

Site: PGE Topock
Topock, CA

TW-03D

Date	01/08/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Extraction Port	Casing Volume to Remove	
Water Quality Meter	YSI	Depth to Water (ft bmp)	
Sampling Type	Extraction port	Gallons in Well	
Did Well Dewater?	No	Measured Well Depth (ft bmp)	
Sample Date	01/08/2020	Odor	None
Sample Time	10:25	Pump Intake Depth (ft bmp)	
Sample ID	TW-03D-Q120	Total Volume to Remove	
Single Filter Turbidity	1	EB Sample ID	
Without Filter Turbidity	1	EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	1
		Post Sampling Turbidity	
		Purge Date	01/08/2020

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)
10:25			19.7	7.30	7894	146.6	8.58	1		4.36	5.1025

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				

Photos and Drawings

Site: PGE Topock
Topock, CA



C-BNS

C-BNS - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	14
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	13		
Sampler	Riggie	Casing Volume to Remove			
Comments	2102143.07' N, 7616944.02' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:50	500	500	12.9	8.06	925	172	8.92	2		0.60	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/29/2020	Sample?	
Sample Time	10:51	Post Sampling Turbidity	
Sample ID	C-BNS-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-CON-D

C-CON-D - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	8
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	7		
Sampler	Riggie	Casing Volume to Remove			
Comments	2105633.75' N, 7614082.43' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:18	500	500	11.9	8.14	922	169	8.01	4		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/30/2020	Sample?	
Sample Time	10:20	Post Sampling Turbidity	
Sample ID	C-CON-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	4
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-CON-S

C-CON-S - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2105633.75' N, 7614082.43' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:28	500	500	12.1	8.06	923	177	8.73	3		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/30/2020	Sample?	
Sample Time	10:30	Post Sampling Turbidity	
Sample ID	C-CON-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-I-3-D

C-I-3-D - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	11
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	10		
Sampler	Riggie	Casing Volume to Remove			
Comments	210056.68' N, 7617744.54' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:17	500	500	12.3	8.06	916	162	8.93			0.59	0.45

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/29/2020	Sample?	
Sample Time	09:18	Post Sampling Turbidity	
Sample ID	C-I-3-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-I-3-S

C-I-3-S - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	210056.68' N, 7617744.54' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:29	500	500	12.2	8.12	916	153	8.08	2		0.59	0.45

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/29/2020	Sample?	
Sample Time	09:30	Post Sampling Turbidity	
Sample ID	C-I-3-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-MAR-D

C-MAR-D - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	3
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	2		
Sampler	Riggie	Casing Volume to Remove			
Comments	2102571.02' N, 7617738.26' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:35	500	500	11.3	8.84	1074	162	8.90	6		0.70	0.54

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/30/2020	Sample?	
Sample Time	08:36	Post Sampling Turbidity	
Sample ID	C-MAR-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	6
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-MAR-S

C-MAR-S - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2102571.02' N, 7617738.26' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:48	500	500	11.5	8.85	1100	172	8.73	7		0.71	0.55

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/30/2020	Sample?	
Sample Time	08:50	Post Sampling Turbidity	
Sample ID	C-MAR-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	7
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-NR1-D

C-NR1-D - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	5
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	4		
Sampler	Riggie	Casing Volume to Remove			
Comments	2106027.69' N, 7613279.15' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:51	500	500	12.2	8.06	924	178	8.64	3		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/30/2020	Sample?	
Sample Time	10:52	Post Sampling Turbidity	
Sample ID	C-NR1-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-NR1-S

C-NR1-S - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2106027.69' N, 7613279.15' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:01	500	500	13.0	8.02	924	179	8.25	2		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/30/2020	Sample?	
Sample Time	11:02	Post Sampling Turbidity	
Sample ID	C-NR1-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-NR3-D

C-NR3-D - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	5.5
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	4.5		
Sampler	Riggie	Casing Volume to Remove			
Comments	2106756.63' N, 7611724.40' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:27	500	500	12.3	8.07	923	180	8.33	2		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No 0
Sample Date	01/30/2020	Sample?
Sample Time	11:28	Post Sampling Turbidity
Sample ID	C-NR3-D-Q120	Double Filter Turbidity
Duplicate Sample ID	Mw-903-q120	Single Filter Turbidity
Dup Sample Time	11:38	Without Filter Turbidity
Color	Clear	MS/MSD Sample Time
Odor	None	MS/MSD Sample ID
		EB Time
		EB Sample ID
		Remarks

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-NR3-S

C-NR3-S - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2106756.63' N, 7611724.40' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:42	500	500	12.2	8.07	922	181	8.26	2		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/30/2020	Sample?	
Sample Time	11:43	Post Sampling Turbidity	
Sample ID	C-NR3-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-NR4-D

C-NR4-D - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	9
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	8		
Sampler	Riggie	Casing Volume to Remove			
Comments	2108627.74' N, 7607996.07' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:05	500	500	12.2	8.06	921	180	8.39	3		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/30/2020	Sample?	
Sample Time	12:06	Post Sampling Turbidity	
Sample ID	C-NR4-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-NR4-S

C-NR4-S - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2108627.74' N, 7607996.07' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:14	500	500	12.2	8.05	920	181	8.82	2		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/30/2020	Sample?	
Sample Time	12:15	Post Sampling Turbidity	
Sample ID	C-NR4-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-R22A-D

C-R22A-D - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	4
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	3		
Sampler	Riggie	Casing Volume to Remove			
Comments	2101640.42' N, 7616968.98' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:10	500	500	12.8	8.09	951	169	8.65	2		0.61	0.47

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/29/2020	Sample?	
Sample Time	10:11	Post Sampling Turbidity	
Sample ID	C-R22A-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-R22A-S

C-R22A-S - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2101640.42' N, 7616968.98' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:21	500	500	12.7	8.10	955	169	8.71	2		0.61	0.47

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/29/2020	Sample?	
Sample Time	10:22	Post Sampling Turbidity	
Sample ID	C-R22A-S-Q120	Double Filter Turbidity	
Duplicate Sample ID	Mw-904-q120	Single Filter Turbidity	1
Dup Sample Time	10:32	Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-R27-D

C-R27-D - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	3.5
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	2		
Sampler	Riggie	Casing Volume to Remove			
Comments	2102558.98' N, 7616718.95' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:11	500	500	12.7	8.09	950	174	8.81	2		0.61	0.47

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/29/2020	Sample?	
Sample Time	11:12	Post Sampling Turbidity	
Sample ID	C-R27-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-R27-S

C-R27-S - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2102558.98' N, 7616718.95' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:24	500	500	12.9	8.07	963	176	8.51	2		0.62	0.48

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/29/2020	Sample?	
Sample Time	11:25	Post Sampling Turbidity	
Sample ID	C-R27-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-TAZ-D

C-TAZ-D - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	11
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	10		
Sampler	Riggie	Casing Volume to Remove			
Comments	2100866.81 ft N, 7618856.53 ft E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:31	500	500	12.1	8.19	923	110	8.32	3		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0	Sample?	
Sample Date	01/29/2020	Post Sampling Turbidity		Double Filter Turbidity	
Sample Time	08:32	Single Filter Turbidity	1	Without Filter Turbidity	3
Sample ID	C-TAZ-D-Q120	MS/MSD Sample Time		MS/MSD Sample ID	
Duplicate Sample ID		EB Time		EB Sample ID	
Dup Sample Time		Remarks			
Color	Clear				
Odor	None				

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-TAZ-S

C-TAZ-S - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2100866.81 ft N, 7618856.53 ft E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:48	500	500	12.3	8.16	915	140	8.08	2		0.59	0.45

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/29/2020	Sample?	
Sample Time	08:49	Post Sampling Turbidity	
Sample ID	C-TAZ-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

MW-11D

MW-11D - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	68.19
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material	PVC	Gallons in Well	
Purge Volume Units	ml	Casing Diameter (in)	2	Total Volume to Remove	
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)			
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
15:09	500	2000	29.2	7.07	5821	66.8	2.60	12	68.29	3.79	3.14
15:13	500	4000	29.9	7.06	5720	65.9	3.47	7	68.29	3.73	3.09
15:17	500	6000	30.0	7.05	5677	66.5	3.55	4	68.29	3.69	3.05
15:21	500	8000	30.1	7.05	5559	67.4	3.64	4	68.29	3.68	3.05
15:25	500	10000	30.0	7.05	5628	67.8	3.61	4	68.29	3.65	3.02

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	01/29/2020	Post Sampling Turbidity	
Sample Time	15:26	Double Filter Turbidity	
Sample ID	MW-11D-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	4
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	16:00
		EB Sample ID	EB-780-Q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?		X		
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-11D



MW-75-033

MW-75-033 - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	20.37
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	34.80
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	14.43
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	2.35
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	28	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:37	500	2000	26.3	7.37	3645	43.5	1.13	88	20.57	2.36	1.91
09:41	500	4000	26.7	7.36	3601	41.3	1.17	44	20.57	2.34	1.89
09:45	500	6000	26.5	7.37	3601	42.0	1.21	35	20.57	2.28	1.85
09:49	500	8000	26.7	7.38	3558	41.8	1.24	35	20.57	2.34	1.89
09:53	500	10000	26.7	7.37	3504	41.0	1.27	35	20.57	2.28	1.85

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	01/30/2020	Post Sampling Turbidity	
Sample Time	09:54	Double Filter Turbidity	1
Sample ID	MW-75-033-Q120	Single Filter Turbidity	10
Duplicate Sample ID		Without Filter Turbidity	35
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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



MW-75-033

MW-75-117

MW-75-117 - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	20.44
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	118.11
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	97.67
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	15.93
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	110	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:41	500	2000	26.6	7.26	13383	33.4	0.30	21	20.58	8.70	7.68
10:45	500	4000	26.7	7.27	13421	31.6	0.24	11	20.58	8.71	7.70
10:49	500	6000	26.8	7.30	13465	28.6	0.20	8	20.58	8.74	7.73
10:53	500	8000	26.8	7.31	13434	27.3	0.19	8	20.58	8.73	7.72
10:57	500	10000	26.9	7.31	13418	26.8	0.18	8	20.58	8.75	7.75

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	01/30/2020	Post Sampling Turbidity	
Sample Time	10:58	Double Filter Turbidity	
Sample ID	MW-75-117-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	8
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

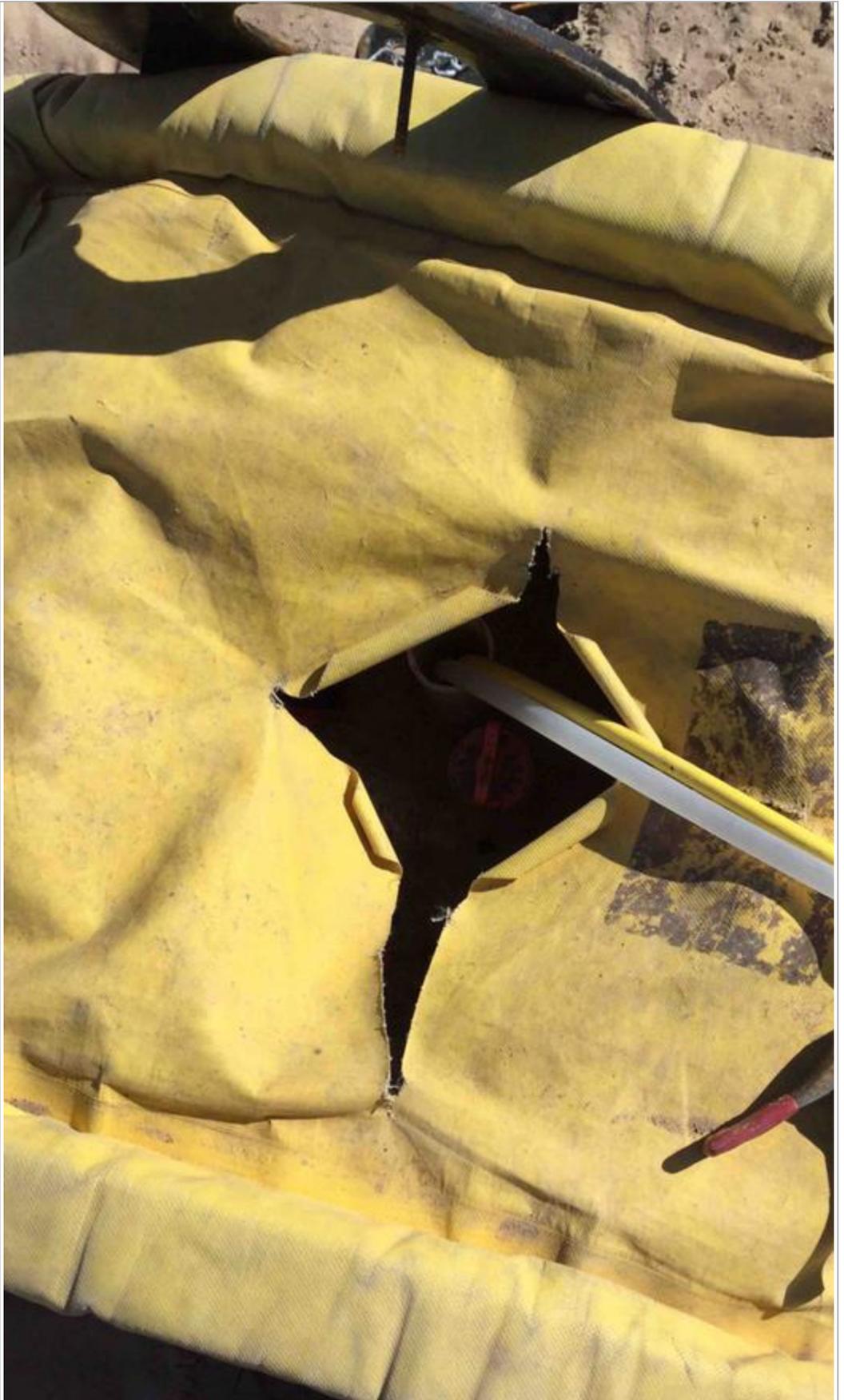
Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-75-117



MW-75-202

MW-75-202 - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	20.14
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	204.31
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	184.17
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	30.04
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	194	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:14	500	2000	27.5	7.15	18421	68.9	0.34	8	20.34	12.00	10.89
13:18	500	4000	27.8	7.23	18677	67.6	0.20	6	20.34	12.13	11.02
13:22	500	6000	27.8	7.25	18576	67.9	0.16	4	20.34	12.09	10.98
13:26	500	8000	27.8	7.25	18639	67.6	0.15	4	20.34	12.09	10.98
13:30	500	10000	27.8	7.25	18714	67.3	0.13	4	20.34	12.12	10.98

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	01/30/2020	Post Sampling Turbidity	
Sample Time	13:31	Double Filter Turbidity	
Sample ID	MW-75-202-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	4
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-75-202



MW-75-267

MW-75-267 - 01/30/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>20.33</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>268.58</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>248.25</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>40.49</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>260</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt Trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:01	500	2000	28.1	7.51	25759	54.0	0.17	11	20.48	16.65	15.65
12:05	500	4000	28.2	7.50	25659	49.8	0.14	5	20.48	16.67	15.59
12:09	500	6000	28.2	7.49	25587	46.8	0.17	5	20.48	16.69	15.68
12:13	500	8000	28.2	7.48	25503	44.7	0.13	5	20.48	16.55	15.48
12:17	500	10000	28.2	7.48	25489	41.8	0.16	5	20.48	16.58	15.58

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>NA</u>
Sample Date	<u>01/30/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>12:18</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-75-267-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u>MW-910-0120</u>	Without Filter Turbidity	<u>4</u>
Dup Sample Time	<u>12:28</u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

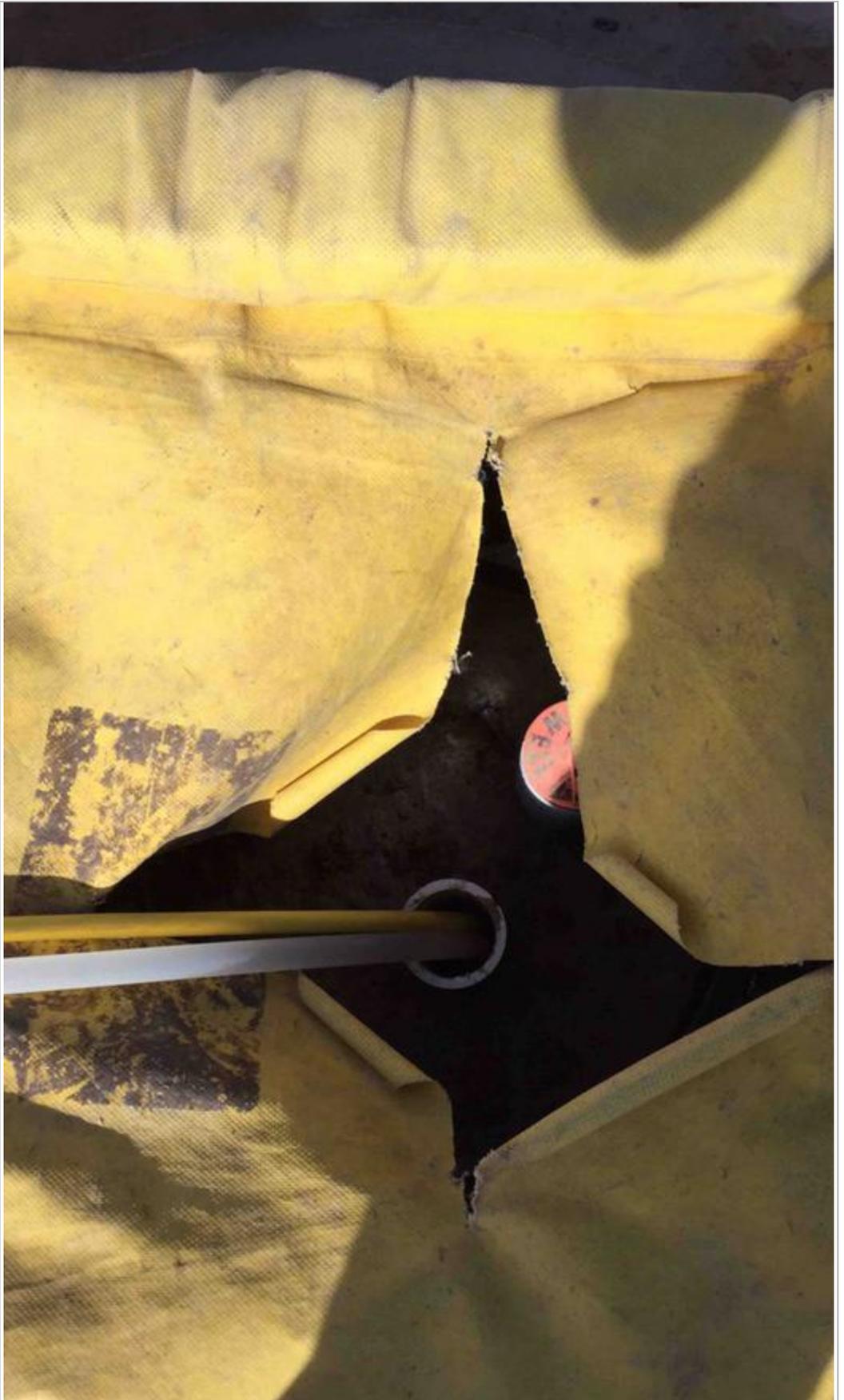
Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-75-267



MW-75-337

MW-75-337 - 01/30/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>21.57</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>338.50</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>316.93</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>51.69</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>327</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt Trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:43	500	2000	27.6	7.46	30501	-55.1	0.22	8	21.84	19.85	18.87
08:47	500	4000	27.2	7.47	30599	-65.8	0.18	4	21.84	19.89	18.94
08:51	500	6000	27.3	7.47	30668	-74.0	0.17	4	21.84	19.92	18.99
08:55	500	8000	27.3	7.49	30704	-80.3	0.16	4	21.84	19.95	19.02
08:59	500	10000	27.3	7.49	30790	-82.9	0.16	4	21.84	20.01	19.07

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>NA</u>
Sample Date	<u>01/30/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>09:00</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-75-337-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>4</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

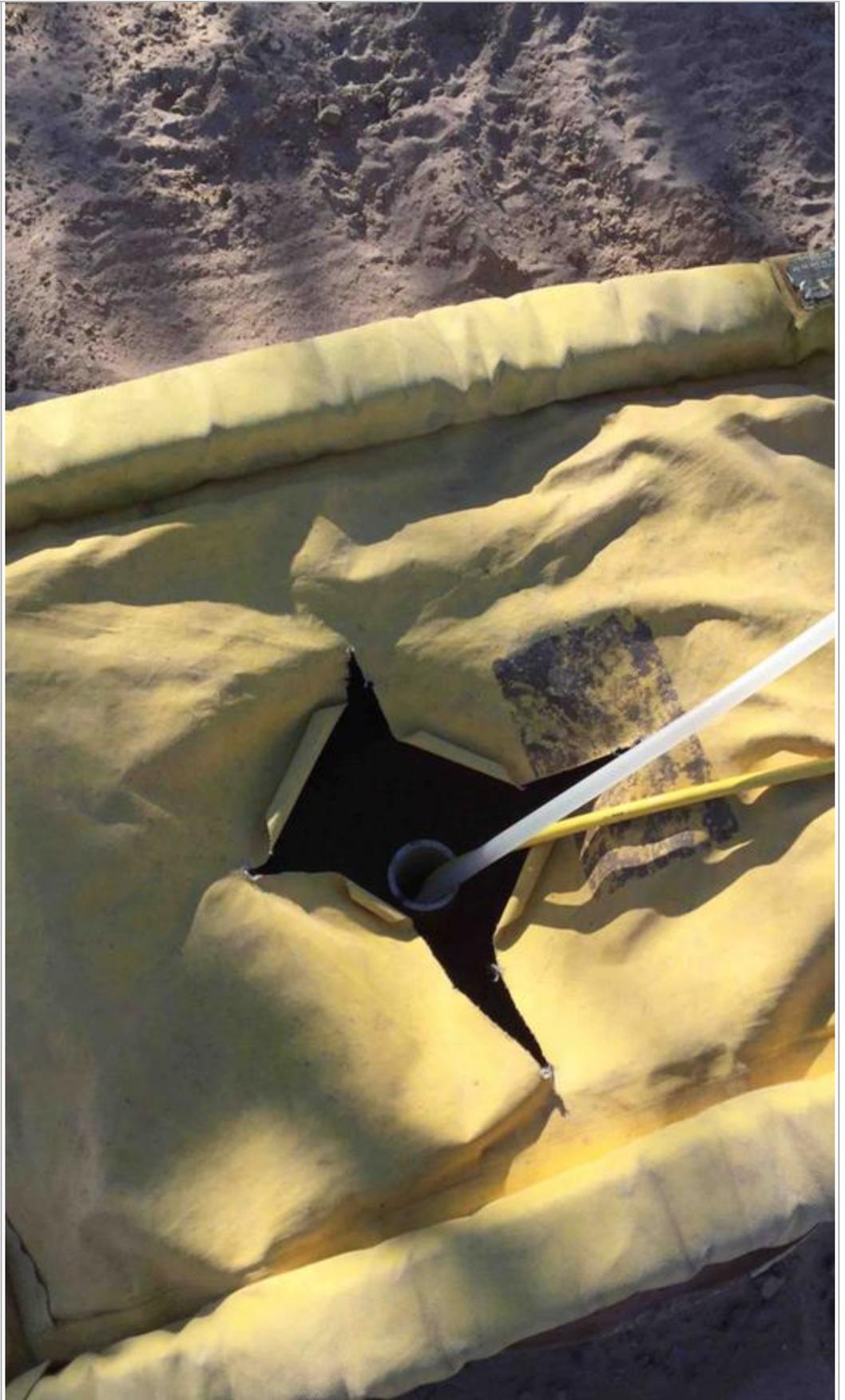
Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-75-337



MW-76-039

MW-76-039 - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	28.32
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	38.29
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	9.97
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	1.63
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	35	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:18	500	2000	27.5	7.14	3408	108.5	2.59	12	28.44	2.21	1.76
11:22	500	4000	28.0	7.10	3399	106.7	2.54	7	28.44	2.21	1.77
11:26	500	6000	28.0	7.09	3398	106.3	2.51	4	28.44	2.21	1.77
11:30	500	8000	27.9	7.09	3397	103.9	2.54	4	28.44	2.21	1.77
11:34	500	10000	27.9	7.08	3394	102.3	2.54	4	28.44	2.21	1.77

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	01/29/2020	Post Sampling Turbidity	
Sample Time	11:35	Double Filter Turbidity	
Sample ID	MW-76-039-Q120	Single Filter Turbidity	1
Duplicate Sample ID	MW-911-0120	Without Filter Turbidity	4
Dup Sample Time	11:45	MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

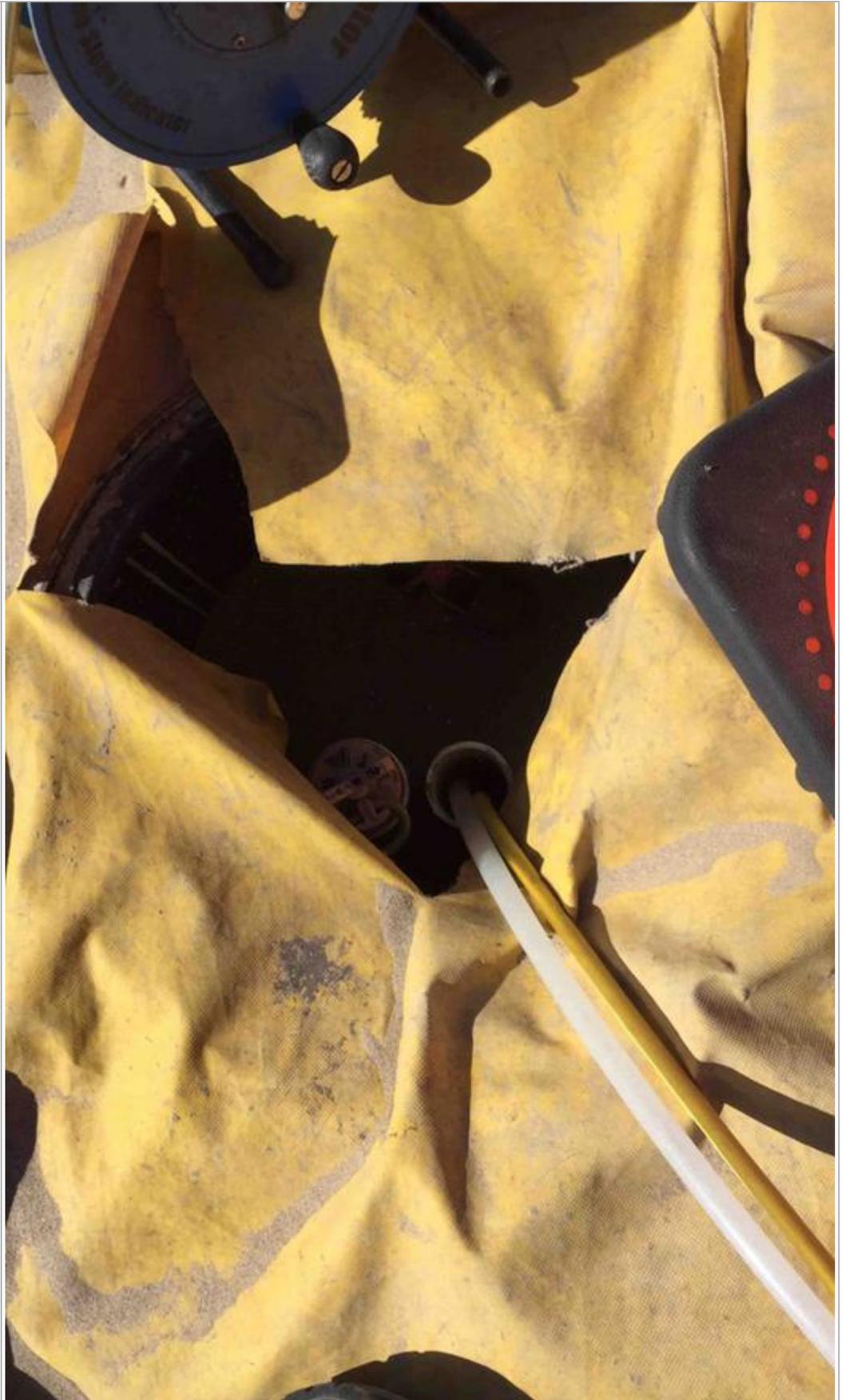
Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-76-039



MW-76-156

MW-76-156 - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	28.66
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	155.7
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	127.04
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	20.72
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	142	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:32	500	2000	27.2	7.09	16091	115.2	0.29	22	28.74	10.48	9.42
10:36	500	4000	27.4	7.11	16897	116.3	0.23	16	28.74	10.48	9.42
10:40	500	6000	27.6	7.11	17143	117.3	0.20	12	28.74	11.11	10.01
10:44	500	8000	27.8	7.14	17182	120.9	0.16	10	28.74	11.16	10.05
10:48	500	10000	27.8	7.14	17223	120.9	0.13	10	28.74	11.17	10.02

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	01/29/2020	Post Sampling Turbidity	
Sample Time	10:49	Double Filter Turbidity	
Sample ID	MW-76-156-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	10
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-76-156



MW-76-181

MW-76-181 - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	28.87
Gauge or Sample	Gauge and Sample	Water Quality Meter		Measured Well Depth (ft bmp)	182.71
Purge Method	Low Flow	Casing Material		Water Column in Well	
Purge Volume Units	ml	Casing Diameter (in)		Gallons in Well	
Sampling Type		Pump Intake Depth (ft bmp)		Total Volume to Remove	
Sampler		Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:44	500	2000	26.0	7.44	19908	119.7	0.36	12	28.92	12.95	11.86
09:48	500	4000	26.0	7.36	19950	119.0	0.33	8	28.92	12.96	11.86
09:52	500	6000	26.4	7.29	20280	121.3	0.27	4	28.92	13.19	12.09
09:56	500	8000	26.7	7.26	20326	122.2	0.27	4	28.92	13.21	12.12
10:00	500	10000	26.7	7.22	20453	123.5	0.23	4	28.92	13.23	12.15

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	01/29/2020	Post Sampling Turbidity	
Sample Time	10:01	Double Filter Turbidity	
Sample ID	MW-76-181-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	4
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

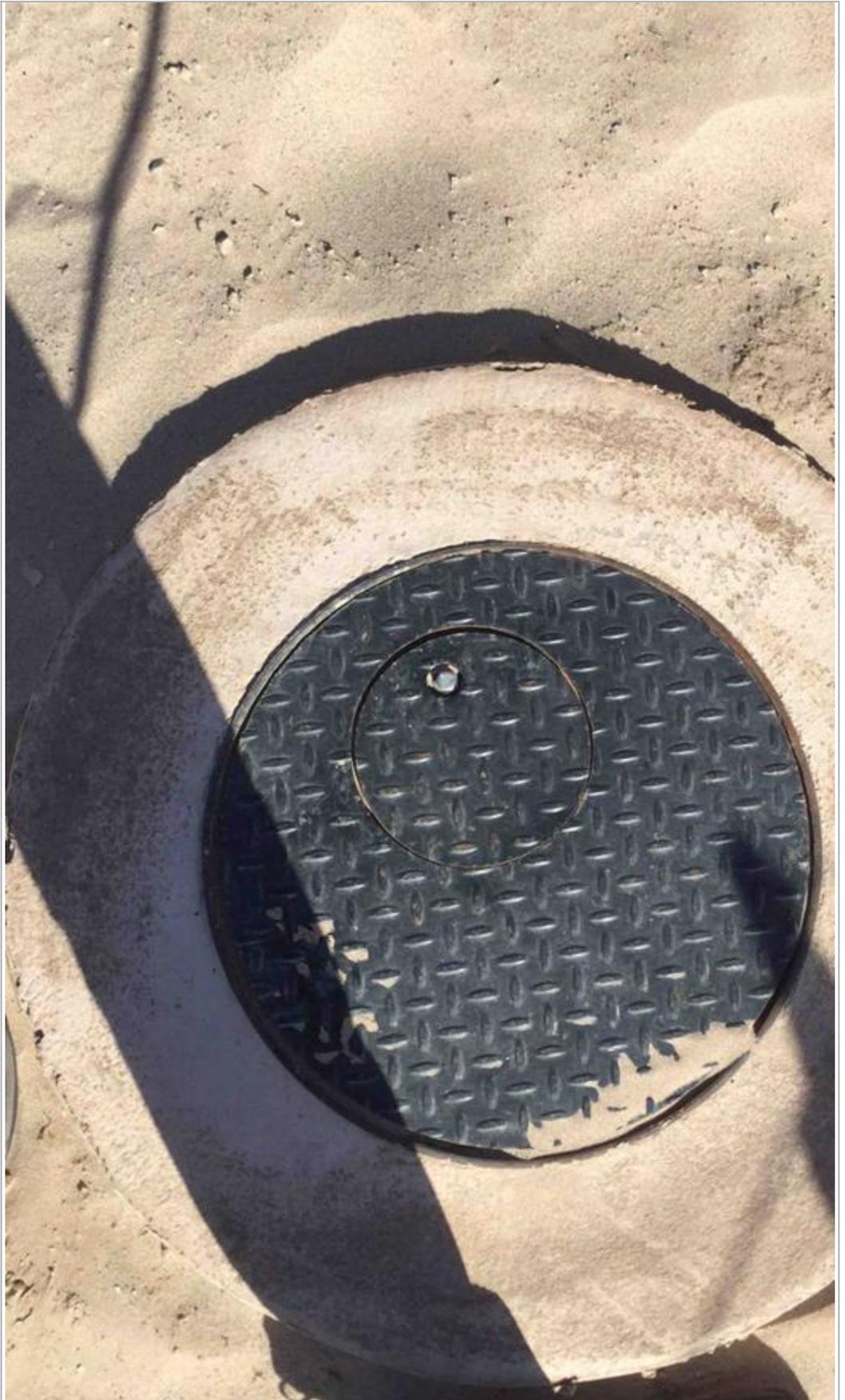
Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?			X	

MW-76-181



MW-76-218

MW-76-218 - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	27.83
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	219.65
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	191.82
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	31.29
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	213	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:52	500	2000	26.2	8.20	20821	133.9	0.88	24	27.90	14.20	13.10
08:56	500	4000	26.7	7.78	22879	133.9	0.43	12	27.90	14.80	13.70
09:00	500	6000	27.1	7.73	22858	122.5	0.31	6	27.90	14.86	13.76
09:04	500	8000	27.0	7.70	22912	118.3	0.26	5	27.90	14.91	13.80
09:08	500	10000	27.3	7.69	22864	116.1	0.26	5	27.90	14.81	13.74

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	01/29/2020	Post Sampling Turbidity	
Sample Time	09:09	Double Filter Turbidity	
Sample ID	MW-76-218-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	5
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

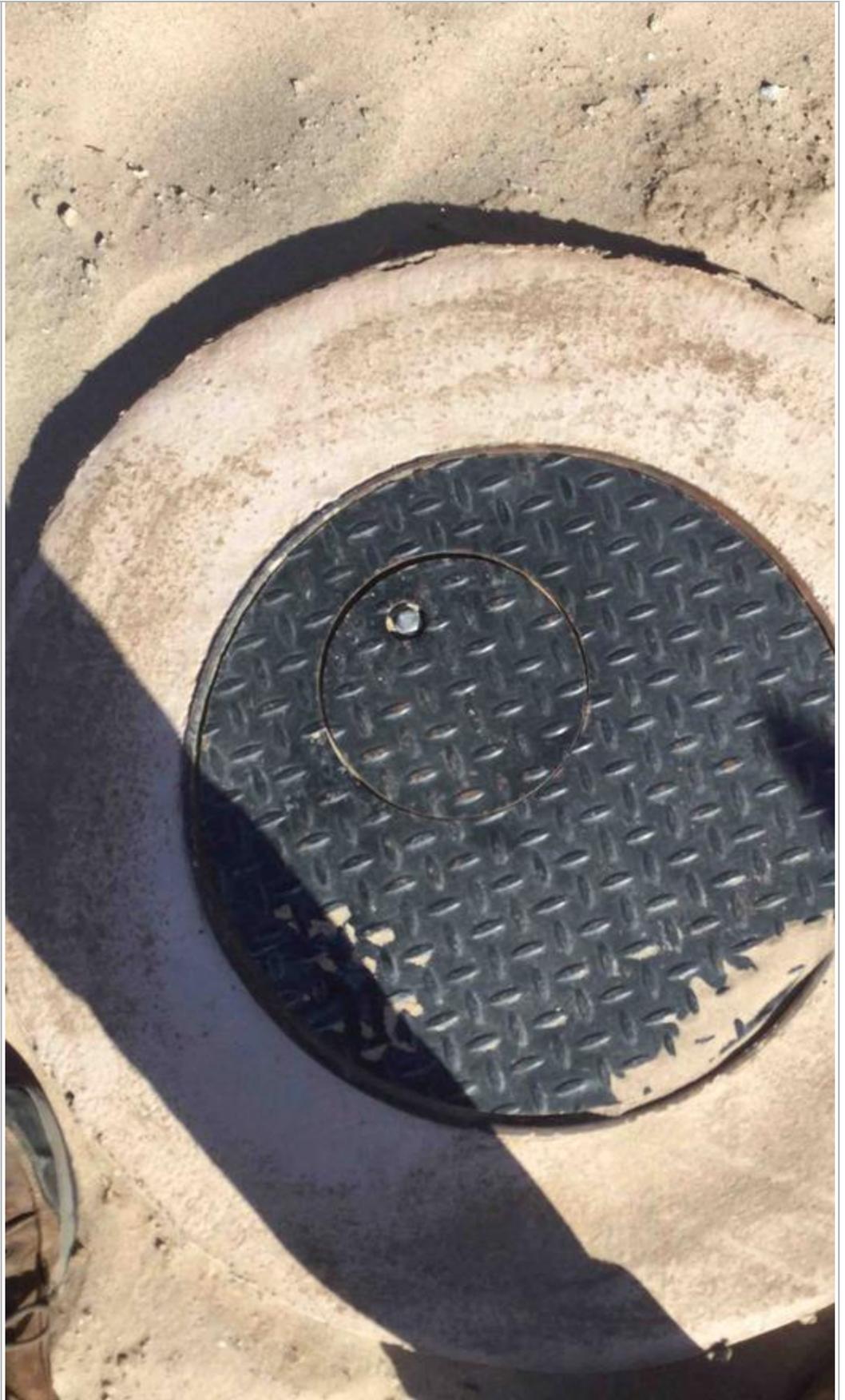
Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-76-218



MW-77-046

MW-77-046 - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	26.21
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material	PVC	Gallons in Well	
Purge Volume Units	ml	Casing Diameter (in)	2	Total Volume to Remove	
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	40	Casing Volume to Remove	
Sampler	Matt Trainotti				
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:29	500	2000	26.5	7.09	10380	64.7	0.94	280	26.33	6.70	5.80
14:33	500	4000	26.6	7.09	10078	58.1	0.28	44	26.33	6.52	5.62
14:37	500	6000	26.6	7.09	9971	55.2	0.22	24	26.33	6.46	5.59
14:41	500	8000	26.6	7.09	9870	53.0	0.19	26	26.33	6.42	5.54
14:45	500	10000	26.6	7.09	9760	51.0	0.16	24	26.33	6.38	5.51

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	01/30/2020	Post Sampling Turbidity	
Sample Time	14:46	Double Filter Turbidity	1
Sample ID	MW-77-046-Q120	Single Filter Turbidity	10
Duplicate Sample ID		Without Filter Turbidity	24
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	16:00
		EB Sample ID	EB-781-0120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-77-046



MW-81-043

MW-81-043 - 01/28/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>25.74</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>44.61</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>18.87</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>3.08</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>40</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt Trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:45	500	2000	26.6	7.20	6214	111.4	0.77	45	25.91	4.07	3.40
14:49	500	4000	27.0	7.20	6289	102.8	0.48	18	25.91	4.09	3.42
14:53	500	6000	27.0	7.22	6328	98.9	0.39	12	25.91	4.12	3.45
14:57	500	8000	27.0	7.22	6389	93.4	0.36	12	25.91	4.16	3.48
15:01	500	10000	27.0	7.23	6451	89.9	0.33	12	25.91	4.19	3.51

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>NA</u>
Sample Date	<u>01/28/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>15:02</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-81-043-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>12</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u>15:50</u>
		EB Sample ID	<u>EB-778-Q120</u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?		X		
Standing or Poned 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		

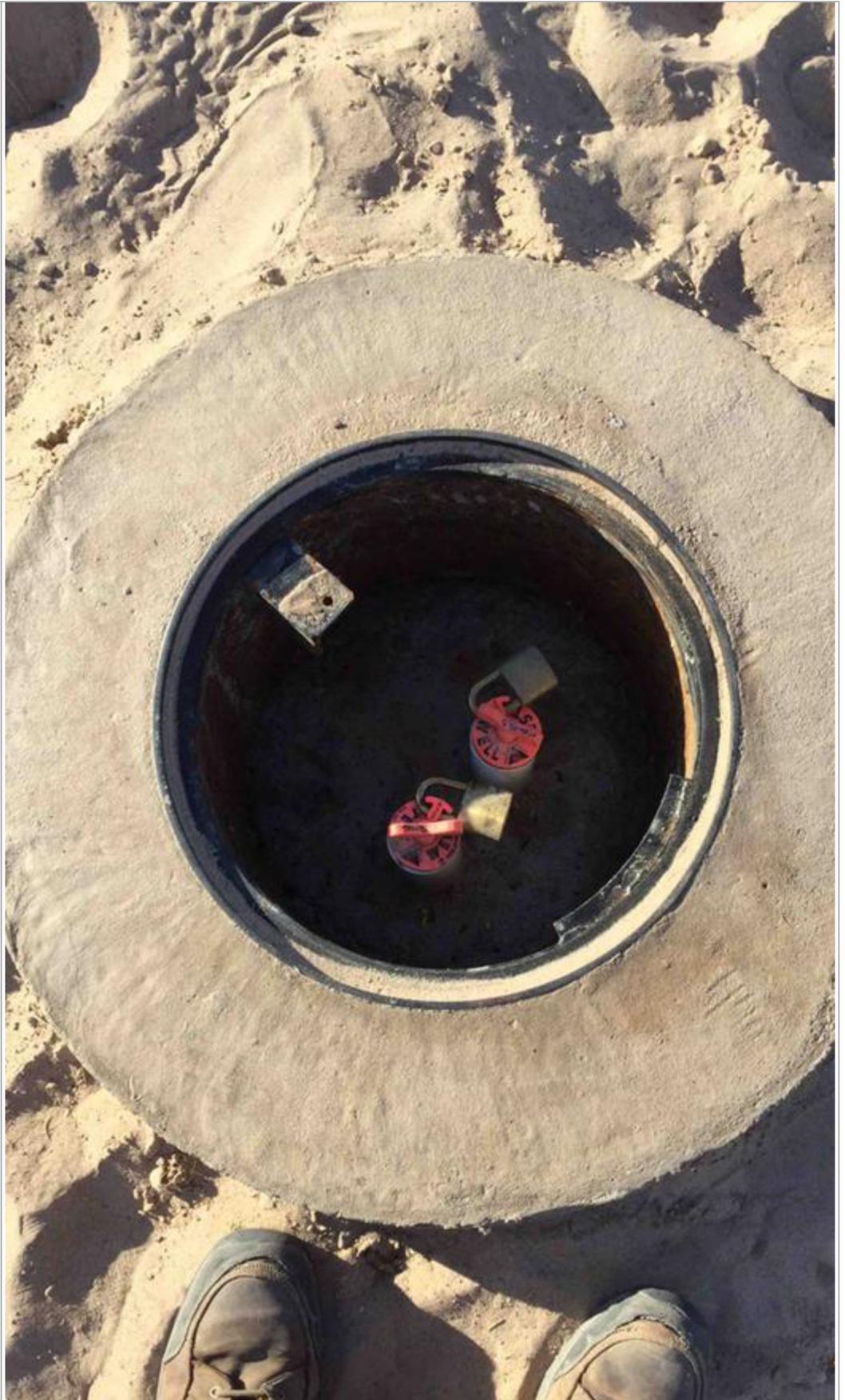
Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-81-043



MW-81-098

MW-81-098 - 01/28/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>26.11</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>99.41</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>73.30</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>11.96</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>94</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt Trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:57	500	2000	26.4	7.18	8804	101.5	0.48	14	26.44	5.71	4.89
14:01	500	4000	26.8	7.15	8783	103.7	0.33	10	26.44	5.70	4.87
14:05	500	6000	26.8	7.13	8761	106.1	0.26	6	26.44	5.69	4.87
14:09	500	8000	26.9	7.12	8144	106.7	0.22	6	26.44	5.70	4.87
14:13	500	10000	26.9	7.10	8731	106.9	0.18	6	26.44	5.70	4.85

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>NA</u>
Sample Date	<u>01/28/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>14:14</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-81-098-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>6</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

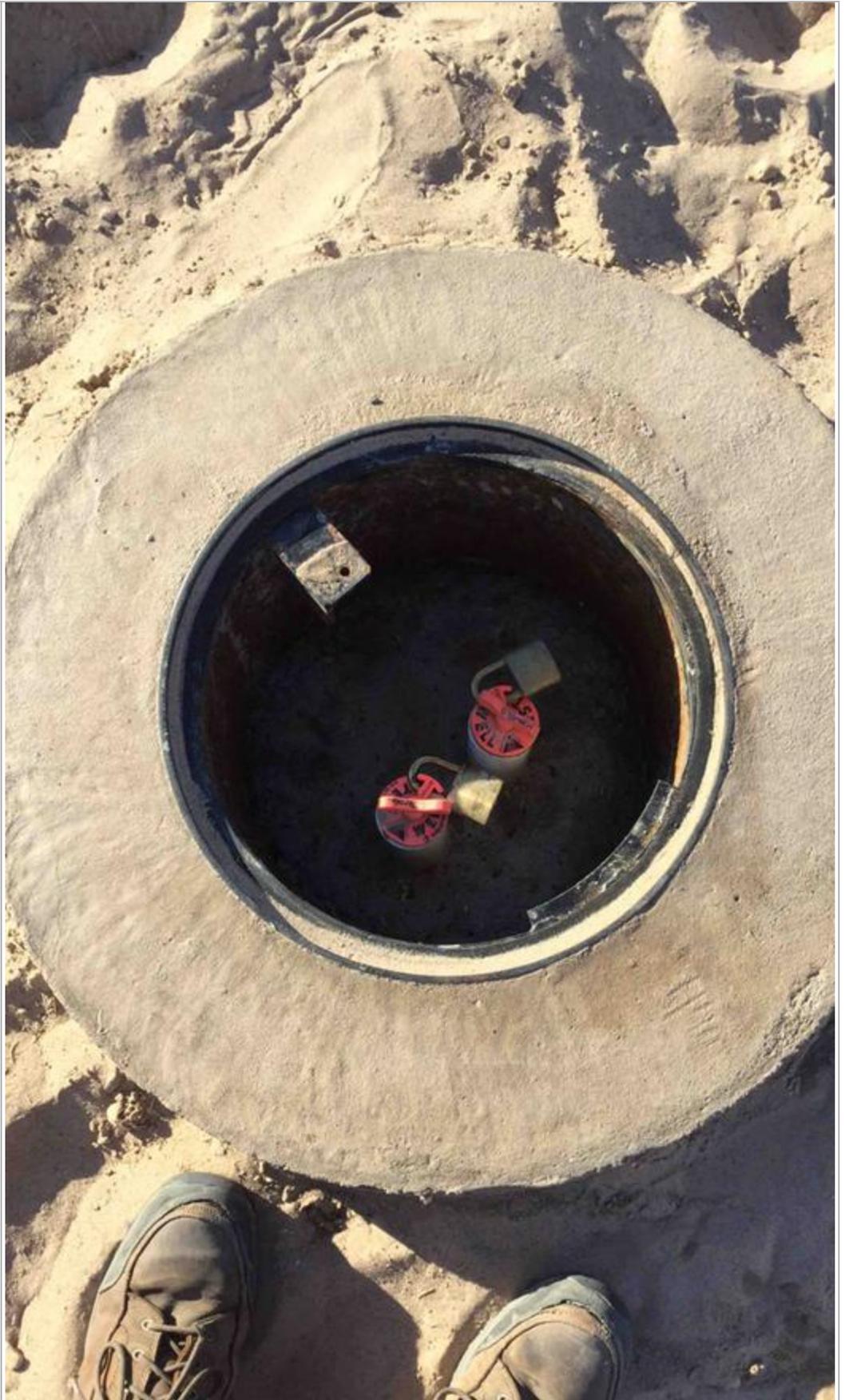
Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-81-098



MW-83-180

MW-83-180 - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	75.80
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	180.70
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	170	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:49	500	2000	28.5	6.12	11816	63.5	0.85	10	75.88	7.68	6.72
12:53	500	4000	29.2	6.14	11836	63.7	0.75	6	75.88	7.69	6.71
12:57	500	6000	29.0	6.18	11724	62.8	0.70	4	75.88	7.63	6.64
13:01	500	8000	29.0	6.17	11709	60.9	0.63	4	75.88	7.68	6.70
13:05	500	10000	29.0	6.17	11689	60.9	0.61	4	75.88	7.61	6.64

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	01/29/2020	Post Sampling Turbidity	
Sample Time	13:06	Double Filter Turbidity	
Sample ID	MW-83-180-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	4
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-83-180



MW-84-057

MW-84-057 - 01/27/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	46.86
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	57
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	10.14
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	1.65
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	49.5	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:42	500	2000	29.4	7.23	1844	125.8	6.11	53	46.93	1.21	0.93
13:46	500	4000	29.7	7.23	1846	127.2	6.22	28	46.93	1.20	0.93
13:50	500	6000	29.7	7.25	1848	128.3	6.25	22	46.93	1.20	0.93
13:54	500	8000	29.7	7.24	1852	129.4	6.28	21	46.93	1.20	0.93
13:58	500	10000	29.7	7.24	1853	131.3	6.33	19	46.93	1.20	0.93

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	01/27/2020	Post Sampling Turbidity	
Sample Time	13:59	Double Filter Turbidity	
Sample ID	MW-84-057-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	19
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-84-057



MW-84-095

MW-84-095 - 01/27/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	46.63
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	94.77
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	48.14
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	7.85
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	85	Total Volume to Remove	7.85
Sampler	Riggie	Casing Volume to Remove	1		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:47	500	2000	29.5	7.11	5688	119.6	1.04	197	46.69	3.69	3.06
13:51	500	4000	29.6	7.12	5656	100.01	0.98	29	46.69	3.69	3.04
13:55	500	6000	29.6	7.12	5654	60.7	0.97	16	46.69	3.68	3.04
13:59	500	8000	29.6	7.12	5649	58.2	0.94	9	46.69	3.67	3.04
14:03	500	10000	29.6	7.13	5648	52.6	0.92	9	46.69	3.66	3.03
14:07	500	10200	29.6	7.13	5660	50.8	0.91	9	46.69	3.67	3.03

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/27/2020	Sample?	
Sample Time	14:08	Post Sampling Turbidity	
Sample ID	MW-M-95-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	4
Dup Sample Time		Without Filter Turbidity	9
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

MW-84-095



Jan 27,2020 01:48:11 PM
Location:MW-M-95 Latitude:34.718921 , Longitude:-114.494447

MW-84-132

MW-84-132 - 01/27/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	47.20
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	132
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	84.80
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	13.83
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	122	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:49	500	2000	27.7	6.78	9104	139.4	0.74	10	47.28	6.01	5.09
12:53	500	4000	27.7	6.81	9344	134.4	0.60	7	47.28	6.08	5.14
12:57	500	6000	27.9	6.83	9576	131.9	0.53	4	47.28	6.20	5.24
13:01	500	8000	27.8	6.84	9754	128.9	0.50	4	47.28	6.34	5.32
13:05	500	10000	28.0	6.86	9852	121.4	0.46	4	47.28	6.41	5.49

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	01/27/2020	Post Sampling Turbidity	
Sample Time	13:06	Double Filter Turbidity	
Sample ID	MW-84-132-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	4
Dup Sample Time		MS/MSD Sample Time	13:06
Color	Clear	MS/MSD Sample ID	MW-84-132-Q120
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-84-132



MW-84-193

MW-84-193 - 01/27/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	47.12
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	192.12
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	145.0
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	23.65
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	183	Total Volume to Remove	23.65
Sampler	Riggie	Casing Volume to Remove	1		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
01:09	500	10000	29.7	7.44	12936	44.9	0.94	7	47.20	8.38	7.35
12:53	500	2000	29.6	7.37	13138	32.1	0.72	22	47.20	8.50	7.47
12:57	500	4000	29.3	7.45	13045	40.1	0.90	13	47.20	8.48	7.44
13:01	500	6000	29.6	7.43	13000	43.1	0.89	7	47.20	8.45	7.42
13:05	500	8000	29.6	7.44	12946	44.1	0.90	7	47.20	8.40	7.38

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/27/2020	Sample?	
Sample Time	13:10	Post Sampling Turbidity	
Sample ID	MW-M-193-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	3
Dup Sample Time		Without Filter Turbidity	7
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

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

MW-84-193



MW-87-109

MW-87-109 - 01/27/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	92.66
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	109.55
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	16.89
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	2.75
Sampling Type	Low Flow – QED Bladder Pump	Pump Intake Depth (ft bmp)	99	Total Volume to Remove	2.75
Sampler	Riggie	Casing Volume to Remove	1		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:52	500	2000	26.8	7.27	2476	135	4.28	78	92.68	1.60	1.27
14:56	500	4000	26.7	7.27	2418	136	4.55	25	92.68	1.56	1.24
15:00	500	6000	26.9	7.28	2319	139	5.12	22	92.68	1.50	1.18
15:04	500	8000	27.4	7.28	2274	143	5.58	20	92.68	1.48	1.16
15:08	500	10000	27.3	7.30	2255	143	5.80	21	92.68	1.45	1.16
15:12	500	12000	27.3	7.30	2246	144	5.77	21	92.68	1.45	1.16

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/27/2020	Sample?	
Sample Time	15:13	Post Sampling Turbidity	
Sample ID	MW-87-109-Q120	Double Filter Turbidity	3
Duplicate Sample ID		Single Filter Turbidity	5
Dup Sample Time		Without Filter Turbidity	21
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

MW-87-109



MW-87-139

MW-87-139 - 01/27/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	95.83
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	139.41
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	43.58
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	7.11
Sampling Type	Low Flow – QED Bladder Pump	Pump Intake Depth (ft bmp)	134	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
15:39	200	800	22.4	7.36	6961	171	6.09	21	95.85	4.51	3.82
15:44	200	1600	22.6	7.34	6968	171	7.19	22	95.85	4.54	3.83
15:48	200	2400	22.8	7.34	7009	171	2.90	7	95.85	4.56	3.86
15:52	200	3200	23.4	7.35	7105	168	2.61	7	95.85	4.61	3.90
15:56	200	4000	23.5	7.36	7112	167	2.51	7	95.85	4.62	3.91

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/27/2020	Sample?	
Sample Time	15:57	Post Sampling Turbidity	
Sample ID	MW-87-139-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	2
Dup Sample Time		Without Filter Turbidity	7
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	16:00
		EB Sample ID	Eb-777-q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-87-139



MW-87-192

MW-87-192 - 01/27/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	92.82
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	193.15
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	100.33
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	16.36
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	183	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
15:30	500	2000	29.4	7.38	9503	76.4	1.53	18	92.90		
15:34	500	4000	29.7	7.36	9427	78.9	1.24	14	92.90		
15:38	500	6000	29.7	7.34	9376	81.2	1.16	10	92.90	6.09	5.21
15:42	500	8000	29.7	7.33	9289	84.3	1.10	10	92.90		
15:46	500	10000	29.9	7.31	9266	87.8	1.07	10	92.90	6.02	5.14

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	01/27/2020	Post Sampling Turbidity	
Sample Time	15:47	Double Filter Turbidity	
Sample ID	MW-87-192-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	10
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	16:00
		EB Sample ID	EB-776-Q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-87-192



MW-87-275

MW-87-275 - 01/27/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	92.56
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	276.20
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	183.64
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	29.95
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	265	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:48	500	2000	29.1	7.24	11219	121.8	0.61	14	92.67		
14:52	500	4000	29.3	7.26	11297	117.3	0.42	10	92.67		
14:56	500	6000	29.3	7.28	11328	115.6	0.34	4	92.67	7.34	6.40
15:00	500	8000	29.3	7.30	11345	114.2	0.42	4	92.67	7.34	6.40
15:04	500	10000	29.3	7.32	11383	113.5	0.45	3	92.67	7.41	6.44

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	01/27/2020	Post Sampling Turbidity	
Sample Time	15:05	Double Filter Turbidity	
Sample ID	MW-87-275-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	4
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-87-275



