OW-02S-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	4	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	10/08/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:40	500	2000	29.9	7.88	4492	8.0	5.51	5	91.73	2.16	2.67
10:44	500	4000	29.6	7.87	4464	9.7	5.43	4	91.73	2.16	2.67
10:48	500	6000	29.5	7.87	4462	9.6	5.54	4	91.73	2.16	2.67
10:52	500	8000	29.5	7.87	4463	9.2	5.58	4	91.73	2.16	2.67
10:56	500	10000	29.5	7.86	4451	9.0	5.38	4	91.73	2.16	2.67

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pondered Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

Site: PGE Topock  
Topock, CA

## OW-02M

Date	10/08/2020	Sampler	Jecte Boyd
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.92
Water Quality Meter	YSI	Gallons in Well	19.42
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	210.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	200
Water Column in Well	119.08	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/08/2020	EB Time	
Sample Time	09:11	MS/MSD Sample ID	
Sample ID	OW-02M-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	10/08/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:54	500	2000	28.94	7.51	8384	20.3	6.40	4	90.96	4.28	5.05
08:58	500	4000	29.0	7.50	8412	20.2	6.43	3	90.96	4.28	5.05
09:02	500	6000	28.9	7.50	8383	20.4	6.28	3	90.96	4.28	5.05
09:06	500	8000	29.0	7.50	8413	20.4	6.26	3	90.96	4.28	5.05
09:10	500	10000	29.0	7.50	8411	20.5	6.21	3	90.96	4.28	5.05

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pondered Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

Site: PGE Topock  
Topock, CA

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings

---

Site: PGE Topock  
Topock, CA

## OW-02D

Date	10/08/2020	Sampler	Matt Trainotti
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.67
Water Quality Meter	YSI	Gallons in Well	39.04
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	330
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	320
Water Column in Well	239.33	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/08/2020	EB Time	
Sample Time	10:19	MS/MSD Sample ID	
Sample ID	OW-02D-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	10/08/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:02	500	2000	28.0	7.68	7655	109.5	5.04	15	90.74	4.09	4.71
10:06	500	4000	28.1	7.66	7410	98.8	5.07	10	90.74	4.04	4.82
10:10	500	6000	27.8	7.63	7307	94.3	4.46	7	90.74	4.24	4.80
10:14	500	8000	28.0	7.62	7265	92.1	4.54	7	90.74	4.18	4.77
10:18	500	10000	28.0	7.62	7231	91.0	4.50	7	90.74	4.16	4.75

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pondered Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

Site: PGE Topock  
Topock, CA

## OW-05S-LF

Date	10/08/2020	Sampler	Jecte Boyd
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	94.52
Water Quality Meter	YSI	Gallons in Well	2.52
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	110.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	15.48	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/08/2020	EB Time	
Sample Time	11:51	MS/MSD Sample ID	
Sample ID	OW-05S-LF-Q420	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	10/08/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:44	500	2000	30.4	7.45	6609	-2.8	4.40	2	94.56	3.22	3.88
11:48	500	4000	30.4	7.45	6583	-1.5	4.29	2	94.56	3.22	3.88
11:50	500	10000	30.4	7.45	6551	0.6	4.40	2	94.56	3.22	3.88
11:52	500	6000	30.4	7.45	6578	-0.6	4.40	2	94.56	3.22	3.88
11:56	500	8000	30.4	7.45	6568	0.1	4.43	2	94.56	3.22	3.88

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pondered Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

Site: PGE Topock  
Topock, CA

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings

---

Site: PGE Topock  
Topock, CA

## OW-05M-LF

Date	10/08/2020	Sampler	Matt Trainotti
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	93.88
Water Quality Meter	YSI	Gallons in Well	25.46
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	250
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	230
Water Column in Well	156.12	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/08/2020	EB Time	
Sample Time	13:03	MS/MSD Sample ID	
Sample ID	OW-05M-LF-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	10/08/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:46	500	2000	29.0	7.46	7685	125.3	10.2	15	93.95	4.10	4.80
12:50	500	4000	29.0	7.45	7633	122.8	9.95	11	93.95	4.08	4.79
12:54	500	6000	29.1	7.43	7599	120.4	9.74	7	93.95	4.06	4.74
12:58	500	8000	29.1	7.44	7573	118.8	9.66	7	93.95	4.04	4.77
13:02	500	10000	29.1	7.43	7538	117.3	10.20	7	93.95	4.03	4.73

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pondered Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			



**Site: PGE Topock**  
**Topock, CA**

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings

---

Site: PGE Topock  
Topock, CA

## OW-05D

Date	10/08/2020	Sampler	Matt Trainotti
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	94.09
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	320
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	310
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/08/2020	EB Sample ID	
Sample Time	12:00	EB Time	
Sample ID	OW-05D-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	4	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	10/08/2020

## Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:43	500	2000	28.8	7.07	7262	118.9	8.11	11	94.14	3.98	4.73
11:47	500	4000	28.8	7.10	7288	121.5	8.30	7	94.14	3.98	4.74
11:51	500	6000	29.3	7.12	7303	124.3	8.44	4	94.14	4.00	4.76
11:55	500	8000	29.2	7.13	7356	126.7	8.50	4	94.14	4.01	4.77
11:59	500	10000	29.4	7.14	7388	128.3	8.54	4	94.14	4.01	4.77

## Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Ponded Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles Intact?			X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	