MW-88-109

MW-88-109 - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	91.66
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	108.58
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	16.92
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	2.76
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	100	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:20	500	2000	29.5	7.33	1840	53.6	4.49	28	91.80	1.20	0.94
14:24	500	4000	29.5	7.31	1861	57.0	4.13	16	91.80	1.20	0.93
14:28	500	6000	30.0	7.29	1840	58.9	4.38	12	91.80	1.19	0.92
14:32	500	8000	30.0	7.28	1846	60.7	4.33	9	91.80	1.18	0.92
14:36	500	10000	30.0	7.27	1853	60.9	4.37	9	91.80	1.19	0.93

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	01/29/2020	Post Sampling Turbidity	
Sample Time	14:37	Double Filter Turbidity	
Sample ID	MW-88-109-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	9
Dup Sample Time	16:07	MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

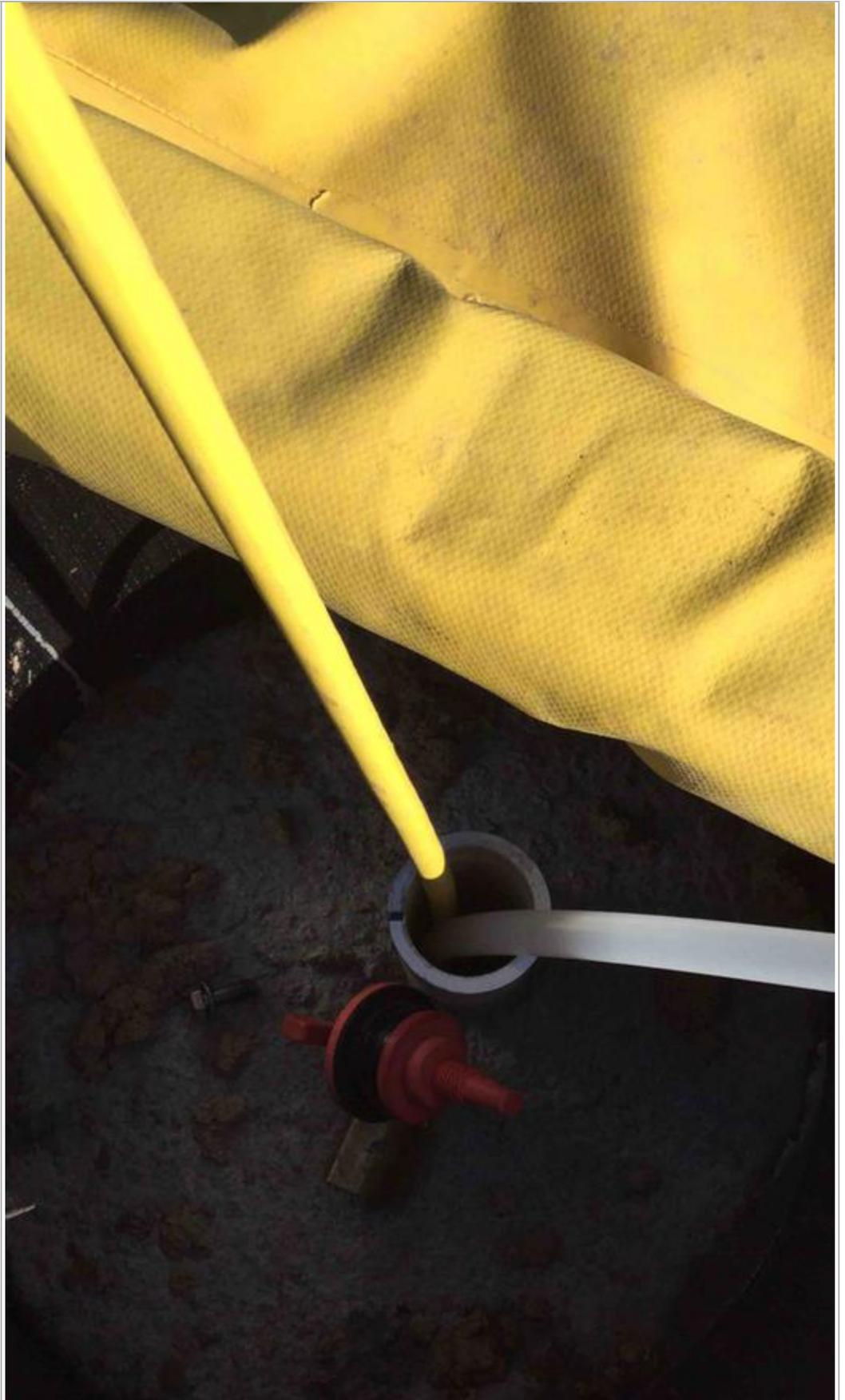
Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-88-109



MW-91-045

MW-91-045 - 01/28/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	12.12
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	46.86
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	34.74
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	5.67
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	35	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:49	500	2000	25.3	7.58	3002	77.4	0.73	20	12.28	1.96	1.57
09:53	500	4000	25.5	7.56	3030	65.4	0.54	15	12.28	1.96	1.57
09:57	500	6000	25.5	7.48	3056	53.4	0.46	8	12.28	1.96	1.57
10:01	500	8000	25.5	7.46	3099	48.4	0.40	8	12.28	1.96	1.57
10:05	500	10000	25.7	7.44	3112	44.6	0.36	8	12.28	1.96	1.57

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	01/28/2020	Post Sampling Turbidity	
Sample Time	10:06	Double Filter Turbidity	
Sample ID	MW-91-045-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	8
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-91-045



MW-91-120

MW-91-120 - 01/28/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	12.02
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	121.78
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	109.76
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	17.90
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	110	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:48	500	2000	24.7	7.26	10172	105.3	0.40	10	12.20	6.72	5.83
10:52	500	4000	24.7	7.24	10265	101.9	0.26	8	12.20	6.72	5.83
10:56	500	6000	24.7	7.22	10395	97.1	0.21	6	12.20	6.77	5.86
11:00	500	8000	24.7	7.20	10476	93.4	0.18	6	12.20	6.84	5.94
11:04	500	10000	24.9	7.17	10593	89.3	0.15	6	12.20	6.90	6.00

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	_____
Sample Date	01/28/2020	Post Sampling Turbidity	_____
Sample Time	11:05	Double Filter Turbidity	_____
Sample ID	MW-91-120-Q120	Single Filter Turbidity	1 _____
Duplicate Sample ID	_____	Without Filter Turbidity	6 _____
Dup Sample Time	_____	MS/MSD Sample Time	_____
Color	Clear	MS/MSD Sample ID	_____
Odor	none	EB Time	_____
		EB Sample ID	_____
		Remarks	_____

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-91-120



MW-91-170

MW-91-170 - 01/28/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	11.39
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	170.12
Purge Method	Low Flow	Casing Material		Water Column in Well	158.73
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	25.89
Sampling Type	Grab Sample	Pump Intake Depth (ft bmp)	160	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:50	500	2000	24.5	7.94	12496	-157.7	0.17	3	11.42	8.11	7.18
09:54	500	4000	24.4	7.96	12624	-157.7	0.18	2	11.42	8.28	7.25
09:58	500	6000	24.5	7.97	12649	-156.7	0.18	2	11.42	8.20	7.25
10:02	500	8000	24.5	7.97	12681	-155.0	0.17	2	11.42	8.20	7.26
10:06	500	10000	24.6	7.97	12644	-153.3	0.16	2	11.42	8.24	7.28

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/28/2020	Sample?	
Sample Time	10:07	Post Sampling Turbidity	
Sample ID	MW-91-170-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?			X	

MW-91-170



MW-91-320

MW-91-320 - 01/28/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	13.41
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	321.59
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	308.18
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	50.27
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	310	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:34	500	2000	24.2	7.38	30145	-138.9	0.24	2	13.48	19.62	18.71
10:38	500	4000	24.1	7.42	30239	-161	0.19	2	13.48	19.65	18.69
10:42	500	6000	24.4	7.43	30224	-174	0.16	1	13.48	19.62	18.72
10:46	500	8000	24.5	7.44	30191	-183.4	0.14	1	13.48	19.64	18.75
10:50	500	10000	24.5	7.44	30252	-187.1	0.13	1	13.48	19.65	18.77

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/28/2020	Sample?	
Sample Time	10:51	Post Sampling Turbidity	
Sample ID	MW-91-320-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	1
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	15:45
		EB Sample ID	Eb-779-q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-91-320



Jan 28, 2020 10:33:18 AM
Location: MW-91-320 Latitude: 34.722722, Longitude: -114.488013

MW-92-037

MW-92-037 - 01/28/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	8.21
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	37
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	28.79
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	4.70
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	27	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
07:27	500	2000	25.4	7.70	1660	88.5	0.62	28	8.33	1.08	0.83
07:31	500	4000	25.7	7.74	1657	70.8	0.38	18	8.33	1.07	0.84
07:35	500	6000	25.7	7.78	1661	65.8	0.29	10	8.33	1.08	0.84
07:39	500	8000	25.7	7.81	1652	61.4	0.24	10	8.33	1.08	0.83
07:43	500	10000	25.9	7.83	1657	58.3	0.19	10	8.33	1.08	0.83

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	01/28/2020	Post Sampling Turbidity	
Sample Time	07:44	Double Filter Turbidity	
Sample ID	MW-92-037-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	10
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-92-072

MW-92-072 - 01/28/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	8.04
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	72
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	63.96
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	10.43
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	62	Total Volume to Remove	
Sampler	Matt Trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:08	500	2000	26.4	7.80	2332	92.9	0.36	15	8.21	1.51	1.18
08:12	500	4000	26.4	7.80	2321	83.6	0.23	11	8.21	1.51	1.18
08:16	500	6000	26.4	7.80	2309	86.7	0.18	5	8.21	1.51	1.18
08:20	500	8000	26.6	7.80	2303	81.4	0.16	5	8.21	1.50	1.17
08:24	500	10000	26.8	7.80	2296	77.3	0.14	5	8.21	1.49	1.17

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	01/28/2020	Post Sampling Turbidity	
Sample Time	08:25	Double Filter Turbidity	
Sample ID	MW-92-072-Q120	Single Filter Turbidity	1
Duplicate Sample ID	MW-912-0120	Without Filter Turbidity	5
Dup Sample Time	08:35	MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-92-102

MW-92-102 - 01/28/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	8.54
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	102.11
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	93.57
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	15.26
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	92	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:21	500	2000	25.2	7.85	3643	47	0.63	3	8.59	2.36	1.91
08:25	500	4000	24.8	7.82	3656	32	0.54	2	8.59	2.37	1.92
08:29	500	6000	24.9	7.80	3664	26	0.53	2	8.59	2.37	1.93
08:33	500	8000	25.1	7.80	3672	22	0.49	2	8.59	2.38	1.93
08:37	500	10000	26.0	7.80	3689	14	0.34	2	8.59	2.38	1.93

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/28/2020	Sample?	
Sample Time	08:38	Post Sampling Turbidity	
Sample ID	MW-92-102-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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



MW-92-122

MW-92-122 - 01/28/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	8.93
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	122.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	113.07
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	18.44
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	117	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
07:37	500	2000	26.4	7.78	14676	-78	0.24	9	8.98	9.54	8.51
07:41	500	4000	26.4	7.80	14703	-88	0.21	6	8.98	8.56	8.54
07:45	500	6000	25.6	7.80	14765	-86	0.21	3	8.98	9.62	8.58
07:47	500	8000	26.1	7.81	14787	-93	0.20	3	8.98	9.61	8.57
07:51	500	10000	26.1	7.81	1488	-103	0.19	3	8.98	9.61	8.57

Sampling Summary

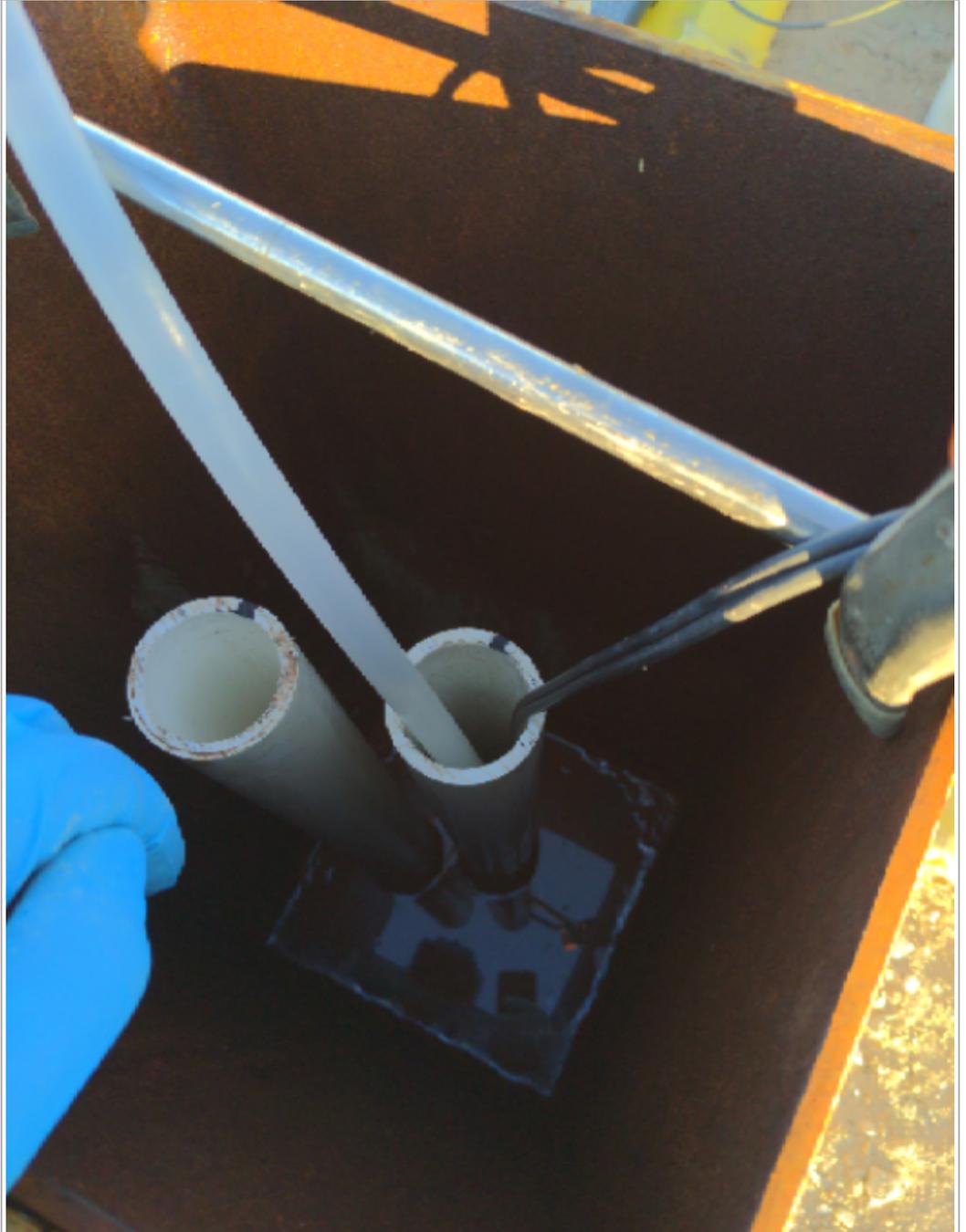
Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/28/2020	Sample?	
Sample Time	07:52	Post Sampling Turbidity	
Sample ID	MW-92-122-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-92-122



Jan 28, 2020 07:36:28 AM
Location: MW-92-122 Latitude: 34.720343, Longitude: -114.487076

R-19

R-19 - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	3
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	2		
Sampler	Riggie	Casing Volume to Remove			
Comments	2103323.31' N, 7616190.41' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:11	500	500	11.7	8.00	923	170	8.44	3		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/30/2020	Sample?	
Sample Time	09:11	Post Sampling Turbidity	
Sample ID	R-19-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

R-28

R-28 - 01/29/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Measured Well Depth (ft bmp)	<u>1</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Water Column in Well	<u> </u>
Purge Method	<u>Low Flow</u>	Casing Material	<u> </u>	Gallons in Well	<u> </u>
Purge Volume Units	<u>MI</u>	Casing Diameter (in)	<u> </u>	Total Volume to Remove	<u> </u>
Sampling Type	<u>River Sample</u>	Pump Intake Depth (ft bmp)	<u>1</u>		
Sampler	<u>Riggie</u>	Casing Volume to Remove	<u> </u>		
Comments	<u>2103084.55' N, 7616317.32' E</u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:42	500	500	12.8	8.09	958	178	8.42	1		0.63	0.48

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No	<u>0</u>
Sample Date	<u>01/29/2020</u>	Sample?	<u> </u>
Sample Time	<u>11:43</u>	Post Sampling Turbidity	<u> </u>
Sample ID	<u>R-28-Q120</u>	Double Filter Turbidity	<u> </u>
Duplicate Sample ID	<u> </u>	Single Filter Turbidity	<u>1</u>
Dup Sample Time	<u> </u>	Without Filter Turbidity	<u>1</u>
Color	<u>Clear</u>	MS/MSD Sample Time	<u> </u>
Odor	<u>None</u>	MS/MSD Sample ID	<u> </u>
		EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes

R63

R63 - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	4
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	2		
Sampler	Riggie	Casing Volume to Remove			
Comments	2100789.36' N, 7617350.75' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:48	500	500	12.2	8.08	920	166	8.88	3		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/29/2020	Sample?	
Sample Time	09:50	Post Sampling Turbidity	
Sample ID	R63-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

RMP-AB1

RMP-AB1 - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Water Column in Well	_____
Gauge or Sample	Gauge and Sample	Water Quality Meter	_____	Gallons in Well	_____
Purge Method	_____	Casing Material	_____	Total Volume to Remove	_____
Purge Volume Units	_____	Casing Diameter (in)	_____		
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	_____		
Sampler	Riggie	Casing Volume to Remove	_____		
Comments	2100866.81 ft N, 7618856.53 ft E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:02											

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No 0
Sample Date	01/29/2020	Sample?
Sample Time	08:25	Post Sampling Turbidity
Sample ID	RMP-AB1-Q120	Double Filter Turbidity
Duplicate Sample ID	_____	Single Filter Turbidity
Dup Sample Time	_____	Without Filter Turbidity
Color	_____	MS/MSD Sample Time
Odor	_____	MS/MSD Sample ID
		EB Time
		EB Sample ID
		Remarks
		Ambient blank taken @ c-taz

Well Integrity Checklist

Item	Yes	No	NA	Notes

RMP-AB2

RMP-AB2 - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Water Column in Well	_____
Gauge or Sample	_____	Water Quality Meter	_____	Gallons in Well	_____
Purge Method	_____	Casing Material	_____	Total Volume to Remove	_____
Purge Volume Units	_____	Casing Diameter (in)	_____		
Sampling Type	_____	Pump Intake Depth (ft bmp)	_____		
Sampler	Riggie	Casing Volume to Remove	_____		
Comments	2103084.55' N, 7616317.32' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:58											

Sampling Summary

Did Well Dewater?	_____	Field Parameters only- No Sample?	_____
Sample Date	01/29/2020	Post Sampling Turbidity	_____
Sample Time	11:53	Double Filter Turbidity	_____
Sample ID	RMP-AB2-Q120	Single Filter Turbidity	_____
Duplicate Sample ID	_____	Without Filter Turbidity	_____
Dup Sample Time	_____	MS/MSD Sample Time	_____
Color	_____	MS/MSD Sample ID	_____
Odor	_____	EB Time	_____
		EB Sample ID	_____
		Remarks	Ambient blank taken @ r-28

Well Integrity Checklist

Item	Yes	No	NA	Notes

RMP-AB3

RMP-AB3 - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Water Column in Well	_____
Gauge or Sample	_____	Water Quality Meter	_____	Gallons in Well	_____
Purge Method	_____	Casing Material	_____	Total Volume to Remove	_____
Purge Volume Units	_____	Casing Diameter (in)	_____		
Sampling Type	_____	Pump Intake Depth (ft bmp)	_____		
Sampler	Riggie	Casing Volume to Remove	_____		
Comments	_____				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:29											

Sampling Summary

Did Well Dewater?	NA	Field Parameters only- No	0
Sample Date	01/30/2020	Sample?	_____
Sample Time	_____	Post Sampling Turbidity	_____
Sample ID	RMP-AB3-Q120	Double Filter Turbidity	_____
Duplicate Sample ID	_____	Single Filter Turbidity	_____
Dup Sample Time	_____	Without Filter Turbidity	_____
Color	_____	MS/MSD Sample Time	_____
Odor	_____	MS/MSD Sample ID	_____
		EB Time	_____
		EB Sample ID	_____
		Remarks	Ambient blank taken @ c-nr4

Well Integrity Checklist

Item	Yes	No	NA	Notes

RRB

RRB - 01/30/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter		Water Column in Well	
Purge Method		Casing Material		Gallons in Well	
Purge Volume Units		Casing Diameter (in)		Total Volume to Remove	
Sampling Type	Surface water	Pump Intake Depth (ft bmp)	0		
Sampler	Riggie	Casing Volume to Remove			
Comments	2104540.49' N, 7615238.15' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:38			10.1	7.82	2965	189	8.09	8		1.94	1.56

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/30/2020	Sample?	
Sample Time	09:39	Post Sampling Turbidity	
Sample ID	RRB-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	2
Dup Sample Time		Without Filter Turbidity	8
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

SW1

SW1 - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	0.5
Gauge or Sample		Water Quality Meter		Water Column in Well	
Purge Method		Casing Material		Gallons in Well	
Purge Volume Units		Casing Diameter (in)		Total Volume to Remove	
Sampling Type	Surface water	Pump Intake Depth (ft bmp)			
Sampler	Riggie	Casing Volume to Remove			
Comments	2101308.37' N, 7616721.73' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:28			12.7	8.52	1113	186	8.18			0.72	0.56

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/29/2020	Sample?	
Sample Time	13:03	Post Sampling Turbidity	
Sample ID	SW1-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

SW2

SW2 - 01/29/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	0.5
Gauge or Sample		Water Quality Meter		Water Column in Well	
Purge Method		Casing Material		Gallons in Well	
Purge Volume Units		Casing Diameter (in)		Total Volume to Remove	
Sampling Type	Surface water	Pump Intake Depth (ft bmp)			
Sampler	Riggie	Casing Volume to Remove			
Comments	2101075.54' N, 7616904.00' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:52			12.8	7.36	1591	176	8.68	5		1.04	0.81

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	01/29/2020	Sample?	
Sample Time	13:53	Post Sampling Turbidity	
Sample ID	SW2-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	5
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

Gauging Data

Well	Date/Time	Depth To Water (ft)	Well Depth (ft)	Depth to LNAPL (ft)	Remarks
C-BNS	01/29/2020 10:47		14		
C-CON-D	01/30/2020 10:17		8		
C-CON-S	01/30/2020 10:27		1		
C-I-3-D	01/29/2020 09:16		11		
C-I-3-S	01/29/2020 09:29		1		
C-MAR-D	01/30/2020 08:34		3		
C-MAR-S	01/30/2020 08:48		1		
C-NR1-D	01/30/2020 10:50		5		
C-NR1-S	01/30/2020 11:01		1		
C-NR3-D	01/30/2020 11:26		5.5		
C-NR3-S	01/30/2020 11:42		1		
C-NR4-D	01/30/2020 12:04		9		
C-NR4-S	01/30/2020 12:13		1		
C-R22A-D	01/29/2020 10:09		4		
C-R22A-S	01/29/2020 10:20		1		
C-R27-D	01/29/2020 11:10		3.5		
C-R27-S	01/29/2020 11:24		1		
C-TAZ-D	01/29/2020 08:28		11		
C-TAZ-S	01/29/2020 08:46		1		
MW-11D	01/29/2020 15:06	68.19			
MW-75-033	01/30/2020 09:37	20.37	34.80		
MW-75-117	01/30/2020 10:42	20.44	118.11		
MW-75-202	01/30/2020 13:13	20.14	204.31		
MW-75-267	01/30/2020 12:00	20.33	268.58		
MW-75-337	01/30/2020 08:43	21.57	338.50		
MW-76-039	01/29/2020 11:17	28.32	38.29		
MW-76-156	01/29/2020 10:31	28.66	155.7		
MW-76-181	01/29/2020 09:43	28.87	182.71		
MW-76-218	01/29/2020 08:51	27.83	219.65		
MW-77-046	01/30/2020 14:28	26.21			
MW-81-043	01/28/2020 14:50	25.74	44.61		
MW-81-098	01/28/2020 14:01	26.11	99.41		
MW-83-180	01/29/2020 12:48	75.80	180.70		
MW-84-057	01/27/2020 13:47	46.86	57		
MW-84-095	01/27/2020 13:43	46.63	94.77		
MW-84-132	01/27/2020 12:53	47.20	132		
MW-84-193	01/27/2020 12:50	47.12	192.12		
MW-87-109	01/27/2020 14:48	92.66	109.55		
MW-87-139	01/27/2020 15:43	95.83	139.41		
MW-87-192	01/27/2020 15:34	92.82	193.15		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

Well	Date/Time	Depth To Water (ft)	Well Depth (ft)	Depth to LNAPL (ft)	Remarks
MW-87-275	01/27/2020 14:52	92.56	276.20		
MW-88-109	01/29/2020 14:20	91.66	108.58		
MW-91-045	01/28/2020 09:52	12.12	46.86		
MW-91-120	01/28/2020 10:52	12.02	121.78		
MW-91-170	01/28/2020 09:46	11.39	170.12		
MW-91-320	01/28/2020 10:30	13.41	321.59		
MW-92-037	01/28/2020 07:32	8.21	37		
MW-92-072	01/28/2020 08:14	8.04	72		
MW-92-102	01/28/2020 08:17	8.54	102.11		
MW-92-122	01/28/2020 07:33	8.93	122.00		
R-19	01/30/2020 09:10		3		
R-28	01/29/2020 11:41		1		
R63	01/29/2020 09:47		4		
RRB	01/30/2020 09:37		1		
SW1	01/29/2020 13:28		0.5		
SW2	01/29/2020 13:52		0.5		

Site: PGE Topock
Topock, CA

MW-80-057

Date	02/24/2020	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)	51.22
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	54.5
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	02/24/2020	EB Sample ID	
Sample Time	12:23	EB Time	
Sample ID	MW-80-057-Q120	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	10	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	02/24/2020

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)
12:06	500	2000	29.3	6.89	5002	28.2	4.41	90	51.42	2.65	3.24
12:10	500	4000	29.6	6.97	5040	19.7	4.13	56	51.42	2.68	3.27
12:14	500	6000	29.7	6.98	5051	16.9	4.06	10	51.42	2.75	3.35
12:18	500	8000	29.8	6.99	5102	15.5	4.00	10	51.42	2.74	3.34
12:22	500	10000	29.8	7.00	5124	15.2	3.97	10	51.42	2.77	3.36

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-80-082

Date	02/24/2020	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)	51.07
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	74.5
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	02/24/2020	EB Sample ID	
Sample Time	13:02	EB Time	
Sample ID	MW-80-082-Q120	MS/MSD Sample ID	
Duplicate Sample ID	MW-910-Q120	MS/MSD Sample Time	
Dup Sample Time	13:12	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	4	Purge Date	02/24/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:45	500	2000	29.2	6.95	8517	13.6	3.51	28	51.14	4.77	5.61
12:49	500	4000	29.3	6.88	9157	8.2	3.70	12	51.14	5.09	5.95
12:53	500	6000	29.3	6.86	9143	6.4	3.56	4	51.14	5.09	5.96
12:57	500	8000	29.3	6.85	9098	5.8	3.64	4	51.14	5.05	5.90
13:01	500	10000	29.3	6.83	9080	5.1	3.68	4	51.14	5.09	5.96

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

MW-90-031

Date	02/25/2020	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)	5.84
Water Quality Meter	YSI	Gallons in Well	4.17
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	31.41
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	26.5
Water Column in Well	25.57	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-715-Q120
Sample Date	02/25/2020	EB Time	16:00
Sample Time	15:34	MS/MSD Sample ID	
Sample ID	MW-90-031-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	02/25/2020

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)
15:17	500	2000	23.9	6.88	16561	-20.7	0.66	5	5.90	9.69	10.73
15:21	500	4000	23.8	6.86	16539	-24.5	0.45	4	5.90	9.64	10.67
15:25	500	6000	23.3	6.83	16258	-27.8	0.33	3	5.90	9.51	10.54
15:29	500	8000	23.8	6.81	16314	-29.9	0.29	3	5.90	9.58	10.62
15:33	500	10000	23.3	6.83	16312	-29.0	0.28	3	5.90	9.51	10.54

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-10D

Date	02/24/2020	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)	77.00
Water Quality Meter	YSI	Gallons in Well	8.23
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	127.45
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	115.5
Water Column in Well	50.45	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/24/2020	EB Time	
Sample Time	14:11	MS/MSD Sample ID	
Sample ID	MW-10D-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	02/24/2020

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)
13:54	500	2000	29.6	6.87	4103	-0.6	2.12	12	77.11	2.17	2.67
13:58	500	4000	29.9	6.85	4133	-3.4	1.88	4	77.11	2.17	2.67
14:02	500	6000	29.9	6.85	4116	-5.9	1.86	2	77.11	2.17	2.68
14:06	500	8000	29.9	6.84	4147	-11.5	1.80	2	77.11	2.17	2.69
14:10	500	10000	29.8	6.85	4123	-12.4	1.77	2	77.11	2.17	2.69

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-87-109

Date	02/25/2020	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)	92.51
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	101
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	02/25/2020	EB Sample ID	
Sample Time	10:46	EB Time	
Sample ID	MW-87-109-Q120	MS/MSD Sample ID	
Single Filter Turbidity	12	MS/MSD Sample Time	
Without Filter	30	Double Filter Turbidity	2
Turbidity		Post Sampling Turbidity	
		Purge Date	02/25/2020

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)
10:29	500	2000	25.3	7.02	2673	5.0	4.96	33	92.60	1.38	1.73
10:33	500	4000	25.5	7.04	2573	4.9	5.13	33	92.60	1.32	1.66
10:37	500	6000	24.5	7.07	2456	2.6	5.33	30	92.60	1.26	1.59
10:41	500	8000	24.9	7.06	2487	1.9	5.37	30	92.60	1.33	1.68
10:45	500	10000	24.7	7.06	2511	2.0	5.38	30	92.60	1.26	1.61

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-86-140

Date	02/27/2020	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)	14.22
Water Quality Meter	YSI	Gallons in Well	21.04
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	143.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	135
Water Column in Well	128.98	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/27/2020	EB Time	
Sample Time	10:55	MS/MSD Sample ID	
Sample ID	MW-86-140-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	02/27/2020

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)
10:38	500	2000	21.3	7.19	16366	0.0	0.30	5	14.30	9.62	10.64
10:42	500	4000	21.6	7.17	16704	-0.7	0.23	3	14.30	9.83	10.86
10:46	500	6000	21.7	7.16	16805	-1.4	0.18	2	14.30	9.89	10.92
10:50	500	8000	21.7	7.16	16822	-1.5	0.19	2	14.30	9.90	10.94
10:54	500	10000	21.7	7.16	16901	-2.0	0.19	2	14.30	9.92	10.96

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-86-120

Date	02/27/2020	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)	14.31
Water Quality Meter	YSI	Gallons in Well	17.77
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	123.27
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	110
Water Column in Well	108.96	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/27/2020	EB Time	
Sample Time	10:07	MS/MSD Sample ID	
Sample ID	MW-86-120-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	02/27/2020

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)
09:50	500	2000	20.5	7.17	12415	-6.7	0.42	38	14.40	7.14	9.07
09:54	500	4000	20.8	7.18	12587	-5.5	0.34	24	14.40	7.24	8.18
09:58	500	6000	20.8	7.17	12608	-5.7	0.28	10	14.40	7.27	8.20
10:02	500	8000	20.9	7.17	12641	-5.2	0.26	8	14.40	7.27	8.21
10:06	500	10000	20.9	7.17	12650	-4.9	0.24	8	14.40	7.28	8.22

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-86-066

Date	02/27/2020	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)	13.49
Water Quality Meter	YSI	Gallons in Well	9.09
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	69.25
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	56
Water Column in Well	55.76	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/27/2020	EB Time	
Sample Time	09:31	MS/MSD Sample ID	
Sample ID	MW-86-066-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	02/27/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:14	500	2000	20.4	7.23	5113	-7.6	0.33	8	13.60	2.80	3.39
09:18	500	4000	20.4	7.19	6206	-12.0	0.29	4	13.60	3.40	4.04
09:22	500	6000	20.4	7.16	6479	-12.7	0.27	2	13.60	3.56	4.21
09:26	500	8000	20.4	7.14	6583	-11.8	0.23	2	13.60	3.61	4.28
09:30	500	10000	20.4	7.13	6690	-10.8	0.20	2	13.60	3.72	4.33

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-86-030

Date	02/27/2020	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)	14.08
Water Quality Meter	YSI	Gallons in Well	3.05
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	32.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	22.5
Water Column in Well	18.72	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/27/2020	EB Time	
Sample Time	08:35	MS/MSD Sample ID	
Sample ID	MW-86-030-Q120	MS/MSD Sample Time	
Single Filter Turbidity	4	Double Filter Turbidity	1
Without Filter Turbidity	20	Post Sampling Turbidity	
		Purge Date	02/27/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:18	500	2000	20.4	7.31	1413	-28.3	0.59	67	14.12	0.71	0.91
08:22	500	4000	20.4	7.27	1408	-36.0	0.42	38	14.12	0.71	0.92
08:26	500	6000	20.9	7.25	1389	-38.5	0.33	22	14.12	0.69	0.89
08:30	500	8000	20.6	7.20	1391	-37.9	0.29	20	14.12	0.70	0.90
08:34	500	10000	20.9	7.18	1391	-37.7	0.30	20	14.12	0.70	0.90

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?		X		

Site: PGE Topock
Topock, CA

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-82-112

Date	02/27/2020	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)	30.62
Water Quality Meter	YSI	Gallons in Well	13.63
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	114.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	107
Water Column in Well	83.58	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/27/2020	EB Time	
Sample Time	12:39	MS/MSD Sample ID	
Sample ID	MW-82-112-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	02/27/2020

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)
12:22	500	2000	25.0	7.01	8756	-2.0	0.53	6	30.74	4.88	5.69
12:26	500	4000	24.9	7.01	8733	-0.4	0.43	4	30.74	4.86	5.66
12:30	500	6000	25.0	7.01	8711	0.9	0.35	3	30.74	4.85	5.66
12:34	500	8000	25.1	7.01	8710	2.1	0.25	3	30.74	4.85	5.66
12:38	500	10000	25.1	7.01	8710	2.7	0.25	3	30.74	4.84	5.65

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

MW-82-168

Date	02/27/2020	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)	30.82
Water Quality Meter	YSI	Gallons in Well	22.67
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	169.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	163
Water Column in Well	138.98	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/27/2020	EB Time	
Sample Time	13:24	MS/MSD Sample ID	
Sample ID	MW-82-168-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	02/27/2020

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)
13:07	500	2000	25.1	6.98	19239	-3.8	0.38	5	30.96	11.43	12.51
13:11	500	4000	25.2	6.97	19345	-1.9	0.30	3	30.96	11.49	12.57
13:15	500	6000	25.6	6.97	19358	-1.1	0.22	3	30.96	11.49	12.58
13:19	500	8000	25.6	6.97	19367	-1.0	0.19	3	30.96	11.50	12.59
13:23	500	10000	25.6	6.97	19384	-0.8	0.17	3	30.96	11.50	12.59

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

MW-82-198

Date	02/27/2020	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)	30.26
Water Quality Meter	YSI	Gallons in Well	27.60
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	199.45
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	193
Water Column in Well	169.19	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/27/2020	EB Time	
Sample Time	14:18	MS/MSD Sample ID	
Sample ID	MW-82-198-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	02/27/2020

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)
14:01	500	2000	25.1	7.06	20553	-36.3	0.40	5	30.33	12.39	13.48
14:05	500	4000	25.3	7.39	21341	-28.0	0.38	2	30.33	12.78	13.87
14:09	500	6000	25.3	7.46	21314	-19.4	0.32	2	30.33	12.77	13.85
14:13	500	8000	25.3	7.47	21296	-16.4	0.28	2	30.33	12.75	13.83
14:17	500	10000	25.4	7.48	21309	-14.1	0.28	2	30.33	12.76	13.86

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-82-046

Date	02/27/2020	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)	31.43
Water Quality Meter	YSI	Gallons in Well	2.66
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	47.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	41
Water Column in Well	16.28	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-717-Q120
Sample Date	02/27/2020	EB Time	15:30
Sample Time	15:13	MS/MSD Sample ID	
Sample ID	MW-82-046-Q120	MS/MSD Sample Time	
Single Filter Turbidity	4	Double Filter Turbidity	1
Without Filter Turbidity	20	Post Sampling Turbidity	
		Purge Date	02/27/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:56	500	2000	25.7	6.98	14478	-6.0	0.29	44	31.63	8.38	9.41
15:00	500	4000	25.8	6.92	14470	-9.2	0.29	30	31.63	8.38	9.40
15:04	500	6000	25.8	6.90	14489	-11.0	0.33	24	31.63	8.39	9.41
15:08	500	8000	25.9	6.88	14515	-12.7	0.33	22	31.63	8.41	9.43
15:12	500	10000	25.9	6.88	14529	-13.1	0.34	20	31.63	8.41	9.44

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-92-102

Date	02/26/2020	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)	7.48
Water Quality Meter	YSI	Gallons in Well	16.05
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	105.91
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	92
Water Column in Well	98.43	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/26/2020	EB Time	
Sample Time	09:33	MS/MSD Sample ID	
Sample ID	MW-92-102-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	02/26/2020

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)
09:16	500	2000	26.1	7.48	3815	-21.2	0.74	10	7.60	2.01	2.47
09:20	500	4000	26.0	7.50	3838	-17.8	0.62	6	7.60	2.02	2.49
09:24	500	6000	25.9	7.52	3863	-14.1	0.54	4	7.60	2.03	2.51
09:28	500	8000	25.9	7.54	3871	-13.0	0.50	4	7.60	2.04	2.52
09:32	500	10000	25.9	7.55	3891	-12.5	0.47	4	7.60	2.05	2.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-92-122

Date	02/26/2020	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)	7.80
Water Quality Meter	YSI	Gallons in Well	19.26
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	125.90
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	117
Water Column in Well	118.10	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/26/2020	EB Time	
Sample Time	08:25	MS/MSD Sample ID	
Sample ID	MW-92-122-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	02/26/2020

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)
08:08	500	2000	22.4	7.57	14417	-35.6	1.57	10	8.00	8.76	9.39
08:12	500	4000	23.0	7.56	14599	-29.9	0.76	5	8.00	8.61	9.49
08:16	500	6000	23.3	7.55	14754	-26.4	0.60	3	8.00	8.58	9.59
08:20	500	8000	23.3	7.53	14843	-20.2	0.62	3	8.00	8.57	9.64
08:24	500	10000	23.3	7.51	14906	-18.6	0.64	3	8.00	8.51	9.69

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

MW-92-072

Date	02/26/2020	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)	7.09
Water Quality Meter	YSI	Gallons in Well	11.11
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	75.22
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	64
Water Column in Well	68.13	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/26/2020	EB Time	
Sample Time	09:47	MS/MSD Sample ID	
Sample ID	MW-92-072-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	02/26/2020

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)
09:30	500	2000	25.7	7.61	2248	-19.8	0.61	10	7.21	1.15	1.47
09:34	500	4000	26.3	7.58	2270	-15.9	0.55	6	7.21	1.16	1.47
09:38	500	6000	26.5	7.55	2284	-14.3	0.52	4	7.21	1.17	1.48
09:42	500	8000	26.3	7.55	2260	-12.9	0.44	4	7.21	1.17	1.48
09:46	500	10000	26.3	7.55	2238	-12.0	0.42	4	7.21	1.14	1.45

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-92-037

Date	02/26/2020	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)	7.11
Water Quality Meter	YSI	Gallons in Well	5.45
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	40.50
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	32
Water Column in Well	33.39	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/26/2020	EB Time	
Sample Time	08:38	MS/MSD Sample ID	
Sample ID	MW-92-037-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	02/26/2020

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)
08:21	500	2000	24.7	7.67	1995	-48.9	0.82	18	7.30	1.01	1.29
08:25	500	4000	24.6	7.67	1806	-33.5	0.66	12	7.30	0.94	1.15
08:29	500	6000	24.5	7.67	1639	-28.4	0.56	4	7.30	0.83	1.06
08:33	500	8000	24.6	7.68	1629	-28.5	0.60	4	7.30	0.83	1.06
08:37	500	10000	24.6	7.68	1618	-26.5	0.50	4	7.30	0.82	1.06

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-91-045

Date	02/26/2020	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)	10.72
Water Quality Meter	YSI	Gallons in Well	5.85
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	46.57
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	35
Water Column in Well	35.85	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/26/2020	EB Time	
Sample Time	11:55	MS/MSD Sample ID	
Sample ID	MW-91-045-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	02/26/2020

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)
11:38	500	2000	26.1	7.07	2904	1.2	0.52	12	10.86	1.50	1.88
11:42	500	4000	26.3	7.09	2834	0.7	0.58	10	10.86	1.46	1.83
11:46	500	6000	26.5	7.11	2744	0.3	0.66	8	10.84	1.41	1.78
11:50	500	8000	26.5	7.11	2609	-1.4	0.63	8	10.84	1.36	1.70
11:54	500	10000	26.5	7.10	2552	-2.2	0.60	8	10.86	1.31	1.65

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-91-120

Date	02/26/2020	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)	10.74
Water Quality Meter	YSI	Gallons in Well	18.18
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	122.21
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	110
Water Column in Well	111.47	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/26/2020	EB Time	
Sample Time	12:47	MS/MSD Sample ID	
Sample ID	MW-91-120-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	02/26/2020

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)
12:30	500	2000	26.2	6.79	10596	4.1	0.67	10	10.88	5.96	6.98
12:34	500	4000	26.4	6.79	10604	3.3	0.60	6	10.88	5.98	6.92
12:38	500	6000	26.6	6.79	10633	2.2	0.53	4	10.88	6.00	6.90
12:42	500	8000	26.6	6.81	10630	1.4	0.50	4	10.88	5.99	6.90
12:46	500	10000	27.0	6.83	10627	1.6	0.49	4	10.88	5.99	6.90

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-91-170

Date	02/26/2020	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)	10.44
Water Quality Meter	YSI	Gallons in Well	26.47
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	172.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	160
Water Column in Well	162.27	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/26/2020	EB Time	
Sample Time	11:41	MS/MSD Sample ID	
Sample ID	MW-91-170-Q120	MS/MSD Sample Time	
Duplicate Sample ID	MW-912-Q120	Double Filter Turbidity	1
Dup Sample Time	11:51	Post Sampling Turbidity	
Single Filter Turbidity	6	Purge Date	02/26/2020
Without Filter Turbidity	22		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:24	500	2000	26.3	7.11	11567	-15.7	0.92	30	10.54	6.84	7.86
11:28	500	4000	26.5	7.13	12098	-10.5	0.73	26	10.54	6.90	7.95
11:32	500	6000	26.7	7.16	12351	-8.4	0.65	22	10.54	7.05	8.02
11:36	500	8000	26.7	7.17	12354	-7.4	0.63	22	10.54	7.05	8.02
11:40	500	10000	26.7	7.19	12353	-6.7	0.60	22	10.54	7.06	8.02

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-91-320

Date	02/26/2020	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)	12.54
Water Quality Meter	YSI	Gallons in Well	50.41
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	321.59
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	310
Water Column in Well	309.05	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-716-Q120
Sample Date	02/26/2020	EB Time	15:00
Sample Time	13:36	MS/MSD Sample ID	
Sample ID	MW-91-320-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	1	Post Sampling Turbidity	
Turbidity		Purge Date	02/26/2020

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)
13:19	500	2000	24.8	6.91	28754	-37.2	0.19	3	12.80	17.72	18.68
13:23	500	4000	24.9	6.93	29440	-40.5	0.15	2	12.80	18.22	19.16
13:27	500	6000	24.9	6.93	30584	-46.3	0.12	1	12.80	18.99	19.89
13:31	500	8000	24.9	6.96	30707	-42.8	0.13	1	12.80	19.06	19.97
13:35	500	10000	24.9	6.93	30812	-48.4	0.13	1	12.80	19.10	19.99

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**

MW-88-109

Date	02/25/2020	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)	91.99
Water Quality Meter	YSI	Gallons in Well	2.76
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	108.91
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	100
Water Column in Well	16.92	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/25/2020	EB Time	
Sample Time	08:49	MS/MSD Sample ID	
Sample ID	MW-88-109-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	02/25/2020

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)
08:32	500	2000	27.4	6.95	2144	-0.8	3.49	50	92.04	1.04	1.33
08:36	500	4000	27.5	7.04	2008	-6.8	3.47	32	92.04	1.00	1.29
08:40	500	6000	27.5	7.08	1992	-13.1	3.40	10	92.04	0.96	1.23
08:44	500	8000	27.5	7.09	1908	-15.2	3.36	6	92.04	0.97	1.26
08:48	500	10000	27.5	7.11	1878	-17.8	3.33	6	92.04	0.94	1.20

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

MW-11D

Date	02/24/2020	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)	68.21
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	121
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	02/24/2020	EB Sample ID	EB-714-Q120
Sample Time	14:53	EB Time	15:00
Sample ID	MW-11D-Q120	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	2	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	02/24/2020

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)
14:36	500	2000	30.2	6.82	5865	-10.4	1.58	10	68.34	3.16	3.82
14:40	500	4000	30.3	6.82	5861	-13.2	2.75	4	68.34	3.16	3.81
14:44	500	6000	30.3	6.82	5732	-17.0	3.15	2	68.34	3.08	3.73
14:48	500	8000	30.3	6.83	5690	-18.1	3.22	2	68.34	3.06	3.70
14:52	500	10000	30.3	6.82	5644	-19.0	3.30	2	68.34	3.08	3.69

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-38S

Date	02/25/2020	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)	72.31
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	02/25/2020	EB Sample ID	
Sample Time	09:45	EB Time	
Sample ID	MW-38S-Q120	MS/MSD Sample ID	
Duplicate Sample ID	MW-901-Q120	MS/MSD Sample Time	
Dup Sample Time	09:55	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	3	Purge Date	02/25/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:29	500	2000	30.0	7.15	1762	1.3	0.88	10	72.44	0.83	1.08
09:33	500	4000	30.3	7.16	1736	0.3	0.66	5	72.44	0.81	1.05
09:37	500	6000	29.9	7.16	1708	-2.7	0.50	4	72.44	0.82	1.06
09:40	500	8000	29.9	7.16	1714	-3.6	0.51	4	72.44	0.81	1.04
09:44	500	10000	29.9	7.16	1722	-4.0	0.51	4	72.44	0.82	1.04

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-69-195

Date	02/25/2020	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)	176.21
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	186
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	02/25/2020	EB Sample ID	
Sample Time	12:36	EB Time	
Sample ID	MW-69-195-Q120	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	7	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	02/25/2020

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)
12:19	500	2000	25.9	7.18	2678	0.8	4.73	19	176.30	1.38	1.74
12:23	500	4000	26.6	7.13	2703	-3.3	4.66	12	176.30	1.39	1.76
12:27	500	6000	27.0	7.07	2686	-4.6	4.56	7	176.30	1.38	1.74
12:31	500	8000	27.0	7.05	2728	-5.2	4.53	7	176.30	1.39	1.76
12:35	500	10000	27.0	7.05	2697	-5.6	4.50	7	176.30	1.38	1.75

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			
Action Completed?		X		

Site: PGE Topock
Topock, CA

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-60BR-245-3V

Date	02/20/2020	Sampler	Matt trainotti
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	gal	Depth to Water (ft bmp)	99.91
Water Quality Meter	YSI	Gallons in Well	147.91
Sampling Type	Volume Purge – Grundfos RF2	Measured Well Depth (ft bmp)	245.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	230
Water Column in Well	145.09	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/20/2020	EB Time	
Sample Time	16:00	MS/MSD Sample ID	
Sample ID	MW-60BR-245-3V-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	02/20/2020

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)
13:50	2.5	80	26.5	7.31	17456	5.9	0.90	3	120.22	10.39	11.44
14:23	2.5	160	27.0	7.33	17609	3.8	0.79	2	144.6	10.42	11.46
14:55	2.5	240	27.1	7.35	17598	3.0	0.68	3	176.9	10.38	11.48
15:27	2.5	320	27.1	7.36	17776	-2.4	0.62	2	200.78	10.49	11.55
15:59	2.5	400	27.1	7.36	17859	-8.8	0.55	2	236.7	10.52	11.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-60BR-245-LF_D

Date	02/21/2020	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)	100.90
Water Quality Meter	YSI	Gallons in Well	146.90
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	245.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	238.0
Water Column in Well	144.10	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/21/2020	EB Time	
Sample Time	09:09	MS/MSD Sample ID	
Sample ID	MW-60BR-245-LF_D-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	02/21/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:52	500	2000	27.1	7.23	17893	9.7	0.39	2	101.10	10.54	11.63
08:56	500	4000	27.2	7.23	17838	10.7	0.35	2	101.10	10.56	11.67
09:00	500	6000	27.5	7.23	17909	10.8	0.27	2	101.10	10.54	11.65
09:04	500	8000	27.2	7.23	17883	10.8	0.26	2	101.10	10.54	11.65
09:08	500	10000	27.2	7.23	17909	11.1	0.25	2	101.10	10.54	11.65

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

MW-60BR-245-LF_S

Date	02/21/2020	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)	100.71
Water Quality Meter	YSI	Gallons in Well	147.09
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	245.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	175
Water Column in Well	144.29	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/21/2020	EB Time	
Sample Time	08:23	MS/MSD Sample ID	
Sample ID	MW-60BR-245-LF_S-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	02/21/2020

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)
08:06	500	2000	25.8	7.33	17857	-8.0	0.56	2	100.90	10.52	11.60
08:10	500	4000	25.5	7.34	17887	-11.4	0.42	2	100.90	10.53	11.62
08:14	500	6000	25.6	7.34	17908	-10.8	0.40	2	100.90	10.55	11.62
08:18	500	8000	25.6	7.34	17934	-7.7	0.37	2	100.90	10.55	11.62
08:22	500	10000	25.6	7.34	18034	-7.0	0.35	2	100.90	10.54	11.66

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-78-142

Date	02/19/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	48.95
Water Quality Meter	YSI	Gallons in Well	15.34
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	143
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	132
Water Column in Well	94.05	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/19/2020	EB Time	
Sample Time	09:18	MS/MSD Sample ID	
Sample ID	MW-78-142-Q120	MS/MSD Sample Time	
Single Filter Turbidity	4	Double Filter Turbidity	1
Without Filter Turbidity	28	Post Sampling Turbidity	
		Purge Date	02/19/2020

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	28.1	7.31	14015	36.7	1.35	88	49.11	8.06	9.10
08:58	500	4000	28.4	7.20	14413	34.9	1.29	36	49.14	8.33	9.30
09:02	500	6000	28.6	7.14	14422	31.4	1.21	29	49.14	8.33	9.30
09:06	500	8000	28.9	7.14	14431	30.8	1.17	28	49.14	8.33	9.30
09:10	500	10000	28.9	7.14	14436	30.4	1.15	28	49.14	8.33	9.30
09:14	500	12000	28.9	7.14	14439	29.6	1.14	28	49.14	8.33	9.30

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-78-072

Date	02/19/2020	Sampler	Kt
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	48.75
Water Quality Meter	YSI	Gallons in Well	3.79
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	72
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	60
Water Column in Well	23.25	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/19/2020	EB Time	
Sample Time	08:35	MS/MSD Sample ID	
Sample ID	MW-78-072-Q120	MS/MSD Sample Time	
Single Filter Turbidity	6	Double Filter Turbidity	1
Without Filter Turbidity	45	Post Sampling Turbidity	
		Purge Date	02/19/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:11	500	2000	26.9	7.07	2540	50.2	5.39	132	48.82	1.31	1.65
08:15	500	4000	27.3	7.10	2551	50.1	5.22	72	48.85	1.31	1.65
08:19	500	6000	27.7	7.11	2552	49.6	5.18	57	48.85	1.31	1.65
08:23	500	8000	28.2	7.12	2552	48.5	5.15	46	48.85	1.31	1.65
08:27	500	10000	28.3	7.12	2556	47.9	5.15	45	48.85	1.31	1.65
08:31	500	12000	28.4	7.12	2556	47.6	5.12	45	48.85	1.31	1.65

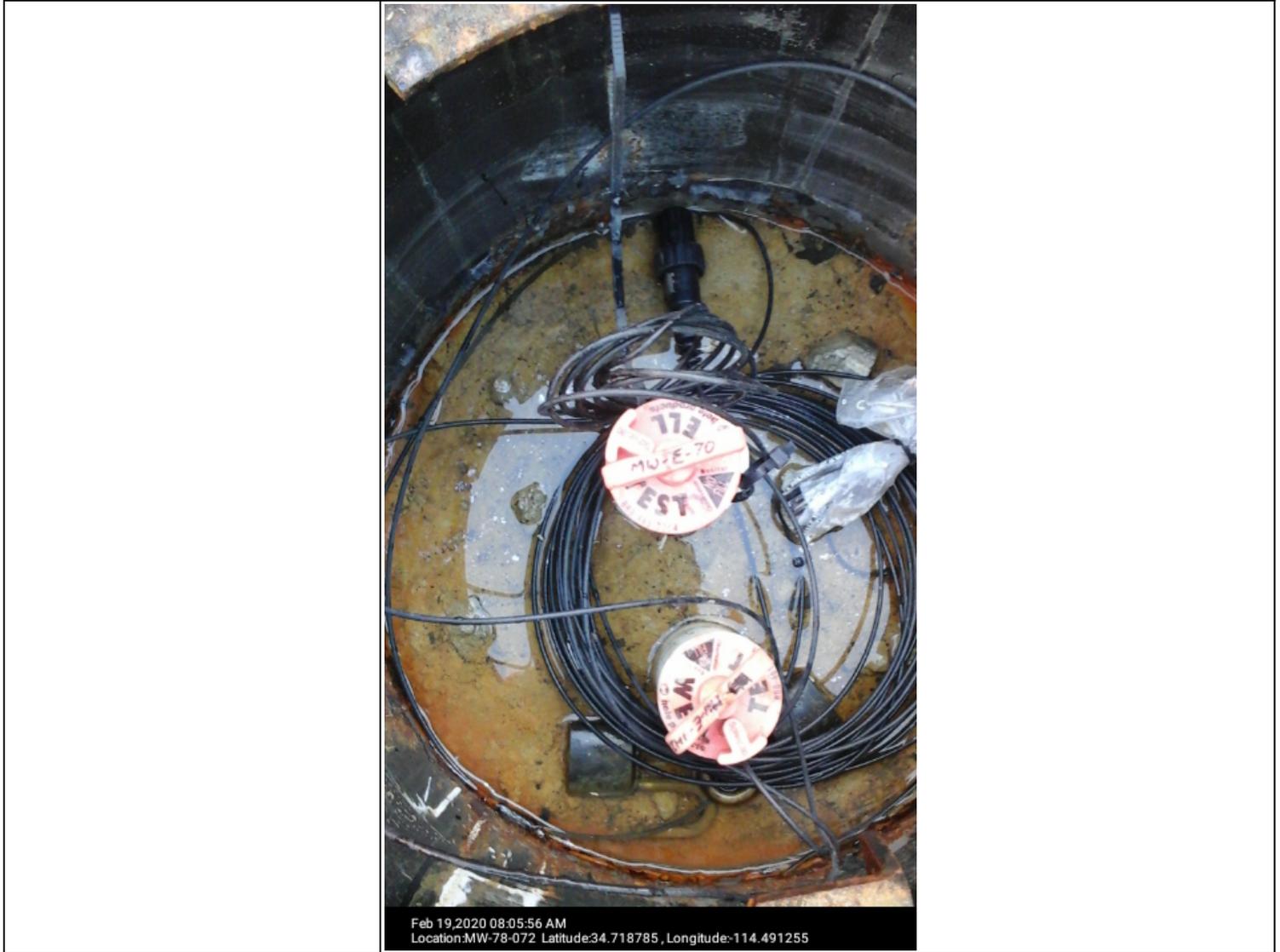
Well Integrity Checklist

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			
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

MW-79-104

Date	02/21/2020	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)	48.20
Water Quality Meter	YSI	Gallons in Well	9.10
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	104.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	90
Water Column in Well	55.80	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-712-Q120
Sample Date	02/21/2020	EB Time	10:30
Sample Time	11:19	MS/MSD Sample ID	
Sample ID	MW-79-104-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	02/21/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:02	500	2000	28.3	7.06	8614	-8.0	1.57	18	48.33	4.77	5.60
11:06	500	4000	28.6	7.05	8653	-8.4	1.36	14	48.33	4.79	5.63
11:10	500	6000	29.3	7.05	8711	-7.6	1.18	8	48.33	4.83	5.66
11:14	500	8000	29.3	7.07	8687	-8.0	1.12	8	48.33	4.79	5.64
11:18	500	10000	29.3	7.05	8723	-8.2	1.10	8	48.33	4.83	5.67

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-79-060

Date	02/21/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Grey
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	MI	Depth to Water (ft bmp)	48.52
Water Quality Meter	YSI	Gallons in Well	1.89
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	60.11
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	55
Water Column in Well	11.59	Total Volume to Remove	0.0
Did Well Dewater?	No	EB Sample ID	Eb-711-q120
Sample Date	02/21/2020	EB Time	11:30
Sample Time	11:07	MS/MSD Sample ID	
Sample ID	MW-79-060-Q120	MS/MSD Sample Time	
Duplicate Sample ID	Mw-914-q120	Double Filter Turbidity	3
Dup Sample Time	11:17	Post Sampling Turbidity	
Single Filter Turbidity	5	Purge Date	02/21/2020
Without Filter Turbidity	35		

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)
10:49	500	2000	29.2	7.20	2428	52	3.76	121	48.69	1.24	1.57
10:53	500	4000	29.3	7.17	2445	84	4.57	33	48.69	1.25	1.59
10:57	500	6000	29.3	7.19	2449	88	4.82	35	48.69	1.25	1.59
11:01	500	8000	29.3	7.16	2451	89	4.96	35	48.69	1.25	1.59
11:06	500	10000	29.2	7.16	2453	91	5.03	35	48.69	1.25	1.59

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		

**Site: PGE Topock
Topock, CA**

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

Photos and Drawings



Feb 21, 2020 10:47:37 AM
Location: MW-79-060 Latitude: 34.71779, Longitude: -114.491423

Site: PGE Topock
Topock, CA

MW-83-245

Date	02/19/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	76.16
Water Quality Meter	YSI	Gallons in Well	27.54
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	245
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	240
Water Column in Well	168.84	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/19/2020	EB Time	
Sample Time	12:20	MS/MSD Sample ID	
Sample ID	MW-83-245-Q120	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	02/19/2020

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)
11:59	500	2000	27.7	7.29	22077	25.9	1.13	10	76.22	13.5	14.7
12:03	500	4000	28.2	7.22	22733	26.3	1.02	7	76.25	13.6	14.7
12:07	500	6000	28.2	7.21	22780	25.1	0.89	5	76.25	13.6	14.7
12:11	500	8000	28.2	7.20	22787	24.1	0.76	5	76.25	13.6	14.7
12:15	500	10000	28.3	7.20	22800	22.9	0.72	5	76.25	13.6	14.7

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-83-90

Date	02/19/2020	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)	75.65
Water Quality Meter	YSI	Gallons in Well	2.34
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	90.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	83
Water Column in Well	14.35	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/19/2020	EB Time	
Sample Time	13:16	MS/MSD Sample ID	
Sample ID	MW-83-90-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	14	Post Sampling Turbidity	
Turbidity		Purge Date	02/19/2020

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)
12:59	500	2000	28.7	7.24	2154	2.4	4.98	101	75.90	1.10	1.39
13:03	500	4000	29.9	7.22	2145	2.9	4.88	39	75.90	1.08	1.40
13:07	500	6000	29.8	7.19	2157	5.3	4.91	18	75.90	1.11	1.41
13:11	500	8000	29.9	7.19	2143	5.7	4.92	14	75.90	1.10	1.39
13:15	500	10000	29.9	7.18	2132	6.4	4.92	14	75.90	1.09	1.41

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**

MW-83-180

Date	02/19/2020	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)	75.84
Water Quality Meter	YSI	Gallons in Well	16.99
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	180.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	170
Water Column in Well	104.16	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/19/2020	EB Time	
Sample Time	12:32	MS/MSD Sample ID	
Sample ID	MW-83-180-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	02/19/2020

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)
12:15	500	2000	29.2	7.37	11701	-9.4	0.73	6	76.00	6.63	7.61
12:19	500	4000	29.4	7.40	11646	-14.5	0.68	2	76.00	6.58	7.55
12:23	500	6000	29.4	7.41	11657	-15.5	0.65	2	76.00	6.61	7.56
12:27	500	8000	29.5	7.41	11616	-16.0	0.63	2	76.00	6.57	7.54
12:31	500	10000	29.4	7.41	16612	-17.1	0.62	2	76.00	6.61	7.56

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

MW-83-225

Date	02/19/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	76.29
Water Quality Meter	YSI	Gallons in Well	29.15
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	255
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	215
Water Column in Well	178.71	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/19/2020	EB Time	
Sample Time	13:13	MS/MSD Sample ID	
Sample ID	MW-83-225-Q120	MS/MSD Sample Time	
Single Filter Turbidity	9	Double Filter Turbidity	1
Without Filter Turbidity	48	Post Sampling Turbidity	
		Purge Date	02/19/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:43	500	2000	27.9	7.03	18308	24.9	0.93	112	76.35	10.8	12.0
12:47	500	4000	28.3	6.98	19027	23.7	0.81	68	76.35	11.2	12.3
12:51	500	6000	28.6	6.96	19122	22.3	0.78	55	76.35	11.2	12.3
12:55	500	8000	28.7	6.98	19142	20.9	0.72	49	76.35	11.2	12.3
12:59	500	10000	28.7	6.97	19151	20.5	0.68	48	76.35	11.2	12.3
13:03	500	12000	28.7	6.97	19165	19.7	0.65	48	76.35	11.2	12.3

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-85-129

Date	02/18/2020	Sampler	KT
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	116.65
Water Quality Meter	YSI	Gallons in Well	2.01
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	129.00
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	122.5
Water Column in Well	12.35	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/18/2020	EB Time	
Sample Time	12:20	MS/MSD Sample ID	
Sample ID	MW-85-129-Q120	MS/MSD Sample Time	
Duplicate Sample ID	Mw-911-q120	Double Filter Turbidity	1
Dup Sample Time	12:30	Post Sampling Turbidity	
Single Filter Turbidity	8	Purge Date	02/18/2020
Without Filter Turbidity	39		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:00	500	2000	30.7	7.41	2317	39.4	5.01	52	116.72	1.17	1.50
12:04	500	4000	30.5	7.40	2309	39.0	4.97	44	116.75	1.16	1.50
12:08	500	6000	30.5	7.40	2308	38.8	4.96	40	116.75	1.16	1.50
12:12	500	8000	30.5	7.40	2305	38.3	4.93	39	116.75	1.16	1.50
12:16	500	10000	30.5	7.39	2306	38.3	4.93	39	116.75	1.16	1.50

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-85-217

Date	02/18/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	115.85
Water Quality Meter	YSI	Gallons in Well	16.66
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	218.00
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	206.5
Water Column in Well	102.15	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/18/2020	EB Time	
Sample Time	13:25	MS/MSD Sample ID	
Sample ID	MW-85-217-Q120	MS/MSD Sample Time	
Single Filter Turbidity	6	Double Filter Turbidity	1
Without Filter Turbidity	35	Post Sampling Turbidity	
		Purge Date	02/18/2020

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)
13:00	500	2000	27.8	6.89	14034	23.5	1.23	54	115.94	8.06	9.08
13:04	500	4000	27.8	6.91	14041	23.5	1.23	44	115.96	8.06	9.08
13:08	500	6000	27.8	6.91	14044	23.5	1.24	42	115.96	8.06	9.08
13:12	500	8000	27.8	6.91	14044	23.5	1.24	42	115.96	8.06	9.08
13:16	500	10000	27.8	6.91	14049	23.6	1.22	42	115.96	8.06	9.08
13:20	500	12000	27.8	6.91	14043	23.9	1.21	42	115.96	8.06	9.08

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-85-237

Date	02/18/2020	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)	115.82
Water Quality Meter	YSI	Gallons in Well	19.77
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	237.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	230
Water Column in Well	121.18	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/18/2020	EB Time	
Sample Time	12:22	MS/MSD Sample ID	
Sample ID	MW-85-237-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	02/18/2020

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)
12:05	500	2000	28.2	7.89	14439	2.8	0.33	6	115.90	8.42	9.48
12:09	500	4000	29.0	7.87	15103	0.3	0.29	4	115.90	8.74	9.82
12:13	500	6000	29.1	7.84	17490	-2.8	0.30	2	115.90	10.36	11.52
12:17	500	8000	29.1	7.82	18120	-4.4	0.35	2	115.90	10.69	11.80
12:21	500	10000	29.2	7.80	18021	-5.0	0.36	22	115.90	10.69	11.84

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-75-117

Date	02/17/2020	Sampler	KT
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	20.16
Water Quality Meter	YSI	Gallons in Well	15.98
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	118.11
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	107
Water Column in Well	97.95	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-701
Sample Date	02/17/2020	EB Time	16:25
Sample Time	16:15	MS/MSD Sample ID	
Sample ID	MW-75-117-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	02/17/2020

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)
15:50	500	2000	26.7	7.13	13770	31.1	0.86	7	20.33	8.02	9.07
15:54	500	4000	26.7	7.14	14005	37.5	0.67	5	20.33	8.02	9.07
15:58	500	6000	26.8	7.14	14007	40.2	0.70	5	20.33	8.02	9.07
16:02	500	8000	26.8	7.14	14008	41.2	0.69	5	20.33	8.02	9.07
16:06	500	10000	26.9	7.14	14011	41.4	0.70	5	20.33	8.02	9.07

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-75-033

Date	02/17/2020	Sampler	KT
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	20.02
Water Quality Meter	YSI	Gallons in Well	2.41
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	34.80
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	26
Water Column in Well	14.78	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/17/2020	EB Time	
Sample Time	15:20	MS/MSD Sample ID	
Sample ID	MW-75-033-Q120	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	1
Without Filter Turbidity	17	Post Sampling Turbidity	
		Purge Date	02/17/2020

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)
14:52	500	2000	26.8	7.13	3841	22.2	1.53	112	20.20	2.00	2.47
14:56	500	4000	26.7	7.15	3814	22.3	1.49	51	20.20	2.00	2.47
15:00	500	6000	26.8	7.15	3822	22.3	1.49	19	20.20	2.00	2.47
15:04	500	8000	26.7	7.15	3824	22.3	1.49	17	20.20	2.00	2.47
15:08	500	10000	26.7	7.15	3822	22.3	1.46	17	20.20	2.00	2.47
15:12	500	12000	26.7	7.15	3822	22.4	1.46	17	20.20	2.0	2.47

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?		X		

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-89-183

Date	02/19/2020	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)	132.51
Water Quality Meter	YSI	Gallons in Well	8.24
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	183
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	173.0
Water Column in Well	50.49	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/19/2020	EB Time	
Sample Time	10:54	MS/MSD Sample ID	
Sample ID	MW-89-183-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	02/19/2020

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)
10:37	500	2000	29.6	7.16	7375	12.1	3.30	10	132.60	4.02	4.79
10:41	500	4000	30.2	7.16	7401	8.9	3.44	5	132.60	4.04	4.79
10:45	500	6000	30.5	7.16	7436	6.5	3.48	3	132.60	4.08	4.83
10:49	500	8000	30.5	7.16	7488	4.0	3.51	3	132.60	4.10	4.87
10:53	500	10000	30.5	7.16	7508	3.1	3.54	3	132.60	4.12	4.90

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-89-273

Date	02/19/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	132.44
Water Quality Meter	YSI	Gallons in Well	23.21
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	274.75
Casing Diameter (in)	2	Odor	None
Water Column in Well	142.31	Pump Intake Depth (ft bmp)	263
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	02/19/2020	EB Sample ID	
Sample Time	10:50	EB Time	
Sample ID	MW-89-273-Q120	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	7	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	02/19/2020

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)
10:23	500	2000	28.5	7.40	8298	49.9	4.53	8	132.51	4.60	5.42
10:27	500	4000	29.2	7.41	8321	47.5	4.47	7	132.51	4.60	5.43
10:31	500	6000	29.7	7.41	8345	42.8	4.43	7	132.51	4.60	5.43
10:35	500	8000	30.2	7.41	8346	40.2	4.36	7	132.51	4.60	5.43
10:39	500	10000	30.1	7.41	8349	39.8	4.34	7	132.51	4.60	5.43
10:43	500	12000	30.1	7.41	8351	35.4	4.34	7	132.51	4.60	5.43

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

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-84-057

Date	02/19/2020	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)	46.52
Water Quality Meter	YSI	Gallons in Well	1.71
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	57.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	49.5
Water Column in Well	10.48	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/19/2020	EB Time	
Sample Time	14:30	MS/MSD Sample ID	
Sample ID	MW-84-057-Q120	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	1
Without Filter Turbidity	22	Post Sampling Turbidity	
		Purge Date	02/19/2020

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)
14:13	500	2000	29.7	7.25	1841	13.1	5.79	34	46.76	0.93	1.19
14:17	500	4000	30.5	7.30	1843	12.4	5.74	28	46.76	0.93	1.19
14:21	500	6000	30.7	7.33	1845	12.6	5.70	24	46.76	0.93	1.19
14:25	500	8000	30.7	7.35	1844	12.7	5.67	22	46.76	0.93	1.19
14:29	500	10000	30.7	7.34	1844	12.4	5.71	22	46.76	0.93	1.19

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-84-095

Date	02/19/2020	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)	46.41
Water Quality Meter	YSI	Gallons in Well	7.93
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	95.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Water Column in Well	48.59	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-707-Q120
Sample Date	02/19/2020	EB Time	15:30
Sample Time	15:15	MS/MSD Sample ID	
Sample ID	MW-84-095-Q120	MS/MSD Sample Time	15:15
Single Filter Turbidity	1	Double Filter Turbidity	1
Without Filter Turbidity	12	Post Sampling Turbidity	
		Purge Date	02/19/2020

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)
14:58	500	2000	28.7	7.11	5787	11.1	1.33	29	46.50	3.11	3.76
15:02	500	4000	28.8	7.12	5780	10.8	1.18	22	46.50	3.11	3.74
15:06	500	6000	28.8	7.12	5745	10.2	1.00	14	46.50	3.11	3.76
15:10	500	8000	28.8	7.12	5783	10.5	0.97	12	46.50	3.11	3.77
15:14	500	10000	28.8	7.13	5766	10.9	0.92	12	46.50	3.11	3.76

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-84-132

Date	02/19/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	47.06
Water Quality Meter	YSI	Gallons in Well	13.85
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	132.00
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	122
Water Column in Well	84.94	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/19/2020	EB Time	
Sample Time	14:24	MS/MSD Sample ID	
Sample ID	MW-84-132-Q120	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	02/19/2020

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)
14:00	500	2000	28.32	7.31	9453	80.8	0.92	7	47.21		
14:04	500	4000	28.4	7.10	9756	44.3	0.68	5	47.22	5.60	6.51
14:08	500	6000	28.5	7.08	9929	29.9	0.65	5	47.22	5.60	6.51
14:12	500	8000	28.6	7.05	10036	18.9	0.59	5	47.22	5.48	6.3
14:16	500	10000	28.8	7.02	10182	15.3	0.67	5	47.22	5.60	6.52
14:20	500	12000	28.8	7.02	10193	12.6	0.63	5	47.22	5.60	6.52

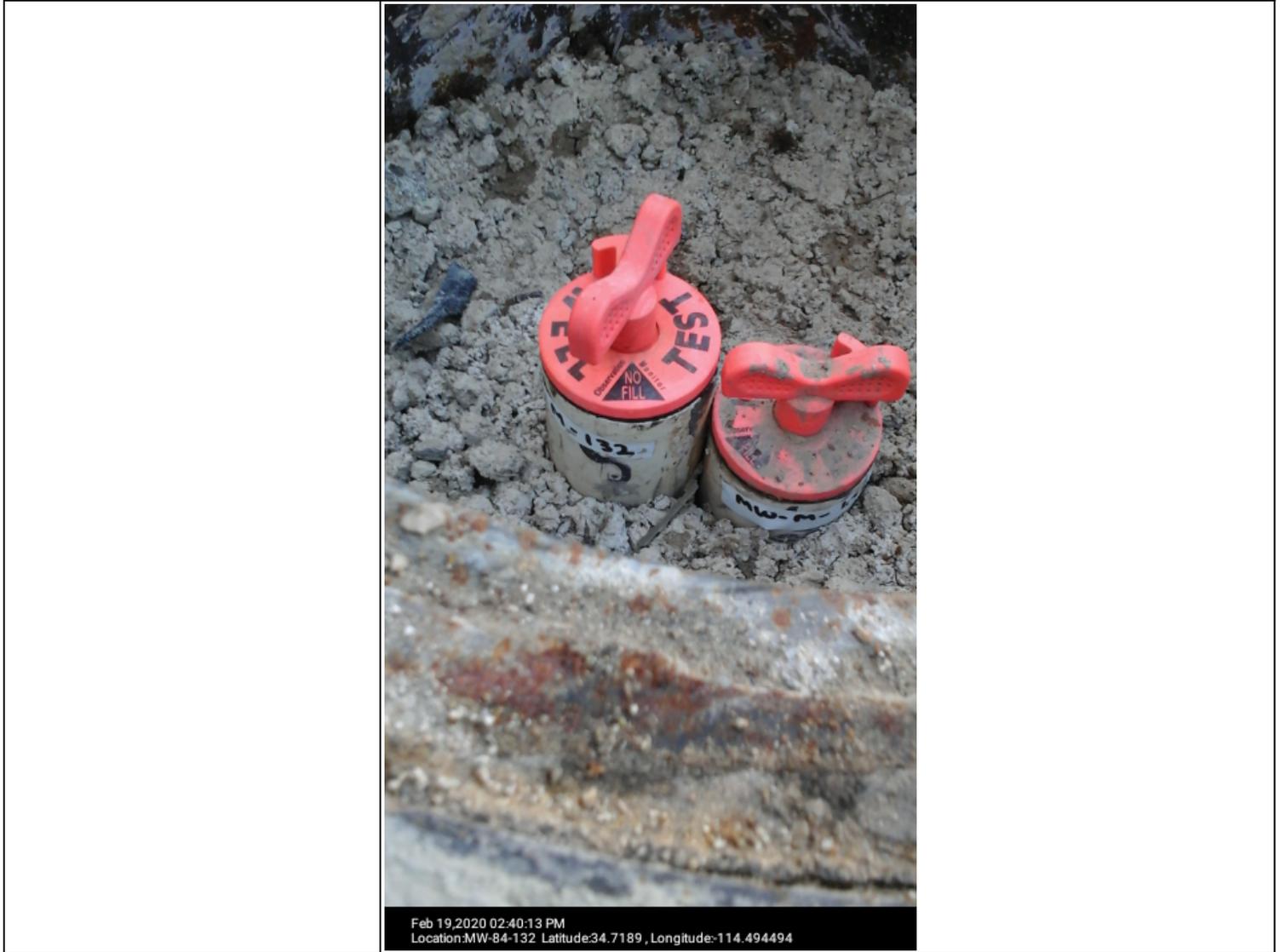
Well Integrity Checklist

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-84-193

Date	02/19/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	46.84
Water Quality Meter	YSI	Gallons in Well	23.84
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	193.00
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	183
Water Column in Well	146.16	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-706-Q120
Sample Date	02/19/2020	EB Time	15:25
Sample Time	15:14	MS/MSD Sample ID	
Sample ID	MW-84-193-Q120	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	02/19/2020

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)
14:53	500	2000	28.2	7.29	14500	122.0	0.85	7	46.98	8.64	9.72
14:57	500	4000	28.7	7.24	14979	102.6	0.99	4	47.02	8.62	9.69
15:01	500	6000	28.6	7.24	14841		0.98		47.02		9.69
15:05	500	8000	28.6	7.24	14823	96.3	1.00	4	47.02	8.62	9.68
15:09	500	10000	28.6	7.24	14836	94.7	0.97	4	47.02	8.62	9.68

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			

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-87-192

Date	02/18/2020	Sampler	
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	92.74
Water Quality Meter	YSI	Gallons in Well	
Water Column in Well	101.07	Measured Well Depth (ft bmp)	193.81
Did Well Dewater?	No	Odor	None
Sample Date	02/18/2020	Pump Intake Depth (ft bmp)	
Sample Time	15:43	Total Volume to Remove	
Sample ID	MW-87-192-Q120	EB Sample ID	Eb-703-q120
Single Filter Turbidity	0	EB Time	15:55
Without Filter Turbidity	8	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	02/18/2020

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)
15:21	500	2000	27.2	7.38	9979	183.4	3.66	16	92.81	5.61	6.50
15:25	500	4000	27.7	7.39	10195	181.5	3.55	9	92.81		
15:29	500	6000	27.6	7.38	10245	179.0	3.55	8	92.81	5.60	6.50
15:33	500	8000	27.6	7.38	10241	177.2	3.55	8	92.81	5.60	6.50
15:37	500	10000	27.6	7.38	10255	175.9	3.57	8	92.81	5.60	6.50

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-87-275

Date	02/18/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	92.49
Water Quality Meter	YSI	Gallons in Well	29.96
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	276.20
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	265
Water Column in Well	183.71	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/18/2020	EB Time	
Sample Time	14:50	MS/MSD Sample ID	
Sample ID	MW-87-275-Q120	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	02/18/2020

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)
14:30	500	2000	28.3	6.91	12340	91.1	1.09	7	92.55	7.01	8.00
14:34	500	4000	28.5	7.01	12336	88.9	0.96	4	92.55	7.03	8.00
14:38	500	6000	28.5	7.05	12331	87.2	0.88	4	92.55	7.03	8.00
14:42	500	8000	28.4	7.04	12319	84.3	0.83	4	92.55	7.03	8.00
14:46	500	10000	28.4	7.04	12308	83.9	0.81	4	92.55	7.03	8.00

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-87-139

Date	02/18/2020	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)	92.34
Water Quality Meter	YSI	Gallons in Well	7.61
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	139.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	134
Water Column in Well	46.66	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/18/2020	EB Time	
Sample Time	14:47	MS/MSD Sample ID	
Sample ID	MW-87-139-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	10	Post Sampling Turbidity	
Turbidity		Purge Date	02/18/2020

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)
14:26	100	400	25.4	6.80	8020	24.3	3.06	101	92.34	4.44	5.21
14:30	100	800	26.0	6.74	7939	18.4	2.02	22	92.34	4.39	5.16
14:34	100	1200	26.1	6.75	7868	16.8	1.41	18	92.34	4.34	5.11
14:38	100	1600	27.0	6.77	7813	16.5	1.26	11	92.34	4.30	5.07
14:42	100	2000	26.9	6.78	7784	18.0	1.30	10	92.34	4.28	5.05
14:46	100	2400	27.0	6.77	7783	18.4	1.31	10	92.34	4.29	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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?		X		

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-76-218

Date	02/20/2020	Sampler	KT
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	28.48
Water Quality Meter	YSI	Gallons in Well	30.91
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	218.00
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	215
Water Column in Well	189.52	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/20/2020	EB Time	
Sample Time	10:38	MS/MSD Sample ID	
Sample ID	MW-76-218-Q120	MS/MSD Sample Time	
Without Filter	4	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	02/20/2020

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)
10:20	500	2000	27.2	7.39	25254	25.9	0.41	7	28.56	15.3	16.4
10:24	500	4000	27.3	7.40	25305	24.6	0.44	4	28.61	15.4	16.4
10:28	500	600	27.5	7.42	25323	24.3	0.39	4	28.61	15.4	16.4
10:32	500	8000	27.5	7.42	25332	22.9	0.35	4	28.61	15.4	16.4
10:36	500	10000	27.5	7.42	25339	22.4	0.34	4	28.61	15.4	16.4

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

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-76-181

Date	02/20/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	28.74
Water Quality Meter	YSI	Gallons in Well	25.0
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	182
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	176
Water Column in Well	153.26	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/20/2020	EB Time	
Sample Time	11:30	MS/MSD Sample ID	
Sample ID	MW-76-181-Q120	MS/MSD Sample Time	
Without Filter	6	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	02/20/2020

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)
11:09	500	2000	26.9	7.34	22265	19.8	1.11	9	28.85	13.3	14.4
11:13	500	4000	26.9	7.32	22258	19.5	0.96	6	28.86	13.3	14.4
11:17	500	6000	27.2	7.33	22279	18.1	0.85	6	28.86	13.3	14.4
11:21	500	8000	27.1	7.32	22258	17.6	0.83	6	28.86	13.3	14.4
11:25	500	10000	27.2	7.32	22267	17.9	0.76	6	28.86	13.3	14.4

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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-76-156

Date	02/20/2020	Sampler	KT
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	28.48
Water Quality Meter	YSI	Gallons in Well	20.8
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	156.00
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	151
Water Column in Well	127.52	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/20/2020	EB Time	
Sample Time	08:38	MS/MSD Sample ID	
Sample ID	MW-76-156-Q120	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	02/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:17	500	2000	26.7	7.34	17810	21.9	0.89	7	28.66	10.4	11.5
08:21	500	4000	26.6	7.32	17868	21.4	0.82	5	28.67	10.5	11.6
08:25	500	6000	26.6	7.32	17872	21.1	0.76	3	28.67	10.5	11.6
08:29	500	8000	26.6	7.31	17888	22.1	0.73	3	28.67	10.5	11.6
08:33	500	10000	26.6	7.31	17875	22.5	0.72	3	28.67	10.5	11.6

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-76-039

Date	02/20/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	27.98
Water Quality Meter	YSI	Gallons in Well	1.96
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	40
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	31
Water Column in Well	12.02	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/20/2020	EB Time	
Sample Time	09:33	MS/MSD Sample ID	
Sample ID	MW-76-039-Q120	MS/MSD Sample Time	
Duplicate Sample ID	Mw-909-q120	Double Filter Turbidity	1
Dup Sample Time	09:44	Post Sampling Turbidity	
Single Filter Turbidity	7	Purge Date	02/20/2020
Without Filter Turbidity	44		

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)
09:10	500	2000	26.5	7.37	3760	23.9	1.81	71	28.11	1.97	2.44
09:14	500	4000	26.4	7.37	3750	23.4	1.41	54	28.15	1.97	2.43
09:18	500	6000	26.3	7.37	3749	23.5	1.29	49	28.15	1.98	2.44
09:22	500	8000	26.3	7.37	3744	24.2	1.21	45	28.15	1.99	2.45
09:26	500	10000	26.3	7.37	3744	25.6	1.23	45	28.15	1.99	2.45

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-337

Date	02/17/2020	Sampler	KT
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	21.93
Water Quality Meter	YSI	Gallons in Well	51.68
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	338.80
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	327
Water Column in Well	316.87	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/17/2020	EB Time	
Sample Time	13:57	MS/MSD Sample ID	
Sample ID	MW-75-337-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	7	Post Sampling Turbidity	
Turbidity		Purge Date	02/17/2020

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)
13:33	500	2000	26.4	7.36	32864	-94.2	1.57	9	22.00	20.5	21.3
13:37	500	4000	26.7	7.30	32900	-95.9	1.21	7	22.07	20.5	21.3
13:41	500	6000	26.5	7.33	32909	-97.2	1.19	7	22.09	20.5	21.3
13:45	500	8000	26.7	7.33	32914	-97.8	1.15	7	22.09	20.6	21.4
13:49	500	10000	26.7	7.33	32918	-97.7	1.14	7	22.09	20.6	21.3

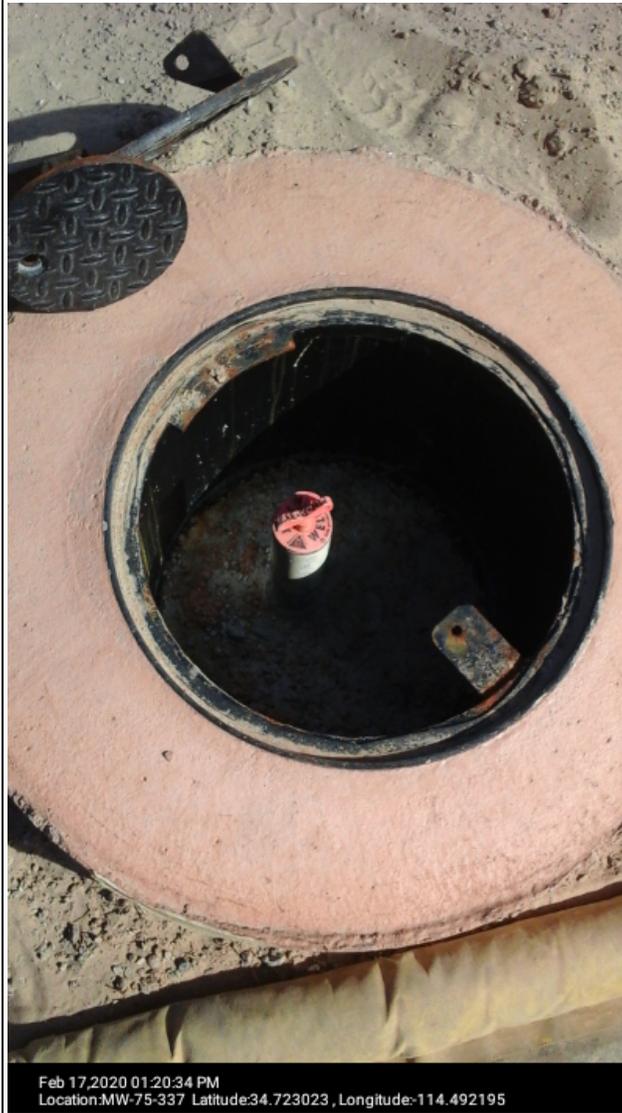
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-77-158

Date	02/18/2020	Sampler	KT
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	26.53
Water Quality Meter	YSI	Gallons in Well	21.61
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	159.00
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	148
Water Column in Well	132.47	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/18/2020	EB Time	
Sample Time	10:47	MS/MSD Sample ID	
Sample ID	MW-77-158-Q120	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	02/18/2020

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)
10:26	500	2000	23.6	7.46	21490	19.9	0.61	5	26.72	12.9	13.8
10:30	500	4000	24.0	7.46	21522	20.7	0.59	3	26.72	12.9	13.9
10:34	500	6000	24.1	7.46	21553	21.0	0.59	3	26.72	12.9	13.9
10:38	500	8000	24.2	7.46	21552	21.2	0.59	3	26.72	12.9	13.9
10:42	500	10000	24.4	7.46	21556	21.4	0.59	3	26.72	12.9	13.9

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

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-77-187

Date	02/18/2020	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)	26.27
Water Quality Meter	YSI	Gallons in Well	26.23
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	187.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	177
Water Column in Well	160.84	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/18/2020	EB Time	
Sample Time	10:24	MS/MSD Sample ID	
Sample ID	MW-77-187-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	02/18/2020

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)
10:07	500	2000	25.7	7.36	22637	18.6	0.27	8	26.40	13.67	14.78
10:11	500	4000	26.2	7.38	22846	14.8	0.21	4	26.40	13.76	14.85
10:15	500	6000	26.0	7.40	22802	10.8	0.11	4	26.40	13.75	14.83
10:19	500	8000	26.0	7.40	22839	9.6	0.14	4	26.40	13.75	14.84
10:23	500	10000	26.0	7.40	22880	10.4	0.14	4	26.40	13.76	14.85

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

MW-75-267

Date	02/17/2020	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)	20.00
Water Quality Meter	YSI	Gallons in Well	40.54
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	268.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	257
Water Column in Well	248.58	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/18/2020	EB Time	
Sample Time	09:01	MS/MSD Sample ID	
Sample ID	MW-75-267-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	02/17/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:44	500	2000	26.0	7.31	24523	-9.4	0.36	10	20.14	15.06	16.17
08:48	500	4000	26.6	7.36	24704	-2.4	0.31	7	20.14	15.15	16.24
08:52	500	6000	26.8	7.39	24978	4.2	0.28	3	20.14	15.27	16.32
08:56	500	8000	26.8	7.42	25189	6.9	0.24	3	20.14	15.36	16.37
09:00	500	10000	26.8	7.44	25334	9.2	0.22	3	20.14	15.40	16.44

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

MW-75-202

Date	02/17/2020	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)	19.95
Water Quality Meter	YSI	Gallons in Well	30.07
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	204.31
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	192
Water Column in Well	184.36	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/17/2020	EB Time	
Sample Time	14:27	MS/MSD Sample ID	
Sample ID	MW-75-202-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	02/17/2020

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)
14:10	500	2000	27.6	7.08	18802	50.7	0.44	12	20.10	11.14	12.20
14:14	500	4000	27.9	7.11	18753	48.9	0.29	7	20.10	11.06	12.18
14:18	500	6000	28.0	7.11	18651	42.3	0.27	7	20.10	11.00	12.11
14:22	500	8000	28.0	7.12	18607	37.6	0.20	7	20.10	10.97	12.08
14:26	500	10000	28.0	7.12	18599	38.5	0.15	4	20.10	10.97	12.07

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**

MW-77-102

Date	02/18/2020	Sampler	KT
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	26.17
Water Quality Meter	YSI	Gallons in Well	12.37
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	102
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	92
Water Column in Well	75.83	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/18/2020	EB Time	
Sample Time	09:40	MS/MSD Sample ID	
Sample ID	MW-77-102-Q120	MS/MSD Sample Time	
Without Filter	7	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	02/18/2020

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)
09:19	500	2000	25.4	7.42	8855	177.2	1.40	10	26.33	4.91	5.72
09:23	500	4000	25.3	7.42	8846	166.3	1.44	7	26.33	4.94	5.74
09:27	500	6000	25.4	7.42	8851	163.9	1.47	7	26.33	4.95	5.77
09:31	500	8000	25.4	7.42	8853	162.4	1.47	7	26.33	4.95	5.77
09:35	500	10000	25.4	7.42	8860	161.2	1.47	7	26.33	4.95	5.77

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

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-77-046

Date	02/18/2020	Sampler	KT
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	26.06
Water Quality Meter	YSI	Gallons in Well	3.58
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	48.00
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	36
Water Column in Well	21.94	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/18/2020	EB Time	
Sample Time	08:58	MS/MSD Sample ID	
Sample ID	MW-77-046-Q120	MS/MSD Sample Time	
Single Filter Turbidity	7	Double Filter Turbidity	1
Without Filter Turbidity	22	Post Sampling Turbidity	
		Purge Date	02/18/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:30	500	2000	26.0	7.44	11420	111.0	1.47	31	26.12	6.45	7.39
08:34	500	4000	25.8	7.49	12634	168.7	1.29	33	26.12	6.45	7.36
08:38	500	6000	25.9	7.45	12722	107.9	1.41	23	26.12	6.45	7.36
08:42	500	8000	26.0	7.42	12717	104.3	1.39	22	26.12	6.45	7.36
08:46	500	10000	26.0	7.41	12709	104.1	1.34	22	26.12	6.45	7.36
08:50	500	120000	26.0	7.41	12698	102.9	1.31	22	26.12	6.45	7.36

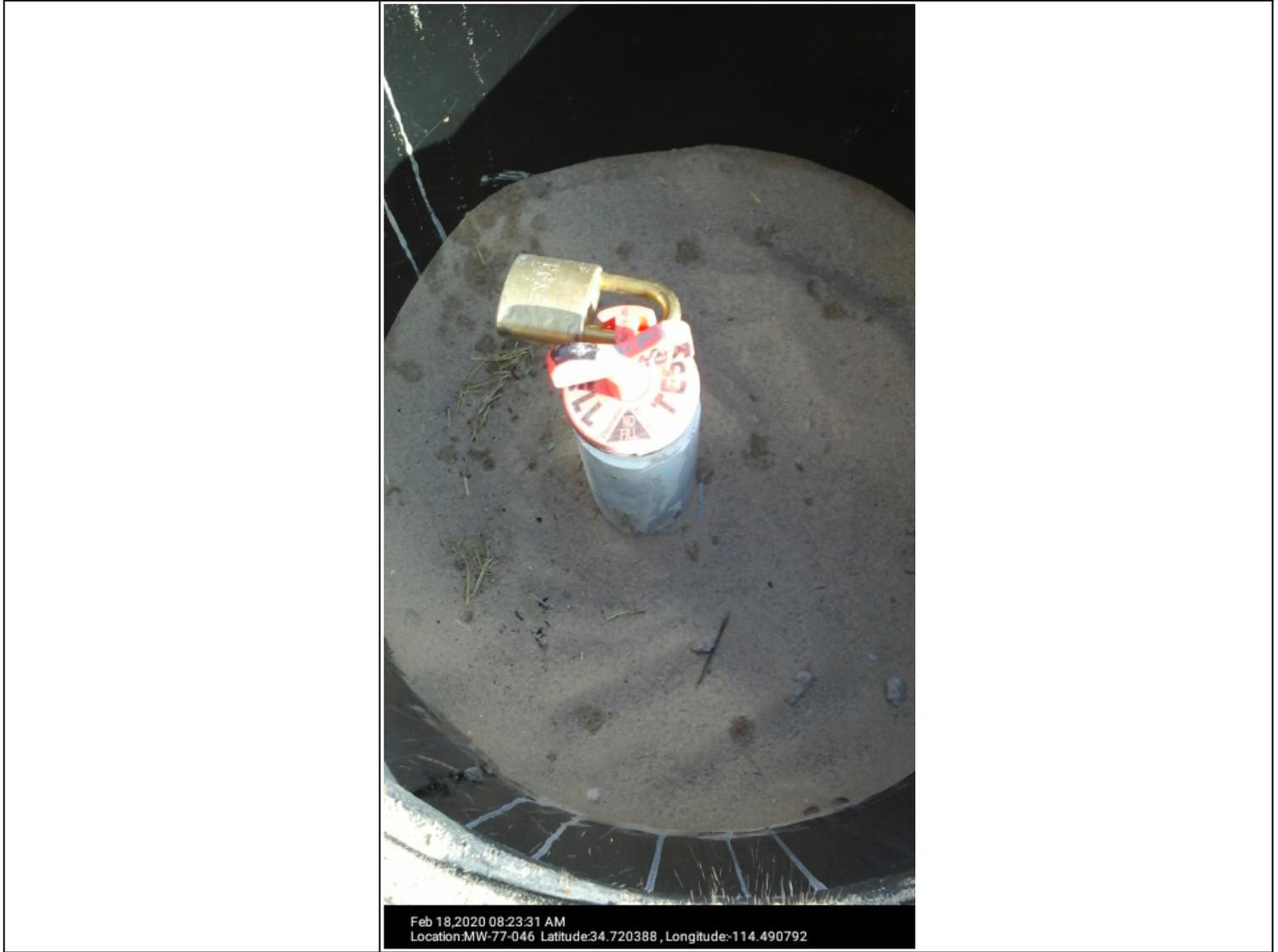
Well Integrity Checklist

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-94-030

Date	02/21/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	11.40
Water Quality Meter	YSI	Gallons in Well	3.20
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	31
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	20
Water Column in Well	19.60	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/21/2020	EB Time	
Sample Time	09:55	MS/MSD Sample ID	
Sample ID	MW-94-030-Q120	MS/MSD Sample Time	
Duplicate Sample ID	913-Q120	Double Filter Turbidity	
Dup Sample Time	10:02	Post Sampling Turbidity	
Without Filter Turbidity	3	Purge Date	02/21/2020

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)
09:38	500	2000	29.9	7.66	1480	32.4	3.87	24	11.53	0.74	0.96
09:42	500	4000	30.7	7.67	1487	32.3	3.89	14	11.53	0.74	0.96
09:46	500	6000	31.2	7.68	1493	31.9	3.94	3	11.53	0.74	0.96
09:50	500	8000	31.4	7.71	1482	30.7	3.90	3	11.53	0.75	0.96
09:54	500	1000	31.3	7.68	1484	32.4	3.91	3	11.53	0.74	0.96

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-94-100

Date	02/21/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	11.34
Water Quality Meter	YSI	Gallons in Well	14.62
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	101
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Water Column in Well	89.66	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/21/2020	EB Time	
Sample Time	09:17	MS/MSD Sample ID	
Sample ID	MW-94-100-Q120	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	02/21/2020

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	34.9	7.58	1804	23.8	2.23	22	11.47	0.91	1.18
08:58	500	4000	35.2	7.59	1784	23.3	2.13	11	11.50	0.88	1.16
09:02	500	6000	34.9	7.59	1804	23.5	2.11	7	11.50	0.89	1.17
09:06	500	8000	35.2	7.58	1791	23.6	2.10	5	11.50	0.89	1.17
09:10	500	10000	35.3	7.58	1786	24.2	2.08	5	11.50	0.90	1.17
09:14	500	12000	35.3	7.58	1808	24.4	2.04	5	11.50	0.90	1.17

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-94-175

Date	02/21/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	10.11
Water Quality Meter	YSI	Gallons in Well	26.41
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	172
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	162.2
Water Column in Well	161.89	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/21/2020	EB Time	
Sample Time	08:18	MS/MSD Sample ID	
Sample ID	MW-94-175-Q120	MS/MSD Sample Time	
Without Filter	4	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	02/21/2020

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)
07:58	500	2000	30.0	7.59	1235	32.7	1.57	8	10.16	0.60	0.79
08:02	500	4000	31.2	7.61	1239	31.6	1.52	4	10.17	0.60	0.79
08:06	500	6000	32.7	7.61	1253	31.7	1.53	4	10.16	0.60	0.79
08:10	500	8000	34.0	7.61	1249	30.9	1.48	4	10.17	0.60	0.79
08:14	500	10000	34.5	7.61	1261	30.4	1.49	4	10.16	0.60	0.79

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-81-043

Date	02/18/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	MI	Depth to Water (ft bmp)	25.52
Water Quality Meter	YSI	Gallons in Well	3.11
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	44.61
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	33
Water Column in Well	19.09	Total Volume to Remove	0.0
Did Well Dewater?	No	EB Sample ID	Eb-705-q120
Sample Date	02/18/2020	EB Time	16:00
Sample Time	14:14	MS/MSD Sample ID	
Sample ID	MW-81-043-Q120	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	02/18/2020

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)
13:09	500	8000	25.6	8.24	5921	-28	0.53	9	25.63	3.21	3.85
13:57	500	2000	25.7	8.20	5939	-20	0.55	10	25.63	3.21	3.86
14:01	500	4000	25.6	8.20	5928	-23	0.58	10	25.63	3.21	3.85
14:05	500	6000	25.8	8.24	5884	-27	0.54	9	25.63	3.21	3.85
14:13	500	10000	25.4	8.23	5953	-30	0.52	9	25.63	3.21	3.85

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-81-098

Date	02/18/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	MI	Depth to Water (ft bmp)	25.81
Water Quality Meter	YSI	Gallons in Well	12.0
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	99.41
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	88
Water Column in Well	73.6	Total Volume to Remove	0.0
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/18/2020	EB Time	
Sample Time	13:32	MS/MSD Sample ID	
Sample ID	MW-81-098-Q120	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	02/18/2020

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)
13:15	500	2000	25.4	7.91	8068	118	2.37	9	25.88	4.47	5.25
13:19	500	4000	25.4	7.90	8099	115	2.19	8	25.88	4.49	5.27
13:23	500	6000	25.2	7.90	8145	114	2.33	7	25.88	4.51	5.29
13:27	500	8000	25.3	7.91	8109	112	2.35	7	25.88	4.49	5.57
13:31	500	10000	25.3	7.91	8112	108	2.34	7	25.88	4.49	5.57

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

C-I-3

Date	02/19/2020	Sampler	<hr/>
		Color	<hr/>
		Casing Volume to Remove	<hr/>
		Depth to Water (ft bmp)	<hr/>
		Gallons in Well	<hr/>
		Measured Well Depth (ft bmp)	<hr/>
		Odor	<hr/>
		Pump Intake Depth (ft bmp)	<hr/>
		Total Volume to Remove	<hr/>
		EB Sample ID	<hr/>
		EB Time	<hr/>
		MS/MSD Sample ID	<hr/>
		MS/MSD Sample Time	<hr/>
		Double Filter Turbidity	<hr/>
		Post Sampling Turbidity	<hr/>
		Purge Date	02/19/2020

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR3-D

Date	<u>02/20/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u> </u>
Purge Volume Units	<u>MI</u>	Depth to Water (ft bmp)	<u> </u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u> </u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>7</u>
Comments	<u>2106756.30' N, 7611724.31' E</u>	Odor	<u>None</u>
Did Well Dewater?	<u>No</u>	Pump Intake Depth (ft bmp)	<u>6</u>
Sample Date	<u>02/20/2020</u>	Total Volume to Remove	<u> </u>
Sample Time	<u>10:28</u>	EB Sample ID	<u> </u>
Sample ID	<u>C-NR3-D-Q120</u>	EB Time	<u> </u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample ID	<u> </u>
Without Filter Turbidity	<u>3</u>	MS/MSD Sample Time	<u> </u>
		Double Filter Turbidity	<u> </u>
		Post Sampling Turbidity	<u> </u>
		Purge Date	<u>02/20/2020</u>

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)
10:27	500	500	12.1	8.13	919	189	8.46	3		0.46	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R22A-D

Date	<u>02/19/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>MI</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Comments	<u>2101640.49' N, 7616970.14' E</u>	Measured Well Depth (ft bmp)	<u>4.5</u>
Did Well Dewater?	<u>NA</u>	Odor	<u>None</u>
Sample Date	<u>02/19/2020</u>	Pump Intake Depth (ft bmp)	<u>4</u>
Sample Time	<u>09:56</u>	Total Volume to Remove	<u></u>
Sample ID	<u>C-R22A-D-Q120</u>	EB Sample ID	<u></u>
Single Filter Turbidity	<u>1</u>	EB Time	<u></u>
Without Filter Turbidity	<u>2</u>	MS/MSD Sample ID	<u></u>
		MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>02/19/2020</u>

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)
09:55	500	500	13.1	8.13	943	144	8.49	2		0.47	0.61

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R27-D

Date	<u>02/19/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u></u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>MI</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>4.5</u>
Comments	<u>2102558.37' N, 7616719.74' E</u>	Odor	<u></u>
Did Well Dewater?	<u>No</u>	Pump Intake Depth (ft bmp)	<u>3</u>
Sample Date	<u>02/19/2020</u>	Total Volume to Remove	<u></u>
Sample Time	<u>10:49</u>	EB Sample ID	<u></u>
Sample ID	<u>C-R27-D-Q120</u>	EB Time	<u></u>
Duplicate Sample ID	<u>Mw-906-q120</u>	MS/MSD Sample ID	<u></u>
Dup Sample Time	<u>10:59</u>	MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>02/19/2020</u>

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)
10:48	500	500	13.6	8.07	950	131	8.21	4		0.47	0.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-TAZ-D

Date	<u>02/19/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>MI</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>12</u>
Comments	<u>2100867.46' N, 7618856.05' E</u>	Odor	<u>None</u>
Did Well Dewater?	<u>No</u>	Pump Intake Depth (ft bmp)	<u>11</u>
Sample Date	<u>02/19/2020</u>	Total Volume to Remove	<u></u>
Sample Time	<u>08:15</u>	EB Sample ID	<u></u>
Sample ID	<u>C-TAZ-D-Q120</u>	EB Time	<u></u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample ID	<u></u>
Without Filter Turbidity	<u>3</u>	MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>02/19/2020</u>

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)
08:10	500	500	11.6	8.13	943	133	8.76	3		0.47	0.61

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-34-100

Date	02/20/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	MI	Depth to Water (ft bmp)	8.15
Water Quality Meter	YSI	Gallons in Well	14.97
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	99.96
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	94
Water Column in Well	91.81	Total Volume to Remove	0.0
Did Well Dewater?	No	EB Sample ID	Eb-710-q120
Sample Date	02/20/2020	EB Time	15:30
Sample Time	15:17	MS/MSD Sample ID	
Sample ID	MW-34-100-Q120	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	02/20/2020

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)
15:00	500	2000	19.4	7.65	10529	-55	0.30	10	8.20	5.98	6.85
15:04	500	4000	19.5	7.66	10832	-60	0.19	6	8.20	6.18	7.06
15:08	500	6000	19.5	7.68	11367	-62	0.15	5	8.20	6.50	7.39
15:12	500	8000	19.6	7.68	11674	-63	0.12	5	8.20	6.69	7.60
15:16	500	10000	19.6	7.68	11724	-64	0.12	5	8.20	6.71	7.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-44-115

Date	02/21/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	MI	Depth to Water (ft bmp)	19.42
Water Quality Meter	YSI	Gallons in Well	15.59
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	115.00
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	110
Water Column in Well	95.58	Total Volume to Remove	0.0
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/21/2020	EB Time	
Sample Time	08:55	MS/MSD Sample ID	
Sample ID	MW-44-115-Q120	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	02/21/2020

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)
08:38	500	2000	20.4	7.47	11335	-62	0.26	10	19.55	6.45	7.34
08:42	500	4000	20.5	7.43	10946	-66	0.18	10	19.55	6.22	7.11
08:46	500	6000	20.6	7.41	10852	-70	0.15	9	19.55	6.17	7.05
08:50	500	8000	20.6	7.42	10773	-73	0.13	9	19.55	6.12	7.00
08:54	500	10000	20.6	7.42	10764	-75	0.12	9	19.55	6.11	6.99

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-46-175

Date	02/21/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	MI	Depth to Water (ft bmp)	29.62
Water Quality Meter	YSI	Gallons in Well	23.71
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	175.00
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	170
Water Column in Well	145.38	Total Volume to Remove	0.0
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/21/2020	EB Time	
Sample Time	08:11	MS/MSD Sample ID	
Sample ID	MW-46-175-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	02/21/2020

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)
07:54	500	2000	20.1	7.65	18672	-30	0.45	4	29.70	11.11	12.14
07:57	500	10000	20.0	7.59	18662	-47	0.25	4	29.70	11.09	12.12
07:58	500	4000	20.0	7.63	18663	-36	0.33	4	29.70	11.10	12.13
08:02	500	6000	20.0	7.60	18656	-40	0.28	4	29.70	11.09	12.12
08:06	500	8000	20.0	7.59	18668	-44	0.26	4	29.70	11.09	12.12

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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



Feb 21, 2020 07:51:15 AM
Location: MW-46-175 Latitude: 34.720364, Longitude: -114.489951

**Site: PGE Topock
Topock, CA**

MW-57-050

Date	<u>02/21/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u></u>
Casing Material	<u>PVC</u>	Casing Volume to Remove	<u></u>
Casing Diameter (in)	<u>2</u>	Depth to Water (ft bmp)	<u></u>
Comments	<u>Well is dry</u>	Gallons in Well	<u></u>
Did Well Dewater?	<u>NA</u>	Measured Well Depth (ft bmp)	<u>51.00</u>
		Odor	<u></u>
		Pump Intake Depth (ft bmp)	<u></u>
		Total Volume to Remove	<u></u>
		EB Sample ID	<u></u>
		EB Time	<u></u>
		MS/MSD Sample ID	<u></u>
		MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>02/21/2020</u>

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)
11:56	0	0									

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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	
Remarks				

Photos and Drawings

Site: PGE Topock
Topock, CA

Site: PGE Topock
Topock, CA

MW-58BR

Date	02/17/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	MI	Depth to Water (ft bmp)	66.72
Water Quality Meter	YSI	Gallons in Well	195.65
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	200.00
Casing Material	PVC	Odor	None
Casing Diameter (in)	6	Pump Intake Depth (ft bmp)	180
Water Column in Well	133.28	Total Volume to Remove	0.0
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/17/2020	EB Time	
Sample Time	16:06	MS/MSD Sample ID	
Sample ID	MW-58BR-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	02/17/2020

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)
15:49	500	2000	27.0	7.14	8316	52	0.70	3	66.80	4.60	5.40
15:53	500	4000	26.8	7.15	8308	51	0.69	3	66.80	4.58	5.39
15:57	500	6000	26.7	7.15	8296	51	0.66	3	66.80	4.59	5.38
16:01	500	8000	26.8	7.15	8290	50	0.64	3	66.80	4.59	5.38
16:05	500	10000	27.0	7.16	8285	50	0.59	3	66.80	4.59	5.38

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-62-065

Date	02/19/2020	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)	50.11
Water Quality Meter	YSI	Gallons in Well	2.43
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	65.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	54.5
Water Column in Well	14.89	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/19/2020	EB Time	
Sample Time	08:43	MS/MSD Sample ID	
Sample ID	MW-62-065-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	1
Without Filter Turbidity	18	Post Sampling Turbidity	
		Purge Date	02/19/2020

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)
08:26	500	2000	26.4	7.31	6282	5.7	4.41	33	50.37	3.43	4.09
08:30	500	4000	27.7	7.26	6372	1.2	4.35	25	50.37	3.45	4.14
08:34	500	6000	27.8	7.20	6423	0.4	3.95	18	50.37	3.47	4.16
08:38	500	8000	27.8	7.18	6409	2.0	3.88	18	50.37	3.50	4.16
08:42	500	10000	27.8	7.17	6416	2.7	3.84	18	50.37	3.50	4.16

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-62-110

Date	02/17/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	Gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Casing Material	PVC	Measured Well Depth (ft bmp)	
Did Well Dewater?	No	Odor	None
Sample Date	02/18/2020	Pump Intake Depth (ft bmp)	
Sample Time	16:44	Total Volume to Remove	
Sample ID	MW-62-110-Q120	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	5	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	02/17/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cum'l Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:03	0.5	4.5	27.2	7.90	10112	-40	0.32	5		5.73	6.62
13:05	0.5	1.5	28.1	8.03	8880	-30	0.26	5		4.93	5.77
15:33	0.5	3.0	27.9	8.13	9896	-34	0.30	5		5.54	6.43
16:40	0.5	6.0	27.0	7.89	10112	-44	0.30	5		5.73	6.62

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		
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

Site: PGE Topock
Topock, CA

MW-63-065

Date	02/19/2020	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)	51.22
Water Quality Meter	YSI	Gallons in Well	2.25
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	65.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	56
Water Column in Well	13.78	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/19/2020	EB Time	
Sample Time	09:33	MS/MSD Sample ID	
Sample ID	MW-63-065-Q120	MS/MSD Sample Time	
Duplicate Sample ID	MW-902-Q120	Double Filter Turbidity	1
Dup Sample Time	09:43	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	02/19/2020
Without Filter Turbidity	18		

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)
09:16	300	1200	25.5	7.09	7376	11.1	0.63	30	51.44	4.04	4.77
09:20	300	2400	25.7	7.11	7280	10.1	0.70	22	51.44	4.00	4.73
09:24	300	3600	25.7	7.12	7207	9.6	0.73	18	51.44	3.97	4.71
09:28	300	4800	25.7	7.12	7143	8.8	0.81	18	51.44	3.92	4.68
09:32	500	10000	27.4	7.03	7032	7.4	1.02	28	51.44	3.84	4.56

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-64BR

Date	02/21/2020	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)	121.60
Water Quality Meter	YSI	Gallons in Well	200.23
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	258.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	6	Pump Intake Depth (ft bmp)	QED
Water Column in Well	136.40	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/21/2020	EB Time	
Sample Time	10:15	MS/MSD Sample ID	
Sample ID	MW-64BR-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	02/21/2020

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)
09:58	200	800	24.2	6.85	13901	-12.4	3.00	5	121.71	8.04	9.04
10:02	200	1600	24.0	6.90	13904	-12.9	1.05	4	121.71	8.03	9.03
10:06	200	2400	24.6	6.97	13912	-1.3	0.40	4	121.71	8.02	9.02
10:10	200	3200	24.7	7.00	13903	-4.7	0.37	4	121.71	8.04	9.04
10:14	200	4000	24.7	7.00	13902	-5.0	0.35	4	121.71	8.04	9.04

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

MW-65-160

Date	02/20/2020	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)	142.23
Water Quality Meter	YSI	Gallons in Well	2.90
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	160.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	155
Water Column in Well	17.77	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/20/2020	EB Time	
Sample Time	09:12	MS/MSD Sample ID	
Sample ID	MW-65-160-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	1
Without Filter Turbidity	12	Post Sampling Turbidity	
		Purge Date	02/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:55	500	2000	23.5	7.16	4062	8.5	3.80	21	142.32	2.15	2.64
08:59	500	4000	23.6	7.07	4117	-0.9	3.32	14	142.32	2.18	2.68
09:03	500	6000	23.4	7.02	4116	-3.5	3.17	12	142.32	2.18	2.68
09:07	500	8000	23.5	7.00	4116	-4.2	3.14	12	142.32	2.18	2.68
09:11	500	10000	23.5	7.00	4118	-5.0	3.13	12	142.32	2.18	2.68

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-65-225

Date	02/20/2020	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)	141.91
Water Quality Meter	YSI	Gallons in Well	13.55
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	225.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	215
Water Column in Well	83.09	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/20/2020	EB Time	
Sample Time	10:14	MS/MSD Sample ID	
Sample ID	MW-65-225-Q120	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	10	Post Sampling Turbidity	
		Purge Date	02/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:57	500	2000	26.7	7.01	6389	3.4	2.42	18	142.00	3.47	4.16
10:01	500	4000	28.7	6.96	6422	-13.9	2.31	12	142.00	3.49	4.18
10:05	500	6000	28.5	6.94	6494	-15.6	2.23	10	142.00	3.50	4.18
10:09	500	8000	28.5	6.94	6482	-16.1	2.20	10	142.00	3.51	4.20
10:13	500	10000	28.5	6.95	6498	-16.2	2.18	10	142.00	3.50	4.20

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**

MW-68-180

Date	02/20/2020	Sampler	
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	166.74
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	QED
Did Well Dewater?	No	Odor	none
Sample Date	02/20/2020	Pump Intake Depth (ft bmp)	
Sample Time	11:32	Total Volume to Remove	
Sample ID	MW-68-180-Q120	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	4	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	02/20/2020

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)
11:15	500	2000	23.6	7.15	5507	10.9	5.97	9	166.80	2.98	3.58
11:19	500	2000	22.2	7.17	5359	18.1	6.60	6	166.80	2.88	3.47
11:23	500	6000	23.1	7.17	5372	17.9	6.65	4	166.80	2.90	3.49
11:27	500	8000	23.1	7.17	5379	16.9	6.63	4	166.80	2.91	3.49
11:31	500	10000	23.1	7.17	5379	16.3	6.62	4	166.80	2.90	3.49

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-72-080

Date	02/20/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	59.87
Water Quality Meter	YSI	Gallons in Well	3.28
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	80
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	70
Water Column in Well	20.13	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-709-Q120
Sample Date	02/20/2020	EB Time	15:30
Sample Time	15:10	MS/MSD Sample ID	
Sample ID	MW-72-080-Q120	MS/MSD Sample Time	
Without Filter	7	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	02/20/2020

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)
14:50	500	2000	28.8	7.40	18794	114.6	1.21	15	59.93	11.0	12.2
14:54	500	4000	28.8	7.38	18783	112.5	1.09	10	59.95	11.0	12.2
14:58	500	6000	28.8	7.37	18791	109.3	0.95	7	59.96	11.0	12.2
15:02	500	8000	28.9	7.35	18812	109.0	0.94	7	59.97	11.0	12.2
15:06	500	10000	29.0	7.35	18818	108.7	0.95	7	59.97	11.0	12.2

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-72BR-200

Date	02/20/2020	Sampler	Kt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	59.80
Water Quality Meter	YSI	Gallons in Well	205.81
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	200
Casing Material	PVC	Odor	None
Casing Diameter (in)	6	Pump Intake Depth (ft bmp)	152
Water Column in Well	140.2	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/20/2020	EB Time	
Sample Time	14:20	MS/MSD Sample ID	
Sample ID	MW-72BR-200-Q120	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	7	Post Sampling Turbidity	
Turbidity		Purge Date	02/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:00	500	2000	26.3	7.52	17554	-35.6	1.10	11	59.88	10.3	11.4
14:04	500	4000	26.6	7.52	17620	-46.5	0.73	8	59.91	10.3	11.4
14:08	500	6000	26.8	7.47	17672	-55.2	0.69	7	59.91	10.3	11.4
14:12	500	8000	26.9	7.47	17669	-57.6	0.65	7	59.91	10.3	11.4
14:16	500	10000	27.0	7.44	17670	-58.6	0.63	7	59.91	10.3	11.4

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-73-080

Date	02/20/2020	Sampler	KT
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	52.37
Water Quality Meter	YSI	Gallons in Well	4.67
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	81
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	70
Water Column in Well	28.63	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	02/20/2020	EB Time	
Sample Time	13:18	MS/MSD Sample ID	
Sample ID	MW-73-080-Q120	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	02/20/2020

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)
12:52	500	2000	27.4	7.21	11600	18.4	1.65	12	52.44	6.58	7.55
12:56	500	4000	27.8	7.21	11582	18.8	1.49	9	52.47	6.57	7.54
13:00	500	6000	28.2	7.22	11612	18.8	1.42	8	52.47	6.57	7.54
13:04	500	8000	28.2	7.22	11600	18.8	1.39	8	52.47	6.57	7.54
13:08	500	10000	28.3	7.22	11623	18.8	1.32	8	52.47	6.57	7.54
13:11	500	12000	28.3	7.22	11618	18.8	1.29	8	52.47	6.57	7.54

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings



**Site: PGE Topock
Topock, CA**

RMP-AB3

Date	<u>02/20/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u></u>
Did Well Dewater?	<u>NA</u>	Casing Volume to Remove	<u></u>
Sample Date	<u>02/20/2020</u>	Depth to Water (ft bmp)	<u></u>
Sample Time	<u>11:20</u>	Gallons in Well	<u></u>
Sample ID	<u>RMP-AB3-Q120</u>	Measured Well Depth (ft bmp)	<u></u>
		Odor	<u></u>
		Pump Intake Depth (ft bmp)	<u></u>
		Total Volume to Remove	<u></u>
		EB Sample ID	<u></u>
		EB Time	<u></u>
		MS/MSD Sample ID	<u></u>
		MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>02/20/2020</u>

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

**Site: PGE Topock
Topock, CA**

SW1

Date	<u>02/19/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Sampling Type	<u>Surface water</u>	Casing Volume to Remove	<u></u>
Comments	<u>2101313.02' N, 7616702.47' E</u>	Depth to Water (ft bmp)	<u></u>
Did Well Dewater?	<u>No</u>	Gallons in Well	<u></u>
Sample Date	<u>02/19/2020</u>	Measured Well Depth (ft bmp)	<u></u>
Sample Time	<u>13:15</u>	Odor	<u>None</u>
Sample ID	<u>SW1-Q120</u>	Pump Intake Depth (ft bmp)	<u></u>
Single Filter Turbidity	<u>1</u>	Total Volume to Remove	<u></u>
Without Filter	<u>8</u>	EB Sample ID	<u></u>
Turbidity		EB Time	<u></u>
		MS/MSD Sample ID	<u></u>
		MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>02/19/2020</u>

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)
13:10			19.7	7.72	1472	129	8.84	8		0.74	0.95

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

SW2

Date	<u>02/19/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Sampling Type	<u>Surface water</u>	Casing Volume to Remove	<u></u>
Comments	<u>2101075.28' N, 7616908.56' E</u>	Depth to Water (ft bmp)	<u></u>
Did Well Dewater?	<u>No</u>	Gallons in Well	<u></u>
Sample Date	<u>02/19/2020</u>	Measured Well Depth (ft bmp)	<u></u>
Sample Time	<u>13:35</u>	Odor	<u>None</u>
Sample ID	<u>SW2-Q120</u>	Pump Intake Depth (ft bmp)	<u></u>
Single Filter Turbidity	<u>1</u>	Total Volume to Remove	<u></u>
Without Filter	<u>8</u>	EB Sample ID	<u></u>
Turbidity		EB Time	<u></u>
		MS/MSD Sample ID	<u></u>
		MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>02/19/2020</u>

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:30			16.1	7.95	1822	149	7.73	8		0.93	1.18

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

TW-02D

Date	02/19/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Extraction Port	Casing Volume to Remove	
Purge Volume Units	Gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Extraction port	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	None
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	02/19/2020	EB Sample ID	
Sample Time	12:48	EB Time	
Sample ID	TW-02D-Q120	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	2	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	02/19/2020

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)
12:43	1	5	20.1	8.09	5283	129	3.65	2		2.86	3.43

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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	

Photos and Drawings

Site: PGE Topock
Topock, CA

**Site: PGE Topock
Topock, CA**

TW-03D

Date	<u>02/05/2020</u>	Sampler	<u>Jed DiCamillio</u>
Weather Conditions	<u>Sunny</u>	Color	<u></u>
Purge Method	<u>Extraction Port</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>gal</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>Extraction port</u>	Measured Well Depth (ft bmp)	<u></u>
Casing Material	<u>PVC</u>	Odor	<u></u>
Did Well Dewater?	<u>No</u>	Pump Intake Depth (ft bmp)	<u></u>
Sample Date	<u>02/05/2020</u>	Total Volume to Remove	<u></u>
Sample Time	<u>08:05</u>	EB Sample ID	<u></u>
Sample ID	<u>TW-03D-Q120</u>	EB Time	<u></u>
		MS/MSD Sample ID	<u></u>
		MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>02/05/2020</u>

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:05	1	5	23.1	7.52	7632	97.8	3.24	9			

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?			X	
Standing or Poned 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		

Photos and Drawings

Site: PGE Topock
Topock, CA

**Site: PGE Topock
Topock, CA**

C-BNS-D

Date	02/20/2020	Sampler	<hr/>
		Color	<hr/>
		Casing Volume to Remove	<hr/>
		Depth to Water (ft bmp)	<hr/>
		Gallons in Well	<hr/>
		Measured Well Depth (ft bmp)	<hr/>
		Odor	<hr/>
		Pump Intake Depth (ft bmp)	<hr/>
		Total Volume to Remove	<hr/>
		EB Sample ID	<hr/>
		EB Time	<hr/>
		MS/MSD Sample ID	<hr/>
		MS/MSD Sample Time	<hr/>
		Double Filter Turbidity	<hr/>
		Post Sampling Turbidity	<hr/>
		Purge Date	02/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-CON-D

Date	02/17/2020	Sampler	,Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	20.16
Water Quality Meter	YSI	Gallons in Well	15.98
Sampling Type	Low Flow – Grundfos RF2, River Sample	Measured Well Depth (ft bmp)	118.11,9
Casing Material	PVC	Odor	None
Casing Diameter (in)		Pump Intake Depth (ft bmp)	,8
Water Column in Well	97.95	Total Volume to Remove	
Comments	2105630.90' N, 7614086.38' E	EB Sample ID	
Did Well Dewater?	No	EB Time	
Sample Date	02/20/2020	MS/MSD Sample ID	
Sample Time	09:17	MS/MSD Sample Time	
Sample ID	C-CON-D-Q120	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	3	Purge Date	02/17/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:16	500	500	12.0	8.14	923	181	8.88	3		0.46	0.59
15:50											
15:54											
16:03											

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

Photos and Drawings



**Site: PGE Topock
Topock, CA**

C-CON-S

Date	<u>02/17/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u></u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>MI</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>1</u>
Comments	<u>2105630.90' N, 7614086.38' E</u>	Odor	<u></u>
Did Well Dewater?	<u>No</u>	Pump Intake Depth (ft bmp)	<u>1</u>
Sample Date	<u>02/20/2020</u>	Total Volume to Remove	<u></u>
Sample Time	<u>09:31</u>	EB Sample ID	<u></u>
Sample ID	<u>C-CON-S-Q120</u>	EB Time	<u></u>
Duplicate Sample ID	<u>Mw-905-q120</u>	MS/MSD Sample ID	<u></u>
Dup Sample Time	<u>09:41</u>	MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>02/17/2020</u>

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)
09:30	500	500	11.9	8.15	920	183	8.11	3		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-I-3-D

Date	<u>02/19/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u> </u>
Purge Volume Units	<u>MI</u>	Depth to Water (ft bmp)	<u> </u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u> </u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>12</u>
Comments	<u>2101056.40' N, 7617739.13' E</u>	Odor	<u>None</u>
Did Well Dewater?	<u>No</u>	Pump Intake Depth (ft bmp)	<u>11</u>
Sample Date	<u>02/19/2020</u>	Total Volume to Remove	<u> </u>
Sample Time	<u>08:58</u>	EB Sample ID	<u> </u>
Sample ID	<u>C-I-3-D-Q120</u>	EB Time	<u> </u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample ID	<u> </u>
Without Filter Turbidity	<u>3</u>	MS/MSD Sample Time	<u> </u>
		Double Filter Turbidity	<u> </u>
		Post Sampling Turbidity	<u> </u>
		Purge Date	<u>02/19/2020</u>

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)
08:57	500	500	11.5	8.14	942	152	8.23	3		0.46	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-MAR-D

Date	<u>02/20/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u> </u>
Purge Volume Units	<u>MI</u>	Depth to Water (ft bmp)	<u> </u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u> </u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>4</u>
Comments	<u>2102571.09' N, 7617738.12' E</u>	Odor	<u>None</u>
Did Well Dewater?	<u>No</u>	Pump Intake Depth (ft bmp)	<u>3</u>
Sample Date	<u>02/20/2020</u>	Total Volume to Remove	<u> </u>
Sample Time	<u>07:58</u>	EB Sample ID	<u> </u>
Sample ID	<u>C-MAR-D-Q120</u>	EB Time	<u> </u>
Single Filter Turbidity	<u>2</u>	MS/MSD Sample ID	<u> </u>
Without Filter	<u>6</u>	MS/MSD Sample Time	<u> </u>
Turbidity		Double Filter Turbidity	<u> </u>
		Post Sampling Turbidity	<u> </u>
		Purge Date	<u>02/20/2020</u>

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)
07:57	500	500	11.3	8.04	948	157	8.81	6		0.47	0.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR1-D

Date	<u>02/20/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u> </u>
Purge Volume Units	<u>MI</u>	Depth to Water (ft bmp)	<u> </u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u> </u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>9</u>
Comments	<u>2106030.54' N, 7613279.71' E</u>	Odor	<u>None</u>
Did Well Dewater?	<u>No</u>	Pump Intake Depth (ft bmp)	<u>8</u>
Sample Date	<u>02/20/2020</u>	Total Volume to Remove	<u> </u>
Sample Time	<u>09:59</u>	EB Sample ID	<u> </u>
Sample ID	<u>C-NR1-D-Q120</u>	EB Time	<u> </u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample ID	<u> </u>
Without Filter Turbidity	<u>2</u>	MS/MSD Sample Time	<u> </u>
		Double Filter Turbidity	<u> </u>
		Post Sampling Turbidity	<u> </u>
		Purge Date	<u>02/20/2020</u>

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)
09:58	500	500	11.9	8.13	921	186	8.97	2		0.46	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR1-S

Date	<u>02/20/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>MI</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>1</u>
Comments	<u>2106030.54' N, 7613279.71' E</u>	Odor	<u>None</u>
Did Well Dewater?	<u>No</u>	Pump Intake Depth (ft bmp)	<u>1</u>
Sample Date	<u>02/20/2020</u>	Total Volume to Remove	<u></u>
Sample Time	<u>10:08</u>	EB Sample ID	<u></u>
Sample ID	<u>C-NR1-S-Q120</u>	EB Time	<u></u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample ID	<u></u>
Without Filter Turbidity	<u>4</u>	MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>02/20/2020</u>

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)
10:07	500	500	12.0	8.13	920	186	8.58	4		0.46	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R27-S

Date	<u>02/19/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>MI</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>1</u>
Comments	<u>2102558.37' N, 7616719.74' E</u>	Odor	<u>None</u>
Did Well Dewater?	<u>No</u>	Pump Intake Depth (ft bmp)	<u>1</u>
Sample Date	<u>02/19/2020</u>	Total Volume to Remove	<u></u>
Sample Time	<u>11:08</u>	EB Sample ID	<u></u>
Sample ID	<u>C-R27-S-Q120</u>	EB Time	<u></u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample ID	<u></u>
Without Filter Turbidity	<u>4</u>	MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>02/19/2020</u>

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)
11:07	500	500	13.1	8.07	947	135	8.33	4		0.47	0.61

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

C-BNS

C-BNS - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	13
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	12		
Sampler	Riggie	Casing Volume to Remove			
Comments	2102141.96' N, 7616946.20' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:29	500	500	13.2	8.19	943	132	8.50	3		0.61	0.47

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	10:30	Post Sampling Turbidity	
Sample ID	C-BNS-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	Ambient 2 taken @ c-bns

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-CON-D

C-CON-D - 02/17/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	20.16
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	118.11
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	97.95
Purge Volume Units	MI	Casing Diameter (in)		Gallons in Well	15.98
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)		Total Volume to Remove	
Sampler		Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)

Sampling Summary

Did Well Dewater?		Field Parameters only- No Sample?	
Sample Date		Post Sampling Turbidity	
Sample Time		Double Filter Turbidity	
Sample ID		Single Filter Turbidity	
Duplicate Sample ID		Without Filter Turbidity	
Dup Sample Time		MS/MSD Sample Time	
Color		MS/MSD Sample ID	
Odor		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

C-CON-D



Feb 17, 2020 03:42:55 PM
Location: C-CON-D Latitude: 34.72249, Longitude: -114.492106

C-CON-D - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	9
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	8		
Sampler	Riggie	Casing Volume to Remove			
Comments	2105630.90' N, 7614086.38' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:16	500	500	12.0	8.14	923	181	8.88	3		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	0
Sample Date	02/20/2020	Post Sampling Turbidity	
Sample Time	09:17	Double Filter Turbidity	
Sample ID	C-CON-D-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	3
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	None	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-CON-D



Feb 17, 2020 03:42:55 PM
Location: C-CON-D Latitude: 34.72249, Longitude: -114.492106

C-CON-S

C-CON-S - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2105630.90' N, 7614086.38' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:30	500	500	11.9	8.15	920	183	8.11	3		0.59	0.45

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	09:31	Post Sampling Turbidity	
Sample ID	C-CON-S-Q120	Double Filter Turbidity	
Duplicate Sample ID	Mw-905-q120	Single Filter Turbidity	
Dup Sample Time	09:41	Without Filter Turbidity	
Color		MS/MSD Sample Time	
Odor		MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-I-3-D

C-I-3-D - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	12
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	11		
Sampler	Riggie	Casing Volume to Remove			
Comments	2101056.40' N, 7617739.13' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:57	500	500	11.5	8.14	942	152	8.23	3		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	08:58	Post Sampling Turbidity	
Sample ID	C-I-3-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-I-3-S

C-I-3-S - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2101056.40' N, 7617739.13' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:11	500	500	11.5	8.18	9	154	8.38	3		0.59	0.45

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	09:12	Post Sampling Turbidity	
Sample ID	C-I-3-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-MAR-D

C-MAR-D - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	4
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	3		
Sampler	Riggie	Casing Volume to Remove			
Comments	2102571.09' N, 7617738.12' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
07:57	500	500	11.3	8.04	948	157	8.81	6		0.61	0.47

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	07:58	Post Sampling Turbidity	
Sample ID	C-MAR-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	2
Dup Sample Time		Without Filter Turbidity	6
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-MAR-S

C-MAR-S - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2102571.09' N, 7617738.12' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:08	500	500	11.4	8.05	945	168	8.20	7		0.61	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	08:09	Post Sampling Turbidity	
Sample ID	C-MAR-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	2
Dup Sample Time		Without Filter Turbidity	7
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-NR1-D

C-NR1-D - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	9
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	8		
Sampler	Riggie	Casing Volume to Remove			
Comments	2106030.54' N, 7613279.71' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:58	500	500	11.9	8.13	921	186	8.97	2		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	09:59	Post Sampling Turbidity	
Sample ID	C-NR1-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-NR1-S

C-NR1-S - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2106030.54' N, 7613279.71' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:07	500	500	12.0	8.13	920	186	8.58	4		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	10:08	Post Sampling Turbidity	
Sample ID	C-NR1-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	4
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-NR3-D

C-NR3-D - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	7
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	6		
Sampler	Riggie	Casing Volume to Remove			
Comments	2106756.30' N, 7611724.31' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:27	500	500	12.1	8.13	919	189	8.46	3		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	10:28	Post Sampling Turbidity	
Sample ID	C-NR3-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-NR3-S

C-NR3-S - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2106756.30' N, 7611724.31' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:36	500	500	12.0	8.11	918	190	8.31	5		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	10:37	Post Sampling Turbidity	
Sample ID	C-NR3-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	5
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-NR4-D

C-NR4-D - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	10
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	9		
Sampler	Riggie	Casing Volume to Remove			
Comments	2108625.70' N, 7607994.66' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:02	500	500	11.9	8.08	918	192	8.10	3		0.59	0.45

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	11:03	Post Sampling Turbidity	
Sample ID	C-NR4-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-NR4-S

C-NR4-S - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2108625.70' N, 7607994.66' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:11	500	500	11.8	8.07	916	194	8.33	2		0.59	0.45

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	11:12	Post Sampling Turbidity	
Sample ID	C-NR4-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	Ambient blank 3 taken @ c-nr4

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-R22A-D

C-R22A-D - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	4.5
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type		Pump Intake Depth (ft bmp)	4		
Sampler	Riggie	Casing Volume to Remove			
Comments	2101640.49' N, 7616970.14' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:55	500	500	13.1	8.13	943	144	8.49	2		0.61	0.47

Sampling Summary

Did Well Dewater?	NA	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	09:56	Post Sampling Turbidity	
Sample ID	C-R22A-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-R22A-S

C-R22A-S - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2101640.49' N, 7616970.14' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:07	500	500	14.0	8.14	923	132	8.17	3		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	10:08	Post Sampling Turbidity	
Sample ID	C-R22A-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-R27-D

C-R27-D - 02/19/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Measured Well Depth (ft bmp)	<u>4.5</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Water Column in Well	<u> </u>
Purge Method	<u>Low Flow</u>	Casing Material	<u> </u>	Gallons in Well	<u> </u>
Purge Volume Units	<u>MI</u>	Casing Diameter (in)	<u> </u>	Total Volume to Remove	<u> </u>
Sampling Type	<u>River Sample</u>	Pump Intake Depth (ft bmp)	<u>3</u>	Casing Volume to Remove	<u> </u>
Sampler	<u>Riggie</u>				
Comments	<u>2102558.37' N, 7616719.74' E</u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:48	500	500	13.6	8.07	950	131	8.21	4		0.61	0.47

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No	<u>0</u>
Sample Date	<u>02/19/2020</u>	Sample?	<u> </u>
Sample Time	<u>10:49</u>	Post Sampling Turbidity	<u> </u>
Sample ID	<u>C-R27-D-Q120</u>	Double Filter Turbidity	<u> </u>
Duplicate Sample ID	<u>Mw-906-q120</u>	Single Filter Turbidity	<u> </u>
Dup Sample Time	<u>10:59</u>	Without Filter Turbidity	<u> </u>
Color	<u> </u>	MS/MSD Sample Time	<u> </u>
Odor	<u> </u>	MS/MSD Sample ID	<u> </u>
		EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-R27-S

C-R27-S - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2102558.37' N, 7616719.74' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:07	500	500	13.1	8.07	947	135	8.33	4		0.61	0.47

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	11:08	Post Sampling Turbidity	
Sample ID	C-R27-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	4
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-TAZ-D

C-TAZ-D - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	12
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	11		
Sampler	Riggie	Casing Volume to Remove			
Comments	2100867.46' N, 7618856.05' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:10	500	500	11.6	8.13	943	133	8.76	3		0.61	0.47

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	08:15	Post Sampling Turbidity	
Sample ID	C-TAZ-D-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

C-TAZ-S

C-TAZ-S - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2100867.46' N, 7618856.05' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:31	500	500	11.4	8.14	921	149	8.28	2		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	08:32	Post Sampling Turbidity	
Sample ID	C-TAZ-S-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

MW-10D

MW-10D - 02/24/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	77.00
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	127.45
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	50.45
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	8.23
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	115.5	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:54	500	2000	29.6	6.87	4103	-0.6	2.12	12	77.11	2.67	2.17
13:58	500	4000	29.9	6.85	4133	-3.4	1.88	4	77.11	2.67	2.17
14:02	500	6000	29.9	6.85	4116	-5.9	1.86	2	77.11	2.68	2.17
14:06	500	8000	29.9	6.84	4147	-11.5	1.80	2	77.11	2.69	2.17
14:10	500	10000	29.8	6.85	4123	-12.4	1.77	2	77.11	2.69	2.17

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/24/2020	Post Sampling Turbidity	
Sample Time	14:11	Double Filter Turbidity	
Sample ID	MW-10D-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	2
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-11D

MW-11D - 02/24/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	68.21
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material	PVC	Gallons in Well	
Purge Volume Units	ml	Casing Diameter (in)	2	Total Volume to Remove	
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	121	Casing Volume to Remove	
Sampler	Matt trainotti				
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:36	500	2000	30.2	6.82	5865	-10.4	1.58	10	68.34	3.82	3.16
14:40	500	4000	30.3	6.82	5861	-13.2	2.75	4	68.34	3.81	3.16
14:44	500	6000	30.3	6.82	5732	-17.0	3.15	2	68.34	3.73	3.08
14:48	500	8000	30.3	6.83	5690	-18.1	3.22	2	68.34	3.70	3.06
14:52	500	10000	30.3	6.82	5644	-19.0	3.30	2	68.34	3.69	3.08

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/24/2020	Post Sampling Turbidity	
Sample Time	14:53	Double Filter Turbidity	
Sample ID	MW-11D-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	2
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	15:00
		EB Sample ID	EB-714-Q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-34-100

MW-34-100 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	8.15
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	99.96
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	91.81
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	14.97
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	94	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
15:00	500	2000	19.4	7.65	10529	-55	0.30	10	8.20	6.85	5.98
15:04	500	4000	19.5	7.66	10832	-60	0.19	6	8.20	7.06	6.18
15:08	500	6000	19.5	7.68	11367	-62	0.15	5	8.20	7.39	6.50
15:12	500	8000	19.6	7.68	11674	-63	0.12	5	8.20	7.60	6.69
15:16	500	10000	19.6	7.68	11724	-64	0.12	5	8.20	7.61	6.71

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	15:17	Post Sampling Turbidity	
Sample ID	MW-34-100-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	2
Dup Sample Time		Without Filter Turbidity	5
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	15:30
		EB Sample ID	Eb-710-q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-38S

MW-38S - 02/25/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	72.31
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material	PVC	Gallons in Well	
Purge Volume Units	ml	Casing Diameter (in)	2	Total Volume to Remove	
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	85	Casing Volume to Remove	
Sampler	Matt trainotti				
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:29	500	2000	30.0	7.15	1762	1.3	0.88	10	72.44	1.08	0.83
09:33	500	4000	30.3	7.16	1736	0.3	0.66	5	72.44	1.05	0.81
09:37	500	6000	29.9	7.16	1708	-2.7	0.50	4	72.44	1.06	0.82
09:40	500	8000	29.9	7.16	1714	-3.6	0.51	4	72.44	1.04	0.81
09:44	500	10000	29.9	7.16	1722	-4.0	0.51	4	72.44	1.04	0.82

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/25/2020	Post Sampling Turbidity	
Sample Time	09:45	Double Filter Turbidity	
Sample ID	MW-38S-Q120	Single Filter Turbidity	1
Duplicate Sample ID	MW-901-Q120	Without Filter Turbidity	3
Dup Sample Time	09:55	MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-44-115

MW-44-115 - 02/21/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	19.42
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	115.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	95.58
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	15.59
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	110	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:38	500	2000	20.4	7.47	11335	-62	0.26	10	19.55	7.34	6.45
08:42	500	4000	20.5	7.43	10946	-66	0.18	10	19.55	7.11	6.22
08:46	500	6000	20.6	7.41	10852	-70	0.15	9	19.55	7.05	6.17
08:50	500	8000	20.6	7.42	10773	-73	0.13	9	19.55	7.00	6.12
08:54	500	10000	20.6	7.42	10764	-75	0.12	9	19.55	6.99	6.11

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/21/2020	Sample?	
Sample Time	08:55	Post Sampling Turbidity	
Sample ID	MW-44-115-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	3
Dup Sample Time		Without Filter Turbidity	9
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-44-115



MW-46-175

MW-46-175 - 02/21/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	29.62
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	175.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	145.38
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	23.71
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	170	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
07:54	500	2000	20.1	7.65	18672	-30	0.45	4	29.70	12.14	11.11
07:57	500	10000	20.0	7.59	18662	-47	0.25	4	29.70	12.12	11.09
07:58	500	4000	20.0	7.63	18663	-36	0.33	4	29.70	12.13	11.10
08:02	500	6000	20.0	7.60	18656	-40	0.28	4	29.70	12.12	11.09
08:06	500	8000	20.0	7.59	18668	-44	0.26	4	29.70	12.12	11.09

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/21/2020	Sample?	
Sample Time	08:11	Post Sampling Turbidity	
Sample ID	MW-46-175-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	4
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

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

MW-46-175



Feb 21, 2020 07:51:15 AM
Location: MW-46-175 Latitude: 34.720364, Longitude: -114.489951

MW-57-050

MW-57-050 - 02/21/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	51.00
Gauge or Sample	Gauge	Water Quality Meter		Water Column in Well	
Purge Method		Casing Material	PVC	Gallons in Well	
Purge Volume Units		Casing Diameter (in)	2	Total Volume to Remove	
Sampling Type		Pump Intake Depth (ft bmp)			
Sampler	Riggie	Casing Volume to Remove			
Comments	Well is dry				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:56	0	0									

Sampling Summary

Did Well Dewater?	NA	Field Parameters only- No Sample?	1
Sample Date		Post Sampling Turbidity	
Sample Time		Double Filter Turbidity	
Sample ID		Single Filter Turbidity	
Duplicate Sample ID		Without Filter Turbidity	
Dup Sample Time		MS/MSD Sample Time	
Color		MS/MSD Sample ID	
Odor		EB Time	
		EB Sample ID	
		Remarks	Well is dry

Well Integrity Checklist

Item	Yes	No	NA	Notes
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	
Remarks				Well is dry

MW-58BR

MW-58BR - 02/17/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	66.72
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	200.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	133.28
Purge Volume Units	MI	Casing Diameter (in)	6	Gallons in Well	195.65
Sampling Type	Low Flow – QED Bladder Pump	Pump Intake Depth (ft bmp)	180	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
15:49	500	2000	27.0	7.14	8316	52	0.70	3	66.80	5.40	4.60
15:53	500	4000	26.8	7.15	8308	51	0.69	3	66.80	5.39	4.58
15:57	500	6000	26.7	7.15	8296	51	0.66	3	66.80	5.38	4.59
16:01	500	8000	26.8	7.15	8290	50	0.64	3	66.80	5.38	4.59
16:05	500	10000	27.0	7.16	8285	50	0.59	3	66.80	5.38	4.59

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/17/2020	Sample?	
Sample Time	16:06	Post Sampling Turbidity	
Sample ID	MW-58BR-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-60BR-245-3V

MW-60BR-245-3V - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	99.91
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	245.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	145.09
Purge Volume Units	gal	Casing Diameter (in)	5	Gallons in Well	147.91
Sampling Type	Volume Purge – Grundfos RF2	Pump Intake Depth (ft bmp)	230	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:50	2.5	80	26.5	7.31	17456	5.9	0.90	3	120.22	11.44	10.39
14:23	2.5	160	27.0	7.33	17609	3.8	0.79	2	144.6	11.46	10.42
14:55	2.5	240	27.1	7.35	17598	3.0	0.68	3	176.9	11.48	10.38
15:27	2.5	320	27.1	7.36	17776	-2.4	0.62	2	200.78	11.55	10.49
15:59	2.5	400	27.1	7.36	17859	-8.8	0.55	2	236.7	11.61	10.52

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/20/2020	Post Sampling Turbidity	
Sample Time	16:00	Double Filter Turbidity	
Sample ID	MW-60BR-245-3V-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	2
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-60BR-245-LF_D

MW-60BR-245-LF_D - 02/21/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	100.90
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	245.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	144.10
Purge Volume Units	ml	Casing Diameter (in)	5	Gallons in Well	146.90
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	238.0	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:52	500	2000	27.1	7.23	17893	9.7	0.39	2	101.10	11.63	10.54
08:56	500	4000	27.2	7.23	17838	10.7	0.35	2	101.10	11.67	10.56
09:00	500	6000	27.5	7.23	17909	10.8	0.27	2	101.10	11.65	10.54
09:04	500	8000	27.2	7.23	17883	10.8	0.26	2	101.10	11.65	10.54
09:08	500	10000	27.2	7.23	17909	11.1	0.25	2	101.10	11.65	10.54

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/21/2020	Post Sampling Turbidity	
Sample Time	09:09	Double Filter Turbidity	
Sample ID	MW-60BR-245-LF_D-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	2
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-60BR-245-LF_S

MW-60BR-245-LF_S - 02/21/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	100.71
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	245.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	144.29
Purge Volume Units	ml	Casing Diameter (in)	5	Gallons in Well	147.09
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	175	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:06	500	2000	25.8	7.33	17857	-8.0	0.56	2	100.90	11.60	10.52
08:10	500	4000	25.5	7.34	17887	-11.4	0.42	2	100.90	11.62	10.53
08:14	500	6000	25.6	7.34	17908	-10.8	0.40	2	100.90	11.62	10.55
08:18	500	8000	25.6	7.34	17934	-7.7	0.37	2	100.90	11.62	10.55
08:22	500	10000	25.6	7.34	18034	-7.0	0.35	2	100.90	11.66	10.54

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/21/2020	Post Sampling Turbidity	
Sample Time	08:23	Double Filter Turbidity	
Sample ID	MW-60BR-245-LF_S-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	2
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-62-065

MW-62-065 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	50.11
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	65.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	14.89
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	2.43
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	54.5	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:26	500	2000	26.4	7.31	6282	5.7	4.41	33	50.37	4.09	3.43
08:30	500	4000	27.7	7.26	6372	1.2	4.35	25	50.37	4.14	3.45
08:34	500	6000	27.8	7.20	6423	0.4	3.95	18	50.37	4.16	3.47
08:38	500	8000	27.8	7.18	6409	2.0	3.88	18	50.37	4.16	3.50
08:42	500	10000	27.8	7.17	6416	2.7	3.84	18	50.37	4.16	3.50

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/19/2020	Post Sampling Turbidity	
Sample Time	08:43	Double Filter Turbidity	1
Sample ID	MW-62-065-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	18
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-62-110

MW-62-110 - 02/17/2020

Location	Topock	Weather Conditions	Sunny	Water Column in Well	_____
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Gallons in Well	_____
Purge Method	Low Flow	Casing Material	PVC	Total Volume to Remove	_____
Purge Volume Units	Gal	Casing Diameter (in)	_____		
Sampling Type	_____	Pump Intake Depth (ft bmp)	_____		
Sampler	Riggie	Casing Volume to Remove	_____		
Comments	_____				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:05	0.5	1.5	28.1	8.03	8880	-30	0.26	5		5.77	4.93
15:33	0.5	3.0	27.9	8.13	9896	-34	0.30	5		6.43	5.54

Sampling Summary

Did Well Dewater?	Field Parameters only- No Sample?
Sample Date	Post Sampling Turbidity
Sample Time	Double Filter Turbidity
Sample ID	Single Filter Turbidity
Duplicate Sample ID	Without Filter Turbidity
Dup Sample Time	MS/MSD Sample Time
Color	MS/MSD Sample ID
Odor	EB Time
	EB Sample ID
	Remarks

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

MW-63-065

MW-63-065 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	51.22
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	65.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	13.78
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	2.25
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	56	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:16	300	1200	25.5	7.09	7376	11.1	0.63	30	51.44	4.77	4.04
09:20	300	2400	25.7	7.11	7280	10.1	0.70	22	51.44	4.73	4.00
09:24	300	3600	25.7	7.12	7207	9.6	0.73	18	51.44	4.71	3.97
09:28	300	4800	25.7	7.12	7143	8.8	0.81	18	51.44	4.68	3.92
09:32	500	10000	27.4	7.03	7032	7.4	1.02	28	51.44	4.56	3.84

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/19/2020	Post Sampling Turbidity	
Sample Time	09:33	Double Filter Turbidity	1
Sample ID	MW-63-065-Q120	Single Filter Turbidity	1
Duplicate Sample ID	MW-902-Q120	Without Filter Turbidity	18
Dup Sample Time	09:43	MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-64BR

MW-64BR - 02/21/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	121.60
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	258.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	136.40
Purge Volume Units	ml	Casing Diameter (in)	6	Gallons in Well	200.23
Sampling Type	Low Flow – QED Bladder Pump	Pump Intake Depth (ft bmp)	QED	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:58	200	800	24.2	6.85	13901	-12.4	3.00	5	121.71	9.04	8.04
10:02	200	1600	24.0	6.90	13904	-12.9	1.05	4	121.71	9.03	8.03
10:06	200	2400	24.6	6.97	13912	-1.3	0.40	4	121.71	9.02	8.02
10:10	200	3200	24.7	7.00	13903	-4.7	0.37	4	121.71	9.04	8.04
10:14	200	4000	24.7	7.00	13902	-5.0	0.35	4	121.71	9.04	8.04

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/21/2020	Post Sampling Turbidity	
Sample Time	10:15	Double Filter Turbidity	
Sample ID	MW-64BR-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	4
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-65-160

MW-65-160 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	142.23
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	160.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	17.77
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	2.90
Sampling Type	Low Flow – QED Bladder Pump	Pump Intake Depth (ft bmp)	155	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cumulative Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:55	500	2000	23.5	7.16	4062	8.5	3.80	21	142.32	2.64	2.15
08:59	500	4000	23.6	7.07	4117	-0.9	3.32	14	142.32	2.68	2.18
09:03	500	6000	23.4	7.02	4116	-3.5	3.17	12	142.32	2.68	2.18
09:07	500	8000	23.5	7.00	4116	-4.2	3.14	12	142.32	2.68	2.18
09:11	500	10000	23.5	7.00	4118	-5.0	3.13	12	142.32	2.68	2.18

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/20/2020	Post Sampling Turbidity	
Sample Time	09:12	Double Filter Turbidity	1
Sample ID	MW-65-160-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	12
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-65-225

MW-65-225 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	141.91
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	225.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	83.09
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	13.55
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	215	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:57	500	2000	26.7	7.01	6389	3.4	2.42	18	142.00	4.16	3.47
10:01	500	4000	28.7	6.96	6422	-13.9	2.31	12	142.00	4.18	3.49
10:05	500	6000	28.5	6.94	6494	-15.6	2.23	10	142.00	4.18	3.50
10:09	500	8000	28.5	6.94	6482	-16.1	2.20	10	142.00	4.20	3.51
10:13	500	10000	28.5	6.95	6498	-16.2	2.18	10	142.00	4.20	3.50

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/20/2020	Post Sampling Turbidity	
Sample Time	10:14	Double Filter Turbidity	
Sample ID	MW-65-225-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	10
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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			

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-68-180

MW-68-180 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	166.74
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	QED
Purge Method	Low Flow	Casing Material		Water Column in Well	
Purge Volume Units	ml	Casing Diameter (in)		Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Pump Intake Depth (ft bmp)		Total Volume to Remove	
Sampler		Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:15	500	2000	23.6	7.15	5507	10.9	5.97	9	166.80	3.58	2.98
11:19	500	2000	22.2	7.17	5359	18.1	6.60	6	166.80	3.47	2.88
11:23	500	6000	23.1	7.17	5372	17.9	6.65	4	166.80	3.49	2.90
11:27	500	8000	23.1	7.17	5379	16.9	6.63	4	166.80	3.49	2.91
11:31	500	10000	23.1	7.17	5379	16.3	6.62	4	166.80	3.49	2.90

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?
Sample Date	02/20/2020	Post Sampling Turbidity
Sample Time	11:32	Double Filter Turbidity
Sample ID	MW-68-180-Q120	Single Filter Turbidity
Duplicate Sample ID		Without Filter Turbidity
Dup Sample Time		MS/MSD Sample Time
Color	Clear	MS/MSD Sample ID
Odor	none	EB Time
		EB Sample ID
		Remarks

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-69-195

MW-69-195 - 02/25/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	176.21
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	195.29
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Pump Intake Depth (ft bmp)	186	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:19	500	2000	25.9	7.18	2678	0.8	4.73	19	176.30	1.74	1.38
12:23	500	4000	26.6	7.13	2703	-3.3	4.66	12	176.30	1.76	1.39
12:27	500	6000	27.0	7.07	2686	-4.6	4.56	7	176.30	1.74	1.38
12:31	500	8000	27.0	7.05	2728	-5.2	4.53	7	176.30	1.76	1.39
12:35	500	10000	27.0	7.05	2697	-5.6	4.50	7	176.30	1.75	1.38

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/25/2020	Post Sampling Turbidity	
Sample Time	12:36	Double Filter Turbidity	
Sample ID	MW-69-195-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	7
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-72-080

MW-72-080 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	59.87
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	80
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	20.13
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	3.28
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	70	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:50	500	2000	28.8	7.40	18794	114.6	1.21	15	59.93	12.2	11.0
14:54	500	4000	28.8	7.38	18783	112.5	1.09	10	59.95	12.2	11.0
14:58	500	6000	28.8	7.37	18791	109.3	0.95	7	59.96	12.2	11.0
15:02	500	8000	28.9	7.35	18812	109.0	0.94	7	59.97	12.2	11.0
15:06	500	10000	29.0	7.35	18818	108.7	0.95	7	59.97	12.2	11.0

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	15:10	Post Sampling Turbidity	
Sample ID	MW-72-080-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	
Dup Sample Time		Without Filter Turbidity	7
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	15:30
		EB Sample ID	EB-709-Q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-72BR-200

MW-72BR-200 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	59.80
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	200
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	140.2
Purge Volume Units	MI	Casing Diameter (in)	6	Gallons in Well	205.81
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	152	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:00	500	2000	26.3	7.52	17554	-35.6	1.10	11	59.88	11.4	10.3
14:04	500	4000	26.6	7.52	17620	-46.5	0.73	8	59.91	11.4	10.3
14:08	500	6000	26.8	7.47	17672	-55.2	0.69	7	59.91	11.4	10.3
14:12	500	8000	26.9	7.47	17669	-57.6	0.65	7	59.91	11.4	10.3
14:16	500	10000	27.0	7.44	17670	-58.6	0.63	7	59.91	11.4	10.3

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	14:20	Post Sampling Turbidity	
Sample ID	MW-72BR-200-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	0
Dup Sample Time		Without Filter Turbidity	7
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-72BR-200



MW-73-080

MW-73-080 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	52.37
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	81
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	28.63
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	4.67
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	70	Total Volume to Remove	
Sampler	KT	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:52	500	2000	27.4	7.21	11600	18.4	1.65	12	52.44	7.55	6.58
12:56	500	4000	27.8	7.21	11582	18.8	1.49	9	52.47	7.54	6.57
13:00	500	6000	28.2	7.22	11612	18.8	1.42	8	52.47	7.54	6.57
13:04	500	8000	28.2	7.22	11600	18.8	1.39	8	52.47	7.54	6.57
13:08	500	10000	28.3	7.22	11623	18.8	1.32	8	52.47	7.54	6.57
13:11	500	12000	28.3	7.22	11618	18.8	1.29	8	52.47	7.54	6.57

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	13:18	Post Sampling Turbidity	
Sample ID	MW-73-080-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	0
Dup Sample Time		Without Filter Turbidity	8
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?	X			
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

MW-73-080



MW-75-033

MW-75-033 - 02/17/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	20.02
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	34.80
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	14.78
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	2.41
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	26	Total Volume to Remove	
Sampler	KT	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:52	500	2000	26.8	7.13	3841	22.2	1.53	112	20.20	2.47	2.00
14:56	500	4000	26.7	7.15	3814	22.3	1.49	51	20.20	2.47	2.00
15:00	500	6000	26.8	7.15	3822	22.3	1.49	19	20.20	2.47	2.00
15:04	500	8000	26.7	7.15	3824	22.3	1.49	17	20.20	2.47	2.00
15:08	500	10000	26.7	7.15	3822	22.3	1.46	17	20.20	2.47	2.00
15:12	500	12000	26.7	7.15	3822	22.4	1.46	17	20.20	2.47	2.0

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/17/2020	Sample?	
Sample Time	15:20	Post Sampling Turbidity	
Sample ID	MW-75-033-Q120	Double Filter Turbidity	1
Duplicate Sample ID		Single Filter Turbidity	2
Dup Sample Time		Without Filter Turbidity	17
Color		MS/MSD Sample Time	
Odor		MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?		X		

MW-75-033



MW-75-117

MW-75-117 - 02/17/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	20.16
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	118.11
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	97.95
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	15.98
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	107	Total Volume to Remove	
Sampler	KT	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
15:50	500	2000	26.7	7.13	13770	31.1	0.86	7	20.33	9.07	8.02
15:54	500	4000	26.7	7.14	14005	37.5	0.67	5	20.33	9.07	8.02
15:58	500	6000	26.8	7.14	14007	40.2	0.70	5	20.33	9.07	8.02
16:02	500	8000	26.8	7.14	14008	41.2	0.69	5	20.33	9.07	8.02
16:06	500	10000	26.9	7.14	14011	41.4	0.70	5	20.33	9.07	8.02

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/17/2020	Sample?	
Sample Time	16:15	Post Sampling Turbidity	
Sample ID	MW-75-117-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	5
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	16:25
		EB Sample ID	EB-701
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-75-202

MW-75-202 - 02/17/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>19.95</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>204.31</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>184.36</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>30.07</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>192</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:10	500	2000	27.6	7.08	18802	50.7	0.44	12	20.10	12.20	11.14
14:14	500	4000	27.9	7.11	18753	48.9	0.29	7	20.10	12.18	11.06
14:18	500	6000	28.0	7.11	18651	42.3	0.27	7	20.10	12.11	11.00
14:22	500	8000	28.0	7.12	18607	37.6	0.20	7	20.10	12.08	10.97
14:26	500	10000	28.0	7.12	18599	38.5	0.15	4	20.10	12.07	10.97

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u> </u>
Sample Date	<u>02/17/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>14:27</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-75-202-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>4</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-75-267

MW-75-267 - 02/18/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	20.00
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	268.58
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	248.58
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	40.54
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	257	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:44	500	2000	26.0	7.31	24523	-9.4	0.36	10	20.14	16.17	15.06
08:48	500	4000	26.6	7.36	24704	-2.4	0.31	7	20.14	16.24	15.15
08:56	500	8000	26.8	7.42	25189	6.9	0.24	3	20.14	16.37	15.36
09:00	500	10000	26.8	7.44	25334	9.2	0.22	3	20.14	16.44	15.40

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/18/2020	Post Sampling Turbidity	
Sample Time	09:01	Double Filter Turbidity	
Sample ID	MW-75-267-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	3
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

MW-75-337

MW-75-337 - 02/17/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	21.93
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	338.80
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	316.87
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	51.68
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	327	Total Volume to Remove	
Sampler	KT	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:33	500	2000	26.4	7.36	32864	-94.2	1.57	9	22.00	21.3	20.5
13:37	500	4000	26.7	7.30	32900	-95.9	1.21	7	22.07	21.3	20.5
13:41	500	6000	26.5	7.33	32909	-97.2	1.19	7	22.09	21.3	20.5
13:45	500	8000	26.7	7.33	32914	-97.8	1.15	7	22.09	21.4	20.6
13:49	500	10000	26.7	7.33	32918	-97.7	1.14	7	22.09	21.3	20.6

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/17/2020	Post Sampling Turbidity	
Sample Time	13:57	Double Filter Turbidity	
Sample ID	MW-75-337-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	7
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	None	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

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

MW-75-337



Feb 17, 2020 01:20:34 PM
Location: MW-75-337 Latitude: 34.723023, Longitude: -114.492195

MW-76-039

MW-76-039 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	27.98
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	40
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	12.02
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	1.96
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	31	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:10	500	2000	26.5	7.37	3760	23.9	1.81	71	28.11	2.44	1.97
09:14	500	4000	26.4	7.37	3750	23.4	1.41	54	28.15	2.43	1.97
09:18	500	6000	26.3	7.37	3749	23.5	1.29	49	28.15	2.44	1.98
09:22	500	8000	26.3	7.37	3744	24.2	1.21	45	28.15	2.45	1.99
09:26	500	10000	26.3	7.37	3744	25.6	1.23	45	28.15	2.45	1.99

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	09:33	Post Sampling Turbidity	
Sample ID	MW-76-039-Q120	Double Filter Turbidity	1
Duplicate Sample ID	Mw-909-q120	Single Filter Turbidity	7
Dup Sample Time	09:44	Without Filter Turbidity	44
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-76-039



MW-76-156

MW-76-156 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	28.48
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	156.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	127.52
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	20.8
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	151	Total Volume to Remove	
Sampler	KT	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:17	500	2000	26.7	7.34	17810	21.9	0.89	7	28.66	11.5	10.4
08:21	500	4000	26.6	7.32	17868	21.4	0.82	5	28.67	11.6	10.5
08:25	500	6000	26.6	7.32	17872	21.1	0.76	3	28.67	11.6	10.5
08:29	500	8000	26.6	7.31	17888	22.1	0.73	3	28.67	11.6	10.5
08:33	500	10000	26.6	7.31	17875	22.5	0.72	3	28.67	11.6	10.5

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	08:38	Post Sampling Turbidity	
Sample ID	MW-76-156-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	0
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-76-156



MW-76-181

MW-76-181 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	28.74
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	182
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	153.26
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	25.0
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	176	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:09	500	2000	26.9	7.34	22265	19.8	1.11	9	28.85	14.4	13.3
11:13	500	4000	26.9	7.32	22258	19.5	0.96	6	28.86	14.4	13.3
11:17	500	6000	27.2	7.33	22279	18.1	0.85	6	28.86	14.4	13.3
11:21	500	8000	27.1	7.32	22258	17.6	0.83	6	28.86	14.4	13.3
11:25	500	10000	27.2	7.32	22267	17.9	0.76	6	28.86	14.4	13.3

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	1
Sample Date	02/20/2020	Post Sampling Turbidity	
Sample Time	11:30	Double Filter Turbidity	
Sample ID	MW-76-181-Q120	Single Filter Turbidity	
Duplicate Sample ID		Without Filter Turbidity	6
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	None	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-76-181



Feb 20,2020 11:03:03 AM
Location:MW-76-181 Latitude:34.721214 , Longitude:-114.491429

MW-76-218

MW-76-218 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	28.48
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	218.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	189.52
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	30.91
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	215	Total Volume to Remove	
Sampler	KT	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:20	500	2000	27.2	7.39	25254	25.9	0.41	7	28.56	16.4	15.3
10:24	500	4000	27.3	7.40	25305	24.6	0.44	4	28.61	16.4	15.4
10:28	500	600	27.5	7.42	25323	24.3	0.39	4	28.61	16.4	15.4
10:32	500	8000	27.5	7.42	25332	22.9	0.35	4	28.61	16.4	15.4
10:36	500	10000	27.5	7.42	25339	22.4	0.34	4	28.61	16.4	15.4

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	10:38	Post Sampling Turbidity	
Sample ID	MW-76-218-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	
Dup Sample Time		Without Filter Turbidity	4
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

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

MW-76-218



MW-77-046

MW-77-046 - 02/18/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	26.06
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	48.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	21.94
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	3.58
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	36	Total Volume to Remove	
Sampler	KT	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:30	500	2000	26.0	7.44	11420	111.0	1.47	31	26.12	7.39	6.45
08:34	500	4000	25.8	7.49	12634	168.7	1.29	33	26.12	7.36	6.45
08:38	500	6000	25.9	7.45	12722	107.9	1.41	23	26.12	7.36	6.45
08:42	500	8000	26.0	7.42	12717	104.3	1.39	22	26.12	7.36	6.45
08:46	500	10000	26.0	7.41	12709	104.1	1.34	22	26.12	7.36	6.45
08:50	500	120000	26.0	7.41	12698	102.9	1.31	22	26.12	7.36	6.45

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	1
Sample Date	02/18/2020	Post Sampling Turbidity	
Sample Time	08:58	Double Filter Turbidity	1
Sample ID	MW-77-046-Q120	Single Filter Turbidity	7
Duplicate Sample ID		Without Filter Turbidity	22
Dup Sample Time		MS/MSD Sample Time	
Color		MS/MSD Sample ID	
Odor		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?			X	
Well Casing Intact?	X			
Photo Taken?	X			

MW-77-046



Feb 18, 2020 08:23:31 AM
Location: MW-77-046 Latitude: 34.720388, Longitude: -114.490792

MW-77-102

MW-77-102 - 02/18/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>26.17</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>102</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>75.83</u>
Purge Volume Units	<u>MI</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>12.37</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>92</u>	Total Volume to Remove	<u> </u>
Sampler	<u>KT</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:19	500	2000	25.4	7.42	8855	177.2	1.40	10	26.33	5.72	4.91
09:23	500	4000	25.3	7.42	8846	166.3	1.44	7	26.33	5.74	4.94
09:27	500	6000	25.4	7.42	8851	163.9	1.47	7	26.33	5.77	4.95
09:31	500	8000	25.4	7.42	8853	162.4	1.47	7	26.33	5.77	4.95
09:35	500	10000	25.4	7.42	8860	161.2	1.47	7	26.33	5.77	4.95

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>0</u>
Sample Date	<u>02/18/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>09:40</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-77-102-Q120</u>	Single Filter Turbidity	<u> </u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>7</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>None</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

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

MW-77-102



MW-77-158

MW-77-158 - 02/18/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	26.53
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	159.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	132.47
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	21.61
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	148	Total Volume to Remove	
Sampler	KT	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:26	500	2000	23.6	7.46	21490	19.9	0.61	5	26.72	13.8	12.9
10:30	500	4000	24.0	7.46	21522	20.7	0.59	3	26.72	13.9	12.9
10:34	500	6000	24.1	7.46	21553	21.0	0.59	3	26.72	13.9	12.9
10:38	500	8000	24.2	7.46	21552	21.2	0.59	3	26.72	13.9	12.9
10:42	500	10000	24.4	7.46	21556	21.4	0.59	3	26.72	13.9	12.9

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/18/2020	Sample?	
Sample Time	10:47	Post Sampling Turbidity	
Sample ID	MW-77-158-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	0
Dup Sample Time		Without Filter Turbidity	3
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-77-158



MW-77-187

MW-77-187 - 02/18/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>26.27</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>187.11</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>160.84</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>26.23</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>177</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:07	500	2000	25.7	7.36	22637	18.6	0.27	8	26.40	14.78	13.67
10:11	500	4000	26.2	7.38	22846	14.8	0.21	4	26.40	14.85	13.76
10:15	500	6000	26.0	7.40	22802	10.8	0.11	4	26.40	14.83	13.75
10:19	500	8000	26.0	7.40	22839	9.6	0.14	4	26.40	14.84	13.75
10:23	500	10000	26.0	7.40	22880	10.4	0.14	4	26.40	14.85	13.76

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u> </u>
Sample Date	<u>02/18/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>10:24</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-77-187-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>4</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-78-072

MW-78-072 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	48.75
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	72
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	23.25
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	3.79
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	60	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:11	500	2000	26.9	7.07	2540	50.2	5.39	132	48.82	1.65	1.31
08:15	500	4000	27.3	7.10	2551	50.1	5.22	72	48.85	1.65	1.31
08:19	500	6000	27.7	7.11	2552	49.6	5.18	57	48.85	1.65	1.31
08:23	500	8000	28.2	7.12	2552	48.5	5.15	46	48.85	1.65	1.31
08:27	500	10000	28.3	7.12	2556	47.9	5.15	45	48.85	1.65	1.31
08:31	500	12000	28.4	7.12	2556	47.6	5.12	45	48.85	1.65	1.31

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	0
Sample Date	02/19/2020	Post Sampling Turbidity	
Sample Time	08:35	Double Filter Turbidity	1
Sample ID	MW-78-072-Q120	Single Filter Turbidity	6
Duplicate Sample ID		Without Filter Turbidity	45
Dup Sample Time		MS/MSD Sample Time	
Color		MS/MSD Sample ID	
Odor		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

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

MW-78-072



MW-78-142

MW-78-142 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	48.95
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	143
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	94.05
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	15.34
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	132	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:54	500	2000	28.1	7.31	14015	36.7	1.35	88	49.11	9.10	8.06
08:58	500	4000	28.4	7.20	14413	34.9	1.29	36	49.14	9.30	8.33
09:02	500	6000	28.6	7.14	14422	31.4	1.21	29	49.14	9.30	8.33
09:06	500	8000	28.9	7.14	14431	30.8	1.17	28	49.14	9.30	8.33
09:10	500	10000	28.9	7.14	14436	30.4	1.15	28	49.14	9.30	8.33
09:14	500	12000	28.9	7.14	14439	29.6	1.14	28	49.14	9.30	8.33

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	09:18	Post Sampling Turbidity	
Sample ID	MW-78-142-Q120	Double Filter Turbidity	1
Duplicate Sample ID		Single Filter Turbidity	4
Dup Sample Time		Without Filter Turbidity	28
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

MW-78-142



Feb 19, 2020 08:45:13 AM
Location: MW-78-142 Latitude: 34.718706, Longitude: -114.491268

MW-79-060

MW-79-060 - 02/21/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	48.52
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	60.11
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	11.59
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	1.89
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	55	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:49	500	2000	29.2	7.20	2428	52	3.76	121	48.69	1.57	1.24
10:53	500	4000	29.3	7.17	2445	84	4.57	33	48.69	1.59	1.25
10:57	500	6000	29.3	7.19	2449	88	4.82	35	48.69	1.59	1.25
11:01	500	8000	29.3	7.16	2451	89	4.96	35	48.69	1.59	1.25
11:06	500	10000	29.2	7.16	2453	91	5.03	35	48.69	1.59	1.25

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/21/2020	Sample?	
Sample Time	11:07	Post Sampling Turbidity	
Sample ID	MW-79-060-Q120	Double Filter Turbidity	3
Duplicate Sample ID	Mw-914-q120	Single Filter Turbidity	5
Dup Sample Time	11:17	Without Filter Turbidity	35
Color	Grey	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	11:30
		EB Sample ID	Eb-711-q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

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

MW-79-060



Feb 21, 2020 10:47:37 AM
Location: MW-79-060 Latitude: 34.71779, Longitude: -114.491423

MW-79-104

MW-79-104 - 02/21/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	48.20
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	104.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	55.80
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	9.10
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	90	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:02	500	2000	28.3	7.06	8614	-8.0	1.57	18	48.33	5.60	4.77
11:06	500	4000	28.6	7.05	8653	-8.4	1.36	14	48.33	5.63	4.79
11:10	500	6000	29.3	7.05	8711	-7.6	1.18	8	48.33	5.66	4.83
11:14	500	8000	29.3	7.07	8687	-8.0	1.12	8	48.33	5.64	4.79
11:18	500	10000	29.3	7.05	8723	-8.2	1.10	8	48.33	5.67	4.83

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/21/2020	Post Sampling Turbidity	
Sample Time	11:19	Double Filter Turbidity	
Sample ID	MW-79-104-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	8
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	10:30
		EB Sample ID	EB-712-Q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-80-057

MW-80-057 - 02/24/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>51.22</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>59.85</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	_____
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	_____
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>54.5</u>	Total Volume to Remove	_____
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	_____		
Comments	_____				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:06	500	2000	29.3	6.89	5002	28.2	4.41	90	51.42	3.24	2.65
12:10	500	4000	29.6	6.97	5040	19.7	4.13	56	51.42	3.27	2.68
12:14	500	6000	29.7	6.98	5051	16.9	4.06	10	51.42	3.35	2.75
12:18	500	8000	29.8	6.99	5102	15.5	4.00	10	51.42	3.34	2.74
12:22	500	10000	29.8	7.00	5124	15.2	3.97	10	51.42	3.36	2.77

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>NA</u>
Sample Date	<u>02/24/2020</u>	Post Sampling Turbidity	_____
Sample Time	<u>12:23</u>	Double Filter Turbidity	_____
Sample ID	<u>MW-80-057-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	_____	Without Filter Turbidity	<u>10</u>
Dup Sample Time	_____	MS/MSD Sample Time	_____
Color	<u>Clear</u>	MS/MSD Sample ID	_____
Odor	<u>none</u>	EB Time	_____
		EB Sample ID	_____
		Remarks	_____

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?		X		
Standing or Poned 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	

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-80-082

MW-80-082 - 02/24/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	51.07
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	84.23
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	74.5	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:45	500	2000	29.2	6.95	8517	13.6	3.51	28	51.14	5.61	4.77
12:49	500	4000	29.3	6.88	9157	8.2	3.70	12	51.14	5.95	5.09
12:53	500	6000	29.3	6.86	9143	6.4	3.56	4	51.14	5.96	5.09
12:57	500	8000	29.3	6.85	9098	5.8	3.64	4	51.14	5.90	5.05
13:01	500	10000	29.3	6.83	9080	5.1	3.68	4	51.14	5.96	5.09

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/24/2020	Post Sampling Turbidity	
Sample Time	13:02	Double Filter Turbidity	
Sample ID	MW-80-082-Q120	Single Filter Turbidity	1
Duplicate Sample ID	MW-910-Q120	Without Filter Turbidity	4
Dup Sample Time	13:12	MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?		X		
Standing or Poned 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	

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-81-043

MW-81-043 - 02/18/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	25.52
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	44.61
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	19.09
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	3.11
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	33	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:09	500	8000	25.6	8.24	5921	-28	0.53	9	25.63	3.85	3.21
13:57	500	2000	25.7	8.20	5939	-20	0.55	10	25.63	3.86	3.21
14:01	500	4000	25.6	8.20	5928	-23	0.58	10	25.63	3.85	3.21
14:05	500	6000	25.8	8.24	5884	-27	0.54	9	25.63	3.85	3.21
14:13	500	10000	25.4	8.23	5953	-30	0.52	9	25.63	3.85	3.21

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/18/2020	Sample?	
Sample Time	14:14	Post Sampling Turbidity	
Sample ID	MW-81-043-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	3
Dup Sample Time		Without Filter Turbidity	9
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	16:00
		EB Sample ID	Eb-705-q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-81-098

MW-81-098 - 02/18/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>25.81</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>99.41</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>73.6</u>
Purge Volume Units	<u>MI</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>12.0</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>88</u>	Total Volume to Remove	<u>0.0</u>
Sampler	<u>Riggie</u>	Casing Volume to Remove	<u>0</u>		
Comments	<u></u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:15	500	2000	25.4	7.91	8068	118	2.37	9	25.88	5.25	4.47
13:19	500	4000	25.4	7.90	8099	115	2.19	8	25.88	5.27	4.49
13:23	500	6000	25.2	7.90	8145	114	2.33	7	25.88	5.29	4.51
13:27	500	8000	25.3	7.91	8109	112	2.35	7	25.88	5.57	4.49
13:31	500	10000	25.3	7.91	8112	108	2.34	7	25.88	5.57	4.49

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>0</u>
Sample Date	<u>02/18/2020</u>	Post Sampling Turbidity	<u></u>
Sample Time	<u>13:32</u>	Double Filter Turbidity	<u></u>
Sample ID	<u>MW-81-098-Q120</u>	Single Filter Turbidity	<u>2</u>
Duplicate Sample ID	<u></u>	Without Filter Turbidity	<u>7</u>
Dup Sample Time	<u></u>	MS/MSD Sample Time	<u></u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u></u>
Odor	<u>None</u>	EB Time	<u></u>
		EB Sample ID	<u></u>
		Remarks	<u></u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-82-046

MW-82-046 - 02/27/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>31.43</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>47.71</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>16.28</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>2.66</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>41</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:56	500	2000	25.7	6.98	14478	-6.0	0.29	44	31.63	9.41	8.38
15:00	500	4000	25.8	6.92	14470	-9.2	0.29	30	31.63	9.40	8.38
15:04	500	6000	25.8	6.90	14489	-11.0	0.33	24	31.63	9.41	8.39
15:08	500	8000	25.9	6.88	14515	-12.7	0.33	22	31.63	9.43	8.41
15:12	500	10000	25.9	6.88	14529	-13.1	0.34	20	31.63	9.44	8.41

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u> </u>
Sample Date	<u>02/27/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>15:13</u>	Double Filter Turbidity	<u>1</u>
Sample ID	<u>MW-82-046-Q120</u>	Single Filter Turbidity	<u>4</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>20</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u>15:30</u>
		EB Sample ID	<u>EB-717-Q120</u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-82-112

MW-82-112 - 02/27/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>30.62</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>114.20</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>83.58</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>13.63</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>107</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:22	500	2000	25.0	7.01	8756	-2.0	0.53	6	30.74	5.69	4.88
12:26	500	4000	24.9	7.01	8733	-0.4	0.43	4	30.74	5.66	4.86
12:30	500	6000	25.0	7.01	8711	0.9	0.35	3	30.74	5.66	4.85
12:34	500	8000	25.1	7.01	8710	2.1	0.25	3	30.74	5.66	4.85
12:38	500	10000	25.1	7.01	8710	2.7	0.25	3	30.74	5.65	4.84

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>NA</u>
Sample Date	<u>02/27/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>12:39</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-82-112-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>3</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-82-168

MW-82-168 - 02/27/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	30.82
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	169.80
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	138.98
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	22.67
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	163	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:07	500	2000	25.1	6.98	19239	-3.8	0.38	5	30.96	12.51	11.43
13:11	500	4000	25.2	6.97	19345	-1.9	0.30	3	30.96	12.57	11.49
13:15	500	6000	25.6	6.97	19358	-1.1	0.22	3	30.96	12.58	11.49
13:19	500	8000	25.6	6.97	19367	-1.0	0.19	3	30.96	12.59	11.50
13:23	500	10000	25.6	6.97	19384	-0.8	0.17	3	30.96	12.59	11.50

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	02/27/2020	Post Sampling Turbidity	
Sample Time	13:24	Double Filter Turbidity	
Sample ID	MW-82-168-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	3
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-82-198

MW-82-198 - 02/27/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	30.26
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	199.45
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	169.19
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	27.60
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	193	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:01	500	2000	25.1	7.06	20553	-36.3	0.40	5	30.33	13.48	12.39
14:05	500	4000	25.3	7.39	21341	-28.0	0.38	2	30.33	13.87	12.78
14:09	500	6000	25.3	7.46	21314	-19.4	0.32	2	30.33	13.85	12.77
14:13	500	8000	25.3	7.47	21296	-16.4	0.28	2	30.33	13.83	12.75
14:17	500	10000	25.4	7.48	21309	-14.1	0.28	2	30.33	13.86	12.76

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/27/2020	Post Sampling Turbidity	
Sample Time	14:18	Double Filter Turbidity	
Sample ID	MW-82-198-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	2
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-83-180

MW-83-180 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	75.84
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	180.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	104.16
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	16.99
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	170	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:15	500	2000	29.2	7.37	11701	-9.4	0.73	6	76.00	7.61	6.63
12:19	500	4000	29.4	7.40	11646	-14.5	0.68	2	76.00	7.55	6.58
12:23	500	6000	29.4	7.41	11657	-15.5	0.65	2	76.00	7.56	6.61
12:27	500	8000	29.5	7.41	11616	-16.0	0.63	2	76.00	7.54	6.57
12:31	500	10000	29.4	7.41	16612	-17.1	0.62	2	76.00	7.56	6.61

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/19/2020	Post Sampling Turbidity	
Sample Time	12:32	Double Filter Turbidity	
Sample ID	MW-83-180-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	2
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-83-225

MW-83-225 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	76.29
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	255
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	178.71
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	29.15
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	215	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:43	500	2000	27.9	7.03	18308	24.9	0.93	112	76.35	12.0	10.8
12:47	500	4000	28.3	6.98	19027	23.7	0.81	68	76.35	12.3	11.2
12:51	500	6000	28.6	6.96	19122	22.3	0.78	55	76.35	12.3	11.2
12:55	500	8000	28.7	6.98	19142	20.9	0.72	49	76.35	12.3	11.2
12:59	500	10000	28.7	6.97	19151	20.5	0.68	48	76.35	12.3	11.2
13:03	500	12000	28.7	6.97	19165	19.7	0.65	48	76.35	12.3	11.2

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	13:13	Post Sampling Turbidity	
Sample ID	MW-83-225-Q120	Double Filter Turbidity	1
Duplicate Sample ID		Single Filter Turbidity	9
Dup Sample Time		Without Filter Turbidity	48
Color	Clear	MS/MSD Sample Time	
Odor		MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

MW-83-225



MW-83-245

MW-83-245 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	76.16
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	245
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	168.84
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	27.54
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	240	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:59	500	2000	27.7	7.29	22077	25.9	1.13	10	76.22	14.7	13.5
12:03	500	4000	28.2	7.22	22733	26.3	1.02	7	76.25	14.7	13.6
12:07	500	6000	28.2	7.21	22780	25.1	0.89	5	76.25	14.7	13.6
12:11	500	8000	28.2	7.20	22787	24.1	0.76	5	76.25	14.7	13.6
12:15	500	10000	28.3	7.20	22800	22.9	0.72	5	76.25	14.7	13.6

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	12:20	Post Sampling Turbidity	
Sample ID	MW-83-245-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	0
Dup Sample Time		Without Filter Turbidity	5
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-83-245



MW-83-90

MW-83-90 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	75.65
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	90.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	14.35
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	2.34
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	83	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:59	500	2000	28.7	7.24	2154	2.4	4.98	101	75.90	1.39	1.10
13:03	500	4000	29.9	7.22	2145	2.9	4.88	39	75.90	1.40	1.08
13:07	500	6000	29.8	7.19	2157	5.3	4.91	18	75.90	1.41	1.11
13:11	500	8000	29.9	7.19	2143	5.7	4.92	14	75.90	1.39	1.10
13:15	500	10000	29.9	7.18	2132	6.4	4.92	14	75.90	1.41	1.09

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/19/2020	Post Sampling Turbidity	
Sample Time	13:16	Double Filter Turbidity	
Sample ID	MW-83-90-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	14
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-84-057

MW-84-057 - 02/19/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>46.52</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>57.00</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>10.48</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>1.71</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>49.5</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:13	500	2000	29.7	7.25	1841	13.1	5.79	34	46.76	1.19	0.93
14:17	500	4000	30.5	7.30	1843	12.4	5.74	28	46.76	1.19	0.93
14:21	500	6000	30.7	7.33	1845	12.6	5.70	24	46.76	1.19	0.93
14:25	500	8000	30.7	7.35	1844	12.7	5.67	22	46.76	1.19	0.93
14:29	500	10000	30.7	7.34	1844	12.4	5.71	22	46.76	1.19	0.93

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u> </u>
Sample Date	<u>02/19/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>14:30</u>	Double Filter Turbidity	<u>1</u>
Sample ID	<u>MW-84-057-Q120</u>	Single Filter Turbidity	<u>3</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>22</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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			

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-84-095

MW-84-095 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	46.41
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	95.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	48.59
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	7.93
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	85	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:58	500	2000	28.7	7.11	5787	11.1	1.33	29	46.50	3.76	3.11
15:02	500	4000	28.8	7.12	5780	10.8	1.18	22	46.50	3.74	3.11
15:06	500	6000	28.8	7.12	5745	10.2	1.00	14	46.50	3.76	3.11
15:10	500	8000	28.8	7.12	5783	10.5	0.97	12	46.50	3.77	3.11
15:14	500	10000	28.8	7.13	5766	10.9	0.92	12	46.50	3.76	3.11

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/19/2020	Post Sampling Turbidity	
Sample Time	15:15	Double Filter Turbidity	1
Sample ID	MW-84-095-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	12
Dup Sample Time		MS/MSD Sample Time	15:15
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	15:30
		EB Sample ID	EB-707-Q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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			

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-84-132

MW-84-132 - 02/19/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>47.06</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>132.00</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>84.94</u>
Purge Volume Units	<u>MI</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>13.85</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>122</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Kt</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:00	500	2000	28.32	7.31	9453	80.8	0.92	7	47.21		
14:04	500	4000	28.4	7.10	9756	44.3	0.68	5	47.22	6.51	5.60
14:08	500	6000	28.5	7.08	9929	29.9	0.65	5	47.22	6.51	5.60
14:12	500	8000	28.6	7.05	10036	18.9	0.59	5	47.22	6.3	5.48
14:16	500	10000	28.8	7.02	10182	15.3	0.67	5	47.22	6.52	5.60
14:20	500	12000	28.8	7.02	10193	12.6	0.63	5	47.22	6.52	5.60

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>0</u>
Sample Date	<u>02/19/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>14:24</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-84-132-Q120</u>	Single Filter Turbidity	<u>0</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>5</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>None</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

MW-84-132



MW-84-193

MW-84-193 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	46.84
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	193.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	146.16
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	23.84
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	183	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:53	500	2000	28.2	7.29	14500	122.0	0.85	7	46.98	9.72	8.64
14:57	500	4000	28.7	7.24	14979	102.6	0.99	4	47.02	9.69	8.62
15:01	500	6000	28.6	7.24	14841		0.98		47.02	9.69	
15:05	500	8000	28.6	7.24	14823	96.3	1.00	4	47.02	9.68	8.62
15:09	500	10000	28.6	7.24	14836	94.7	0.97	4	47.02	9.68	8.62

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	15:14	Post Sampling Turbidity	
Sample ID	MW-84-193-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	0
Dup Sample Time		Without Filter Turbidity	4
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	15:25
		EB Sample ID	EB-706-Q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-84-193



Feb 19, 2020 02:40:56 PM
Location: MW-84-193 Latitude: 34.718882, Longitude: -114.494484

MW-85-129

MW-85-129 - 02/18/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	116.65
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	129.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	12.35
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	2.01
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	122.5	Total Volume to Remove	
Sampler	KT	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:00	500	2000	30.7	7.41	2317	39.4	5.01	52	116.72	1.50	1.17
12:04	500	4000	30.5	7.40	2309	39.0	4.97	44	116.75	1.50	1.16
12:08	500	6000	30.5	7.40	2308	38.8	4.96	40	116.75	1.50	1.16
12:12	500	8000	30.5	7.40	2305	38.3	4.93	39	116.75	1.50	1.16
12:16	500	10000	30.5	7.39	2306	38.3	4.93	39	116.75	1.50	1.16

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/18/2020	Sample?	
Sample Time	12:20	Post Sampling Turbidity	
Sample ID	MW-85-129-Q120	Double Filter Turbidity	1
Duplicate Sample ID	Mw-911-q120	Single Filter Turbidity	8
Dup Sample Time	12:30	Without Filter Turbidity	39
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-85-129



Feb 18, 2020 12:41:21 PM
Location: MW-85-129 Latitude: 34.71871, Longitude: -114.49246

MW-85-217

MW-85-217 - 02/18/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	115.85
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	218.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	102.15
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	16.66
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	206.5	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:00	500	2000	27.8	6.89	14034	23.5	1.23	54	115.94	9.08	8.06
13:04	500	4000	27.8	6.91	14041	23.5	1.23	44	115.96	9.08	8.06
13:08	500	6000	27.8	6.91	14044	23.5	1.24	42	115.96	9.08	8.06
13:12	500	8000	27.8	6.91	14044	23.5	1.24	42	115.96	9.08	8.06
13:16	500	10000	27.8	6.91	14049	23.6	1.22	42	115.96	9.08	8.06
13:20	500	12000	27.8	6.91	14043	23.9	1.21	42	115.96	9.08	8.06

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/18/2020	Sample?	
Sample Time	13:25	Post Sampling Turbidity	
Sample ID	MW-85-217-Q120	Double Filter Turbidity	1
Duplicate Sample ID		Single Filter Turbidity	6
Dup Sample Time		Without Filter Turbidity	35
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

MW-85-217



MW-85-237

MW-85-237 - 02/18/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>115.82</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>237.00</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>121.18</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>19.77</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>230</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:05	500	2000	28.2	7.89	14439	2.8	0.33	6	115.90	9.48	8.42
12:09	500	4000	29.0	7.87	15103	0.3	0.29	4	115.90	9.82	8.74
12:13	500	6000	29.1	7.84	17490	-2.8	0.30	2	115.90	11.52	10.36
12:17	500	8000	29.1	7.82	18120	-4.4	0.35	2	115.90	11.80	10.69
12:21	500	10000	29.2	7.80	18021	-5.0	0.36	22	115.90	11.84	10.69

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u> </u>
Sample Date	<u>02/18/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>12:22</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-85-237-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>2</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-86-030

MW-86-030 - 02/27/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>14.08</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>32.80</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>18.72</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>3.05</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>22.5</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:18	500	2000	20.4	7.31	1413	-28.3	0.59	67	14.12	0.91	0.71
08:22	500	4000	20.4	7.27	1408	-36.0	0.42	38	14.12	0.92	0.71
08:26	500	6000	20.9	7.25	1389	-38.5	0.33	22	14.12	0.89	0.69
08:30	500	8000	20.6	7.20	1391	-37.9	0.29	20	14.12	0.90	0.70
08:34	500	10000	20.9	7.18	1391	-37.7	0.30	20	14.12	0.90	0.70

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u> </u>
Sample Date	<u>02/27/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>08:35</u>	Double Filter Turbidity	<u>1</u>
Sample ID	<u>MW-86-030-Q120</u>	Single Filter Turbidity	<u>4</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>20</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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			
Well Casing Intact?	X			

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?		X		

MW-86-066

MW-86-066 - 02/27/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>13.49</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>69.25</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>55.76</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>9.09</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>56</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:14	500	2000	20.4	7.23	5113	-7.6	0.33	8	13.60	3.39	2.80
09:18	500	4000	20.4	7.19	6206	-12.0	0.29	4	13.60	4.04	3.40
09:22	500	6000	20.4	7.16	6479	-12.7	0.27	2	13.60	4.21	3.56
09:26	500	8000	20.4	7.14	6583	-11.8	0.23	2	13.60	4.28	3.61
09:30	500	10000	20.4	7.13	6690	-10.8	0.20	2	13.60	4.33	3.72

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u> </u>
Sample Date	<u>02/27/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>09:31</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-86-066-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>2</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

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

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?		X		

MW-86-120

MW-86-120 - 02/27/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	14.31
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	123.27
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	108.96
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	17.77
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	110	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:50	500	2000	20.5	7.17	12415	-6.7	0.42	38	14.40	9.07	7.14
09:54	500	4000	20.8	7.18	12587	-5.5	0.34	24	14.40	8.18	7.24
09:58	500	6000	20.8	7.17	12608	-5.7	0.28	10	14.40	8.20	7.27
10:02	500	8000	20.9	7.17	12641	-5.2	0.26	8	14.40	8.21	7.27
10:06	500	10000	20.9	7.17	12650	-4.9	0.24	8	14.40	8.22	7.28

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/27/2020	Post Sampling Turbidity	
Sample Time	10:07	Double Filter Turbidity	
Sample ID	MW-86-120-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	8
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-86-140

MW-86-140 - 02/27/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>14.22</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>143.20</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>128.98</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>21.04</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>135</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:38	500	2000	21.3	7.19	16366	0.0	0.30	5	14.30	10.64	9.62
10:42	500	4000	21.6	7.17	16704	-0.7	0.23	3	14.30	10.86	9.83
10:46	500	6000	21.7	7.16	16805	-1.4	0.18	2	14.30	10.92	9.89
10:50	500	8000	21.7	7.16	16822	-1.5	0.19	2	14.30	10.94	9.90
10:54	500	10000	21.7	7.16	16901	-2.0	0.19	2	14.30	10.96	9.92

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u> </u>
Sample Date	<u>02/27/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>10:55</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-86-140-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>2</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-87-109

MW-87-109 - 02/25/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	92.51
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material	PVC	Gallons in Well	
Purge Volume Units	ml	Casing Diameter (in)	2	Total Volume to Remove	
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	101	Casing Volume to Remove	
Sampler	Matt trainotti				
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:29	500	2000	25.3	7.02	2673	5.0	4.96	33	92.60	1.73	1.38
10:33	500	4000	25.5	7.04	2573	4.9	5.13	33	92.60	1.66	1.32
10:37	500	6000	24.5	7.07	2456	2.6	5.33	30	92.60	1.59	1.26
10:41	500	8000	24.9	7.06	2487	1.9	5.37	30	92.60	1.68	1.33
10:45	500	10000	24.7	7.06	2511	2.0	5.38	30	92.60	1.61	1.26

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/25/2020	Post Sampling Turbidity	
Sample Time	10:46	Double Filter Turbidity	2
Sample ID	MW-87-109-Q120	Single Filter Turbidity	12
Duplicate Sample ID		Without Filter Turbidity	30
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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			

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-87-139

MW-87-139 - 02/18/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	92.34
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	139.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	46.66
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	7.61
Sampling Type	Low Flow – QED Bladder Pump	Pump Intake Depth (ft bmp)	134	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:26	100	400	25.4	6.80	8020	24.3	3.06	101	92.34	5.21	4.44
14:30	100	800	26.0	6.74	7939	18.4	2.02	22	92.34	5.16	4.39
14:34	100	1200	26.1	6.75	7868	16.8	1.41	18	92.34	5.11	4.34
14:38	100	1600	27.0	6.77	7813	16.5	1.26	11	92.34	5.07	4.30
14:42	100	2000	26.9	6.78	7784	18.0	1.30	10	92.34	5.05	4.28
14:46	100	2400	27.0	6.77	7783	18.4	1.31	10	92.34	5.05	4.29

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/18/2020	Post Sampling Turbidity	
Sample Time	14:47	Double Filter Turbidity	
Sample ID	MW-87-139-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	10
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

Item	Yes	No	NA	Notes
Standing Water in Annulus?	X			
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?		X		

MW-87-192

MW-87-192 - 02/18/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	92.74
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	193.81
Purge Method	Low Flow	Casing Material		Water Column in Well	101.07
Purge Volume Units	MI	Casing Diameter (in)		Gallons in Well	
Sampling Type		Pump Intake Depth (ft bmp)		Total Volume to Remove	
Sampler		Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
15:21	500	2000	27.2	7.38	9979	183.4	3.66	16	92.81	6.50	5.61
15:25	500	4000	27.7	7.39	10195	181.5	3.55	9	92.81		
15:29	500	6000	27.6	7.38	10245	179.0	3.55	8	92.81	6.50	5.60
15:33	500	8000	27.6	7.38	10241	177.2	3.55	8	92.81	6.50	5.60
15:37	500	10000	27.6	7.38	10255	175.9	3.57	8	92.81	6.50	5.60

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/18/2020	Sample?	
Sample Time	15:43	Post Sampling Turbidity	
Sample ID	MW-87-192-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	0
Dup Sample Time		Without Filter Turbidity	8
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	15:55
		EB Sample ID	Eb-703-q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

Item	Yes	No	NA	Notes
Photo Taken?	X			

MW-87-275

MW-87-275 - 02/18/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	92.49
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	276.20
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	183.71
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	29.96
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	265	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:30	500	2000	28.3	6.91	12340	91.1	1.09	7	92.55	8.00	7.01
14:34	500	4000	28.5	7.01	12336	88.9	0.96	4	92.55	8.00	7.03
14:38	500	6000	28.5	7.05	12331	87.2	0.88	4	92.55	8.00	7.03
14:42	500	8000	28.4	7.04	12319	84.3	0.83	4	92.55	8.00	7.03
14:46	500	10000	28.4	7.04	12308	83.9	0.81	4	92.55	8.00	7.03

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/18/2020	Sample?	
Sample Time	14:50	Post Sampling Turbidity	
Sample ID	MW-87-275-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	0
Dup Sample Time		Without Filter Turbidity	4
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-88-109

MW-88-109 - 02/25/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>91.99</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>108.91</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>16.92</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>2.76</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>100</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:32	500	2000	27.4	6.95	2144	-0.8	3.49	50	92.04	1.33	1.04
08:36	500	4000	27.5	7.04	2008	-6.8	3.47	32	92.04	1.29	1.00
08:40	500	6000	27.5	7.08	1992	-13.1	3.40	10	92.04	1.23	0.96
08:44	500	8000	27.5	7.09	1908	-15.2	3.36	6	92.04	1.26	0.97
08:48	500	10000	27.5	7.11	1878	-17.8	3.33	6	92.04	1.20	0.94

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u> </u>
Sample Date	<u>02/25/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>08:49</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-88-109-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>6</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-89-183

MW-89-183 - 02/19/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>132.51</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>183</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>50.49</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>8.24</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>173.0</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:37	500	2000	29.6	7.16	7375	12.1	3.30	10	132.60	4.79	4.02
10:41	500	4000	30.2	7.16	7401	8.9	3.44	5	132.60	4.79	4.04
10:45	500	6000	30.5	7.16	7436	6.5	3.48	3	132.60	4.83	4.08
10:49	500	8000	30.5	7.16	7488	4.0	3.51	3	132.60	4.87	4.10
10:53	500	10000	30.5	7.16	7508	3.1	3.54	3	132.60	4.90	4.12

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u> </u>
Sample Date	<u>02/19/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>10:54</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-89-183-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>3</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-89-273

MW-89-273 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	132.44
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	274.75
Purge Method	Low Flow	Casing Material		Water Column in Well	142.31
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	23.21
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	263	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:23	500	2000	28.5	7.40	8298	49.9	4.53	8	132.51	5.42	4.60
10:27	500	4000	29.2	7.41	8321	47.5	4.47	7	132.51	5.43	4.60
10:31	500	6000	29.7	7.41	8345	42.8	4.43	7	132.51	5.43	4.60
10:35	500	8000	30.2	7.41	8346	40.2	4.36	7	132.51	5.43	4.60
10:39	500	10000	30.1	7.41	8349	39.8	4.34	7	132.51	5.43	4.60
10:43	500	12000	30.1	7.41	8351	35.4	4.34	7	132.51	5.43	4.60

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	10:50	Post Sampling Turbidity	
Sample ID	MW-89-273-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	7
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

MW-89-273



MW-90-031

MW-90-031 - 02/25/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	5.84
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	31.41
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	25.57
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	4.17
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	26.5	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
15:17	500	2000	23.9	6.88	16561	-20.7	0.66	5	5.90	10.73	9.69
15:21	500	4000	23.8	6.86	16539	-24.5	0.45	4	5.90	10.67	9.64
15:25	500	6000	23.3	6.83	16258	-27.8	0.33	3	5.90	10.54	9.51
15:29	500	8000	23.8	6.81	16314	-29.9	0.29	3	5.90	10.62	9.58
15:33	500	10000	23.3	6.83	16312	-29.0	0.28	3	5.90	10.54	9.51

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	02/25/2020	Post Sampling Turbidity	
Sample Time	15:34	Double Filter Turbidity	
Sample ID	MW-90-031-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	3
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	16:00
		EB Sample ID	EB-715-Q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-91-045

MW-91-045 - 02/26/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	10.72
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	46.57
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	35.85
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	5.85
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	35	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:38	500	2000	26.1	7.07	2904	1.2	0.52	12	10.86	1.88	1.50
11:42	500	4000	26.3	7.09	2834	0.7	0.58	10	10.86	1.83	1.46
11:46	500	6000	26.5	7.11	2744	0.3	0.66	8	10.84	1.78	1.41
11:50	500	8000	26.5	7.11	2609	-1.4	0.63	8	10.84	1.70	1.36
11:54	500	10000	26.5	7.10	2552	-2.2	0.60	8	10.86	1.65	1.31

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/26/2020	Post Sampling Turbidity	
Sample Time	11:55	Double Filter Turbidity	
Sample ID	MW-91-045-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	8
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-91-120

MW-91-120 - 02/26/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	10.74
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	122.21
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	111.47
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	18.18
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	110	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:30	500	2000	26.2	6.79	10596	4.1	0.67	10	10.88	6.98	5.96
12:34	500	4000	26.4	6.79	10604	3.3	0.60	6	10.88	6.92	5.98
12:38	500	6000	26.6	6.79	10633	2.2	0.53	4	10.88	6.90	6.00
12:42	500	8000	26.6	6.81	10630	1.4	0.50	4	10.88	6.90	5.99
12:46	500	10000	27.0	6.83	10627	1.6	0.49	4	10.88	6.90	5.99

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	02/26/2020	Post Sampling Turbidity	
Sample Time	12:47	Double Filter Turbidity	
Sample ID	MW-91-120-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	4
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-91-170

MW-91-170 - 02/26/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	10.44
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	172.71
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	162.27
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	26.47
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	160	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:24	500	2000	26.3	7.11	11567	-15.7	0.92	30	10.54	7.86	6.84
11:28	500	4000	26.5	7.13	12098	-10.5	0.73	26	10.54	7.95	6.90
11:32	500	6000	26.7	7.16	12351	-8.4	0.65	22	10.54	8.02	7.05
11:36	500	8000	26.7	7.17	12354	-7.4	0.63	22	10.54	8.02	7.05
11:40	500	10000	26.7	7.19	12353	-6.7	0.60	22	10.54	8.02	7.06

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	02/26/2020	Post Sampling Turbidity	
Sample Time	11:41	Double Filter Turbidity	1
Sample ID	MW-91-170-Q120	Single Filter Turbidity	6
Duplicate Sample ID	MW-912-Q120	Without Filter Turbidity	22
Dup Sample Time	11:51	MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-91-320

MW-91-320 - 02/26/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>12.54</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>321.59</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>309.05</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>50.41</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>310</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:19	500	2000	24.8	6.91	28754	-37.2	0.19	3	12.80	18.68	17.72
13:23	500	4000	24.9	6.93	29440	-40.5	0.15	2	12.80	19.16	18.22
13:27	500	6000	24.9	6.93	30584	-46.3	0.12	1	12.80	19.89	18.99
13:31	500	8000	24.9	6.96	30707	-42.8	0.13	1	12.80	19.97	19.06
13:35	500	10000	24.9	6.93	30812	-48.4	0.13	1	12.80	19.99	19.10

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>NA</u>
Sample Date	<u>02/26/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>13:36</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-91-320-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>1</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u>15:00</u>
		EB Sample ID	<u>EB-716-Q120</u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-92-037

MW-92-037 - 02/26/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	7.11
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	40.50
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	33.39
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	5.45
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	32	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:21	500	2000	24.7	7.67	1995	-48.9	0.82	18	7.30	1.29	1.01
08:25	500	4000	24.6	7.67	1806	-33.5	0.66	12	7.30	1.15	0.94
08:29	500	6000	24.5	7.67	1639	-28.4	0.56	4	7.30	1.06	0.83
08:33	500	8000	24.6	7.68	1629	-28.5	0.60	4	7.30	1.06	0.83
08:37	500	10000	24.6	7.68	1618	-26.5	0.50	4	7.30	1.06	0.82

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/26/2020	Post Sampling Turbidity	
Sample Time	08:38	Double Filter Turbidity	
Sample ID	MW-92-037-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	4
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-92-072

MW-92-072 - 02/26/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	7.09
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	75.22
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	68.13
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	11.11
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	64	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:30	500	2000	25.7	7.61	2248	-19.8	0.61	10	7.21	1.47	1.15
09:34	500	4000	26.3	7.58	2270	-15.9	0.55	6	7.21	1.47	1.16
09:38	500	6000	26.5	7.55	2284	-14.3	0.52	4	7.21	1.48	1.17
09:42	500	8000	26.3	7.55	2260	-12.9	0.44	4	7.21	1.48	1.17
09:46	500	10000	26.3	7.55	2238	-12.0	0.42	4	7.21	1.45	1.14

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	
Sample Date	02/26/2020	Post Sampling Turbidity	
Sample Time	09:47	Double Filter Turbidity	
Sample ID	MW-92-072-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	4
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-92-102

MW-92-102 - 02/26/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	7.48
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	105.91
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	98.43
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	16.05
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	92	Total Volume to Remove	
Sampler	Matt trainotti	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:16	500	2000	26.1	7.48	3815	-21.2	0.74	10	7.60	2.47	2.01
09:20	500	4000	26.0	7.50	3838	-17.8	0.62	6	7.60	2.49	2.02
09:24	500	6000	25.9	7.52	3863	-14.1	0.54	4	7.60	2.51	2.03
09:28	500	8000	25.9	7.54	3871	-13.0	0.50	4	7.60	2.52	2.04
09:32	500	10000	25.9	7.55	3891	-12.5	0.47	4	7.60	2.53	2.05

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	02/26/2020	Post Sampling Turbidity	
Sample Time	09:33	Double Filter Turbidity	
Sample ID	MW-92-102-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	4
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-92-122

MW-92-122 - 02/26/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>7.80</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>125.90</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>118.10</u>
Purge Volume Units	<u>ml</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>19.26</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>117</u>	Total Volume to Remove	<u> </u>
Sampler	<u>Matt trainotti</u>	Casing Volume to Remove	<u> </u>		
Comments	<u> </u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:08	500	2000	22.4	7.57	14417	-35.6	1.57	10	8.00	9.39	8.76
08:12	500	4000	23.0	7.56	14599	-29.9	0.76	5	8.00	9.49	8.61
08:16	500	6000	23.3	7.55	14754	-26.4	0.60	3	8.00	9.59	8.58
08:20	500	8000	23.3	7.53	14843	-20.2	0.62	3	8.00	9.64	8.57
08:24	500	10000	23.3	7.51	14906	-18.6	0.64	3	8.00	9.69	8.51

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u> </u>
Sample Date	<u>02/26/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>08:25</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>MW-92-122-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>3</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>none</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u> </u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-94-030

MW-94-030 - 02/21/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	11.40
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	31
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	19.60
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	3.20
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	20	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:38	500	2000	29.9	7.66	1480	32.4	3.87	24	11.53	0.96	0.74
09:42	500	4000	30.7	7.67	1487	32.3	3.89	14	11.53	0.96	0.74
09:46	500	6000	31.2	7.68	1493	31.9	3.94	3	11.53	0.96	0.74
09:50	500	8000	31.4	7.71	1482	30.7	3.90	3	11.53	0.96	0.75
09:54	500	1000	31.3	7.68	1484	32.4	3.91	3	11.53	0.96	0.74

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	02/21/2020	Post Sampling Turbidity	
Sample Time	09:55	Double Filter Turbidity	
Sample ID	MW-94-030-Q120	Single Filter Turbidity	
Duplicate Sample ID	913-Q120	Without Filter Turbidity	3
Dup Sample Time	10:02	MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-94-100

MW-94-100 - 02/21/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	11.34
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	101
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	89.66
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	14.62
Sampling Type	Low Flow – QED Bladder Pump	Pump Intake Depth (ft bmp)	85	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:54	500	2000	34.9	7.58	1804	23.8	2.23	22	11.47	1.18	0.91
08:58	500	4000	35.2	7.59	1784	23.3	2.13	11	11.50	1.16	0.88
09:02	500	6000	34.9	7.59	1804	23.5	2.11	7	11.50	1.17	0.89
09:06	500	8000	35.2	7.58	1791	23.6	2.10	5	11.50	1.17	0.89
09:10	500	10000	35.3	7.58	1786	24.2	2.08	5	11.50	1.17	0.90
09:14	500	12000	35.3	7.58	1808	24.4	2.04	5	11.50	1.17	0.90

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	02/21/2020	Post Sampling Turbidity	
Sample Time	09:17	Double Filter Turbidity	
Sample ID	MW-94-100-Q120	Single Filter Turbidity	0
Duplicate Sample ID		Without Filter Turbidity	5
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

MW-94-175

MW-94-175 - 02/21/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	10.11
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	172
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	161.89
Purge Volume Units	ml	Casing Diameter (in)	2	Gallons in Well	26.41
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	162.2	Total Volume to Remove	
Sampler	Kt	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
07:58	500	2000	30.0	7.59	1235	32.7	1.57	8	10.16	0.79	0.60
08:02	500	4000	31.2	7.61	1239	31.6	1.52	4	10.17	0.79	0.60
08:06	500	6000	32.7	7.61	1253	31.7	1.53	4	10.16	0.79	0.60
08:10	500	8000	34.0	7.61	1249	30.9	1.48	4	10.17	0.79	0.60
08:14	500	10000	34.5	7.61	1261	30.4	1.49	4	10.16	0.79	0.60

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	NA
Sample Date	02/21/2020	Post Sampling Turbidity	
Sample Time	08:18	Double Filter Turbidity	
Sample ID	MW-94-175-Q120	Single Filter Turbidity	
Duplicate Sample ID		Without Filter Turbidity	4
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	none	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

R-19

R-19 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2103333.30' N, 7616190.78' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:29	500	500	11.9	8.12	924	173	8.32	2		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	08:30	Post Sampling Turbidity	
Sample ID	R-19-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

R-28

R-28 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2103080.75' N, 7616317.31' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:26	500	500	13.6	8.08	944	117	8.98	5		0.61	0.47

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	
Sample Time	11:27	Post Sampling Turbidity	
Sample ID	R-28-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	5
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

R63

R63 - 02/19/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Measured Well Depth (ft bmp)	<u>1</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Water Column in Well	<u> </u>
Purge Method	<u>Low Flow</u>	Casing Material	<u> </u>	Gallons in Well	<u> </u>
Purge Volume Units	<u>MI</u>	Casing Diameter (in)	<u> </u>	Total Volume to Remove	<u> </u>
Sampling Type	<u>River Sample</u>	Pump Intake Depth (ft bmp)	<u>1</u>	Casing Volume to Remove	<u> </u>
Sampler	<u>Riggie</u>				
Comments	<u>2100793.52' N, 7617352.26' E</u>				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:31	500	500	12.3	8.17	934	147	8.87	4		0.61	0.46

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>0</u>
Sample Date	<u>02/19/2020</u>	Post Sampling Turbidity	<u> </u>
Sample Time	<u>09:32</u>	Double Filter Turbidity	<u> </u>
Sample ID	<u>R63-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u> </u>	Without Filter Turbidity	<u>4</u>
Dup Sample Time	<u> </u>	MS/MSD Sample Time	<u> </u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u> </u>
Odor	<u>None</u>	EB Time	<u> </u>
		EB Sample ID	<u> </u>
		Remarks	<u>Ambient 1 taken @ r-63</u>

Well Integrity Checklist

Item	Yes	No	NA	Notes

RMP-AB3

RMP-AB3 - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Water Column in Well	
Gauge or Sample		Water Quality Meter		Gallons in Well	
Purge Method		Casing Material		Total Volume to Remove	
Purge Volume Units		Casing Diameter (in)			
Sampling Type		Pump Intake Depth (ft bmp)			
Sampler	Riggie	Casing Volume to Remove			
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)

Sampling Summary

Did Well Dewater?	NA	Field Parameters only- No 0
Sample Date	02/20/2020	Sample?
Sample Time	11:20	Post Sampling Turbidity
Sample ID	RMP-AB3-Q120	Double Filter Turbidity
Duplicate Sample ID		Single Filter Turbidity
Dup Sample Time		Without Filter Turbidity
Color		MS/MSD Sample Time
Odor		MS/MSD Sample ID
		EB Time
		EB Sample ID
		Remarks
		Taken @ c-nr4

Well Integrity Checklist

Item	Yes	No	NA	Notes

RRB

RRB - 02/20/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	1
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material		Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)		Total Volume to Remove	
Sampling Type	River Sample	Pump Intake Depth (ft bmp)	1		
Sampler	Riggie	Casing Volume to Remove			
Comments	2104563.83' N, 7615231.33' E				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:00	500	500	11.9	8.09	944	135	8.81	4		0.59	0.46

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/20/2020	Sample?	
Sample Time	09:00	Post Sampling Turbidity	
Sample ID	RRB-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	4
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes

SW1

SW1 - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Water Column in Well	_____
Gauge or Sample	Gauge and Sample	Water Quality Meter	_____	Gallons in Well	_____
Purge Method	_____	Casing Material	_____	Total Volume to Remove	_____
Purge Volume Units	_____	Casing Diameter (in)	_____		
Sampling Type	Surface water	Pump Intake Depth (ft bmp)	_____		
Sampler	Riggie	Casing Volume to Remove	_____		
Comments	2101313.02' N, 7616702.47' E				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:10			19.7	7.72	1472	129	8.84	8		0.95	0.74

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	_____
Sample Time	13:15	Post Sampling Turbidity	_____
Sample ID	SW1-Q120	Double Filter Turbidity	_____
Duplicate Sample ID	_____	Single Filter Turbidity	1
Dup Sample Time	_____	Without Filter Turbidity	8
Color	Clear	MS/MSD Sample Time	_____
Odor	None	MS/MSD Sample ID	_____
		EB Time	_____
		EB Sample ID	_____
		Remarks	_____

Well Integrity Checklist

Item	Yes	No	NA	Notes

SW2

SW2 - 02/19/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Water Column in Well	_____
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	_____	Gallons in Well	_____
Purge Method	_____	Casing Material	_____	Total Volume to Remove	_____
Purge Volume Units	_____	Casing Diameter (in)	_____		
Sampling Type	<u>Surface water</u>	Pump Intake Depth (ft bmp)	_____		
Sampler	<u>Riggie</u>	Casing Volume to Remove	_____		
Comments	<u>2101075.28' N, 7616908.56' E</u>				

Field Parameters

Time	Flow Rate (ml/min)	Cum'l Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:30			16.1	7.95	1822	149	7.73	8		1.18	0.93

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No	<u>0</u>
Sample Date	<u>02/19/2020</u>	Sample?	_____
Sample Time	<u>13:35</u>	Post Sampling Turbidity	_____
Sample ID	<u>SW2-Q120</u>	Double Filter Turbidity	_____
Duplicate Sample ID	_____	Single Filter Turbidity	<u>1</u>
Dup Sample Time	_____	Without Filter Turbidity	<u>8</u>
Color	<u>Clear</u>	MS/MSD Sample Time	_____
Odor	<u>None</u>	MS/MSD Sample ID	_____
		EB Time	_____
		EB Sample ID	_____
		Remarks	_____

Well Integrity Checklist

Item	Yes	No	NA	Notes
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TW-02D

TW-02D - 02/19/2020

Location	Topock	Weather Conditions	Sunny	Water Column in Well	_____
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Gallons in Well	_____
Purge Method	Extraction Port	Casing Material	PVC	Total Volume to Remove	_____
Purge Volume Units	Gal	Casing Diameter (in)	4		
Sampling Type	Extraction port	Pump Intake Depth (ft bmp)	_____		
Sampler	Riggie	Casing Volume to Remove	_____		
Comments	_____				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:43	1	5	20.1	8.09	5283	129	3.65	2		3.43	2.86

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	02/19/2020	Sample?	_____
Sample Time	12:48	Post Sampling Turbidity	_____
Sample ID	TW-02D-Q120	Double Filter Turbidity	_____
Duplicate Sample ID	_____	Single Filter Turbidity	1
Dup Sample Time	_____	Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	_____
Odor	None	MS/MSD Sample ID	_____
		EB Time	_____
		EB Sample ID	_____
		Remarks	_____

Well Integrity Checklist

Item	Yes	No	NA	Notes
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	

Gauging Data

Well	Date/Time	Depth To Water (ft)	Well Depth (ft)	Depth to LNAPL (ft)	Remarks
C-BNS	02/19/2020 10:28		13		
C-CON-D	02/17/2020 15:45	20.16	118.11		
C-CON-D	02/20/2020 09:15		9		
C-CON-S	02/20/2020 09:29		1		
C-I-3-D	02/19/2020 08:56		12		
C-I-3-S	02/19/2020 09:10		1		
C-MAR-D	02/20/2020 07:57		4		
C-MAR-S	02/20/2020 08:07		1		
C-NR1-D	02/20/2020 09:57		9		
C-NR1-S	02/20/2020 10:06		1		
C-NR3-D	02/20/2020 10:27		7		
C-NR3-S	02/20/2020 10:36		1		
C-NR4-D	02/20/2020 11:01		10		
C-NR4-S	02/20/2020 11:11		1		
C-R22A-D	02/19/2020 09:54		4.5		
C-R22A-S	02/19/2020 10:06		1		
C-R27-D	02/19/2020 10:47		4.5		
C-R27-S	02/19/2020 11:06		1		
C-TAZ-D	02/19/2020 08:09		12		
C-TAZ-S	02/19/2020 08:31		1		
MW-10D	02/24/2020 13:53	77.00	127.45		
MW-11D	02/24/2020 14:33	68.21			
MW-34-100	02/20/2020 14:56	8.15	99.96		
MW-38S	02/25/2020 09:28	72.31			
MW-44-115	02/21/2020 08:34	19.42	115.00		
MW-46-175	02/21/2020 07:51	29.62	175.00		
MW-57-050	02/21/2020 11:56		51.00		Well is dry
MW-58BR	02/17/2020 15:45	66.72	200.00		
MW-60BR-245-3V	02/20/2020 20:54	99.91	245.00		
MW-60BR-245-LF_D	02/21/2020 08:50	100.90	245.00		
MW-60BR-245-LF_S	02/21/2020 08:06	100.71	245.00		
MW-62-065	02/19/2020 08:26	50.11	65.00		
MW-63-065	02/19/2020 09:16	51.22	65.00		
MW-64BR	02/21/2020 09:57	121.60	258.00		
MW-65-160	02/20/2020 08:55	142.23	160.00		
MW-65-225	02/20/2020 09:57	141.91	225.00		
MW-68-180	02/20/2020 11:04	166.74	QED		
MW-69-195	02/25/2020 12:17	176.21	195.29		
MW-72-080	02/20/2020 14:44	59.87	80		
MW-72BR-200	02/20/2020 13:55	59.80	200		

Well	Date/Time	Depth To Water (ft)	Well Depth (ft)	Depth to LNAPL (ft)	Remarks
MW-73-080	02/20/2020 12:46	52.37	81		
MW-75-033	02/17/2020 14:41	20.02	34.80		
MW-75-117	02/17/2020 15:42	20.16	118.11		
MW-75-202	02/17/2020 14:17	19.95	204.31		
MW-75-267	02/18/2020 15:14	20.00	268.58		
MW-75-337	02/17/2020 13:15	21.93	338.80		
MW-76-039	02/20/2020 09:00	27.98	40		
MW-76-156	02/20/2020 08:10	28.48	156.00		
MW-76-181	02/20/2020 11:05	28.74	182		
MW-76-218	02/20/2020 10:10	28.48	218.00		
MW-77-046	02/18/2020 08:25	26.06	48.00		
MW-77-102	02/18/2020 09:10	26.17	102		
MW-77-158	02/18/2020 10:20	26.53	159.00		
MW-77-187	02/18/2020 10:07	26.27	187.11		
MW-78-072	02/19/2020 08:05	48.75	72		
MW-78-142	02/19/2020 08:47	48.95	143		
MW-79-060	02/21/2020 10:45	48.52	60.11		
MW-79-104	02/21/2020 11:01	48.20	104.00		
MW-80-057	02/24/2020 12:05	51.22	59.85		
MW-80-082	02/24/2020 12:45	51.07	84.23		
MW-81-043	02/18/2020 13:55	25.52	44.61		
MW-81-098	02/18/2020 13:11	25.81	99.41		
MW-82-046	02/27/2020 14:53	31.43	47.71		
MW-82-112	02/27/2020 12:21	30.62	114.20		
MW-82-168	02/27/2020 13:04	30.82	169.80		
MW-82-198	02/27/2020 13:58	30.26	199.45		
MW-83-180	02/19/2020 12:12	75.84	180.00		
MW-83-225	02/19/2020 12:35	76.29	255		
MW-83-245	02/19/2020 11:52	76.16	245		
MW-83-90	02/19/2020 12:58	75.65	90.00		
MW-84-057	02/19/2020 14:12	46.52	57.00		
MW-84-095	02/19/2020 14:53	46.41	95.00		
MW-84-132	02/19/2020 13:55	47.06	132.00		
MW-84-193	02/19/2020 14:45	46.84	193.00		
MW-85-129	02/18/2020 11:52	116.65	129.00		
MW-85-217	02/18/2020 12:51	115.85	218.00		
MW-85-237	02/18/2020 12:04	115.82	237.00		
MW-86-030	02/27/2020 08:16	14.08	32.80		
MW-86-066	02/27/2020 09:12	13.49	69.25		
MW-86-120	02/27/2020 09:47	14.31	123.27		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

Well	Date/Time	Depth To Water (ft)	Well Depth (ft)	Depth to LNAPL (ft)	Remarks
MW-86-140	02/27/2020 10:35	14.22	143.20		
MW-87-109	02/25/2020 10:28	92.51			
MW-87-139	02/18/2020 14:24	92.34	139.00		
MW-87-192	02/18/2020 15:14	92.74	193.81		
MW-87-275	02/18/2020 14:25	92.49	276.20		
MW-88-109	02/25/2020 08:36	91.99	108.91		
MW-89-183	02/19/2020 10:37	132.51	183		
MW-89-273	02/19/2020 10:15	132.44	274.75		
MW-90-031	02/25/2020 15:16	5.84	31.41		
MW-91-045	02/26/2020 11:35	10.72	46.57		
MW-91-120	02/26/2020 12:30	10.74	122.21		
MW-91-170	02/26/2020 11:23	10.44	172.71		
MW-91-320	02/26/2020 13:18	12.54	321.59		
MW-92-037	02/26/2020 08:19	7.11	40.50		
MW-92-072	02/26/2020 09:28	7.09	75.22		
MW-92-102	02/26/2020 09:16	7.48	105.91		
MW-92-122	02/26/2020 08:07	7.80	125.90		
MW-94-030	02/21/2020 09:32	11.40	31		
MW-94-100	02/21/2020 08:47	11.34	101		
MW-94-175	02/21/2020 07:52	10.11	172		
R-19	02/20/2020 08:28		1		
R-28	02/19/2020 11:24		1		
R63	02/19/2020 09:30		1		
RRB	02/20/2020 09:00		1		

TW-03D

TW-03D - 03/04/2020

Location	Topock	Weather Conditions	Sunny	Water Column in Well	_____
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Gallons in Well	_____
Purge Method	Extraction Port	Casing Material	Stainless Steel	Total Volume to Remove	_____
Purge Volume Units	Gal	Casing Diameter (in)	_____		
Sampling Type	Extraction port	Pump Intake Depth (ft bmp)	_____		
Sampler	Andrew Pham	Casing Volume to Remove	_____		
Comments	_____				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:35	1	5	26.3	6.77	4681	182.3	1.78	2		2.96	2.42

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/04/2020	Sample?	_____
Sample Time	08:35	Post Sampling Turbidity	_____
Sample ID	TW-03D-Q120	Double Filter Turbidity	_____
Duplicate Sample ID	_____	Single Filter Turbidity	1
Dup Sample Time	_____	Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	_____
Odor	None	MS/MSD Sample ID	_____
		EB Time	_____
		EB Sample ID	_____
		Remarks	_____

Well Integrity Checklist

Item	Yes	No	NA	Notes
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	

TW-03D



Mar 04, 2020 08:34:04 AM
Location: TW-03D Latitude: 34.720379, Longitude: -114.491301

Gauging Data

Well	Date/Time	Depth To Water (ft)	Well Depth (ft)	Depth to LNAPL (ft)	Remarks
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MW-75-033

MW-75-033 - 03/16/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	19.48
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	34.80
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	15.32
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	2.5
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	25.5	Total Volume to Remove	0.0
Sampler		Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:27	500	2000	27.0	7.69	3325	-17	2.04	112	19.55	2.15	1.73
13:31	500	4000	26.9	7.66	3407	13	1.95	68	19.55	2.20	1.77
13:35	500	6000	26.9	7.63	3398	16	1.96	42	19.55	2.21	1.78
13:39	500	8000	26.9	7.63	3405	22	1.98	12	19.55	2.21	1.78
13:43	500	10000	26.9	7.63	3408	28	1.98	11	19.55	2.21	1.78
13:47	500	12000	27.0	7.63	3419	31	2.00	5	19.55	2.21	1.78

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/16/2020	Sample?	
Sample Time	13:48	Post Sampling Turbidity	
Sample ID	MW-75-033-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	5
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	13:58
		EB Sample ID	Eb-788-q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

MW-75-033



MW-75-117

MW-75-117 - 03/16/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	19.68
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	118.11
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	98.43
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	16.05
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	107	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cumulative Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:53	500	2000	27.5	7.55	12347	-54	0.46	4	19.75	8.04	7.03
12:57	500	4000	27.6	7.60	12309	-60	0.35	1	19.75	8.00	7.04
13:01	500	6000	27.8	7.62	12283	-70	0.25	1	19.75	8.03	7.02
13:05	500	8000	27.7	7.62	12317	-72	0.21	1	19.75	8.00	7.03
13:09	500	10000	27.7	7.62	12332	-74	0.20	1	19.75	7.99	7.01

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/16/2020	Sample?	
Sample Time	13:10	Post Sampling Turbidity	
Sample ID	MW-75-117-Q120	Double Filter Turbidity	
Duplicate Sample ID	Mw-915-q120	Single Filter Turbidity	1
Dup Sample Time	13:20	Without Filter Turbidity	1
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

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

MW-75-117



Mar 16, 2020 12:50:26 PM
Location: MW-75-117 Latitude:0 , Longitude:0

MW-75-202

MW-75-202 - 03/17/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	19.41
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	204.31
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	184.9
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	30.16
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	192	Total Volume to Remove	0.0
Sampler		Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:10	500	2000	27.2	7.92	18106	-10	0.26	1	19.49	11.76	10.67
10:14	500	4000	27.3	7.77	18232	-12	0.20	1	19.49	11.85	10.73
10:18	500	6000	27.5	7.76	18159	-13	0.17	1	19.49	11.81	10.72
10:22	500	8000	27.6	7.75	18213	-13	0.15	1	19.49	11.86	10.75
10:26	500	10000	27.7	7.74	18235	-15	0.14	1	19.49	11.86	10.77

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/17/2020	Sample?	
Sample Time	10:27	Post Sampling Turbidity	
Sample ID	MW-75-202-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	1
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-75-202



MW-75-267

MW-75-267 - 03/17/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>19.41</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>268.58</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>249.17</u>
Purge Volume Units	<u>MI</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>40.64</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>257</u>	Total Volume to Remove	<u>0.0</u>
Sampler	<u>Riggie</u>	Casing Volume to Remove	<u>0</u>		
Comments	<u></u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:42	500	2000	26.5	7.68	24083	-99	0.42	2	19.52	15.67	14.60
08:46	500	4000	26.8	7.79	24366	-104	0.29	1	19.52	15.87	14.75
08:50	500	6000	26.8	7.88	24616	-109	0.22	1	19.52	15.99	14.91
08:54	500	8000	27.0	7.90	24656	-113	0.20	1	19.52	16.00	14.91
08:58	500	10000	27.0	7.90	24678	-116	0.20	1	19.52	16.00	14.91

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>0</u>
Sample Date	<u>03/17/2020</u>	Post Sampling Turbidity	<u></u>
Sample Time	<u>08:59</u>	Double Filter Turbidity	<u></u>
Sample ID	<u>MW-75-267-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u></u>	Without Filter Turbidity	<u>1</u>
Dup Sample Time	<u></u>	MS/MSD Sample Time	<u></u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u></u>
Odor	<u>None</u>	EB Time	<u></u>
		EB Sample ID	<u></u>
		Remarks	<u></u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-75-267



MW-75-337

MW-75-337 - 03/16/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	21.08
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	337.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	315.92
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	51.53
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	327	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:59	500	2000	28.6	7.75	29980	-216	0.31	1	21.18	19.84	18.44
12:03	500	4000	28.6	7.78	29992	-217	0.27	1	21.18	19.45	18.45
12:07	500	6000	28.6	7.78	29916	-217	0.26	1	21.18	19.45	18.47
12:11	500	8000	28.6	7.78	29932	-217	0.24	1	21.18	19.45	18.46
12:15	500	10000	28.6	7.79	29911	-217	0.23	1	21.18	19.46	18.44

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/16/2020	Sample?	
Sample Time	12:16	Post Sampling Turbidity	
Sample ID	MW-75-337-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	1
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-75-337



Mar 16, 2020 12:00:33 PM
Location: MW-75-337 Latitude: 0, Longitude: 0

MW-76-039

MW-76-039 - 03/17/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>27.75</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>38.33</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>10.58</u>
Purge Volume Units	<u>MI</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>1.73</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>34</u>	Total Volume to Remove	<u>0.0</u>
Sampler	<u>Riggie</u>	Casing Volume to Remove	<u>0</u>		
Comments	<u></u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:28	500	2000	27.7	7.49	127	121	3.91	40	27.85	0.08	0.06
12:32	500	4000	27.6	7.51	112	115	4.33	1	27.85	0.07	0.05
12:36	500	6000	27.6	7.51	110	115	4.37	1	27.85	0.07	0.05
12:40	500	8000	27.9	7.50	109	119	4.42	1	27.85	0.10	0.08
12:44	500	10000	27.9	7.49	108	120	4.46	1	27.85	0.10	0.08

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>0</u>
Sample Date	<u>03/17/2020</u>	Post Sampling Turbidity	<u></u>
Sample Time	<u>12:45</u>	Double Filter Turbidity	<u></u>
Sample ID	<u>MW-76-039-Q120</u>	Single Filter Turbidity	<u>1</u>
Duplicate Sample ID	<u></u>	Without Filter Turbidity	<u>1</u>
Dup Sample Time	<u></u>	MS/MSD Sample Time	<u></u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u></u>
Odor	<u>None</u>	EB Time	<u></u>
		EB Sample ID	<u></u>
		Remarks	<u></u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-76-156

MW-76-156 - 03/17/2020

Location	<u>Topock</u>	Weather Conditions	<u>Sunny</u>	Depth to Water (ft bmp)	<u>28.19</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>156.00</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>127.81</u>
Purge Volume Units	<u>MI</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>20.85</u>
Sampling Type	<u>Low Flow – Grundfos RF2</u>	Pump Intake Depth (ft bmp)	<u>151</u>	Total Volume to Remove	<u>0.0</u>
Sampler	<u></u>	Casing Volume to Remove	<u>0</u>		
Comments	<u></u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:28	500	2000	27.6	7.79	16338	22	0.13	1	28.30	10.62	9.53
11:32	500	4000	27.8	7.74	16530	25	0.16	1	28.30	10.74	9.66
11:36	500	6000	27.8	7.71	16493	25	0.12	1	28.30	10.71	9.63
11:40	500	8000	27.8	7.70	16552	26	0.11	1	28.30	10.71	9.63
11:44	500	10000	27.9	7.68	16562	26	0.10	1	28.30	10.71	9.63

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No	<u>0</u>
Sample Date	<u>03/17/2020</u>	Sample?	<u></u>
Sample Time	<u>11:45</u>	Post Sampling Turbidity	<u></u>
Sample ID	<u>MW-76-156-Q120</u>	Double Filter Turbidity	<u></u>
Duplicate Sample ID	<u></u>	Single Filter Turbidity	<u>1</u>
Dup Sample Time	<u></u>	Without Filter Turbidity	<u>1</u>
Color	<u>Clear</u>	MS/MSD Sample Time	<u></u>
Odor	<u>None</u>	MS/MSD Sample ID	<u></u>
		EB Time	<u></u>
		EB Sample ID	<u></u>
		Remarks	<u></u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-76-181

MW-76-181 - 03/17/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	28.46
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	182.71
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	154.25
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	25.16
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	176	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:02	500	2000	28.0	7.54	19886	87	0.22	20	28.60	12.91	11.79
12:06	500	4000	28.4	7.49	19915	77	0.21	1	28.60	12.91	11.71
12:10	500	6000	28.3	7.49	19866	74	0.21	1	28.60	12.91	11.77
12:14	500	8000	28.5	7.49	19819	68	0.23	1	28.60	12.90	11.78
12:18	500	10000	28.6	7.49	19775	63	0.26	1	28.60	12.84	11.79

Sampling Summary

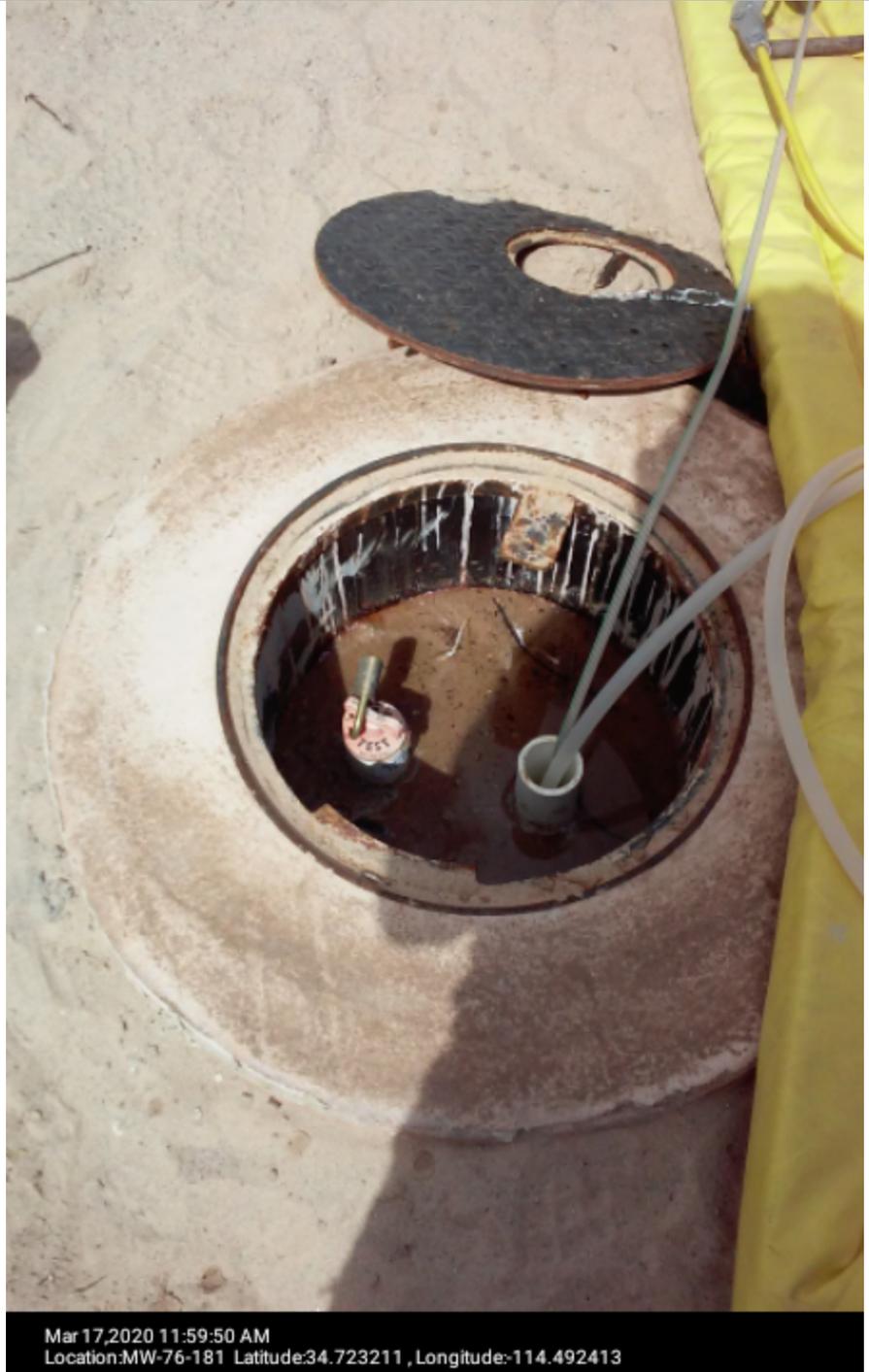
Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/17/2020	Sample?	
Sample Time	12:19	Post Sampling Turbidity	
Sample ID	MW-76-181-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	1
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-76-181



MW-76-218

MW-76-218 - 03/17/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	28.35
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	219.15
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	190.8
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	31.12
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	213	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:11	500	2000	28.0	7.48	21935	-7	0.28	1	28.40	14.50	13.16
11:15	500	4000	27.9	7.40	22293	3	0.19	1	28.40	14.47	13.38
11:19	500	6000	28.0	7.34	22225	5	0.18	1	28.40	14.47	13.38
11:23	500	8000	28.0	7.33	22246	7	0.16	1	28.40	14.47	13.38
11:27	500	10000	28.0	7.30	22256	10	0.15	1	28.40	14.47	13.38

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/17/2020	Sample?	
Sample Time	11:28	Post Sampling Turbidity	
Sample ID	MW-76-218-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	1
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-76-218



Mar 17, 2020 11:12:15 AM
Location: MW-76-218 Latitude: 34.723211, Longitude: -114.492413

MW-81-043

MW-81-043 - 03/19/2020

Location	Topock	Weather Conditions	Sunny	Measured Well Depth (ft bmp)	44.61
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Water Column in Well	
Purge Method	Low Flow	Casing Material	PVC	Gallons in Well	
Purge Volume Units	MI	Casing Diameter (in)	2	Total Volume to Remove	
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	33	Casing Volume to Remove	
Sampler	Riggie				
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:04	500	2000	25.9	7.39	6003	-28	0.13	216	25.45	3.90	3.25
09:08	500	4000	25.8	7.42	6038	-33	0.12	36	25.45	3.93	3.28
09:12	500	6000	25.6	7.43	6002	-36	0.16	35	25.45	3.90	3.25
09:16	500	8000	26.5	7.44	6024	-40	0.15	35	25.45	3.90	3.26
09:20	500	10000	25.2	7.45	6086	-47	0.18	34	25.45	3.94	3.30
09:24	500	12000	25.0	7.45	6075	-54	0.19	35	25.45	3.95	3.30

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	0
Sample Date	03/19/2020	Post Sampling Turbidity	
Sample Time	09:25	Double Filter Turbidity	1
Sample ID	MW-81-043-Q120	Single Filter Turbidity	3
Duplicate Sample ID		Without Filter Turbidity	35
Dup Sample Time		MS/MSD Sample Time	
Color	Grey	MS/MSD Sample ID	
Odor	None	EB Time	09:30
		EB Sample ID	Eb-793-q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

MW-81-043



MW-81-098

MW-81-098 - 03/19/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	25.72
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	99.41
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	73.69
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	12.02
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	88	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:33	500	2000	23.2	7.24	340	230	5.33	5	25.80	0.15	0.11
08:37	500	4000	24.4	7.00	231	228	5.37	1	25.80	0.21	0.16
08:41	500	6000	25.0	7.01	233	224	5.45	1	25.80	0.15	0.11
08:45	500	8000	25.3	7.03	233	220	5.60	1	25.80	0.14	0.10
08:49	500	10000	25.4	7.02	236	217	5.40	1	25.80	0.14	0.10

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/19/2020	Sample?	
Sample Time	08:50	Post Sampling Turbidity	
Sample ID	MW-81-098-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	1
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

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

MW-81-098



MW-83-180

MW-83-180 - 03/17/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	75.19
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	180.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	104.81
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	17.1
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	170	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
14:01	500	2000	29.5	7.70	11569	56	0.73	1	75.28	7.51	6.53
14:05	500	4000	29.5	7.71	11568	52	0.71	1	75.28	7.50	6.54
14:09	500	6000	29.5	7.71	11539	47	0.65	1	75.28	7.52	6.52
14:13	500	8000	29.8	7.71	11520	47	0.63	1	75.28	7.50	6.50
14:17	500	10000	29.8	7.71	11515	46	0.62	1	75.28	7.47	6.50

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/17/2020	Sample?	
Sample Time	14:18	Post Sampling Turbidity	
Sample ID	MW-83-180-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	1
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	14:28
		EB Sample ID	Eb-789-q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-84-057

MW-84-057 - 03/18/2020

Location	Topock	Weather Conditions	Rain	Depth to Water (ft bmp)	45.94
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	54.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	8.06
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	1.31
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	49.5	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:51	500	2000	29.0	7.70	1830	113	6.51	23	46.11	1.18	0.92
10:55	500	4000	29.0	7.65	1833	121	6.73	3	46.11	1.18	0.92
10:59	500	6000	29.0	7.65	1828	129	6.67	1	46.11	1.18	0.92
11:03	500	8000	29.0	7.64	1830	135	6.78	1	46.11	1.18	0.92
11:07	500	10000	29.1	7.64	1829	138	6.73	1	46.11	1.18	0.92

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/18/2020	Sample?	
Sample Time	11:08	Post Sampling Turbidity	
Sample ID	MW-84-057-Q120	Double Filter Turbidity	
Duplicate Sample ID	Mw-916-q120	Single Filter Turbidity	1
Dup Sample Time	11:18	Without Filter Turbidity	1
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-84-057



Mar 18, 2020 10:48:11 AM
Location: MW-84-057 Latitude: 0, Longitude: 0

MW-84-095

MW-84-095 - 03/18/2020

Location	Topock	Weather Conditions	Rain	Depth to Water (ft bmp)	45.90
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	95.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	49.1
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	8.01
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	85	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cumulative Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
10:10	500	2000	28.9	7.36	5882	61	1.00	80	46.00	3.82	3.17
10:14	500	4000	29.0	7.37	5897	66	0.94	50	46.00	3.82	3.17
10:18	500	6000	29.1	7.38	5877	68	0.91	30	46.00	3.82	3.17
10:22	500	8000	29.1	7.38	5875	70	0.91	19	46.00	3.80	3.16
10:26	500	10000	29.1	7.38	5850	72	0.91	18	46.00	3.80	3.15
10:30	500	12000	29.2	7.38	5835	73	0.91	18	46.00	3.79	3.15
10:34	500	14000	29.2	7.38	5836	73	0.91	18	46.00	3.78	3.14

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No Sample?	0
Sample Date	03/18/2020	Post Sampling Turbidity	
Sample Time	10:35	Double Filter Turbidity	1
Sample ID	MW-84-095-Q120	Single Filter Turbidity	1
Duplicate Sample ID		Without Filter Turbidity	18
Dup Sample Time		MS/MSD Sample Time	
Color	Clear	MS/MSD Sample ID	
Odor	None	EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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	

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

Item	Yes	No	NA	Notes
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

MW-84-132

MW-84-132 - 03/18/2020

Location	Topock	Weather Conditions	Cloudy	Depth to Water (ft bmp)	46.87
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	132.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	85.13
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	13.89
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	122	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
09:34	500	2000	29.3	7.40	8459	101	0.61	1	46.93	5.48	4.66
09:38	500	4000	29.4	7.45	8785	97	0.69	1	46.93	5.72	4.88
09:42	500	6000	29.5	7.46	8784	89	0.65	1	46.93	5.69	4.85
09:46	500	8000	29.6	7.47	8691	79	0.66	1	46.93	5.66	4.81
09:50	500	10000	29.6	7.47	8685	69	0.68	1	46.93	5.63	4.80

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/18/2020	Sample?	
Sample Time	09:51	Post Sampling Turbidity	
Sample ID	MW-84-132-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	1
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

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

MW-84-132



MW-84-193

MW-84-193 - 03/18/2020

Location	Topock	Weather Conditions	Sunny	Depth to Water (ft bmp)	46.44
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	193.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	146.56
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	23.9
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	183	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
08:46	500	2000	29.1	7.66	13502	145	1.08	36	46.52	8.74	7.71
08:50	500	4000	29.5	7.76	13198	127	1.06	23	46.52	8.58	7.54
08:54	500	6000	29.6	7.78	13109	118	1.04	11	46.52	8.50	7.49
08:58	500	8000	29.8	7.78	13028	110	1.03	8	46.52	8.46	7.45
09:02	500	10000	29.8	7.78	12973	107	1.03	6	46.52	8.45	7.43
09:06	500	12000	29.9	7.78	12966	103	1.03	2	46.52	8.44	7.41

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/18/2020	Sample?	
Sample Time	09:07	Post Sampling Turbidity	
Sample ID	MW-84-193-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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			

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

MW-84-193



Mar 18, 2020 08:44:40 AM
Location: MW-84-193 Latitude: 0, Longitude: 0

MW-87-109

MW-87-109 - 03/18/2020

Location	<u>Topock</u>	Weather Conditions	<u>Cloudy</u>	Depth to Water (ft bmp)	<u>91.91</u>
Gauge or Sample	<u>Gauge and Sample</u>	Water Quality Meter	<u>YSI</u>	Measured Well Depth (ft bmp)	<u>109.00</u>
Purge Method	<u>Low Flow</u>	Casing Material	<u>PVC</u>	Water Column in Well	<u>17.09</u>
Purge Volume Units	<u>MI</u>	Casing Diameter (in)	<u>2</u>	Gallons in Well	<u>2.79</u>
Sampling Type	<u>Low Flow – QED Bladder Pump</u>	Pump Intake Depth (ft bmp)	<u>99</u>	Total Volume to Remove	<u>0.0</u>
Sampler	<u>Riggie</u>	Casing Volume to Remove	<u>0</u>		
Comments	<u></u>				

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:53	500	2000	24.2	7.81	2769	130	5.99	8	91.98	1.76	1.41
12:57	500	4000	25.7	7.68	2302	144	6.02	7	91.98	1.56	1.23
13:01	500	6000	26.4	7.63	2295	154	6.28	7	91.98	1.48	1.17
13:05	500	8000	26.5	7.61	2288	158	6.33	7	91.98	1.48	1.17
13:09	500	10000	26.6	7.62	2280	160	6.36	7	91.98	1.48	1.17

Sampling Summary

Did Well Dewater?	<u>No</u>	Field Parameters only- No Sample?	<u>0</u>
Sample Date	<u>03/18/2020</u>	Post Sampling Turbidity	<u></u>
Sample Time	<u>13:10</u>	Double Filter Turbidity	<u></u>
Sample ID	<u>MW-87-109-Q120</u>	Single Filter Turbidity	<u>2</u>
Duplicate Sample ID	<u></u>	Without Filter Turbidity	<u>7</u>
Dup Sample Time	<u></u>	MS/MSD Sample Time	<u></u>
Color	<u>Clear</u>	MS/MSD Sample ID	<u></u>
Odor	<u>None</u>	EB Time	<u>13:20</u>
		EB Sample ID	<u>Eb-791-q120</u>
		Remarks	<u></u>

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-87-139

MW-87-139 - 03/18/2020

Location	Topock	Weather Conditions	Cloudy	Depth to Water (ft bmp)	91.89
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	139.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	47.11
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	7.68
Sampling Type	Low Flow – QED Bladder Pump	Pump Intake Depth (ft bmp)	135	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cumulative Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
11:59	500	2000	21.5	7.19	7012	203	6.01	3	91.96	4.58	3.87
12:03	500	4000	21.6	7.19	7035	200	5.99	2	91.96	4.58	3.87
12:07	500	6000	21.7	7.20	7120	198	5.80	2	91.96	4.58	3.87
12:11	500	8000	21.7	7.20	7155	195	5.77	2	91.96	4.58	3.87
12:15	500	10000	21.7	7.20	7180	193	5.70	2	91.96	4.58	3.87

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/18/2020	Sample?	
Sample Time	12:16	Post Sampling Turbidity	
Sample ID	MW-87-139-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	2
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

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

MW-87-139



Mar 18, 2020 11:57:09 AM
Location: MW-87-139 Latitude: 0, Longitude: 0

MW-87-192

MW-87-192 - 03/18/2020

Location	Topock	Weather Conditions	Rain	Depth to Water (ft bmp)	92.05
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	192.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	99.95
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	16.3
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	182	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
13:04	500	2000	29.6	7.56	9227	159	1.27	1	92.10	5.99	5.13
13:08	500	4000	29.6	7.56	9190	159	1.25	1	92.10	5.97	5.11
13:12	500	6000	29.9	7.59	9064	150	1.13	1	92.10	5.88	5.03
13:16	500	8000	29.9	7.60	9038	145	1.09	1	92.10	5.87	5.01
13:20	500	10000	29.9	7.61	8962	141	1.08	1	92.10	5.82	4.97

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/18/2020	Sample?	
Sample Time	13:21	Post Sampling Turbidity	
Sample ID	MW-87-192-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	1
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	13:31
		EB Sample ID	Eb-792-q120
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
Survey Mark Present?	X			
Standing or Poned 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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

MW-87-275

MW-87-275 - 03/18/2020

Location	Topock	Weather Conditions	Rain	Depth to Water (ft bmp)	91.96
Gauge or Sample	Gauge and Sample	Water Quality Meter	YSI	Measured Well Depth (ft bmp)	275.00
Purge Method	Low Flow	Casing Material	PVC	Water Column in Well	183.04
Purge Volume Units	MI	Casing Diameter (in)	2	Gallons in Well	29.85
Sampling Type	Low Flow – Grundfos RF2	Pump Intake Depth (ft bmp)	265	Total Volume to Remove	0.0
Sampler	Riggie	Casing Volume to Remove	0		
Comments					

Field Parameters

Time	Flow Rate (ml/min)	Cuml Vol Purged	Temperature °C	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	TDS (g/L)	Salinity (ppt)
12:04	500	2000	29.0	7.38	11064	195	1.05	1	92.00	7.18	6.24
12:08	500	4000	29.2	7.55	11167	157	1.28	1	92.00	7.22	6.27
12:12	500	6000	29.7	7.62	11180	150	1.17	1	92.00	7.20	6.31
12:16	500	8000	29.8	7.64	11432	149	1.03	1	92.00	7.42	6.46
12:20	500	10000	29.8	7.64	11459	146	1.00	1	92.00	7.44	6.48

Sampling Summary

Did Well Dewater?	No	Field Parameters only- No	0
Sample Date	03/18/2020	Sample?	
Sample Time	12:21	Post Sampling Turbidity	
Sample ID	MW-87-275-Q120	Double Filter Turbidity	
Duplicate Sample ID		Single Filter Turbidity	1
Dup Sample Time		Without Filter Turbidity	1
Color	Clear	MS/MSD Sample Time	
Odor	None	MS/MSD Sample ID	
		EB Time	
		EB Sample ID	
		Remarks	

Well Integrity Checklist

Item	Yes	No	NA	Notes
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		

Groundwater Monitoring Field Data Form

Site: PGE Topock

Project Number: RC000753.0801

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

Gauging Data

Well	Date/Time	Depth To Water (ft)	Well Depth (ft)	Depth to LNAPL (ft)	Remarks
MW-75-033	03/16/2020 13:23	19.48	34.80		
MW-75-117	03/16/2020 12:50	19.68	118.11		
MW-75-202	03/17/2020 10:06	19.41	204.31		
MW-75-267	03/17/2020 08:38	19.41	268.58		
MW-75-337	03/16/2020 12:00	21.08	337.00		
MW-76-039	03/17/2020 12:24	27.75	38.33		
MW-76-156	03/17/2020 11:24	28.19	156.00		
MW-76-181	03/17/2020 11:59	28.46	182.71		
MW-76-218	03/17/2020 11:07	28.35	219.15		
MW-81-043	03/19/2020 09:00		44.61		
MW-81-098	03/19/2020 08:29	25.72	99.41		
MW-83-180	03/17/2020 13:57	75.19	180.00		
MW-84-057	03/18/2020 10:47	45.94	54.00		
MW-84-095	03/18/2020 10:06	45.90	95.00		
MW-84-132	03/18/2020 09:39	46.87	132.00		
MW-84-193	03/18/2020 08:44	46.44	193.00		
MW-87-109	03/18/2020 12:50	91.91	109.00		
MW-87-139	03/18/2020 11:56	91.89	139.00		
MW-87-192	03/18/2020 13:00	92.05	192.00		
MW-87-275	03/18/2020 12:00	91.96	275.00		

Site: PGE Topock
Topock, CA

MW-83-180

Date	04/23/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	74.18
Water Quality Meter	YSI	Gallons in Well	17.41
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	180.90
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	170
Water Column in Well	106.72	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/23/2020	EB Time	
Sample Time	11:16	MS/MSD Sample ID	
Sample ID	MW-83-180-0420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	04/23/2020

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)
11:01	500	1500	28.6	7.09	11342	-145.9	2.88	32.7	74.30	6.41	7.39
11:04	500	3000	28.9	7.26	11505	-67.8	2.22	13.7	74.37	6.52	7.50
11:07	500	4500	29.0	7.30	11550	-37.0	2.01	10.6	74.40	6.57	7.51
11:13	500	7500	29.0	7.32	11640	-4.3	1.75	5.90	74.42	6.60	7.57
11:15	500	9000	29.0	7.31	11648	0.8	1.56	6.0	74.42	6.64	7.60
21:10	500	6000	29.0	7.31	11664	-19.4	1.85	9.52	74.42	6.59	7.54

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		
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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-75-117

Date	04/20/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	107
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/20/2020	EB Sample ID	
Sample Time	14:44	EB Time	
Sample ID	MW-75-117-0420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	13	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/20/2020

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)
13:58	500	1500	28.2	7.14	11920	-156.6	1.14	147	17.96	6.75	7.7220
14:01	500	3000	28.9	7.37	11830	-108.0	0.55	85	17.99	6.71	7.6830
14:04	500	4500	28.7	7.39	11800	-99.1	0.52	262	17.99	6.70	7.6505
14:07	500	6000	28.2	7.40	11767	-89.3	0.46	424	17.99	6.70	7.7025
14:10	500	7500	29.0	7.71	11886	-85.9	.040	327	17.99	6.76	7.75
14:13	500	9000	28.8	7.75	11925	-82.0	0.37	283	17.99	6.80	7.76
14:16	500	10500	28.9	7.79	11983	-76.4	0.35	235	18.10	6.81	7.81
14:19	500	12000	29.0	7.80	12006	-74.2	0.33	206	18.10	6.84	7.81
14:22	500	13500	29.0	7.83	12012	-70.5	0.32	143	18.10	6.82	7.85
14:25	500	15000	29.0	7.46	12033	-68.1	0.31	124	18.10	6.83	7.83
14:28	500	16500	28.9	7.44	12026	-66.7	0.30	89.2	18.10	6.86	7.82
14:31	500	17000	28.9	7.46	12006	-60.80	0.28	54	18.10	6.84	7.84
14:34	500	18500	28.9	7.47	12030	-56.3	0.27	22	18.10	6.84	7.83
14:37	500	20000	28.9	7.47	12066	-54.6	0.27	13.1	18.10	6.86	7.81
14:39	500	21500	28.9	7.47	12018	-51.4	0.26	13.0	18.10	6.84	7.83
14:43	500	23000	29.0	7.47	12010	-48.7	0.26	13.0	18.10	6.85	7.81

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?		X		
Standing or Pondered Water?	X			
Lock in Place?		X		

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
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	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-033

Date	04/20/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	17.39
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	25
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/20/2020	EB Sample ID	
Sample Time	15:21	EB Time	
Sample ID	MW-75-033-0420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	20	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/20/2020

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)
03:08	500	4500	26.5	7.25	5145	63.6	4.87	39.1	17.45	2.76	3.35
15:02	500	1500	26.2	7.22	5166	58.5	4.87	99.5	17.41	2.77	3.36
15:05	500	3000	26.4	7.24	5118	61.1	4.85	59.7	17.43	2.77	3.34
15:11	500	6000	26.4	7.25	5153	66.0	4.85	29.0	17.45	2.74	3.34
15:14	500	7500	26.4	7.24	5105	67.3	4.78	21.8	17.45	2.72	3.30
15:17	500	9000	26.4	7.25	5081	66.1	4.68	21.5	17.45	2.71	3.31
15:18	500	10500	26.4	7.25	5051	66.4	4.58	20.0	17.45	2.68	3.27

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-84-057

Date	04/22/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	45.42
Sampling Type	Low Flow – Grundfos RF2	Gallons in Well	2.2
Casing Material	PVC	Measured Well Depth (ft bmp)	58.88
Casing Diameter (in)	2	Odor	None
Water Column in Well	13.46	Pump Intake Depth (ft bmp)	50
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/22/2020	EB Sample ID	
Sample Time	10:31	EB Time	
Sample ID	MW-84-057-0420	MS/MSD Sample ID	
Duplicate Sample ID	MW-919-Q220	MS/MSD Sample Time	
Dup Sample Time	10:41	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	12	Purge Date	04/22/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:15	500	1500	29.5	7.05	1914	98.5	7.23	73.5	45.50	0.96	1.24
10:18	500	3000	29.4	7.05	1914	100.5	7.23	45	45.55	0.96	1.24
10:21	500	4500	29.5	7.05	1914	101.20	7.20	32.7	45.61	0.96	1.24
10:24	500	6000	29.4	7.08	1911	100.7	7.21	22.1	45.64	0.96	1.24
10:27	500	7500	29.4	7.08	1906	99.7	7.20	12.3	45.65	0.96	1.24
10:30	500	9000	29.4	7.08	1905	99.5	7.20	12.3	45.65	0.96	1.24

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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**

MW-84-095

Date	04/22/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	45.30
Water Quality Meter	YSI	Gallons in Well	8.07
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	94.80
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	90
Water Column in Well	49.5	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/22/2020	EB Time	
Sample Time	09:39	MS/MSD Sample ID	
Sample ID	MW-84-095-0420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	14	Post Sampling Turbidity	
		Purge Date	04/22/2020

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)
09:14	500	1500	29.4	7.0	6155	161.0	1.60	1000	45.40	3.24	3.91
09:17	500	3000	29.4	7.0	6049	148.1	1.55	868	45.45	3.19	3.86
09:20	500	4500	29.4	7.0	6035	133.3	1.56	341	45.55	3.22	3.86
09:23	500	6000	29.4	7.03	6008	125.7	1.48	151	45.57	3.24	3.85
09:26	500	7500	29.5	7.03	6019	117.2	1.49	68.8	45.60	3.19	3.84
09:29	500	9000	29.4	7.04	5990	99.7	1.45	25.80	45.63	3.18	3.82
09:32	500	10500	29.4	7.05	5917	88.5	1.42	19.9	45.64	3.17	3.84
09:35	500	12000	29.4	7.04	5900	75.90	1.41	14.60	45.65	3.19	3.83
09:38	500	13500	29.4	7.05	5905	66.50	1.40	14.20	45.65	3.17	3.83

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		

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-84-132

Date	04/22/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	46.13
Water Quality Meter	YSI	Gallons in Well	14.31
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	133.87
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	122
Water Column in Well	87.74	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/22/2020	EB Time	
Sample Time	12:31	MS/MSD Sample ID	
Sample ID	MW-84-132-0420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	04/22/2020

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)
12:12	500	1500	28.7	6.91	7573	35.2	0.83	6.46	46.15	4.17	4.93
12:15	500	3000	29.0	7.02	7933	14.0	0.65	4.54	46.17	4.41	5.26
12:18	500	4500	29.0	7.14	9007	-13.3	0.86	6.93	46.19	5.04	5.94
12:21	500	6000	29.0	7.19	9308	-37.9	0.98	7.75	46.22	5.20	6.05
12:24	500	7500	29.0	7.21	9410	-39.0	0.97	7.06	46.25	5.24	6.11
12:27	500	9000	29.0	7.23	9304	-51.0	1.15	7.04	46.25	5.18	6.05
12:30	500	10500	29.0	7.23	9416	-58.1	1.01	7.04	46.25	5.21	6.10

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		

**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**

MW-84-193

Date	04/22/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	44.45
Water Quality Meter	YSI	Gallons in Well	24.23
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	193
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	183
Water Column in Well	148.55	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/22/2020	EB Time	
Sample Time	11:34	MS/MSD Sample ID	
Sample ID	MW-84-193-0420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	13	Post Sampling Turbidity	
		Purge Date	04/22/2020

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)
11:12	500	1500	29.4	6.65	12182	-183.0	1.03	7.22	44.48	6.96	7.90
11:15	500	3000	29.4	6.96	13114	-135.0	0.71	20.2	44.50	7.54	8.63
11:18	500	4500	29.4	7.04	13215	-100.4	0.69	19.2	44.54	7.58	8.69
11:21	500	6000	29.4	7.13	13417	-74.5	0.74	14.6	44.56	7.73	8.81
11:24	500	7500	29.4	7.15	13415	-74.1	1.15	14.3	44.56	7.70	8.85
11:27	500	9000	29.4	7.05	13640	-34.4	1.20	14.0	44.56	7.71	8.82
11:30	500	10500	29.8	7.10	13465	-27.0	1.30	14.0	44.60	7.70	8.73
11:33	500	12000	30.0	7.10	13600	-20.7	1.21	13.80	44.60	7.81	8.85

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-87-192

Date	04/22/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	91.63
Water Quality Meter	YSI	Gallons in Well	16.56
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	193.15
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	182
Water Column in Well	101.52	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/22/2020	EB Time	
Sample Time	14:36	MS/MSD Sample ID	
Sample ID	MW-87-192-0420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	04/22/2020

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)
14:20	500	1500	29.0	7.02	8904	-165.7	1.30	21.8	91.70	5.02	5.87
14:23	500	3000	29.0	7.14	9227	-117.2	0.94	21.3	91.76	5.13	5.98
14:26	500	4500	29.0	7.28	9350	-64.8	1.22	11.5	91.81	5.20	6.06
14:29	500	6000	29.0	7.32	9346	-21.1	1.56	6.65	91.85	5.19	6.07
14:32	500	7500	29.1	7.33	9261	-4.3	1.62	3.62	91.88	5.14	6.01
14:35	500	9000	29.0	7.33	9238	5.0	1.63	3.01	91.88	5.14	5.99

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		

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-87-275

Date	04/22/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	91.35
Water Quality Meter	YSI	Gallons in Well	30.15
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	276.20
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	265
Water Column in Well	184.85	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/22/2020	EB Time	
Sample Time	13:51	MS/MSD Sample ID	
Sample ID	MW-87-275-0420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	04/22/2020

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)
13:38	500	1500	29.1	7.08	11297	-112.3	2.63	20	91.41	6.42	7.3905
13:41	500	3000	29.9	7.28	11423	-47.3	1.76	4	91.41	6.48	7.4425
13:44	500	4500	29.4	7.34	11414	-40.1	1.47	4	91.41	6.49	7.449
13:47	500	6000	29.7	7.37	11504	-35.6	1.40	4	91.41	6.48	7.455
13:50	500	7500	29.9	7.37	11464	-41.3	1.39	4	91.41	6.47	7.470

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-87-109

Date	04/23/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	91.23
Water Quality Meter	YSI	Gallons in Well	3.24
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	111.10
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	99
Water Column in Well	19.87	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/23/2020	EB Time	
Sample Time	08:54	MS/MSD Sample ID	
Sample ID	MW-87-109-0420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	32	Post Sampling Turbidity	
		Purge Date	04/23/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:25	200	600	27.5	6.98	2818	185.0	8.0	1000	91.27	1.45	1.82
08:28	200	1200	27.4	7.05	2726	168.3	7.51	1000	91.30	1.40	1.76
08:31	200	1800	27.5	7.07	2697	157.7	7.30	968	91.32	1.39	1.75
08:34	200	2400	27.5	7.09	2660	142.7	6.86	379	91.35	1.42	1.72
08:37	200	3000	27.5	7.10	2662	138.1	6.84	172	91.37	1.37	1.72
08:40	200	3600	28.0	7.11	2651	132.7	6.85	106	91.40	1.36	1.72
08:43	200	4200	28.0	7.12	2637	127.2	6.99	66.7	91.42	1.36	1.71
08:46	200	4800	28.0	7.11	2660	124.2	6.97	38.9	91.43	1.37	1.72
08:49	200	5400	28.1	7.11	2666	118.6	6.88	32.3	91.44	1.37	1.72
08:53	200	6000	28	7.12	2652	117.0	6.91	32.0	91.44	1.36	1.72

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		

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Steel Casing Intact?		X		
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-87-139

Date	04/23/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	91.29
Water Quality Meter	YSI	Gallons in Well	8.08
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	140.83
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	134
Water Column in Well	49.54	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/23/2020	EB Time	
Sample Time	09:43	MS/MSD Sample ID	
Sample ID	MW-87-139-0420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	21	Post Sampling Turbidity	
		Purge Date	04/23/2020

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)
09:25	100	300	27.6	6.94	7290	112.2	6.62	26.4	91.31	4.07	4.82
09:28	100	600	27.5	6.85	7560	81.6	5.29	88.7	91.33	4.18	4.94
09:31	100	900	27.4	6.79	7816	2895	2.56	81.9	9.35	4.30	5.08
09:34	100	1200	28.0	6.84	7840	25.9	1.71	44.8	91.37	4.31	5.09
09:37	100	1500	28.0	6.89	7789	34.9	1.57	30.8	91.38	4.28	5.02
09:40	100	1800	28.1	6.91	7767	41.7	1.55	23.3	91.38	4.26	5.05
09:42	100	2100	28.2	6.91	7741	45.0	1.51	21.7	91.38	4.25	5.0

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		

**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**

MW-76-218

Date	04/21/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	26.06
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	213
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/21/2020	EB Sample ID	
Sample Time	10:15	EB Time	
Sample ID	MW-76-218-0420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	5	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/21/2020

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	1500	26.4	8.61	23605	-49.0	0.78	111	26.46	14.43	15.54
10:05	500	3000	27.0	8.09	24000	-6.7	0.55	16.66	26.50	14.52	15.61
10:08	500	4500	27.1	7.96	24104	15.6	0.45	7.43	26.55	14.59	15.63
10:11	500	6000	27.1	7.91	24117	21.2	0.40	5.61	26.57	14.55	15.69
10:14	500	7500	27.0	7.91	24105	21.6	0.37	5.74	26.57	14.62	15.67

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-76-181

Date	04/21/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	26.18
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/21/2020	EB Sample ID	
Sample Time	12:34	EB Time	
Sample ID	MW-76-181-0420	MS/MSD Sample ID	
Single Filter Turbidity	4	MS/MSD Sample Time	
Without Filter Turbidity	1	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/21/2020

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)
12:24	500	1500	26.1	7.46	20031	-12.1	1.68	13	26.45	12.03	13.18
12:24	500	3000	26.8	7.39	20563	16.4	0.63	5	26.45	12.29	13.413
12:27	500	4500	27.1	7.23	20836	26.5	0.45	4	26.45	12.45	13.598
12:30	500	600	27.2	7.21	20969	29.7	0.42	4	26.45	12.58	13.702
12:33	500	7500	27.2	7.20	21119	33.7	0.40	4	26.45	12.61	13.721

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	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-76-156

Date	04/21/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	26.18
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	151
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/21/2020	EB Sample ID	
Sample Time	10:53	EB Time	
Sample ID	MW-76-156-0420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	4	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/21/2020

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	1500	27.1	7.10	16990	63.7	1.14	13	26.26	9.99	11.128
10:43	500	3000	27.9	7.21	17430	-3.7	0.51	6	26.26	10.24	11.310
10:46	500	4500	28.1	7.24	17828	-34.7	0.43	5	26.26	10.45	11.625
10:49	500	6000	28.2	7.26	18016	-39.0	0.38	5	26.26	10.60	11.739
10:52	500	7500	28.2	7.27	18176	-37.1	0.31	5	26.26	10.59	11.856

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-76-039

Date	04/21/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	25.68
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	34
Sample Date	04/21/2020	Total Volume to Remove	
Sample Time	11:33	EB Sample ID	
Sample ID	MW-76-039-0420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	8	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/21/2020

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)
11:20	500	1500	28.1	7.17	4026	68.2	4.50	10	25.76	2.11	2.6065
11:23	500	3000	28.1	7.12	4002	70.3	4.40	8	25.76	2.10	2.6000
11:26	500	4500	28.0	7.08	3999	73.3	4.31	8	25.76	2.10	2.5935
11:29	500	6000	28.1	7.07	3982	71.4	4.33	8	25.76	2.09	2.5890
11:32	500	7500	28.1	7.06	3970	69.6	4.35	8	25.76	2.08	2.580

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-337

Date	04/20/2020	Sampler	Spencer Doolittle
Purge Method	Low Flow	Color	Clear
Purge Volume Units	Gal	Casing Volume to Remove	
Water Quality Meter	YSI	Depth to Water (ft bmp)	19.58
Sampling Type	River Sample	Gallons in Well	
Casing Material	PVC	Measured Well Depth (ft bmp)	338.30
Casing Diameter (in)	2	Odor	None
Water Column in Well	318.72	Pump Intake Depth (ft bmp)	327
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/20/2020	EB Sample ID	
Sample Time	13:16	EB Time	
Sample ID	MW-75-337-0420	MS/MSD Sample ID	
Duplicate Sample ID	MW-918-Q220	MS/MSD Sample Time	
Dup Sample Time	13:26	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	10	Purge Date	04/20/2020

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)
13:00	500	1500	29.1	7.20	23338	-271.4	1.16	24	20.52	14.98	16.302
13:04	500	3000	29.1	7.48	31257	-224.0	0.65	15	20.55	19.34	20.310
13:06	500	4500	29.6	7.49	31279	-222.0	0.59	9	20.61	19.37	20.332
13:09	500	6000	29.6	7.51	31306	-226.9	0.54	10	20.65	19.37	20.346
13:12	500	7500	29.6	7.51	31304	-227.0	0.51	10	20.66	19.39	20.3710
13:15	500	9000	29.7	7.52	31293	-226.6	0.49	10	20.69	19.38	20.338

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?		X		
Standing or Poned 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

MW-75-267

Date	04/21/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	16.60
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	257
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/21/2020	EB Sample ID	
Sample Time	08:41	EB Time	
Sample ID	MW-75-267-0420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	2	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	04/21/2020

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)
08:28	500	1500	26.5	7.14	23696	-195.3	0.76	3.93	18.09	14.39	15.47
08:31	500	3000	26.4	7.31	24078	-189.4	0.62	4.15	18.10	14.65	15.71
08:34	500	4500	26.4	7.35	24281	-183.9	0.56	3.75	18.20	14.71	15.77
08:37	500	6000	26.5	7.36	24355	-182.6	0.53	2.65	18.23	14.73	15.82
08:40	500	7500	26.5	7.37	24411	-182.4	0.51	2.15	18.24	14.76	15.86

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-75-202

Date	04/21/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	17.84
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Diameter (in)	2	Odor	None
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	192
Sample Date	04/21/2020	Total Volume to Remove	
Sample Time	09:20	EB Sample ID	
Sample ID	MW-75-202-0420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	1	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/21/2020

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)
09:10	500	1500	26.4	7.73	19151	-131.3	0.86	4.47	18.0	11.37	12.48
09:13	500	3000	26.4	7.42	19157	-111.5	0.62	2	18.15	11.34	12.45
09:16	500	4500	26.5	7.36	19107	-108.3	0.50	1.80	18.21	11.32	12.42
09:19	500	6000	27	7.33	19081	-108.2	0.41	1.73	18.23	11.31	12.44

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Standing or Poned 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		

Photos and Drawings

Site: PGE Topock
Topock, CA

**Site: PGE Topock
Topock, CA**

MW-81-043

Date	04/21/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	23.10
Water Quality Meter	YSI	Gallons in Well	3.51
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	44.61
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	38
Water Column in Well	21.51	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/21/2020	EB Time	
Sample Time	14:33	MS/MSD Sample ID	
Sample ID	MW-81-043-0420	MS/MSD Sample Time	14:33
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	04/21/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:13	500	1500	27.1	7.01	6784	-27.60	0.43	1000	23.38	3.70	4.40
14:16	500	3000	27.2	7.0	6823	-27.90	0.32	540	23.41	3.70	4.44
14:19	500	4500	27.1	6.95	6982	-19.9	0.56	79.8	23.47	3.79	4.45
14:22	500	6000	27.1	6.96	6990	-53.1	0.48	30.9	23.50	3.90	4.59
14:25	500	7500	27.2	6.97	7023	-64.0	0.41	21.5	23.51	3.95	4.62
14:28	500	9000	27.1	6.96	7203	-77.1	0.27	7.28	23.52	3.90	4.75
14:31	500	10500	27.1	6.95	7089	-78.60	0.25	6.29	23.53	3.91	4.74
14:32	500	12000	27.1	6.96	7090	-80.00	0.23	6.15	23.53	4.04	4.70

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-81-098

Date	04/21/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Volume Units	MI	Casing Volume to Remove	
Water Quality Meter	YSI	Depth to Water (ft bmp)	23.18
Sampling Type	Low Flow – Grundfos RF2	Gallons in Well	12.43
Casing Material	PVC	Measured Well Depth (ft bmp)	99.41
Casing Diameter (in)	2	Odor	None
Water Column in Well	76.23	Pump Intake Depth (ft bmp)	93
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/21/2020	EB Sample ID	
Sample Time	13:53	EB Time	
Sample ID	MW-81-098-0420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	11	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	04/21/2020

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)
13:37	500	1500	27.5	6.80	8891	4.5	0.64	90.5	23.33	4.85	6.71
13:40	500	3000	27.1	6.80	8752	-0.7	0.42	51.9	23.41	4.88	5.73
13:43	500	4500	27.1	6.81	8774	-0.5	0.33	28.9	23.44	4.88	5.72
13:46	500	6000	27.1	6.80	8826	-1.4	0.30	20.3	23.45	4.92	5.72
13:49	500	7500	27.2	6.80	8820	-2.0	0.27	12.2	23.45	4.89	5.76
13:52	500	9000	27.1	6.80	8789	-6.6	0.25	11.6	23.45	4.88	5.73

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**

C-NR3-D

Date	04/30/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	River Sample	Measured Well Depth (ft bmp)	13
Casing Material	PVC	Odor	none
Comments	2106791.17 ft N, 7611674.71 ft E	Pump Intake Depth (ft bmp)	12
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/30/2020	EB Sample ID	
Sample Time	11:02	EB Time	
Sample ID	C-NR3-D-Q220	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	1	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/30/2020

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)
11:01	500	2000	19.0	8.30	910	246.8	1.18	1		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR4-D

Date	04/30/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	River Sample	Measured Well Depth (ft bmp)	15
Casing Material	PVC	Odor	none
Comments	2108668.24 ft N, 7607945.22 ft E	Pump Intake Depth (ft bmp)	14
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/30/2020	EB Sample ID	
Sample Time	11:39	EB Time	
Sample ID	C-NR4-D-Q220	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	1	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/30/2020

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)
11:38	500	2000	19.3	8.30	912	243.7	1.15	1		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R22A-D

Date	04/29/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	River Sample	Measured Well Depth (ft bmp)	7.5
Did Well Dewater?	NA	Odor	none
Sample Date	04/29/2020	Pump Intake Depth (ft bmp)	6.5
Sample Time	10:20	Total Volume to Remove	
Sample ID	C-R22A-D-Q220	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	1	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/29/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:19	500	2000	18.9	7.84	909	156	1.87	1		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-TAZ-D

Date	04/29/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	River Sample	Measured Well Depth (ft bmp)	15
Did Well Dewater?	No	Odor	none
Sample Date	04/29/2020	Pump Intake Depth (ft bmp)	14
Sample Time	09:00	Total Volume to Remove	
Sample ID	C-TAZ-D-Q220	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	1	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/29/2020

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)
09:00	500	2000	18.2	8.24	906	182	2.66	1		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-09

Date	04/24/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	81.10
Water Quality Meter	YSI	Gallons in Well	1.3
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	89.10
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Water Column in Well	8.0	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/24/2020	EB Time	
Sample Time	07:40	MS/MSD Sample ID	
Sample ID	MW-09-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	04/24/2020

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)
07:27	500	1500	28.4	6.85	3426	3426	5.58	5.43	81.15	1.78	2.22
07:30	500	3000	29.0	6.87	3412	141.3	5.44	4.71	81.20	1.77	2.21
07:33	500	4500	30.0	6.89	3376	116.3	5.27	4.09	81.24	1.75	2.18
07:36	500	6000	30.0	6.90	3348	107.7	5.12	3.63	81.26	1.74	2.17
07:39	500	7500	30.0	6.90	3329	102.2	5.06	3.50	81.26	1.72	2.15

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-10

Date	04/23/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	75.46
Water Quality Meter	YSI	Gallons in Well	3.47
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	96.71
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	84
Water Column in Well	21.25	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/23/2020	EB Time	
Sample Time	12:12	MS/MSD Sample ID	
Sample ID	MW-10-0420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	20	Post Sampling Turbidity	
		Purge Date	04/23/2020

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)
11:59	500	1500	29.4	6.93	3240	81.40	5.67	31.9	75.50	1.68	2.10
12:02	500	3000	29.8	6.94	3232	82.1	5.44	30	75.55	1.68	2.1
12:05	500	4500	29.9	6.94	3220	82.5	5.16	23.90	75.60	1.67	2.10
12:08	500	6000	29.3	6.94	3200	89.1	4.95	21.7	75.62	1.66	2.08
12:11	500	7500	29.4	6.93	3193	90.0	4.88	20.1	75.62	1.65	2.07

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-11

Date	04/23/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	67.19
Water Quality Meter	YSI	Gallons in Well	3.01
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	85.63
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	75
Water Column in Well	18.44	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/23/2020	EB Time	
Sample Time	12:52	MS/MSD Sample ID	
Sample ID	MW-11-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	04/23/2020

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)
12:39	500	1500	31.2	6.93	2444	90.1	8.29	7.24	67.25	1.24	1.59
12:42	500	3000	31.0	6.94	2446	89.6	8.14	7.97	67.29	1.24	1.58
12:45	500	4500	31.0	6.93	2441	89.4	8.01	4.68	67.30	1.24	1.58
12:48	500	6000	31.0	6.93	2450	90.4	8.01	4.89	67.31	1.24	1.59
12:51	500	7500	31.0	6.93	2447	91.4	7.95	5.00	67.31	1.24	1.59

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		

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-12

Date	04/28/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	29.30
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	48.89
Casing Diameter (in)	4	Odor	None
Water Column in Well	19.59	Pump Intake Depth (ft bmp)	38
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/28/2020	EB Sample ID	
Sample Time	15:06	EB Time	
Sample ID	MW-12-Q220	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	5	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	04/28/2020

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)
14:53	500	1500	29.9	7.62	6979	46.2	2.14	16	48.96	3.80	4.5565
14:56	500	3000	29.9	7.65	6982	48.5	2.12	7	48.96	3.80	4.5500
14:59	500	4500	30.9	7.66	6976	49.4	2.12	5	48.96	3.79	4.5435
15:02	500	6000	30.7	7.66	6986	50.0	2.12	5	48.96	3.80	4.5305
15:05	500	7500	30.9	7.66	6966	51.0	2.14	5	49.86	3.81	4.5306

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-19

Date	04/27/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	45.63
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	65.40
Casing Material	PVC	Odor	None
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	56
Water Column in Well	19.77	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/27/2020	EB Time	
Sample Time	13:22	MS/MSD Sample ID	
Sample ID	MW-19-Q220	MS/MSD Sample Time	
Single Filter Turbidity	17	Double Filter Turbidity	
Without Filter Turbidity	1	Post Sampling Turbidity	
		Purge Date	04/27/2020

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)
13:06	500	1500	29.7	6.68	2176	106.4	2.47	250	45.69	1.09	1.404
13:09	500	3000	29.3	6.76	2150	99.0	2.40	58	45.69	1.09	1.3975
13:12	500	4500	29.2	6.78	2140	83.6	2.39	30	45.69	1.07	1.391
13:15	500	6000	29.9	6.79	2135	83.7	2.37	18	45.69	1.08	1.391
13:18	500	7500	29.9	6.79	2127	83.8	2.34	17	45.69	1.08	1.3845
13:21	500	9000	29.9	6.79	2131	84.4	2.37	17	45.69	1.08	1.3845

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-20-070

Date	04/24/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	45.63
Water Quality Meter	YSI	Gallons in Well	3.78
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	68.83
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	60
Water Column in Well	23.2	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/24/2020	EB Time	
Sample Time	09:43	MS/MSD Sample ID	
Sample ID	MW-20-070-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	04/24/2020

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)
09:30	500	1500	29.4	7.10	2201	84.7	7.77	6.44	45.67	1.12	1.43
09:33	500	3000	30.2	7.06	2206	87.8	7.83	4.20	45.70	1.12	1.43
09:36	500	4500	30.8	7.05	2206	89.2	7.96	3.21	45.72	1.12	1.43
09:39	500	6000	30.7	7.05	2212	89.7	7.92	3.19	45.75	1.12	1.43
09:42	500	7500	30.7	7.05	2215	90.4	7.94	3.10	45.75	1.12	1.43

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-20-100

Date	04/24/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	45.45
Water Quality Meter	YSI	Gallons in Well	8.95
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	100.35
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	94.5
Water Column in Well	54.9	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/24/2020	EB Time	
Sample Time	08:47	MS/MSD Sample ID	
Sample ID	MW-20-100-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	04/24/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:31	500	1500	28.7	6.94	2135	87.8	7.09	2.65	45.50	1.08	1.38
08:34	500	3000	28.8	6.87	2133	91.3	6.94	2.97	45.54	1.08	1.38
08:37	500	4500	29.1	6.83	2134	93.9	6.84	2.69	45.56	1.08	1.38
08:40	500	6000	29.2	6.83	2133	94.2	6.83	2.46	45.56	1.08	1.38
08:43	500	7500	29.3	6.82	2134	94.8	6.82	2.55	45.56	1.08	1.38
08:46	500	9000	29.4	6.82	2136	95.5	6.82	2.31	45.56	1.08	1.39

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		
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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-20-130

Date	04/24/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	46.70
Water Quality Meter	YSI	Gallons in Well	13.57
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	129.90
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	126
Water Column in Well	83.2	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/24/2020	EB Time	
Sample Time	10:26	MS/MSD Sample ID	
Sample ID	MW-20-130-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	04/24/2020

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)
10:13	500	1500	29.9	7.13	12519	70.8	2.22	8.54	46.75	7.15	8.15
10:16	500	3000	29.9	7.09	12480	71.7	1.93	4.28	46.78	7.15	8.11
10:19	500	4500	29.9	7.02	12528	72.4	1.70	4.58	46.80	7.13	8.18
10:22	500	6000	29.9	6.98	12472	72.4	1.56	4.52	46.80	7.13	
10:25	500	7500	29.9	6.95	12519	72.4	1.46	4.30	46.80	7.07	8.11

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-21

Date	04/29/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	50.75
Water Quality Meter	YSI	Gallons in Well	4.85
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	58.19
Casing Diameter (in)	4	Odor	None
Water Column in Well	7.44	Pump Intake Depth (ft bmp)	58
Did Well Dewater?	Yes	Total Volume to Remove	
Sample Date	04/30/2020	EB Sample ID	
Sample Time	15:00	EB Time	
Sample ID	MW-21-Q220	MS/MSD Sample ID	
Single Filter Turbidity	2	MS/MSD Sample Time	
Without Filter	36	Double Filter Turbidity	1
Turbidity		Post Sampling Turbidity	
		Purge Date	04/29/2020

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)
09:49	500	1500	28.9	6.66	11725	-112.5	1.37	7	51.68	6.63	7.5725
09:52	500	3000	29.5	6.73	11214	-116.3	1.01	5	52.42	6.31	7.2605
09:55	500	4500	30.9	6.77	11047	-111.9	0.99	6	55.06	6.21	7.1760
15:00			31.0	6.85	12045	-132.5	0.91	36	50.69	6.45	7.4658

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		

Photos and Drawings

Site: PGE Topock
Topock, CA

Site: PGE Topock
Topock, CA

MW-26

Date	04/27/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	47.53
Water Quality Meter	YSI	Gallons in Well	14.33
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	69.49
Casing Material	PVC	Odor	None
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	60
Water Column in Well	21.96	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/27/2020	EB Time	
Sample Time	13:53	MS/MSD Sample ID	
Sample ID	MW-26-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	22	Post Sampling Turbidity	
		Purge Date	04/27/2020

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)
13:40	500	1500	30.7	6.68	3881	168.4	2.30	22	47.66	2.03	2.522
13:43	500	3000	30.8	6.74	3845	142.3	2.21	24	47.66	2.01	2.496
13:46	500	4500	30.6	6.75	3826	132.7	2.19	23	47.66	2.00	2.483
13:49	500	6000	30.9	6.74	3802	128.9	2.17	23	47.66	2.00	2.4895
13:52	500	7500	30.9	6.75	3832	126.2	2.16	22	47.66	2.00	2.4895

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-35-060

Date	04/27/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	37.90
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	57.02
Casing Diameter (in)	2	Odor	None
Water Column in Well	19.12	Pump Intake Depth (ft bmp)	48
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/27/2020	EB Sample ID	
Sample Time	12:01	EB Time	
Sample ID	MW-35-060-Q220	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	35	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	04/27/2020

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)
11:42	500	1500	29.4	6.55	3853	72.5	2.35	203	37.93	2.01	2.495
11:45	500	3000	29.3	6.67	3824	54.4	2.28	180	37.93	2.01	2.496
11:48	500	4500	29.4	6.75	3867	54.0	2.27	117	37.93	2.04	2.522
11:51	500	6000	28.9	6.77	3914	52.7	2.28	59	37.93	2.05	2.5415
11:54	500	7500	28.9	6.79	3949	50.2	2.25	36	37.93	2.08	2.5740
11:57	500	9000	29.0	6.79	3964	49.5	2.23	35	37.93	2.09	2.580
12:00	500	10500	28.9	6.79	3952	49.6	2.23	35	37.93	2.08	2.5675

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-35-135

Date	04/27/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	26.11
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	154.45
Casing Diameter (in)	2	Odor	None
Water Column in Well	128.34	Pump Intake Depth (ft bmp)	126
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/27/2020	EB Sample ID	
Sample Time	12:41	EB Time	
Sample ID	MW-35-135-Q220	MS/MSD Sample ID	
Duplicate Sample ID	Spencer Doolittle	MS/MSD Sample Time	
Single Filter Turbidity	41	Double Filter Turbidity	
Without Filter Turbidity	1	Post Sampling Turbidity	
		Purge Date	04/27/2020

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)
12:27	500	1500	27.9	6.95	10675	70.9	1.32	123	26.19	6.07	6.9875
12:30	500	3000	27.7	7.06	10952	32.8	0.81	57	26.22	6.19	7.1104
12:33	500	4500	27.9	7.08	10803	27.2	00.70	43	26.22	6.13	7.059
12:36	500	6000	27.6	7.08	10964	24.6	0.65	40	26.22	6.20	7.150
12:39	500	7500	27.6	7.08	10964	24.4	0.63	41	26.22	6.22	7.143

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-38D

Date	04/23/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	70.98
Water Quality Meter	YSI	Gallons in Well	18.54
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	184.62
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	173
Water Column in Well	113.64	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/23/2020	EB Time	
Sample Time	14:53	MS/MSD Sample ID	
Sample ID	MW-38D-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	21	Post Sampling Turbidity	
		Purge Date	04/23/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:58	500	1500	30.8	9.17	22280	-139.0	1.88	912	71.02	13.37	14.54
14:01	500	3000	31	7.74	22555	-41.2	0.40	890	71.15	13.47	14.63
14:04	500	4500	31.1	7.69	22535	-31.0	0.30	878	71.21	13.52	14.65
14:07	500	6000	31.1	7.69	22609	-23.0	0.26	800	71.26	13.50	14.67
14:10	500	7500	31.1	7.68	22606	-22.2	0.25	750	71.30	13.51	14.68
14:13	500	9000	31.1	7.67	22611	-21.6	0.24	560	71.35	13.54	14.72
14:16	500	10500	31.2	7.65	22631	-19.3	0.23	500	71.37	13.51	14.70
14:19	500	12000	31.2	7.63	22633	-18.3	0.21	432	71.38	13.55	14.70
14:22	500	13500	31.1	7.60	22584	-16.8	0.20	371	71.40	13.55	14.73
14:25	500	15000	31.1	7.57	22683	-16.8	0.21	239	7.41	13.60	14.78
14:28	500	16500	31.2	7.57	22777	-28.3	0.17	180	71.42	13.58	14.77
14:31	500	18000	31.2	7.54	22712	-40.6	0.14	96	71.45	13.60	14.76
14:34	500	19500	31.2	7.54	22722	-48.7	0.14	75.4	71.47	13.60	14.79
14:37	500	21000	31.2	7.54	22733	-54.1	0.13	51.7	71.47	13.61	14.77
14:40	500	22500	31.2	7.55	22780	-53.2	0.13	43.5	71.47	13.60	14.76
14:43	500	24000	31.2	7.55	22778	-51.7	0.13	39.8	71.47	13.58	14.75
14:46	500	25500	31.2	7.54	22765	-52.6	0.12	29.8	17.47	13.60	14.76
14:49	500	27000	31.2	7.54	22730	-50.0	0.12	22.2	17.47	13.59	14.79
14:52	500	28500	31.2	7.54	22715	-48.0	0.12	21	17.47	13.62	14.77

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
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		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-38S

Date	04/23/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	71.07
Water Quality Meter	YSI	Gallons in Well	4.43
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	98.22
Casing Diameter (in)	2	Odor	None
Water Column in Well	27.15	Pump Intake Depth (ft bmp)	85
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/23/2020	EB Sample ID	
Sample Time	13:33	EB Time	
Sample ID	MW-38S-Q220	MS/MSD Sample ID	
Duplicate Sample ID	MW-910-Q220	MS/MSD Sample Time	
Dup Sample Time	13:43	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	5	Purge Date	04/23/2020

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)
13:20	500	1500	31.0	7.30	1712	66.5	1.48	19.9	71.10	0.85	1.10
13:23	500	3000	31.0	7.31	1699	65.5	1.09	14.4	71.15	0.86	1.11
13:26	500	4500	31.2	7.29	1688	65.1	0.91	10.4	71.19	0.84	1.09
13:29	500	6000	31.2	7.29	1676	62.8	0.80	5.49	71.21	0.83	1.09
13:32	800	7500	31.2	7.28	1670	61.4	0.75	5.41	71.21	0.83	1.09

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-48

Date	04/29/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	Gal	Depth to Water (ft bmp)	31.66
Water Quality Meter	YSI	Gallons in Well	16.98
Sampling Type	Volume Purge – Grundfos RF2	Measured Well Depth (ft bmp)	135.76
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	125
Water Column in Well	104.1	Total Volume to Remove	
		EB Sample ID	
		EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/29/2020

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)
08:45	3	8	28.3	7.14	18224	12.7	2.02	9	77.41	10.73	11.8560
08:48	2	12	29.0	7.07	18251	17.6	1.98	5	126.95	10.74	11.8625

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		

Photos and Drawings

Site: PGE Topock
Topock, CA

**Site: PGE Topock
Topock, CA**

MW-51

Date	04/27/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	47.00
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	113.10
Casing Material	PVC	Odor	None
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	105
Water Column in Well	66.1	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/27/2020	EB Time	
Sample Time	14:26	MS/MSD Sample ID	
Sample ID	MW-51-Q220	MS/MSD Sample Time	
Duplicate Sample ID	MW-907-Q220	Double Filter Turbidity	
Dup Sample Time	14:36	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	04/27/2020
Without Filter Turbidity	3		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:13	500	1500	30.4	6.95	11069	99.1	1.92	4	47.13	6.27	7.2800
14:16	500	3000	30.9	6.97	11740	98.1	1.87	3	47.15	6.69	7.285
14:19	500	4500	30.9	6.97	12152	96.9	1.83	3	47.15	6.93	7.8945
14:22	500	6000	30.8	6.97	12331	96.0	1.82	3	47.15	7.01	8.0600
14:25	500	7500	30.9	6.97	12413	95.9	1.81	3	47.15	7.06	8.0275

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-62-065

Date	04/28/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	47.95
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	63.40
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	54
Water Column in Well	15.45	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/28/2020	EB Time	
Sample Time	11:31	MS/MSD Sample ID	
Sample ID	MW-62-065-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	44	Post Sampling Turbidity	
		Purge Date	04/28/2020

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)
11:18	500	1500	29.1	6.89	6786	2.4	1.60	61	49.70	3.65	4.368
11:21	500	3000	30.4	6.92	6662	12.7	1.62	55	50.10	3.55	4.278
11:24	500	4500	31.1	6.93	6576	26.7	1.67	45	50.16	3.52	4.225
11:27	500	6000	31.1	6.93	6481	33.2	1.68	44	50.20	3.51	4.251
11:30	500	7500	32.4	6.94	6515	34.8	1.65	44	50.22	3.49	4.225

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-62-110

Date	04/28/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	Gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Extraction port	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	None
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	
Sample Date	04/29/2020	Total Volume to Remove	
Sample Time	14:20	EB Sample ID	
Sample ID	MW-62-110-Q220	EB Time	
Single Filter Turbidity	2	MS/MSD Sample ID	
Without Filter Turbidity	1	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/28/2020

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)
08:21	0.5	6.0	28.0	6.98	13505	-181.5	1.89	2		7.76	8.775
10:53	0.5	2.0	28.4	6.69	12895	-155.7	2.11	3		4.98	5.8436
17:31	0.5	4.0	28.4	6.91	13487	-177.9	1.91	2		7.72	8.7295

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?			X	
Standing or Poned 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		

Photos and Drawings

Site: PGE Topock
Topock, CA

**Site: PGE Topock
Topock, CA**

MW-62-190

Date	04/28/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Extraction Port	Casing Volume to Remove	
Purge Volume Units	Gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Extraction port	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	None
Did Well Dewater?	Yes	Pump Intake Depth (ft bmp)	
Sample Date	04/29/2020	Total Volume to Remove	
Sample Time	14:30	EB Sample ID	
Sample ID	MW-62-190-Q220	EB Time	
Duplicate Sample ID	MW-908-Q220	MS/MSD Sample ID	
Dup Sample Time	14:40	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	1	Post Sampling Turbidity	
		Purge Date	04/28/2020

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)
08:11	0.5	6	28.9	6.39	18061	-240.9	1.20	1		10.64	11.7455
11:05	0.5	2	28.7	6.68	19510	-118.3	1.18	2			
17:28	0.5	4	28.9	6.45	18325	-236.4	1.36	1		10.69	11.7456

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?		X		
Standing or Poned 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		

Photos and Drawings

Site: PGE Topock
Topock, CA

**Site: PGE Topock
Topock, CA**

MW-65-160

Date	04/29/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	141.40
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	160.29
Casing Diameter (in)	2	Odor	None
Water Column in Well	18.89	Pump Intake Depth (ft bmp)	155
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/29/2020	EB Sample ID	
Sample Time	11:07	EB Time	
Sample ID	MW-65-160-Q220	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	45	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/29/2020

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)
10:57	200	600	28.9	7.06	3183	69.1	2.19	45	141.50	1.59	1.9955
11:00	200	1200	28.7	7.32	2864	69.6	2.22	46	141.52	1.47	1.8525
11:03	200	1800	28.7	7.38	2881	70.4	2.18	45	141.52	1.49	1.872
11:06	200	2400	28.6	7.40	2932	69.4	2.20	46	141.52	1.52	1.9910

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		

Photos and Drawings

Site: PGE Topock
Topock, CA

Site: PGE Topock
Topock, CA

MW-65-225

Date	04/29/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	140.80
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	225.07
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	84.27	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/29/2020	EB Time	
Sample Time	12:05	MS/MSD Sample ID	
Sample ID	MW-65-225-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	40	Post Sampling Turbidity	
		Purge Date	04/29/2020

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)
11:38	500	1500	29.4	6.88	13767	70.2	1.71	877	141.41	8.28	9.3660
11:41	500	3000	29.6	7.01	14696	62.1	1.14	496	141.41	8.35	9.4185
11:44	500	4500	30.9	7.00	14091	48.0	1.03	387	141.45	8.19	9.2825
11:49	500	7000	30.7	7.06	15279	40.5	0.78	197	141.46	8.79	9.8870
11:54	500	9500	30.9	7.03	14672	34.0	0.69	42	141.46	8.44	9.503
11:59	500	12000	31.0	7.00	14544	32.8	0.70	40	141.46	8.06	9.1390
12:04	500	14500	31.1	7.00	14433	32.8	0.72	39	141.46	8.00	9.0545

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		

**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**

MW-66-165

Date	04/29/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	130.56
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	160.63
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	152
Water Column in Well	30.07	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/29/2020	EB Time	
Sample Time	13:11	MS/MSD Sample ID	
Sample ID	MW-66-165-Q220	MS/MSD Sample Time	
Single Filter Turbidity	45	Double Filter Turbidity	
Without Filter Turbidity	1	Post Sampling Turbidity	
		Purge Date	04/29/2020

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)
12:58	500	1500	31.6	6.76	3367	80.8	2.45	30	131.22	1.85	2.3270
13:01	500	3000	31.4	6.86	4139	72.9	2.42	52	131.25	2.18	2.7040
13:04	500	4500	32.1	6.88	4210	82.1	2.36	47	131.25	2.21	2.7430
13:07	500	6000	32.3	6.87	4218	84.8	2.33	46	131.25	2.20	2.7300
13:10	500	7500	32.6	6.89	4249	85.9	2.33	45	131.26	2.33	2.7625

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-66-230

Date	04/29/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	131.09
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	227.05
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	223
Water Column in Well	95.96	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/29/2020	EB Time	
Sample Time	13:50	MS/MSD Sample ID	
Sample ID	MW-66-230-Q220	MS/MSD Sample Time	
Duplicate Sample ID	MW-909-Q220	Double Filter Turbidity	
Dup Sample Time	14:00	Post Sampling Turbidity	
Single Filter Turbidity	9	Purge Date	04/29/2020
Without Filter Turbidity	1		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:37	500	1500	32.1	7.16	18383	74.5	1.99	14	131.33	10.72	11.8885
13:40	500	3000	30.8	7.29	18322	66.4	1.67	12	131.36	10.73	11.9213
13:43	500	4500	31.5	7.39	18436	55.3	1.49	9	131.36	10.83	12.0250
13:46	500	6000	32.0	7.39	18529	59.8	1.44	9	131.36	10.85	12.0315
13:49	500	7500	32.2	7.38	18624	61.3	1.39	9	131.39	10.96	12.0550

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-67-185

Date	04/30/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	170.53
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	186.50
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	182
Water Column in Well	15.97	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/30/2020	EB Time	
Sample Time	10:09	MS/MSD Sample ID	
Sample ID	MW-67-185-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	13	Post Sampling Turbidity	
		Purge Date	04/30/2020

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)
09:43	500	2500	33.9	6.91	8132	96.6	1.66	135	171.20	4.45	5.2910
09:48	500	5000	33.5	6.85	7927	90.3	1.61	53	171.22	4.35	5.1675
09:48	500	7500	33.8	6.86	8206	90.3	1.55	17	171.22	4.49	5.3755
09:58	500	10000	34.0	6.82	8282	91.1	1.44	13	171.22	4.51	5.369
10:03	500	12500	34.2	6.80	8276	91.0	1.46	13	171.22	4.48	5.3755
10:08	500	1500	34.2	6.78	8221	91.3	1.52	13	171.22	4.50	5.3495

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		
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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-67-225

Date	04/30/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	170.46
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	224.88
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	217
Water Column in Well	54.42	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/30/2020	EB Time	
Sample Time	11:15	MS/MSD Sample ID	
Sample ID	MW-67-225-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	10	Post Sampling Turbidity	
		Purge Date	04/30/2020

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)
10:34	500	2500	30.2	7.23	7209	56.2	1.86	1000	171.09	3.89	4.6085
10:39	500	5000	32.3	7.17	7517	67.2	1.83	403	171.09	4.07	4.8425
10:44	500	7500	32.2	7.17	7432	70.6	1.87	327	171.09	4.05	4.8555
10:49	500	10000	32.2	7.16	7409	76.1	1.83	164	171.09	4.05	4.8555
10:54	500	12500	32.1	7.15	7456	77.1	1.87	101	171.09	4.05	4.8035
10:59	500	15000	32.1	7.15	7405	79.0	1.87	56	171.09	4.09	4.8295
11:04	500	17500	32.1	7.14	7449	79.4	1.98	10	171.09	4.05	4.8490
11:09	500	20000	32.1	7.16	7429	80.2	1.89	10	171.09	4.08	4.8685
11:14	500	22500	32.1	7.14	7423	80.5	1.91	10	171.09	4.05	4.8165

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?		X		
Standing or Poned 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	

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
PVC Cap Present?	X			
Standing Water in Annulus?	X			
Well Casing Intact?	X			
Photo Taken?		X		

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-67-260

Date	04/30/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	169.57
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	259.73
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	255
Water Column in Well	90.16	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/30/2020	EB Time	
Sample Time	09:04	MS/MSD Sample ID	
Sample ID	MW-67-260-Q220	MS/MSD Sample Time	
Single Filter Turbidity	9	Double Filter Turbidity	
Without Filter Turbidity	1	Post Sampling Turbidity	
		Purge Date	04/30/2020

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)
08:43	500	2500	29.9	8.85	15670	-90.9	1.70	25	169.69	10.03	11.2450
08:48	500	5000	30.4	8.23	19076	4.3	1.00	15	169.69	11.19	12.3760
08:53	500	7500	31.4	8.26	19149	23.1	0.77	9	169.69	11.27	12.4280
08:58	500	10000	31.5	8.24	19112	18.3	0.69	9	169.69	11.19	12.3825
09:03	500	12500	31.5	8.26	19033	20.0	0.63	9	169.69	11.26	12.3955

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?		X		
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-68-180

Date	04/30/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	165.56
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	180
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	172
Water Column in Well	14.44	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/30/2020	EB Time	
Sample Time	13:33	MS/MSD Sample ID	
Sample ID	MW-68-180-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	04/30/2020

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)
13:16	250	1000	31.9	7.21	5.405	83.3	2.63	5	165.71	2.86	3.5295
13:20	250	2000	31.1	7.05	5491	82.3	2.59	5	165.71	2.93	3.5685
13:24	250	3000	31.2	6.80	5395	96.5	2.55	4	165.71	2.89	3.5165
13:28	250	4000	31.3	6.77	5279	99.3	2.50	4	165.71	2.81	3.4320
13:32	250	5000	31.3	6.78	5235	100.9	2.59	4	165.71	2.97	3.6010

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			

Site: PGE Topock
Topock, CA

**Site: PGE Topock
Topock, CA**

MW-68-240

Date	04/30/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	165.70
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	240
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	230
Water Column in Well	74.3	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/30/2020	EB Time	
Sample Time	14:21	MS/MSD Sample ID	
Sample ID	MW-68-240-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	04/30/2020

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)
14:04	250	1000	31.3	6.88	16944	77.6	2.16	8	165.89	9.90	11.0695
14:08	250	2000	31.1	6.94	17086	59.5	1.33	4	165.89	9.96	11.0956
14:12	250	3000	30.8	6.94	17103	53.7	1.24	4	165.89	9.97	11.0897
14:16	250	4000	30.9	6.95	17111	51.0	1.03	4	165.89	9.97	11.1215
14:20	250	5000	30.8	6.95	17085	50.8	1.00	4	165.89	9.98	11.1150

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-68BR-280

Date	04/30/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Volume Units	Gal	Casing Volume to Remove	
Water Quality Meter	YSI	Depth to Water (ft bmp)	163.91
Sampling Type	Volume Purge – Grundfos RF2	Gallons in Well	
Casing Material	PVC	Measured Well Depth (ft bmp)	280
Casing Diameter (in)	6	Odor	None
Water Column in Well	116.09	Pump Intake Depth (ft bmp)	267
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/30/2020	EB Sample ID	
Sample Time	12:56	EB Time	
Sample ID	MW-68BR-280-Q220	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	5	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/30/2020

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)
12:29	2.5	40	30.1	8.04	21895	-170.1	1.82	22	225.19	13.07	14.2415
12:39	2.5	64	30.2	8.49	21950	-157.1	1.50	15	235.09	13.11	14.2415
12:43	0.1	64.4	30.9	8.63	21967	-153.0	1.22	15	234.97	13.15	14.3065
12:47	0.1	64.8	30.9	8.71	22060	-153.9	0.89	5	234.97	13.16	14.3456
12:51	0.1	65.2	29.9	8.71	22027	-156.3	0.86	5	234.97	13.19	14.3390
12:55	0.1	65.6	30.0	8.73	22088	-156.7	0.76	5	234.97	13.18	14.3455

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-71-035

Date	04/29/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	28.71
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	35.20
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	33
Water Column in Well	6.49	Total Volume to Remove	
Did Well Dewater?	Yes	EB Sample ID	
		EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/29/2020

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)
09:14	500	1500	29.1	6.51	14270	-106.5	2.11	276	30.13	8.16	9.243
09:17	500	3000	29.6	6.46	14118	-125.1	1.27	24	31.45	8.14	9.1715

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		

Photos and Drawings

Site: PGE Topock
Topock, CA

**Site: PGE Topock
Topock, CA**

MW-72-080

Date	04/28/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	57.10
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	78.97
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	69
Water Column in Well	21.87	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/28/2020	EB Time	
Sample Time	13:56	MS/MSD Sample ID	
Sample ID	MW-72-080-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	44	Post Sampling Turbidity	
		Purge Date	04/28/2020

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	1500	29.3	7.18	15904	1.8	0.79	1000	57.26	9.29	10.393
13:27	500	3000	29.4	7.25	16260	-10.7	0.67	856	57.26	9.49	10.569
13:30	500	4500	29.3	7.26	16262	-11.9	0.66	572	57.26	9.43	10.555
13:33	500	6000	29.5	7.26	16158	-9.8	0.76	262	57.26	9.37	10.4585
13:36	500	7500	29.9	7.26	16124	-9.6	0.78	181	57.26	9.42	10.5235
13:40	500	9000	29.9	7.26	16142	-6.6	0.87	124	57.26	9.42	10.5300
13:43	500	10500	29.5	7.26	16153	-6.0	0.89	99	57.26	9.34	10.445
13:46	500	12000	28.9	7.25	16240	-3.9	0.96	69	57.26	9.45	10.5430
13:49	500	13500	28.3	7.25	16246	-3.6	0.97	52	57.26	9.46	10.5625
13:52	500	15000	28.9	7.25	16255	-3.0	0.97	45	57.26	9.44	10.5495
13:55	500	16500	29.0	7.25	16289	-2.7	0.97	44	57.26	9.48	10.5755
13:55	500	18000	28.9	7.25	16291	-2.7	0.98	44	57.26	9.49	10.5755

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?		X		
Standing or Poned 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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Erosion Around Wellhead?		X		
Steel Casing Intact?			X	
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-72BR-200

Date	04/28/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	57.10
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	196.06
Casing Material	PVC	Odor	None
Casing Diameter (in)	6	Pump Intake Depth (ft bmp)	150
Water Column in Well	138.96	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/28/2020	EB Time	
Sample Time	12:56	MS/MSD Sample ID	
Sample ID	MW-72BR-200-Q220	MS/MSD Sample Time	
Single Filter Turbidity	12	Double Filter Turbidity	
Without Filter Turbidity	1	Post Sampling Turbidity	
		Purge Date	04/28/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:43	500	1500	27.8	7.07	13249	-178.5	1.12	133	57.36	8.14	9.418
12:46	500	3000	27.9	7.45	15747	-182.6	.93	41	57.36	9.20	10.2635
12:49	500	4500	27.9	7.55	15950	-199.0	0.72	12	57.36	9.32	10.374
12:52	500	6000	27.9	7.55	16059	-203.2	0.76	12	57.36	9.37	10.455
12:55	500	7500	27.9	7.56	16010	-207.5	0.74	12	57.36	9.36	10.426

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?		X		
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-73-080

Date	04/28/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	48.42
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	80
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	68
Water Column in Well	31.58	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	04/28/2020	EB Time	
Sample Time	14:31	MS/MSD Sample ID	
Sample ID	MW-73-080-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	28	Post Sampling Turbidity	
		Purge Date	04/28/2020

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)
14:18	500	1500	27.9	6.67	10210	29.3	1.36	41	48.49	5.76	6.6235
14:21	500	3000	28.3	6.83	10164	19.3	1.02	32	48.49	5.71	6.6170
14:24	500	4500	28.4	6.84	10127	18.6	1.00	29	48.49	5.69	6.5845
14:27	500	6000	28.8	6.85	9932	20.0	1.08	28	48.49	5.53	6.4350
14:30	500	7500	29.0	6.86	9984	20.6	1.11	28	48.49	5.53	6.4155

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?		X		
Standing or Pounded 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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-74-240

Date	04/28/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	Gal	Depth to Water (ft bmp)	215.79
Water Quality Meter	YSI	Gallons in Well	4.01
Sampling Type	Volume Purge – Hand Bail	Measured Well Depth (ft bmp)	240.40
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	24.61	Total Volume to Remove	
Did Well Dewater?	Yes	EB Sample ID	
Sample Date	04/30/2020	EB Time	
Sample Time	15:00	MS/MSD Sample ID	
Sample ID	MW-74-240-Q220	MS/MSD Sample Time	
Single Filter Turbidity	9	Double Filter Turbidity	1
Without Filter Turbidity	112	Post Sampling Turbidity	
		Purge Date	04/28/2020

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)
09:56		4.1	30.3	6.17	931	23.3	1.15	431	239.14	0.45	0.6351
15:18			30.4	7.78	1130	43.8	2.46	112	216.75	0.55	0.7345

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		

Photos and Drawings

Site: PGE Topock
Topock, CA

**Site: PGE Topock
Topock, CA**

R-19

Date	<u>04/30/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>ml</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>5</u>
Casing Material	<u>PVC</u>	Odor	<u>none</u>
Comments	<u>2103323.13ft N , 7616192.11 ft E</u>	Pump Intake Depth (ft bmp)	<u>4</u>
Did Well Dewater?	<u>No</u>	Total Volume to Remove	<u></u>
Sample Date	<u>04/30/2020</u>	EB Sample ID	<u></u>
Sample Time	<u>08:41</u>	EB Time	<u></u>
Sample ID	<u>R-19-Q220</u>	MS/MSD Sample ID	<u></u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample Time	<u></u>
Without Filter Turbidity	<u>1</u>	Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>04/30/2020</u>

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)
08:40	500	2000	19	8.28	909	263.2	1.71	1		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

**Site: PGE Topock
Topock, CA**

R-28

Date	<u>04/29/2020</u>	Sampler	<u>Reggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u> </u>
Purge Volume Units	<u>ml</u>	Depth to Water (ft bmp)	<u> </u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u> </u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>5</u>
Did Well Dewater?	<u>No</u>	Odor	<u>none</u>
Sample Date	<u>04/29/2020</u>	Pump Intake Depth (ft bmp)	<u>2</u>
Sample Time	<u>12:05</u>	Total Volume to Remove	<u> </u>
Sample ID	<u>R-28-Q220</u>	EB Sample ID	<u> </u>
Single Filter Turbidity	<u>1</u>	EB Time	<u> </u>
Without Filter Turbidity	<u>1</u>	MS/MSD Sample ID	<u> </u>
		MS/MSD Sample Time	<u> </u>
		Double Filter Turbidity	<u> </u>
		Post Sampling Turbidity	<u> </u>
		Purge Date	<u>04/29/2020</u>

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)
12:02	500	2000	19.6	8.21	910	141	1.57	1		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

**Site: PGE Topock
Topock, CA**

R63

Date	04/29/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	River Sample	Measured Well Depth (ft bmp)	2
Did Well Dewater?	No	Odor	none
Sample Date	04/29/2020	Pump Intake Depth (ft bmp)	1
Sample Time	09:55	Total Volume to Remove	
Sample ID	R63-Q220	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	2	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/29/2020

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)
09:55	500	2000	19.0	7.85	909	180	1.86	2		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

RRB

Date	<u>04/30/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>ml</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>5</u>
Casing Material	<u>PVC</u>	Odor	<u>none</u>
Comments	<u>2104541.99ft N, 7615211.96 ft E</u>	Pump Intake Depth (ft bmp)	<u>4</u>
Did Well Dewater?	<u>No</u>	Total Volume to Remove	<u></u>
Sample Date	<u>04/30/2020</u>	EB Sample ID	<u></u>
Sample Time	<u>09:10</u>	EB Time	<u></u>
Sample ID	<u>RRB-Q220</u>	MS/MSD Sample ID	<u></u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample Time	<u></u>
Without Filter Turbidity	<u>1</u>	Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>04/30/2020</u>

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)
09:09	500	2000	20.7	8.27	922	249.4	1.66	1		0.46	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-CON-D

Date	04/30/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	River Sample	Measured Well Depth (ft bmp)	13
Casing Material	PVC	Odor	none
Comments	2105633.09ft N, 7614085.93 ft E	Pump Intake Depth (ft bmp)	12
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/30/2020	EB Sample ID	
Sample Time	09:35	EB Time	
Sample ID	C-CON-D-Q220	MS/MSD Sample ID	
Duplicate Sample ID	MW-914-q220	MS/MSD Sample Time	
Dup Sample Time	09:45	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	2	Purge Date	04/30/2020

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)
09:34	500	2000	18.7	8.35	911	234.8	1.50	2		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-CON-S

Date	<u>04/27/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>ml</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>Snap Sampler</u>	Measured Well Depth (ft bmp)	<u>13</u>
Casing Material	<u>PVC</u>	Odor	<u>none</u>
Comments	<u>2105633.09 ft N, 7614085.93</u>	Pump Intake Depth (ft bmp)	<u>12</u>
Did Well Dewater?	<u>No</u>	Total Volume to Remove	<u></u>
Sample Date	<u>04/30/2020</u>	EB Sample ID	<u></u>
Sample Time	<u>09:56</u>	EB Time	<u></u>
Sample ID	<u>C-CON-S-Q220</u>	MS/MSD Sample ID	<u></u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample Time	<u></u>
Without Filter Turbidity	<u>2</u>	Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>04/27/2020</u>

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)
09:55	500	2000	18.8	8.32	911	241.1	1.36	2		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-I-3-D

Date	<u>04/29/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u></u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>ml</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u></u>
Did Well Dewater?	<u>No</u>	Odor	<u></u>
Sample Date	<u>04/29/2020</u>	Pump Intake Depth (ft bmp)	<u>14</u>
Sample Time	<u>09:35</u>	Total Volume to Remove	<u></u>
Sample ID	<u>C-I-3-D-Q220</u>	EB Sample ID	<u></u>
		EB Time	<u></u>
		MS/MSD Sample ID	<u></u>
		MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>04/29/2020</u>

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:35	500	2000	18.0	8.23	908	188	218	2		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-I-3-S

Date	<u>04/21/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u> </u>
Purge Volume Units	<u>ml</u>	Depth to Water (ft bmp)	<u> </u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u> </u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>15</u>
Did Well Dewater?	<u>No</u>	Odor	<u>none</u>
Sample Date	<u>04/29/2020</u>	Pump Intake Depth (ft bmp)	<u>2</u>
Sample Time	<u>09:25</u>	Total Volume to Remove	<u> </u>
Sample ID	<u>C-I-3-S-Q220</u>	EB Sample ID	<u> </u>
Single Filter Turbidity	<u>1</u>	EB Time	<u> </u>
Without Filter Turbidity	<u>3</u>	MS/MSD Sample ID	<u> </u>
		MS/MSD Sample Time	<u> </u>
		Double Filter Turbidity	<u> </u>
		Post Sampling Turbidity	<u> </u>
		Purge Date	<u>04/21/2020</u>

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)
09:23	500	2000	18.1	8.26	908	186	2.26	3		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-MAR-D

Date	<u>04/21/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>ml</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>7.5</u>
Casing Material	<u>PVC</u>	Odor	<u>none</u>
Comments	<u>2102573.29 n, 7617737.41 e</u>	Pump Intake Depth (ft bmp)	<u>6.5</u>
Did Well Dewater?	<u>No</u>	Total Volume to Remove	<u></u>
Sample Date	<u>04/30/2020</u>	EB Sample ID	<u></u>
Sample Time	<u>08:01</u>	EB Time	<u></u>
Sample ID	<u>C-MAR-D-Q220</u>	MS/MSD Sample ID	<u></u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample Time	<u></u>
Without Filter Turbidity	<u>3</u>	Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>04/21/2020</u>

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)
08:00	500	2000	18.8	8.05	908	261.1	2.14	3		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				

Photos and Drawings

Site: PGE Topock
Topock, CA

C-MAR-S

Date	<u>04/30/2020</u>	Sampler	<u>Riggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>ml</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>7.5</u>
Casing Material	<u>PVC</u>	Odor	<u>none</u>
Comments	<u>2102573.29 n, 7617737.41 e</u>	Pump Intake Depth (ft bmp)	<u>2</u>
Did Well Dewater?	<u>No</u>	Total Volume to Remove	<u></u>
Sample Date	<u>04/30/2020</u>	EB Sample ID	<u></u>
Sample Time	<u>08:17</u>	EB Time	<u></u>
Sample ID	<u>C-MAR-S-Q220</u>	MS/MSD Sample ID	<u></u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample Time	<u></u>
Without Filter Turbidity	<u>3</u>	Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>04/30/2020</u>

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)
08:16	500	2000	18.8	8.23	908	265	2.03	3		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR1-D

Date	04/30/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	River Sample	Measured Well Depth (ft bmp)	13
Casing Material	PVC	Odor	none
Comments	2106045.72 ft N, 7613292.39 ft E	Pump Intake Depth (ft bmp)	12
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/30/2020	EB Sample ID	
Sample Time	10:20	EB Time	
Sample ID	C-NR1-D-Q220	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	1	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/30/2020

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)
10:19	500	2000	18.7	8.30	910	244.3	1.29	1		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR1-S

Date	04/30/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	River Sample	Measured Well Depth (ft bmp)	13
Casing Material	PVC	Odor	none
Comments	2106045.72 ft N, 7613292.32 ft E	Pump Intake Depth (ft bmp)	12
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/30/2020	EB Sample ID	
Sample Time	10:29	EB Time	
Sample ID	C-NR1-S-Q220	MS/MSD Sample ID	
Duplicate Sample ID	MW-915-Q220	MS/MSD Sample Time	
Dup Sample Time	10:39	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	1	Purge Date	04/30/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:28	500	2000	19.6	8.23	912	245.2	1.23	1		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR3-S

Date	04/30/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	River Sample	Measured Well Depth (ft bmp)	13
Casing Material	PVC	Odor	none
Comments	2106791.17 ft N, 7611674.71 ft E	Pump Intake Depth (ft bmp)	12
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	04/30/2020	EB Sample ID	
Sample Time	11:14	EB Time	
Sample ID	C-NR3-S-Q220	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	1	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/30/2020

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)
11:13	500	2000	19.5	8.30	912	247.6	1.16	1		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R22A-S

Date	04/29/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	River Sample	Measured Well Depth (ft bmp)	7.5
Did Well Dewater?	No	Odor	none
Sample Date	04/29/2020	Pump Intake Depth (ft bmp)	2.5
Sample Time	10:35	Total Volume to Remove	
Sample ID	C-R22A-S-Q220	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	3	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	04/29/2020

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	19.3	7.35	910	151	1.77	3		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R27-S

Date	<u>04/29/2020</u>	Sampler	<u>Reggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>ml</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>10</u>
Did Well Dewater?	<u>No</u>	Odor	<u>none</u>
Sample Date	<u>04/29/2020</u>	Pump Intake Depth (ft bmp)	<u>5</u>
Sample Time	<u>11:40</u>	Total Volume to Remove	<u></u>
Sample ID	<u>C-R27-S-Q220</u>	EB Sample ID	<u></u>
Duplicate Sample ID	<u>Mw-916-q220</u>	EB Time	<u></u>
Dup Sample Time	<u>11:50</u>	MS/MSD Sample ID	<u></u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample Time	<u></u>
Without Filter Turbidity	<u>1</u>	Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>04/29/2020</u>

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)
11:34	500	2000	18.8	7.41	90	137	1.76	1		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

Site: PGE Topock
Topock, CA

C-TAZ-S

Date	<u>04/29/2020</u>	Sampler	<u>Reggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Extraction Port</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>ml</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>River Sample</u>	Measured Well Depth (ft bmp)	<u>15</u>
Casing Material	<u>PVC</u>	Odor	<u>none</u>
Comments	<u>2100871.60' n, 7618855.33' e</u>	Pump Intake Depth (ft bmp)	<u>2</u>
Did Well Dewater?	<u>No</u>	Total Volume to Remove	<u></u>
Sample Date	<u>04/29/2020</u>	EB Sample ID	<u></u>
Sample Time	<u>08:35</u>	EB Time	<u></u>
Sample ID	<u>C-TAZ-S-Q220</u>	MS/MSD Sample ID	<u></u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample Time	<u></u>
Without Filter Turbidity	<u>2</u>	Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>04/29/2020</u>

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)
08:35	500	2000	18.1	8.19	905	159	3.33	2		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-78-142

Date	05/21/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	46.41
Water Quality Meter	YSI	Gallons in Well	15.73
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	142.85
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	162
Water Column in Well	96.44	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/21/2020	EB Time	
Sample Time	11:03	MS/MSD Sample ID	
Sample ID	MW-78-142-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	05/21/2020

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)
10:46	500	2000	30.2	7.45	11578	117	0.43	44	46.48	6.54	7.52
10:50	500	4000	30.3	7.44	11525	114	0.37	40	46.48	6.50	7.47
10:54	500	6000	30.3	7.40	11572	110	0.29	21	46.48	6.54	7.52
10:58	500	8000	30.3	7.37	11648	108	0.30	8	46.48	6.59	7.57
11:02	500	10000	30.5	7.40	11567	106	0.26	8	46.48	6.54	7.52

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-78-070

Date	05/21/2020	Sampler	John tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	46.08
Water Quality Meter	YSI	Gallons in Well	4.24
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	72.10
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	60
Water Column in Well	26.02	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/21/2020	EB Time	
Sample Time	11:00	MS/MSD Sample ID	
Sample ID	MW-78-070-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	45	Post Sampling Turbidity	
Turbidity		Purge Date	05/21/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:44	500	1500	29.9	7.61	2399	62.2	5.25	227	46.12	1.22	1.56
10:47	500	3000	30.0	7.56	2393	62.1	5.34	146	46.15	1.22	1.55
10:50	500	4500	30.3	7.56	2399	60.7	5.32	119	46.17	1.22	1.56
10:53	500	6000	30.0	7.54	2401	60.8	5.56	75	46.18	1.22	1.56
10:56	500	7500	30.2	7.52	2406	61.4	5.62	48	46.18	1.22	1.56
10:59	500	9000	30.2	7.53	2403	60.0	5.46	45	46.18	1.22	1.56

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-79-104

Date	05/29/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	43.52
Water Quality Meter	YSI	Gallons in Well	9.95
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	104.55
Casing Diameter (in)	2	Odor	None
Water Column in Well	61.03	Pump Intake Depth (ft bmp)	100
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	05/29/2020	EB Sample ID	
Sample Time	08:43	EB Time	
Sample ID	MW-79-104-0520	MS/MSD Sample ID	
Single Filter Turbidity	4	MS/MSD Sample Time	
Without Filter	13	Double Filter Turbidity	1
Turbidity		Post Sampling Turbidity	
		Purge Date	05/29/2020

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)
08:26	500	2000	30	7.23	6432	149.7	0.56	17	43.57	3.14	3.793
08:30	500	4000	30	7.26	6441	153.9	0.40	14	43.57	3.13	3.789
08:34	500	6000	30	7.28	6445	155.9	0.38	13	43.57	3.13	3.784
08:38	500	8000	30	7.28	6436	156.9	0.38	13	43.57	3.13	3.783
08:42	500	10000	30	7.29	6436	157.9	0.38	13	43.57	3.13	3.782

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	

Photos and Drawings



May 29, 2020 08:39:56 AM
Location: MW-79-104 Latitude: 34.717779, Longitude: -114.491463

Site: PGE Topock
Topock, CA

MW-79-060

Date	05/29/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	45.71
Water Quality Meter	YSI	Gallons in Well	2.43
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	60.58
Casing Diameter (in)	2	Odor	None
Water Column in Well	14.87	Pump Intake Depth (ft bmp)	58
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	05/29/2020	EB Sample ID	EB-807-Q220
Sample Time	09:22	EB Time	09:45
Sample ID	MW-79-060-0520	MS/MSD Sample ID	
Duplicate Sample ID	MW-922-Q220	MS/MSD Sample Time	
Dup Sample Time	09:32	Double Filter Turbidity	1
Single Filter Turbidity	4	Post Sampling Turbidity	
Without Filter Turbidity	15	Purge Date	05/29/2020

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)
09:05	500	2000	30	7.48	1743	117.9	0.45	37	45.76	0.78	1.021
09:09	500	4000	30	7.47	1744	127.3	0.37	18	45.76	0.78	1.021
09:13	500	6000	30	7.46	1744	130.6	0.34	15	45.76	0.78	1.021
09:17	500	8000	30	7.46	1744	130.6	0.34	15	45.76	0.78	1.021
09:21	500	10000	30	7.46	1744	130.6	0.34	15	45.76	0.78	1.021

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-80-057

Date	05/21/2020	Sampler	John tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Water Quality Meter	YSI	Depth to Water (ft bmp)	49.04
Sampling Type	Low Flow – Grundfos RF2	Gallons in Well	1.8
Casing Material	PVC	Measured Well Depth (ft bmp)	60.10
Casing Diameter (in)	2	Odor	None
Water Column in Well	11.06	Pump Intake Depth (ft bmp)	55
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	05/21/2020	EB Sample ID	
Sample Time	12:21	EB Time	
Sample ID	MW-80-057-0520	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	22	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	05/21/2020

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)
12:08	500	1500	29.6	7.50	5166	15.0	1.90	243	49.10	2.77	3.35
12:11	500	3000	29.6	7.51	5205	16.4	1.90	81	49.14	2.78	3.37
12:14	500	4500	29.6	7.52	5220	17.3	1.99	37	49.15	2.80	3.40
12:17	500	6000	29.5	7.54	5232	18.7	2.03	21	49.15	2.80	3.40
12:20	500	7500	29.6	7.56	5256	19.3	2.16	22	49.15	2.81	3.41

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-80-082

Date	05/21/2020	Sampler	Riggle
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	48.96
Water Quality Meter	YSI	Gallons in Well	5.80
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	84.55
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	74.5
Water Column in Well	35.59	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/21/2020	EB Time	
Sample Time	12:30	MS/MSD Sample ID	
Sample ID	MW-80-082-0520	MS/MSD Sample Time	
Duplicate Sample ID	Mw-923-q220	Double Filter Turbidity	1
Dup Sample Time	12:40	Post Sampling Turbidity	
Single Filter Turbidity	5	Purge Date	05/21/2020
Without Filter Turbidity	35		

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)
12:09	500	2000	30.7	7.66	9197	85	4.60	74	45.10	5.12	5.98
12:13	500	4000	31.3	7.48	9233	104	4.33		49.10	5.12	6.01
12:17	500	6000	31.7	7.44	9152	116	4.18		45.10	5.10	5.99
12:21	500	8000	31.7	7.45	9032	119	3.89		49.10	4.97	5.88
12:25	500	10000	31.6	7.46	9004	117	3.82	39	45.10	4.99	5.80
12:29	500	12000	31.4	7.48	8998	115	3.70	35	49.10	4.97	5.88

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?			X	
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-83-245

Date	05/22/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	74.03
Water Quality Meter	YSI	Gallons in Well	28.10
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	246.34
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	240
Water Column in Well	172.31	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-799-q220
Sample Date	05/22/2020	EB Time	11:00
Sample Time	10:54	MS/MSD Sample ID	
Sample ID	MW-83-245-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	05/22/2020

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)
10:37	500	20000	30.3	7.33	12399	-72	0.37	31	74.15	5.13	6.49
10:41	500	4000	31.2	7.32	12433	-68	0.45	17	74.15	6.16	6.44
10:45	500	6000	31.4	7.27	12467	-73	0.31	9	74.15	4.64	5.89
10:49	500	8000	31.6	7.26	12589	-81	0.34	9	74.15	5.00	6.15
10:53	500	10000	31.0	7.25	12637	-76	0.31	9	74.15	4.80	6.20

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-83-90

Date	05/28/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	73.13
Water Quality Meter	YSI	Gallons in Well	2.82
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	90.44
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	80
Water Column in Well	17.31	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-803-q220
Sample Date	05/28/2020	EB Time	15:06
Sample Time	14:46	MS/MSD Sample ID	
Sample ID	MW-83-90-0520	MS/MSD Sample Time	
Duplicate Sample ID	Mw-924-q220	Double Filter Turbidity	
Dup Sample Time	14:56	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	05/28/2020
Without Filter Turbidity	3		

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)
14:29	500	2000	34.1	7.49	2294	78	4.79	5	73.20	1.16	1.18
14:33	500	4000							73.20		
14:37	500	6000							73.20		
14:41	500	8000							73.20		
14:45	500	10000							73.20		

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-83-180

Date	05/28/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	73.09
Water Quality Meter	YSI	Gallons in Well	17.47
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	180.19
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	175
Water Column in Well	107.10	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/28/2020	EB Time	
Sample Time	14:15	MS/MSD Sample ID	
Sample ID	MW-83-180-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	05/28/2020

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)
13:58	500	2000	31.5	7.83	11140	21	1.29	5	73.15	6.29	7.26
14:02	500	4000	31.6	7.84	11196	21	1.27	5	73.15	6.29	7.30
14:06	500	6000	31.6	7.84	11184	21	1.25	5	73.15	6.31	7.26
14:10	500	8000	31.8	7.86	11141	20	1.24	5	73.15	6.27	7.24
14:14	500	10000	31.8	7.86	11181	20	1.22	5	73.15	6.29	7.26

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-83-225

Date	05/28/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	74.05
Water Quality Meter	YSI	Gallons in Well	24.58
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	224.77
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	220
Water Column in Well	150.72	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/28/2020	EB Time	
Sample Time	13:21	MS/MSD Sample ID	
Sample ID	MW-83-225-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	23	Post Sampling Turbidity	
		Purge Date	05/28/2020

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)
13:04	500	2000	31.1	8.09	16111	-27	0.84	23	74.10	9.36	10.45
13:08	500	4000	30.9	8.08	16024	-22	0.82	22	74.10	9.25	10.40
13:12	500	6000	30.9	8.06	15979	-20	0.81	21	74.10	9.30	10.41
13:16	500	8000	30.9	8.05	15597	-21	0.78	22	74.10	9.28	10.34
13:20	500	10000	30.9	8.05	15978	-22	0.77	23	74.10	9.28	10.39

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

MW-85-129

Date	05/20/2020	Sampler	John tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	114.24
Water Quality Meter	YSI	Gallons in Well	2.78
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	131.30
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	121
Water Column in Well	17.06	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-796-Q220
Sample Date	05/20/2020	EB Time	14:50
Sample Time	14:43	MS/MSD Sample ID	
Sample ID	MW-85-129-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	22	Post Sampling Turbidity	
		Purge Date	05/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:27	500	1500	30.3	7.13	2219	48.1	5.32	486	114.30	1.12	1.43
14:30	500	3000	29.7	7.14	2201	49.0	5.79	306	114.33	1.12	1.43
14:33	500	4500	29.8	7.15	2201	50	5.55	129	114.35	1.11	1.43
14:36	500	6000	30.1	7.15	2196	47.4	5.37	50	114.38	1.11	1.42
14:39	500	7500	30.7	7.22	2202	44.7	5.42	24	114.38	1.11	1.43
14:42	500	9000	30.5	7.23	2201	44.0	5.45	22	114.38	1.11	1.43

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-85-217

Date	05/20/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	grey
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	113.69
Water Quality Meter	YSI	Gallons in Well	17.00
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	217.90
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	207
Water Column in Well	104.21	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-795-q220
Sample Date	05/20/2020	EB Time	15:40
Sample Time	15:30	MS/MSD Sample ID	
Sample ID	MW-85-217-0520	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	1
Without Filter Turbidity	42	Post Sampling Turbidity	
		Purge Date	05/20/2020

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)
15:09	500	2000	29.8	7.80	11944	39	0.50	67	113.69	7.31	8.28
15:13	500	4000	30.1	7.81	12301	41	0.48	54	113.69	7.32	8.34
15:17	500	6000	30.2	7.82	12550	41	0.38	44	113.72	7.32	8.33
15:21	500	8000	30.2	7.83	12656	42	0.37	43	113.72	7.32	8.35
15:25	500	10000	30.5	7.84	12831	40	0.34	42	113.72	7.32	8.35
15:29	500	12000	30.8	7.80	12901	41	0.46	42	113.72	7.31	8.28

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-85-237

Date	05/20/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	113.72
Water Quality Meter	YSI	Gallons in Well	20.28
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	238.08
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	232
Water Column in Well	124.36	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/20/2020	EB Time	
Sample Time	14:45	MS/MSD Sample ID	
Sample ID	MW-85-237-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	05/20/2020

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)
14:25	500	2000	30.9	7.98	14651	41	0.57	8	113.80	8.43	9.52
14:29	500	4000	31.3	7.98	15012	34	0.58	8	113.80	8.61	9.67
14:33	500	6000	31.3	7.98	15012	33	0.58	8	113.80	8.60	9.78
14:37	500	8000	31.4	7.99	15088	32	0.53	8	113.80	8.62	9.78
14:41	500	10000	31.4	7.99	15112	30	0.53	8	113.80	8.61	9.78

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-90-031

Date	05/26/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Brown
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	3.08
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	31.46
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	25
Water Column in Well	28.38	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-801-Q220
Sample Date	05/26/2020	EB Time	15:00
Sample Time	13:34	MS/MSD Sample ID	
Sample ID	MW-90-031-0520	MS/MSD Sample Time	
Single Filter Turbidity	4	Double Filter Turbidity	2
Without Filter Turbidity	20	Post Sampling Turbidity	
		Purge Date	05/26/2020

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)
13:17	500	2000	27.8	7.25	10693	-58.9	1.96	39	3.20	5.71	6.61
13:21	500	4000	28.1	7.29	10769	-85.0	1.60	24	3.20	5.72	6.62
13:25	500	6000	28.3	7.30	10799	-89.0	1.53	21	3.20	5.72	6.62
13:29	500	8000	28.3	7.30	10806	-92.1	1.51	20	3.20	5.72	6.62
13:33	500	10000	28.4	7.30	18029	-93.6	1.50	20	3.20	5.72	6.62

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-75-117

Date	05/18/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	17.10
Water Quality Meter	YSI	Gallons in Well	16.44
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	117.88
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	107
Water Column in Well	100.78	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/18/2020	EB Time	
Sample Time	13:21	MS/MSD Sample ID	
Sample ID	MW-75-117-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	05/18/2020

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)
13:04	500	2000	29.7	7.71	10772	-2.1	0.36	5	17.13	6.06	6.99
13:08	500	4000	30.0	7.71	10811	-8.5	0.32	5	17.13	6.09	7.03
13:12	500	6000	29.8	7.72	10881	-16.2	0.30	5	17.13	6.13	7.07
13:16	500	8000	29.9	7.73	10955	-22.2	0.25	5	17.13	6.17	7.13
13:20	500	10000	29.6	7.74	10965	-23.8	0.25	5	17.15	6.17	7.11

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-033

Date	05/18/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	16.80
Water Quality Meter	YSI	Gallons in Well	2.67
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	33.17
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	25.5
Water Column in Well	16.37	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/18/2020	EB Time	
Sample Time	13:53	MS/MSD Sample ID	
Sample ID	MW-75-033-0520	MS/MSD Sample Time	
Duplicate Sample ID	Mw-920-q220	Double Filter Turbidity	
Dup Sample Time	14:03	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	05/18/2020
Without Filter Turbidity	7		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:36	500	2000	27.7	7.55	4959	60.8	3.76	21	16.85	2.64	3.21
13:40	500	4000	28.0	7.52	4906	65.0	3.81	8	16.85	2.61	3.18
13:44	500	6000	28.1	7.52	4882	66.4	3.86	7	16.85	2.60	3.17
13:48	500	8000	27.8	7.52	4881	68.6	3.93	7	16.85	2.60	3.17
13:52	500	10000	27.8	7.51	4876	69.0	3.91	7	16.85	2.60	3.17

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-10D

Date	05/28/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	75.26
Water Quality Meter	YSI	Gallons in Well	8.51
Casing Material	PVC	Measured Well Depth (ft bmp)	127.44
Casing Diameter (in)	2	Odor	None
Water Column in Well	52.18	Pump Intake Depth (ft bmp)	115.5
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	05/28/2020	EB Sample ID	
Sample Time	09:39	EB Time	
Sample ID	MW-10D-0520	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	9	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	05/28/2020

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)
09:22	500	2000	30	6.97	3087	148.7	1.53	10	75.30	1.43	1.815
09:26	500	4000	30	6.98	3109	139.6	1.50	9	75.30	1.43	1.817
09:30	500	6000	31	7.02	3126	138.3	1.56	9	75.30	1.43	1.821
09:34	500	8000	31	7.02	3124	139.6	1.56	9	75.30	1.43	1.822
09:38	500	10000	31	7.02	3120	138.2	1.56	9	75.30	1.43	1.821

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-89-183

Date	05/20/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	131.13
Water Quality Meter	YSI	Gallons in Well	8.62
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	184.0
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	173
Water Column in Well	52.87	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/20/2020	EB Time	
Sample Time	09:21	MS/MSD Sample ID	
Sample ID	MW-89-183-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	1
Without Filter Turbidity	26	Post Sampling Turbidity	
		Purge Date	05/20/2020

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)
09:04	500	2000	32.5	7.41	7160	104	3.38	37	131.15	3.89	4.66
09:08	500	4000	32.1	7.44	7144	113	3.61	27	131.15	3.90	4.65
09:12	500	6000	31.9	7.46	7152	118	3.73	26	131.15	3.88	4.64
09:16	500	8000	31.8	7.47	7153	122	3.82	25	131.15	3.90	4.64
09:20	500	10000	31.7	7.48	7144	125	3.95	26	131.15	3.88	4.66

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

MW-89-273

Date	05/20/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	131.03
Water Quality Meter	YSI	Gallons in Well	23.26
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	273.66
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	263
Water Column in Well	142.63	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/20/2020	EB Time	
Sample Time	10:05	MS/MSD Sample ID	
Sample ID	MW-89-273-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	05/20/2020

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)
09:49	500	2000	28.5	7.56	7359	120	5.01	10	131.10	4.04	4.79
09:53	500	4000	28.6	7.72	7421	123	5.14	8	131.10	4.04	4.79
09:57	500	6000	28.7	7.85	7387	130	5.23	8	131.10	4.06	4.80
10:01	500	8000	28.6	7.88	7366	131	5.30	8	131.10	4.03	4.80
10:05	500	10000	28.6	7.88	7370	133	5.20	8	131.10	4.06	4.80

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-84-057

Date	05/28/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	44.38
Water Quality Meter	YSI	Gallons in Well	2.4
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	59.09
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	49.5
Water Column in Well	14.71	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/28/2020	EB Time	
Sample Time	12:01	MS/MSD Sample ID	
Sample ID	MW-84-057-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	7	Post Sampling Turbidity	
Turbidity		Purge Date	05/28/2020

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	31	7.02	1489	188.6	5.24	10	44.52	0.66	0.868
11:48	500	4000	31	7.04	1499	189.0	4.50	8	44.52	0.66	0.867
11:52	500	6000	31	7.13	1500	188.6	4.48	7	44.52	0.66	0.867
11:56	500	8000	31	7.13	1500	188.5	4.48	7	44.52	0.66	0.867
12:00	500	10000	31	7.13	1510	189.2	4.48	7	44.52	0.65	0.867

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-84-095

Date	05/28/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	44.26
Water Quality Meter	YSI	Gallons in Well	8.12
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	94.04
Casing Diameter (in)	2	Odor	None
Water Column in Well	49.78	Pump Intake Depth (ft bmp)	85
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	05/28/2020	EB Sample ID	
Sample Time	12:51	EB Time	
Sample ID	MW-84-095-0520	MS/MSD Sample ID	
Duplicate Sample ID	MW-925-Q220	MS/MSD Sample Time	
Dup Sample Time	13:01	Double Filter Turbidity	1
Single Filter Turbidity	3	Post Sampling Turbidity	
Without Filter Turbidity	13	Purge Date	05/28/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:34	500	2000	30	7.13	4632	153.9	2.33	32	44.30	2.20	2.720
12:38	500	4000	30	7.15	4632	148.2	1.98	13	44.30	2.20	2.718
12:42	500	6000	30	7.16	4627	148.2	1.76	13	44.30	2.20	2.717
12:46	500	8000	30	7.16	4628	148.1	1.76	13	44.30	2.20	2.717
12:50	500	10000	30	7.17	4627	148.1	1.76	13	44.30	2.20	2.717

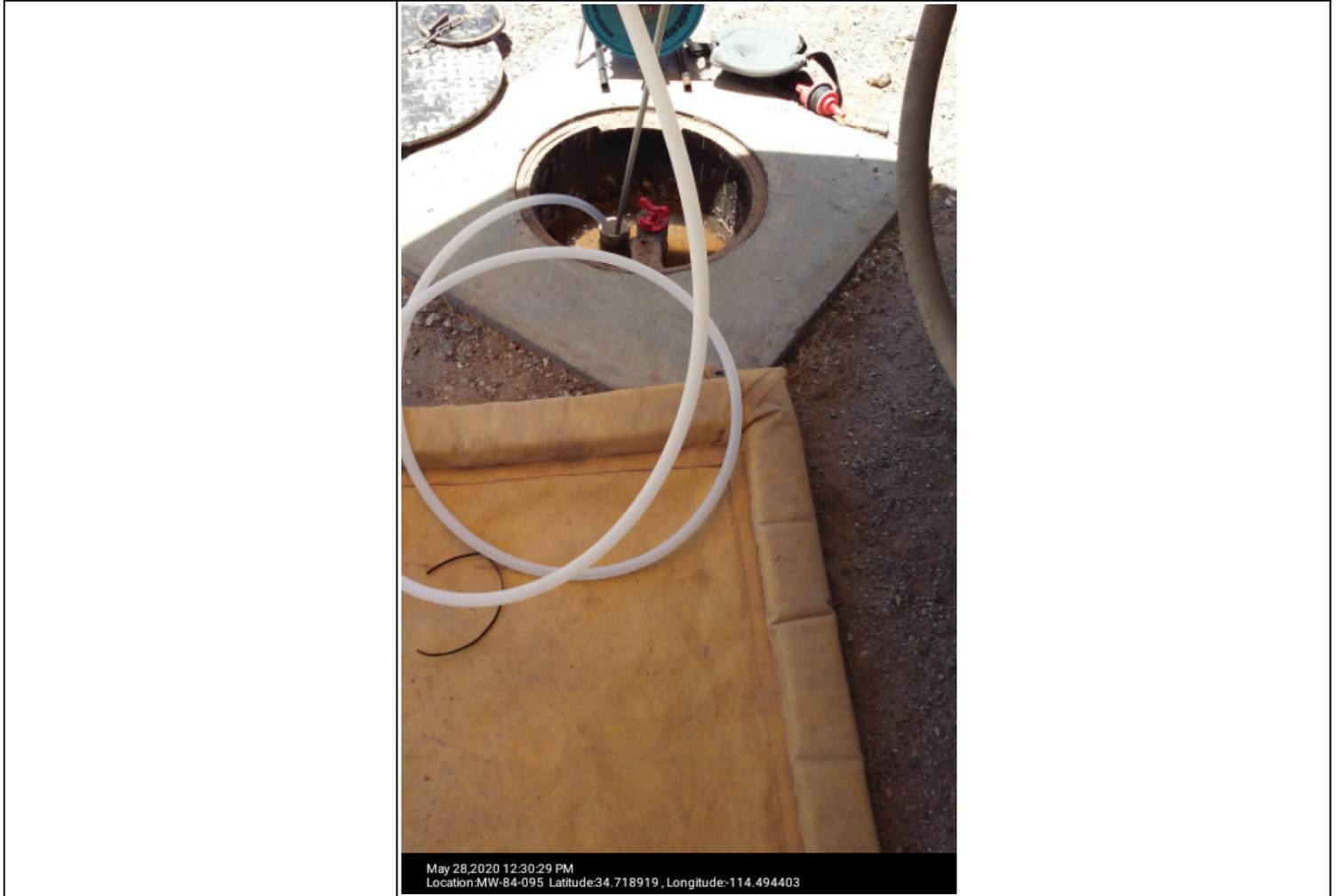
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-84-132

Date	05/28/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	44.83
Water Quality Meter	YSI	Gallons in Well	14.56
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	134.09
Casing Diameter (in)	2	Odor	None
Water Column in Well	89.26	Pump Intake Depth (ft bmp)	122
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	05/28/2020	EB Sample ID	EB-805-Q220
Sample Time	14:03	EB Time	14:13
Sample ID	MW-84-132-0520	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	9	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	05/28/2020

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)
13:46	500	2000	30	7.30	5544	189.1	0.73	18	44.88	2.66	3.252
13:50	500	4000	30	7.16	5639	172.4	0.62	12	44.88	2.76	3.554
13:54	500	6000	30	7.15	6536	159.9	0.67	9	44.88	3.19	3.879
13:58	500	8000	30	7.15	6536	159.9	0.67	9	44.88	3.19	3.879
14:02	500	10000	30	7.15	6536	159.9	0.67	9	44.88	3.19	3.879

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-84-193

Date	05/22/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	45.0
Water Quality Meter	YSI	Gallons in Well	24.34
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	194.23
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	183
Water Column in Well	149.23	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/22/2020	EB Time	
Sample Time	09:53	MS/MSD Sample ID	
Sample ID	MW-84-193-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	05/22/2020

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)
09:36	500	2000	30.2	7.69	13270	-40	0.47	5	45.10	9.30	11.33
09:40	500	4000	30.2	7.71	13278	-35	0.40	5	45.10	9.27	11.26
09:44	500	6000	30.5	7.73	13249	-33	0.35	5	45.10	9.30	11.25
09:48	500	8000	30.7	7.75	13246	-30	0.30	5	45.10	9.25	11.24
09:52	500	10000	31.0	7.75	13244	-25	0.29	5	45.10	9.30	11.23

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-87-192

Date	05/29/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	90.77
Water Quality Meter	YSI	Gallons in Well	16.61
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	192.60
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	182
Water Column in Well	101.83	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/29/2020	EB Time	
Sample Time	09:34	MS/MSD Sample ID	
Sample ID	MW-87-192-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	05/29/2020

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)
09:17	500	2000	30.9	7.69	8860	-63	0.95	12	90.80	4.89	5.75
09:21	500	4000	31.0	7.71	8861	-50	1.01		90.80	4.89	5.75
09:25	500	6000	31.1	7.75	8829	-8	1.07	6	90.80	4.88	5.73
09:29	500	8000	31.4	7.79	8720	-5	1.11	6	90.80	4.82	5.68
09:33	500	10000	31.4	7.79	8735	-3	1.13	6	90.80	4.89	5.67

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-87-275

Date	05/29/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	90.79
Water Quality Meter	YSI	Gallons in Well	30.24
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	276.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	265
Water Column in Well	185.41	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/29/2020	EB Time	
Sample Time	08:54	MS/MSD Sample ID	
Sample ID	MW-87-275-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	05/29/2020

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)
08:37	500	2000	31.0	7.83	11018	63	1.80	8	90.85	6.20	7.16
08:41	500	4000	31.0	7.84	11016	63	1.77	6	90.85	6.20	7.16
08:45	500	6000	31.0	7.84	11012	64	1.73	6	90.85	6.19	7.16
08:49	500	8000	31.1	7.85	11013	65	1.65	6	90.85	6.19	7.15
08:53	500	10000	31.2	7.85	11020	65	1.58	6	90.85	6.20	7.16

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-87-109

Date	05/29/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	grey
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	91.29
Water Quality Meter	YSI	Gallons in Well	2.99
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	109.60
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	104
Water Column in Well	18.31	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/29/2020	EB Time	
Sample Time	10:56	MS/MSD Sample ID	
Sample ID	MW-87-109-0520	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter	40	Post Sampling Turbidity	
Turbidity		Purge Date	05/29/2020

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	10000	32.1	7.71	2887	79	4.81	68	91.33	1.48	1.87
10:44	500	4000	32.0	7.70	2860	75	4.60	39	91.33	1.45	1.80
10:47	500	6000	32.0	7.69	2855	73	4.50	40	91.33	1.48	1.87
10:51	500	8000	32.2	7.68	2833	70	4.48	39	91.33	1.45	1.80
10:55	500	10000	32.2	7.68	2820	68	4.44	40	91.33	1.48	1.87

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-87-139

Date	05/29/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	92.20
Water Quality Meter	YSI	Gallons in Well	7.33
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	137.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	129
Water Column in Well	44.91	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-806-q220
Sample Date	05/29/2020	EB Time	11:50
Sample Time	11:40	MS/MSD Sample ID	
Sample ID	MW-87-139-0520	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	05/29/2020

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)
11:23	500	2000	30.9	7.55	3123	65	3.89	19	92.30	3.89	6.60
11:27	500	4000	31.3	7.53	3119	60	3.69	9	92.30	3.89	6.60
11:31	500	6000	31.1	7.52	3109	58	3.44	9	92.30	3.89	6.60
11:35	500	8000	31.5	7.50	3109	55	3.68	9	92.30	3.89	6.60
11:39	500	10000	31.4	7.49	3101	53	3.38	9	92.30	3.89	6.60

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-86-140

Date	05/22/2020	Sampler	
Did Well Dewater?	No	Color	Clear
Sample Date	05/22/2020	Casing Volume to Remove	
Sample Time	08:48	Depth to Water (ft bmp)	
Sample ID	MW-86-140-0520	Gallons in Well	
Single Filter Turbidity	1	Measured Well Depth (ft bmp)	
Without Filter Turbidity	3	Odor	sulphur
		Pump Intake Depth (ft bmp)	
		Total Volume to Remove	
		EB Sample ID	
		EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	05/22/2020

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)
08:31	500	2000	31.0	8.12	14047	-190	0.60	6	14.30	8.21	9.19
08:35	500	4000	32.9	7.23	12001	-150	0.53	3	14.30	6.75	7.59
08:39	500	6000	31.6	7.13	12330	-142	0.49	3	14.30	7.03	8.09
08:43	500	8000	31.2	7.09	12312	-133	0.37	3	14.30	7.31	8.35
08:47	500	10000	31.3	7.01	12687	-128	0.33	3	14.30	7.43	8.47

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-86-120

Date	05/28/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	12.09
Water Quality Meter	YSI	Gallons in Well	17.62
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	120.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	110
Water Column in Well	108.02	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/28/2020	EB Time	
Sample Time	10:56	MS/MSD Sample ID	
Sample ID	MW-86-120-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	05/28/2020

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)
10:39	500	2000	25.8	7.88	11726	-18	6.87	13	12.15	6.67	7.62
10:43	500	4000	26.0	7.85	11712	-23	6.50	8	12.15	6.65	7.60
10:47	500	6000	26.1	7.85	11690	-25	6.35	4	12.15	6.65	7.61
10:51	500	8000	26.1	7.84	11687	-26	6.33	4	12.15	6.63	7.59
10:55	500	10000	26.2	7.83	11623	-27	6.22	4	12.15	6.60	7.58

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-86-066

Date	05/28/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	12.15
Water Quality Meter	YSI	Gallons in Well	8.81
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	66.16
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	56
Water Column in Well	54.01	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/28/2020	EB Time	
Sample Time	11:31	MS/MSD Sample ID	
Sample ID	MW-86-066-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	05/28/2020

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)
11:14	500	2000	31.0	7.68	6940	48	1.79	10	12.20	3.75	6.11
11:18	500	4000	29.8	7.65	6933	44	1.60	7	12.20	3.70	6.08
11:22	500	6000	31.1	7.65	6930	40	1.58	5	12.20	3.75	6.11
11:26	500	8000	29.9	7.63	6923	38	1.40	5	12.20	3.70	6.08
11:30	500	10000	31.5	7.60	6910	35	1.38	5	12.20	3.75	6.11

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-86-030

Date	05/28/2020	Sampler	John Tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	5.55
Water Quality Meter	YSI	Gallons in Well	4.44
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	32.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	25
Water Column in Well	27.25	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-804-Q220
Sample Date	05/28/2020	EB Time	13:00
Sample Time	11:03	MS/MSD Sample ID	
Sample ID	MW-86-030-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	40	Post Sampling Turbidity	
		Purge Date	05/28/2020

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)
10:46	500	2000	27.6	7.79	1821	-23.0	3.76	50	5.60	0.92	1.18
10:50	500	4000	27.5	7.80	1823	-20.3	3.50	45	5.63	0.92	1.18
10:54	500	6000	27.8	7.80	1840	-15.2	3.29	43	5.63	0.92	1.18
10:58	500	8000	27.9	7.80	1840	-13.5	3.10	40	5.63	0.92	1.18
11:02	500	10000	27.8	7.8	1835	-13.8	3.0	40	5.63	0.92	1.18

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-76-218

Date	05/26/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	25.76
Water Quality Meter	YSI	Gallons in Well	31.34
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	217.90
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	213
Water Column in Well	192.14	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/26/2020	EB Time	
Sample Time	12:06	MS/MSD Sample ID	
Sample ID	MW-76-218-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	05/26/2020

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)
11:49	500	2000	29.9	7.25	12213	-33	0.35	13	25.80	7.98	6.61
11:53	500	4000	30.0	7.24	12220	-30	0.34	8	25.80	7.95	6.60
11:57	500	6000	30.2	7.23	12225	-29	0.31	8	25.80	7.98	6.61
12:01	500	8000	30.5	7.22	12230	-25	0.30	8	25.80	7.94	6.60
12:05	500	10000	30.8	7.22	12241	-25	0.28	8	25.80	7.94	6.60

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-76-181

Date	05/26/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	26.13
Water Quality Meter	YSI	Gallons in Well	25.22
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	180.77
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	176
Water Column in Well	154.64	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/26/2020	EB Time	
Sample Time	13:01	MS/MSD Sample ID	
Sample ID	MW-76-181-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	05/26/2020

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)
12:44	500	2000	30.2	7.50	12230	-90	0.30	20	26.20	6.53	7.89
12:48	500	4000	30.6	7.48	12239	-89	0.25	5	26.20	6.53	7.88
12:52	500	6000	30.9	7.47	12243	-87	0.22	5	26.20	6.53	7.85
12:56	500	8000	31.0	7.46	12244	-85	0.22	5	26.20	6.50	7.85
13:00	500	10000	31.3	7.45	12250	-83	0.20	5	26.20	6.50	7.85

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-76-156

Date	05/26/2020	Sampler	John Tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	25.96
Water Quality Meter	YSI	Gallons in Well	21.17
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	155.76
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	151
Water Column in Well	129.80	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/26/2020	EB Time	
Sample Time	12:52	MS/MSD Sample ID	
Sample ID	MW-76-156-0520	MS/MSD Sample Time	
Duplicate Sample ID	MW-921-Q220	Double Filter Turbidity	
Dup Sample Time	13:02	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	05/26/2020
Without Filter Turbidity	5		

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)
12:35	500	2000	31.1	7.78	16174	-39.6	0.27	6	26.05	9.38	10.51
12:39	500	4000	30.7	7.80	16165	-40.7	0.23	5	26.07	9.38	10.49
12:43	500	6000	31.0	7.79	16164	-42.0	0.21	5	26.07	9.40	10.52
12:47	500	8000	30.8	7.81	16243	-43.0	0.19	5	26.07	9.44	10.56
12:51	500	10000	30.8	7.83	16257	-43.6	0.18	5	26.07	9.44	10.58

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-76-039

Date	05/26/2020	Sampler	John Tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	25.0
Water Quality Meter	YSI	Gallons in Well	2.17
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	38.29
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	34
Water Column in Well	13.29	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/26/2020	EB Time	
Sample Time	11:56	MS/MSD Sample ID	
Sample ID	MW-76-039-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	32	Post Sampling Turbidity	
		Purge Date	05/26/2020

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)
11:39	500	2000	31.4	7.75	4179	-4.9	2.66	82	25.05	2.19	2.71
11:43	500	4000	31.4	7.54	4183	-5.7	2.63	40	25.08	2.20	2.72
11:47	500	6000	31.3	7.70	4194	-5.7	2.22	37	25.10	2.20	2.70
11:51	500	8000	31.5	7.65	4190	-6.7	2.26	35	25.12	2.20	2.72
11:55	500	10000	31.5	7.66	4187	-5.4	2.37	32	25.12	2.20	2.72

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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		

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-75-337

Date	05/18/2020	Sampler	Riggle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	19.23
Water Quality Meter	YSI	Gallons in Well	51.83
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	337.00
Casing Material	PVC	Odor	sulphur
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	327
Water Column in Well	317.77	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/18/2020	EB Time	
Sample Time	12:26	MS/MSD Sample ID	
Sample ID	MW-75-337-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	05/18/2020

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)
12:09	500	2000	31.3	7.71	29427	-134	0.25	12	19.25	18.04	19.12
12:13	500	4000	31.1	7.77	29441	-124	0.23	9	19.25	18.07	19.14
12:17	500	6000	31.3	7.82	29378	-123.0	0.26	9	19.25	18.04	19.11
12:21	500	8000	31.2	7.84	29379	-121.5	0.27	9	19.25	18.01	19.10
12:25	500	10000	31.3	7.84	29375	-118.3	0.27	9	19.25	18.05	19.15

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-82-112

Date	05/28/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	28.23
Water Quality Meter	YSI	Gallons in Well	14.02
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	114.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	104
Water Column in Well	85.97	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/28/2020	EB Time	
Sample Time	09:32	MS/MSD Sample ID	
Sample ID	MW-82-112-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	05/28/2020

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)
09:15	500	2000	26.8	7.57	7587	3	6.12	16	28.30	4.10	4.93
09:19	500	4000	26.8	7.56	7609	-12	5.67	5	28.30	4.19	4.94
09:23	500	6000	26.4	7.54	7602	-50	4.89	5	28.30	4.19	4.94
09:27	500	8000	26.4	7.53	7657	-57	4.74	5	28.30	4.22	4.97
09:31	500	10000	26.4	7.52	7667	-59	4.77	5	28.30	4.22	4.98

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-82-168

Date	05/28/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	28.41
Water Quality Meter	YSI	Gallons in Well	23.06
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	169.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	158
Water Column in Well	141.39	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/28/2020	EB Time	
Sample Time	08:48	MS/MSD Sample ID	
Sample ID	MW-82-168-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	05/28/2020

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)
08:31	500	2000	26.7	7.84	18578	-188	5.69	6	28.50	10.99	12.09
08:35	500	4000	27.1	7.60	18572	-151	4.38	2	28.50	10.97	12.07
08:39	500	6000	26.9	7.52	18618	-132	4.18	2	28.50	11.00	12.11
08:43	500	8000	26.9	7.56	18886	-123	3.92	2	28.50	11.18	12.25
08:47	500	10000	26.9	7.56	18890	-123	3.88	2	28.50	11.09	12.19

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-82-198

Date	05/21/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	grey
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	23.00
Water Quality Meter	YSI	Gallons in Well	28.78
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	199.46
Casing Material	PVC	Odor	sulphur
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	189
Water Column in Well	176.46	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/21/2020	EB Time	
Sample Time	15:30	MS/MSD Sample ID	
Sample ID	MW-82-198-0520	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	1
Without Filter Turbidity	35	Post Sampling Turbidity	
		Purge Date	05/21/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
15:13	500	2000	28.3	7.10	19590	-127	0.33	38	23.18	11.64	12.74
15:17	500	4000	28.9	7.24	19327	-124	0.28	32	23.18	10.98	11.94
15:21	500	6000	29.0	7.36	18230	-124	0.24	33	23.18	10.69	11.81
15:25	500	8000	30.1	7.36	17667	-126	0.26	34	23.18	10.39	11.51
15:29	500	10000	29.7	7.38	18113	-126	0.27	35	23.18	10.69	11.72

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-82-046

Date	05/28/2020	Sampler	John Tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	29.10
Water Quality Meter	YSI	Gallons in Well	3.04
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	47.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	42
Water Column in Well	18.61	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/28/2020	EB Time	
Sample Time	08:46	MS/MSD Sample ID	
Sample ID	MW-82-046-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	46	Post Sampling Turbidity	
		Purge Date	05/28/2020

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)
08:25	500	2000	27.1	7.09	12787	-74.3	1.32	130	29.20	7.33	8.33
08:29	500	4000	27.1	7.09	12835	-75.1	1.06	100	29.22	7.34	8.34
08:33	500	6000	27.0	7.08	12822	-77.1	0.70	50	29.24	7.34	8.33
08:37	500	8000	27.0	7.09	12814	-76.8	0.65	48	29.24	7.34	8.33
08:41	500	10000	27.1	7.08	12810	-77.1	0.56	47	29.24	7.33	8.32
08:45	500	12000	27.2	7.09	12789	-77.4	0.48	46	29.24	7.32	8.32

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-77-158

Date	05/26/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	MI	Depth to Water (ft bmp)	24.14
Water Quality Meter	YSI	Gallons in Well	21.51
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	156.00
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	150
Water Column in Well	131.86	Total Volume to Remove	0.0
Did Well Dewater?	No	EB Sample ID	EB-802-Q220
Sample Date	05/26/2020	EB Time	15:40
Sample Time	15:12	MS/MSD Sample ID	
Sample ID	MW-77-158-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	05/26/2020

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)
14:55	500	2000	28	7.42	14456	68.3	1.44	2	24.24	7.75	8.78
14:59	500	4000	28	7.41	14422	68.0	1.43	2	24.24	7.74	8.74
15:03	500	6000	28	7.41	14446	67.9	1.44	2	24.24	7.74	8.74
15:07	500	8000	28	7.41	14452	67.9	1.44	2	24.24	7.74	8.74
15:11	500	10000	28	7.41	14433	67.9	1.44	2	24.24	7.74	8.74

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-77-187

Date	05/26/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	23.87
Water Quality Meter	YSI	Gallons in Well	26.57
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	186.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	182
Water Column in Well	162.93	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-800-q220
Sample Date	05/26/2020	EB Time	15:30
Sample Time	15:05	MS/MSD Sample ID	
Sample ID	MW-77-187-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	05/26/2020

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)
14:44	500	2000	30.8	7.37	12566	-64	0.40	13	23.95	6.32	7.44
14:48	500	4000	31.0	7.35	12561	-60	0.38	5	23.95	6.30	7.42
14:52	500	6000	31.0	7.33	12611	-59	0.34	4	23.95	6.31	7.41
14:56	500	8000	31.3	7.31	12623	-55	0.32	4	23.95	6.30	7.40
15:00	500	10000	31.3	7.30	12660	-50	0.30	4	23.95	6.30	7.40
15:04	500	12000	31.6	7.30	12710	-44	0.28	4	23.95	6.30	7.40

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-267

Date	05/18/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	17.05
Water Quality Meter	YSI	Gallons in Well	40.96
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	268.18
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	257
Water Column in Well	251.13	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/18/2020	EB Time	
Sample Time	14:48	MS/MSD Sample ID	
Sample ID	MW-75-267-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	05/18/2020

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)
14:31	500	2000	31.8	7.51	22755	-143.5	0.99	6	17.10	13.62	14.80
14:35	500	4000	31.6	7.55	22885	-148.4	0.55	5	17.10	13.70	14.88
14:39	500	6000	31.7	7.59	22912	-139.2	0.27	5	17.10	13.71	14.88
14:43	500	8000	32.1	7.60	22920	-143.1	0.27	5	17.10	13.71	14.89
14:47	500	10000	32.1	7.63	22907	-140.6	0.25	5	17.10	13.70	14.89

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-202

Date	05/18/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	17.42
Water Quality Meter	YSI	Gallons in Well	30.10
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	201.99
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	192
Water Column in Well	184.57	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-792-q220
Sample Date	05/18/2020	EB Time	15:35
Sample Time	15:25	MS/MSD Sample ID	
Sample ID	MW-75-202-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	05/18/2020

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)
15:08	500	2000	29.7	8.04	17486	-81.6	0.98	7		10.23	11.34
15:12	500	4000	30.1	7.88	17422	-89.8	0.52	6	17.45	10.15	11.25
15:16	500	6000	29.9	7.80	17360	-88.7	0.27	6	17.45	10.16	11.29
15:20	500	8000	29.9	7.79	17481	-92.7	0.27	6	17.45	10.24	11.37
15:24	500	10000	29.8	7.74	17615	-95.3	0.25	6	17.45	10.33	11.44

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-77-102

Date	05/26/2020	Sampler	John Tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	23.38
Water Quality Meter	YSI	Gallons in Well	12.95
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	102.8
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	92
Water Column in Well	79.42	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/26/2020	EB Time	15:15
Sample Time	14:57	MS/MSD Sample ID	
Sample ID	MW-77-102-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	05/26/2020

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)
14:40	500	2000	27.6	7.60	7731	-41.3	0.47	6	23.42	4.26	5.03
14:44	500	4000	27.8	7.47	7754	-42.4	0.40	5	23.45	4.27	5.04
14:48	500	6000	27.7	7.46	7760	-42.7	0.37	5	23.45	4.27	5.05
14:52	500	8000	27.6	7.45	7770	-43.5	0.34	5	23.45	4.27	5.05
14:56	500	10000	27.6	7.45	7765	-44.0	0.33	5	23.45	4.28	5.04

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-92-102

Date	05/19/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	5.61
Water Quality Meter	YSI	Gallons in Well	15.66
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	101.60
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	97
Water Column in Well	95.99	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/19/2020	EB Time	
Sample Time	09:59	MS/MSD Sample ID	
Sample ID	MW-92-102-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	05/19/2020

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)
09:42	500	2000	27.3	8.35	3512	1.5	2.39	8	5.65	1.84	2.28
09:46	500	4000	27.4	8.41	3497	-13.2	2.07	7	5.65	1.83	2.27
09:50	500	6000	27.5	8.49	3564	-59.3	1.78	7	5.65	1.87	2.32
09:54	500	8000	27.8	8.56	3688	-67.0	1.98	7	5.65	1.93	2.39
09:58	500	10000	27.8	8.56	3694	-69.1	0.99	7	5.65	1.94	2.40

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-92-122

Date	05/19/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	5.92
Water Quality Meter	YSI	Gallons in Well	19.12
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	123.17
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	117
Water Column in Well	117.25	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/19/2020	EB Time	
Sample Time	09:09	MS/MSD Sample ID	
Sample ID	MW-92-122-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	05/19/2020

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)
08:52	500	2000	27.3	7.91	12615	-105.3	0.90	5	5.96	7.20	8.19
08:56	500	4000	27.4	7.81	12635	-170.7	0.80	5	5.96	7.22	8.21
09:00	500	6000	27.5	7.85	13513	-172.8	0.82	5	5.96	7.38	8.39
09:04	500	8000	27.4	7.83	13599	-178.6	0.52	5	5.96	7.78	8.81
09:08	500	10000	27.4	7.90	13606	-180.1	0.48	5	5.96	7.38	8.39

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-92-072

Date	05/19/2020	Sampler	John tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	5.12
Water Quality Meter	YSI	Gallons in Well	12.12
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	79.4
Casing Diameter (in)	2	Odor	Sulphur
Water Column in Well	74.28	Pump Intake Depth (ft bmp)	69
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	05/19/2020	EB Sample ID	
Sample Time	10:00	EB Time	
Sample ID	MW-92-072-0520	MS/MSD Sample ID	
Duplicate Sample ID	MW-927-Q220	MS/MSD Sample Time	
Dup Sample Time	10:10	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	7	Purge Date	05/19/2020

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)
09:47	500	1500	27.3	8.36	3752	-24.2	1.65	8	5.15	1.97	2.44
09:50	500	3000	27.5	8.40	3807	-32.4	1.21	7	5.18	2.0	2.47
09:53	500	4500	27.5	8.36	3833	-34.3	1.14	7	5.18	2.01	2.48
09:56	500	6000	27.6	8.39	3833	-35.2	0.99	7	5.18	2.02	2.5
09:59	500	7500	27.5	8.46	3814	-38.4	0.75	7	5.18	2.02	2.5

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-92-037

Date	05/19/2020	Sampler	John tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	5.20
Water Quality Meter	YSI	Gallons in Well	5.58
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	39.4
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	29
Water Column in Well	34.2	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/19/2020	EB Time	
Sample Time	08:50	MS/MSD Sample ID	
Sample ID	MW-92-037-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	05/19/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:37	500	1500	27.0	8.58	2985	-90.0	1.82	7	5.25	1.82	1.94
08:40	500	3000	27.1	8.55	3068	-124.2	1.39	6	5.28	1.82	1.99
08:43	500	4500	27.1	8.53	3095	-140.0	1.01	6	5.29	1.80	2.0
08:46	500	6000	27.1	8.48	3059	-134.4	0.73	6	5.30	1.80	1.98
08:49	500	7500	27.1	8.47	3065	-137.9	0.66	6	5.30	1.80	1.98

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-77-046

Date	05/26/2020	Sampler	JB
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	23.08
Water Quality Meter	YSI	Gallons in Well	3.3
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	43.29
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	39
Water Column in Well	20.21	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/26/2020	EB Time	
Sample Time	14:00	MS/MSD Sample ID	
Sample ID	MW-77-046-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	05/26/2020

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)
13:47	500	1500	28.00	7.26	4405	19.6	.11	14	23.08	2.20	2.708
13:50	500	3000	28.00	7.26	4390	27.6	.11	9	23.15	2.20	2.705
13:53	500	4500	28.00	7.25	4390	31.5	.11	9	23.15	2.20	2.701
13:56	500	6000	28.00	7.26	4341	30.9	.12	9	23.15	2	2.17
13:59	500	7500	28.00	7.26	4393	32.1	.09	9	23.15	2.20	2.709

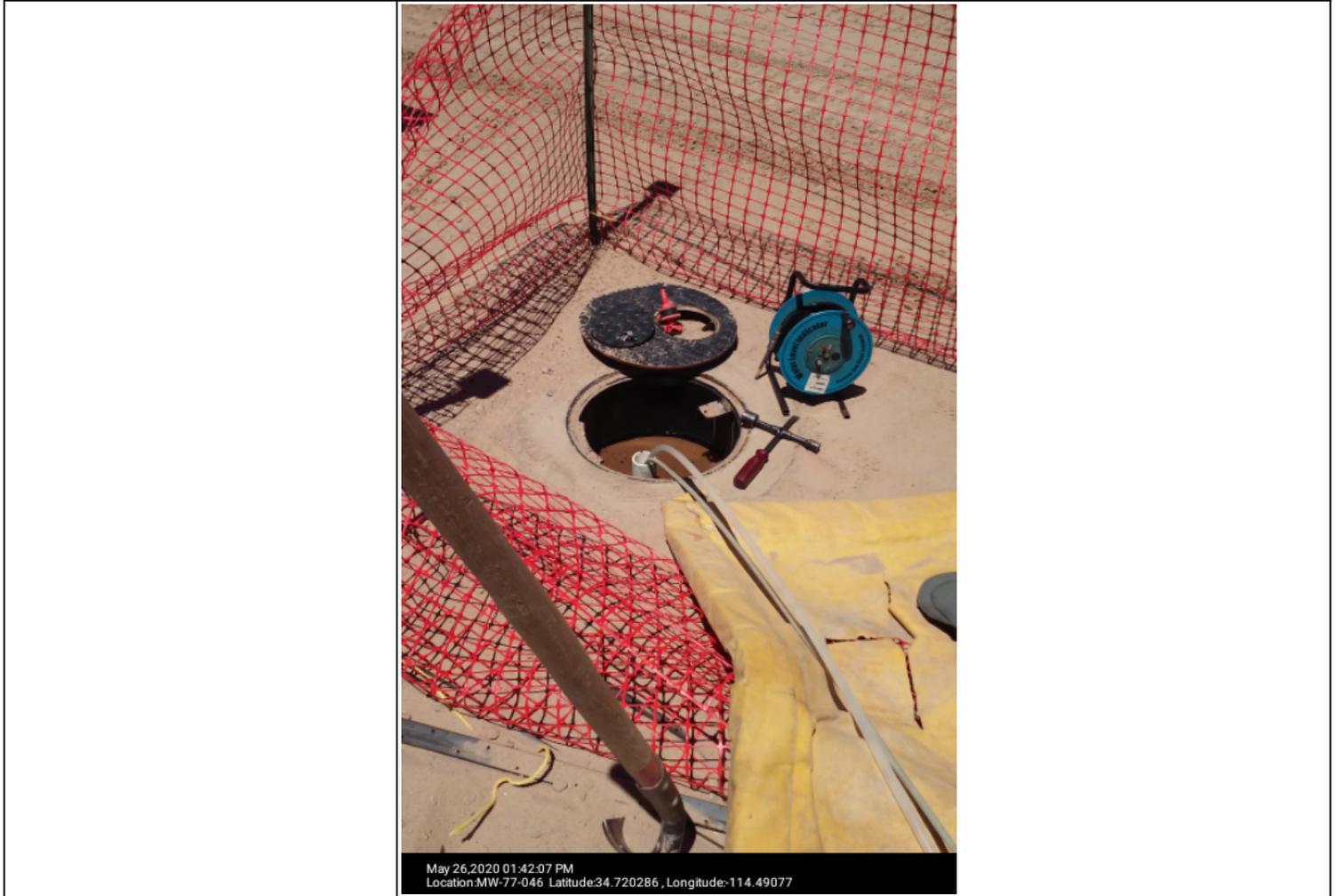
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-91-045

Date	05/19/2020	Sampler	John tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	8.69
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	46.57
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	36
Water Column in Well	37.88	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/19/2020	EB Time	
Sample Time	12:39	MS/MSD Sample ID	
Sample ID	MW-91-045-0520	MS/MSD Sample Time	
Duplicate Sample ID	MW-926-Q220	Double Filter Turbidity	
Dup Sample Time	12:49	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	05/19/2020
Without Filter Turbidity	10		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:23	500	1500	26.6	8.05	2201	-27.5	1.92	101	8.75	1.12	1.43
12:26	500	3000	26.5	8.05	2180	-29.04	1.62	27	8.79	1.11	1.41
12:29	500	4500	26.7	8.06	2178	-32.4	1.66	21	8.81	1.11	1.41
12:32	500	6000	26.6	8.04	2168	-31.5	1.44	14	8.81	1.10	1.41
12:35	500	7500	26.6	8.05	2159	-33.0	1.18	10	8.81	1.11	1.41
12:38	500	9000	26.6	8.07	2149	-32.9	1.10	10	8.81	1.11	1.41

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-91-120

Date	05/19/2020	Sampler	John tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	8.90
Water Quality Meter	YSI	Gallons in Well	18.48
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	122.21
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	112
Water Column in Well	113.31	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	Eb-794-q220
Sample Date	05/19/2020	EB Time	14:38
Sample Time	14:11	MS/MSD Sample ID	
Sample ID	MW-91-120-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	05/19/2020

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)
13:58	500	1500	27.4	7.60	9194	-46.5	2.82	10	8.95	5.13	5.98
14:01	500	3000	28.0	7.54	9338	-55.0	2.64	9	9.0	5.23	6.10
14:04	500	4500	27.5	7.57	9726	-33.0	2.27	8	9.20	5.45	6.33
14:07	500	6000	27.3	7.58	9732	-28.9	2.07	8	9.20	5.54	6.33
14:10	500	7500	27.3	7.58	9767	-28.1	1.90	8	9.20	5.47	6.35

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-91-170

Date	05/19/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	8.79
Water Quality Meter	YSI	Gallons in Well	26.26
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	169.80
Casing Material	PVC	Odor	sulphur
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	160
Water Column in Well	161.01	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-793-q220
Sample Date	05/19/2020	EB Time	14:35
Sample Time	13:33	MS/MSD Sample ID	
Sample ID	MW-91-170-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	05/19/2020

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)
13:12	500	2000	25.6	8.17	7375	-181.1	2.57	24	8.82	4.39	5.36
13:16	500	4000	25.7	8.11	10900	-168.2	1.58	15	8.82	6.19	7.11
13:20	500	6000	25.7	8.18	11413	-131.9	0.50	8	8.82	6.48	7.43
13:24	500	8000	25.6	8.26	11529	-127.6	0.35	8	8.82	6.60	7.50
13:28	500	10000	25.6	8.30	11592	-120.2	0.29	8	8.82	6.62	7.54
13:32	500	12000	25.6	8.33	11672	-117.9	0.28	8	8.82	6.63	7.57

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-91-320

Date	05/19/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	11.13
Water Quality Meter	YSI	Gallons in Well	50.36
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	319.88
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	310
Water Column in Well	308.75	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/19/2020	EB Time	
Sample Time	12:43	MS/MSD Sample ID	
Sample ID	MW-91-320-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	05/19/2020

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)
12:26	500	2000	28.4	7.63	28117	-141.4	1.26	9	11.16	17.26	18.31
12:30	500	4000	28.4	7.65	28564	-147.2	0.56	8	11.16	17.59	18.60
12:34	500	6000	28.4	7.66	29334	-150.8	0.34	8	11.16	18.17	19.16
12:38	500	8000	28.3	7.69	30163	-160.5	0.30	8	11.16	18.67	19.60
12:42	500	10000	28.2	7.69	30157	-163.0	0.29	8	11.16	18.67	19.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-94-030

Date	05/20/2020	Sampler	John tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	10.51
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	32.72
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	22
Water Column in Well	22.21	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/20/2020	EB Time	
Sample Time	11:56	MS/MSD Sample ID	
Sample ID	MW-94-030-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	05/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI 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	1500	31.9	7.98	1406	26.4	4.52	100	10.55	0.70	0.91
11:46	500	3000	31.9	7.96	1407	18.6	4.64	84	10.58	0.69	0.91
11:49	500	4500	32.0	7.95	1406	14.1	4.57	17	10.60	0.69	0.91
11:52	500	6000	32.0	7.93	1404	7.8	4.50	6	10.62	0.69	0.91
11:55	500	7500	32.0	7.93	1405	7.4	4.40	5	10.62	0.69	0.91

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-94-100

Date	05/20/2020	Sampler	John tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	10.23
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	102.40
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	92
Water Column in Well	92.17	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/20/2020	EB Time	
Sample Time	12:53	MS/MSD Sample ID	
Sample ID	MW-94-100-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	50	Post Sampling Turbidity	
Turbidity		Purge Date	05/20/2020

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)
12:31	500	1500	34.1	7.91	1740	-7.9	2.40	481	10.27	0.87	1.13
12:34	500	3000	34.6	7.91	1756	-11.2	2.39	266	10.30	0.87	1.14
12:37	500	4500	34.6	7.90	1751	-12.7	2.30	90	10.33	0.87	1.13
12:40	500	6000	34.9	7.91	1746	-14.1	2.20	75	10.35	0.87	1.13
12:43	500	7500	34.8	7.89	1738	-13.9	2.20	70	10.35	0.87	1.13
12:46	500	9000	34.8	7.88	1718	-14.5	2.15	60	10.35	0.85	1.11
12:49	500	10500	34.9	7.90	1690	-15.1	2.15	55	10.35	0.83	1.08
12:52	500	12000	35.0	7.90	1644	-15.5	2.18	50	10.35	0.81	1.07

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-94-175

Date	05/20/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	8.98
Water Quality Meter	YSI	Gallons in Well	27.04
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	174.76
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	165
Water Column in Well	165.78	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/20/2020	EB Time	
Sample Time	12:07	MS/MSD Sample ID	
Sample ID	MW-94-175-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	05/20/2020

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)
11:50	500	2000	34.9	7.86	1025	121	3.48	5	9.00	0.59	0.66
11:54	500	4000	35.8	7.93	1029	115	3.09	5	9.00	0.49	0.66
11:58	500	6000	35.7	7.96	1026	112	2.81	5	9.00	0.50	0.66
12:02	500	8000	35.9	7.96	1030	110	2.93	5	9.00	0.50	0.66
12:06	500	10000	35.8	7.96	1026	109	2.85	5	9.00	0.50	0.66

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**

MW-88-107

Date	05/28/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	90.20
Water Quality Meter	YSI	Gallons in Well	3.08
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	109.10
Casing Diameter (in)	2	Odor	None
Water Column in Well	18.9	Pump Intake Depth (ft bmp)	104
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	05/28/2020	EB Sample ID	
Sample Time	10:31	EB Time	
Sample ID	MW-88-107-0520	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	8	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	05/28/2020

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)
10:14	500	2000	31	7.28	1600	120.4	3.53	18	90.25	0.70	0.921
10:18	500	4000	31	7.26	1595	126.2	3.46	11	90.25	0.70	0.913
10:22	500	6000	31	7.27	1586	120.4	3.34	8	90.25	0.69	0.905
10:26	500	8000	31	7.28	1586	120.4	3.31	8	90.25	0.69	0.905
10:30	500	10000	31	7.28	1586	120.3	3.31	8	90.25	0.69	0.905

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	

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-11D

Date	05/28/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Water Quality Meter	YSI	Depth to Water (ft bmp)	66.39
Sampling Type	Low Flow – Grundfos RF2	Gallons in Well	10.99
Casing Diameter (in)	2	Measured Well Depth (ft bmp)	133.80
Water Column in Well	67.41	Odor	None
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	128
Sample Date	05/28/2020	Total Volume to Remove	
Sample Time	08:35	EB Sample ID	
Sample ID	MW-11D-0520	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	9	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	05/28/2020

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)
08:18	500	2000	30.68	7.19	4295	147.5	2.00	12	66.45	2.06	2.585
08:22	500	4000	31	7.05	4895	161.2	1.70	9	66.45	2.23	2.777
08:26	500	6000	31	7.05	4895	164.9	1.51	9	66.45	2.23	2.830
08:30	500	8000	31	7.05	4895	166.2	1.70	9	66.45	2.23	2.805
08:34	500	10000	31	7.05	4895	168.1	1.70	9	66.45	2.23	2.805

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-81-043

Date	05/21/2020	Sampler	John tran
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	22.68
Water Quality Meter	YSI	Gallons in Well	3.58
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	44.61
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	34
Water Column in Well	21.93	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/21/2020	EB Time	
Sample Time	14:11	MS/MSD Sample ID	
Sample ID	MW-81-043-0520	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	30	Post Sampling Turbidity	
		Purge Date	05/21/2020

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)
13:43	500	1500	29.4	7.49	6780	-25.7	0.21	1000	22.75	3.69	4.41
13:46	500	3000	29.0	7.50	6812	-31.7	0.19	1000	22.79	3.74	4.43
13:49	500	4500	29.2	7.65	6840	-38.4	0.18	1000	22.83	3.72	4.45
13:52	500	6000	29.2	7.58	6865	-45.0	0.18	602	22.85	3.75	4.46
13:55	500	7500	29.0	7.62	6884	-40.4	0.22	500	22.88	3.76	4.48
13:58	500	9000	28.5	7.60	6921	-42.9	0.18	300	22.89	3.77	4.49
14:01	500	10500	28.0	7.62	6906	-46.5	0.17	230	22.90	3.77	4.49
14:04	500	12000	28.0	7.61	6900	-47.8	0.18	193	22.90	3.76	4.48
14:07	500	13500	27.9	7.62	6889	-49.7	0.22	60	22.90	3.76	4.47
14:10	500	15000	28.7	7.59	6909	-53.3	0.33	30	22.90	3.76	4.48

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		

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Steel Casing Intact?			X	
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-81-098

Date	05/21/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	23.00
Water Quality Meter	YSI	Gallons in Well	12.36
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	98.77
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	88
Water Column in Well	75.77	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/21/2020	EB Time	
Sample Time	13:55	MS/MSD Sample ID	
Sample ID	MW-81-098-0520	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	1
Without Filter Turbidity	15	Post Sampling Turbidity	
		Purge Date	05/21/2020

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)
13:38	500	2000	29.9	7.27	7858	44	1.94	58	23.12	1.33	5.11
13:42	500	4000	29.2	7.23	7890	29	1.83	39	23.12	4.34	5.13
13:46	500	6000	29.9	7.17	8015	2.5	1.35	18	23.12	4.41	5.21
13:50	500	8000	29.4	7.17	8024	9.4	1.24	15	23.12	4.41	5.21
13:54	500	10000	29.2	7.17	8033	-16	1.23	15	23.12	4.42	5.21

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-24A

Date	05/01/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	111.60
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	127.11
Casing Material	PVC	Odor	None
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	120
Water Column in Well	15.51	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/01/2020	EB Time	
Sample Time	09:51	MS/MSD Sample ID	
Sample ID	MW-24A-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	05/01/2020

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)
09:32	500	1500	29.1	7.73	1761	16.7	1.34	6	111.93	0.87	1.310
09:35	500	3000	30.8	7.76	1756	-53.4	0.81	4	111.93	0.90	1.1187
09:38	500	4500	31.2	7.76	1747	-95.0	0.61	4	111.93	0.90	1.1440
09:41	500	6000	31.9	7.75	1782	-124.0	0.49	4	111.93	0.90	1.1375
09:44	500	7500	32.1	7.76	1779	-134.4	0.45	4	111.93	0.89	1.1700
09:47	500	9000	32.4	7.75	1805	-140.6	0.40	4	111.93	0.89	1.1765
09:50	500	10500	32.5	7.75	1805	-141.9	0.37	4	111.93	0.89	1.1765

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		

**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

MW-24B

Date	05/01/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	109.61
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	213.38
Casing Material	PVC	Odor	None
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	203
Water Column in Well	103.77	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/01/2020	EB Time	
Sample Time	10:36	MS/MSD Sample ID	
Sample ID	MW-24B-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	05/01/2020

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)
10:23	500	1500	29.3	7.31	19933	-172.1	1.25	10	109.68	11.85	13.0930
10:26	500	3008	30.5	7.36	20261	-173.7	0.68	9	109.77	12.05	13.2340
10:29	500	4500	30.9	7.36	20332	-177.3	0.53	9	109.74	12.10	13.2665
10:32	500	6000	30.7	7.35	20449	-179.3	0.49	9	109.75	12.09	13.2860
10:35	500	7500	30.7	7.36	20389	-181.0	0.45	9	109.75	12.09	13.2860

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-48

Date	05/01/2020	Sampler	
Did Well Dewater?	Yes	Color	Clear
Sample Date	05/01/2020	Casing Volume to Remove	
Sample Time	11:15	Depth to Water (ft bmp)	
Sample ID	MW-48-Q220	Gallons in Well	
Single Filter Turbidity	12	Measured Well Depth (ft bmp)	
Without Filter Turbidity	1	Odor	None
		Pump Intake Depth (ft bmp)	
		Total Volume to Remove	
		EB Sample ID	
		EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	05/01/2020

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)

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-58-065

Date	<u>05/01/2020</u>	Sampler	<u>Reggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u></u>
Casing Material	<u>PVC</u>	Casing Volume to Remove	<u></u>
Casing Diameter (in)	<u>4</u>	Depth to Water (ft bmp)	<u></u>
Comments	<u>Well is dry</u>	Gallons in Well	<u></u>
Did Well Dewater?	<u>NA</u>	Measured Well Depth (ft bmp)	<u>65.66</u>
		Odor	<u></u>
		Pump Intake Depth (ft bmp)	<u></u>
		Total Volume to Remove	<u></u>
		EB Sample ID	<u></u>
		EB Time	<u></u>
		MS/MSD Sample ID	<u></u>
		MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>05/01/2020</u>

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)
09:19	0	0									

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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	
Remarks				

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-58BR

Date	05/01/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	67.15
Water Quality Meter	YSI	Gallons in Well	135.43
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	200.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	130
Water Column in Well	132.85	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/01/2020	EB Time	
Sample Time	08:13	MS/MSD Sample ID	
Sample ID	MW-58BR-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	05/01/2020

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)
07:56	500	2000	27.2	7.77	8015	152	3.33	9	67.17	4.38	5.17
08:00	500	4000	27.7	7.76	5325	146	1.13	5	67.17	2.83	3.43
08:04	500	6000	27.8	7.77	5176	145	0.80	5	67.17	2.75	3.35
08:08	500	8000	27.8	7.78	5101	144	0.65	5	67.17	2.72	3.30
08:12	500	10000	27.9	7.78	5075	143	0.58	5	67.17	2.70	3.28

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-64BR

Date	05/01/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	118.99
Water Quality Meter	YSI	Gallons in Well	141.71
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	258
Casing Material	PVC	Odor	none
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	
Water Column in Well	139.01	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/01/2020	EB Time	
Sample Time	09:46	MS/MSD Sample ID	
Sample ID	MW-64BR-Q220	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	05/01/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:29	500	2000	25.5	8.10	835	146	4.33	10	119.01	0.41	0.53
09:33	500	4000	25.6	8.00	838	138	4.01	9	119.01	0.43	0.55
09:37	500	6000	25.7	7.98	839	135	3.88	9	119.01	0.43	0.55
09:41	500	8000	25.8	7.95	841	133	3.79	9	119.01	0.43	0.55
09:45	500	10000	25.8	7.93	843	129	3.69	9	119.01	0.45	0.57

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-69-195

Date	05/01/2020	Sampler	Spencer Doolittle
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	175.16
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	195.23
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	185
Water Column in Well	20.07	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	05/01/2020	EB Time	
Sample Time	08:22	MS/MSD Sample ID	
Sample ID	MW-69-195-Q220	MS/MSD Sample Time	
Duplicate Sample ID	MW-913-Q220	Double Filter Turbidity	
Dup Sample Time	08:32	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	05/01/2020
Without Filter Turbidity	9		

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)
08:03	250	1000	29.1	7.26	2709	82.2	9.38	17	175.29	1.39	1.7550
08:07	250	2000	29.1	7.12	2691	78.3	6.94	12	175.29	1.38	1.7420
08:11	250	3000	29.2	7.04	2640	68.5	4.60	9	175.29	1.35	1.7160
08:14	250	4000	29.6	7.00	2646	64.8	4.21	9	175.29	1.36	1.7160
08:17	250	5000	29.1	6.99	2650	64.6	4.16	9	175.29	1.36	1.7225
08:21	250	6000	29.2	6.96	2671	65.1	4.26	9	175.29	1.37	1.7335

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-71-035

Date	05/01/2020	Sampler	Spencer
Weather Conditions	Sunny	Color	brown
Purge Method	Low Flow	Casing Volume to Remove	1
Purge Volume Units	ml	Depth to Water (ft bmp)	30.58
Water Quality Meter	YSI	Gallons in Well	0.70
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	34.88
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	33
Water Column in Well	4.30	Total Volume to Remove	0.70
Did Well Dewater?	No	EB Sample ID	Eb-715-q220
Sample Date	05/01/2020	EB Time	11:25
Sample Time	11:15	MS/MSD Sample ID	
Sample ID	MW-71-035-Q220	MS/MSD Sample Time	
Single Filter Turbidity	5	Double Filter Turbidity	1
Without Filter Turbidity	39	Post Sampling Turbidity	
		Purge Date	05/01/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:58	500	2000	29.3	6.95	13202	120	3.30	25	30.70	7.55	8.58
11:02	500	4000	29.5	6.98	13208	118	3.18	37	30.70	7.55	8.58
11:06	500	6000	29.7	6.99	13022	117	3.10	38	30.70	7.55	8.58
11:10	500	8000	29.7	7.00	13222	115	3.09	38	30.70	7.55	8.58
11:14	500	10000	29.8	7.01	13230	113	3.05	39	30.70	7.55	8.58

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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



Site: PGE Topock
Topock, CA

MW-60BR-245-LF_S

Date	06/24/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	98.43
Water Quality Meter	YSI	Gallons in Well	95.63
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	245.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	175
Water Column in Well	146.57	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/24/2020	EB Time	
Sample Time	13:57	MS/MSD Sample ID	
Sample ID	MW-60BR-245-LF_S-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	06/24/2020

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)
13:40	500	2000	29.7	7.96	17497	175	0.97	7	98.50	10.26	11.37
13:44	500	4000	29.9	7.98	17490	173	0.95	6	98.50	10.22	11.34
13:48	500	6000	31.2	8.03	17448	170	0.91	6	98.50	10.26	11.33
13:52	500	8000	30.8	8.05	17508	167	0.88	6	98.50	10.27	11.33
13:56	500	10000	30.5	8.07	17519	168	0.87	6	98.50	10.20	11.35

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

MW-83-180

Date	06/15/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	72.90
Water Quality Meter	YSI	Gallons in Well	17.45
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	179.88
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	170
Water Column in Well	106.98	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-701-q620
Sample Date	06/15/2020	EB Time	14:25
Sample Time	14:16	MS/MSD Sample ID	
Sample ID	MW-83-180-0620	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	06/15/2020

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)
13:59	500	2000	30.8	7.54	9635	190	0.46	7	72.95	5.36	6.24
14:03	500	4000	31.1	7.57	9926	184	0.55	6	72.95	5.56	6.47
14:07	500	6000	30.9	7.60	10044	189	0.50	6	72.95	5.35	6.28
14:11	500	8000	31.1	7.62	10108	183	0.48	6	72.95	5.58	6.50
14:15	500	10000	31.3	7.65	10210	180	0.40	6	72.95	5.56	6.52

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-75-117

Date	06/15/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	16.83
Water Quality Meter	YSI	Gallons in Well	16.52
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	118.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	108
Water Column in Well	101.28	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/15/2020	EB Time	
Sample Time	13:47	MS/MSD Sample ID	MW-75-117-0620
Sample ID	MW-75-117-0620	MS/MSD Sample Time	13:47
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	35	Post Sampling Turbidity	
		Purge Date	06/15/2020

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)
13:30	500	2000	31.31	7.55	8470	60.7	20.4	53	16.95	4.07	4.85
13:34	500	4000	32.88	7.54	8615	46.3	15.3	40	16.98	4.08	4.86
13:38	500	6000	33.39	7.53	8704	40.3	15.1	37	16.98	4.08	4.87
13:42	500	8000	32.8	7.54	8754	38.8	14.8	35	16.98	4.08	4.87
13:46	500	10000	32.5	7.55	8732	38.2	14.5	35	16.98	4.08	4.87

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-033

Date	06/15/2020	Sampler	Jb
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	16.53
Water Quality Meter	YSI	Gallons in Well	2.98
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	34.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	27
Water Column in Well	18.27	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-702-Q620
Sample Date	06/15/2020	EB Time	14:50
Sample Time	14:31	MS/MSD Sample ID	
Sample ID	MW-75-033-0620	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	25	Post Sampling Turbidity	
		Purge Date	06/15/2020

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)
14:14	500	2000	29.75	7.44	4014	141.0	16.0	50	16.60	1.92	2.38
14:18	500	4000	30.15	7.44	4002	140.7	17.3	30	16.63	1.91	2.37
14:22	500	6000	29.66	7.43	3961	142.3	17.6	28	16.63	1.89	2.36
14:26	500	8000	30.39	7.42	3995	143.8	17.8	26	16.63	1.89	2.35
14:30	500	10000	30.40	7.42	4002	144.2	18.1	25	16.64	1.89	2.35

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-84-057

Date	06/17/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	44.20
Water Quality Meter	YSI	Gallons in Well	2.28
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	58.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	52
Water Column in Well	14.00	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-706-Q620
Sample Date	06/17/2020	EB Time	13:30
Sample Time	13:00	MS/MSD Sample ID	
Sample ID	MW-84-057-0620	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	18	Post Sampling Turbidity	
		Purge Date	06/17/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:43	500	2000	29.76	7.64	1499	194.30	66.1	30	44.23	0.68	0.88
12:47	500	4000	30.15	7.55	1503	195.5	53.2	20	44.26	0.68	0.88
12:51	500	6000	30.21	7.54	1504	195.7	52.9	19	44.26	0.68	0.88
12:55	500	8000	30.18	7.54	1503	195.7	52.7	18	44.26	0.68	0.88
12:59	500	10000	30.17	7.54	1501	195.4	52.5	18	44.26	0.68	0.88

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-84-095

Date	06/17/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	44.18
Water Quality Meter	YSI	Gallons in Well	8.47
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	96.10
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Water Column in Well	51.92	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/17/2020	EB Time	
Sample Time	12:12	MS/MSD Sample ID	
Sample ID	MW-84-095-0620	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	13	Post Sampling Turbidity	
Turbidity		Purge Date	06/17/2020

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)
11:55	500	2000	29.80	7.38	4542	181.0	8.3	25	44.21	2.18	2.69
11:59	500	4000	30.31	7.37	4577	175.3	6.0	15	44.23	2.18	2.69
12:03	500	6000	30.55	7.36	4600	170.6	6.2	14	44.23	2.19	2.70
12:07	500	8000	30.63	7.36	4608	166.2	6.1	13	44.23	2.19	2.70
12:11	500	10000	30.66	7.36	4612	162.9	6.2	13	44.23	2.19	2.70

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-84-132

Date	06/17/2020	Sampler	JB
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	44.80
Water Quality Meter	YSI	Gallons in Well	14.39
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	133.05
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	122
Water Column in Well	88.25	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/17/2020	EB Time	
Sample Time	11:36	MS/MSD Sample ID	
Sample ID	MW-84-132-0620	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	10	Post Sampling Turbidity	
Turbidity		Purge Date	06/17/2020

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)
11:19	500	2000	29.56	7.43	5365	159.2	7.8	17	44.85	2.62	3.20
11:23	500	4000	29.75	7.37	5384	155.8	7.6	10	4.87	2.63	3.21
11:27	500	6000	29.98	7.35	5458	151.2	7.3	10	44.87	2.67	3.26
11:31	500	8000	30.12	7.34	5545	146.0	7.1	10	44.87	2.86	3.50
11:35	500	10000	30.2	7.35	5675	141.5	6.9	10	44.87	2.86	3.50

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-84-193

Date	06/17/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	2
Purge Volume Units	ml	Depth to Water (ft bmp)	44.80
Water Quality Meter	YSI	Gallons in Well	24.25
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	193.50
Casing Material	PVC	Odor	sulphur
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	183
Water Column in Well	148.70	Total Volume to Remove	48.50
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/17/2020	EB Time	
Sample Time	10:51	MS/MSD Sample ID	
Sample ID	MW-84-193-0620	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	10	Post Sampling Turbidity	
Turbidity		Purge Date	06/17/2020

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)
10:34	500	2000	30.31	7.42	9252	-9.0	5.7	15	44.85	4.64	5.47
10:38	500	4000	30.12	7.42	9252	-6.5	5.1	10	44.87	4.65	5.47
10:42	500	6000	30.17	7.42	9253	-3.0	4.9	10	44.87	4.64	5.47
10:46	500	8000	30.22	7.42	9264	-2.9	4.6	10	44.87	4.65	5.47
10:50	500	10000	30.23	7.43	9289	-6.0	4.4	10	44.87	4.66	5.49

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-87-192

Date	06/17/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.52
Water Quality Meter	YSI	Gallons in Well	16.72
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	193.05
Casing Material	PVC	Odor	sulphur
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	182
Water Column in Well	102.53	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/17/2020	EB Time	
Sample Time	09:31	MS/MSD Sample ID	
Sample ID	MW-87-192-0620	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	12	Post Sampling Turbidity	
		Purge Date	06/17/2020

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)
09:14	500	2000	29.39	7.42	5946	3.0	12.5	17	90.57	2.96	3.60
09:18	500	4000	29.28	7.36	6395	4.6	8.4	12	90.57	3.20	3.86
09:22	500	6000	29.32	7.40	6485	5.8	8.2	12	90.57	3.24	3.91
09:26	500	8000	29.11	7.44	6619	6.8	8.1	12	90.57	3.37	4.05
09:30	500	10000	29.39	7.45	6810	10.2	7.8	12	90.57	3.39	4.08

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-87-275

Date	06/17/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.42
Water Quality Meter	YSI	Gallons in Well	30.30
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	276.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	165
Water Column in Well	185.78	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/17/2020	EB Time	
Sample Time	09:02	MS/MSD Sample ID	
Sample ID	MW-87-275-0620	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	06/17/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:45	500	2000	29.42	7.62	8226	225.0	11.6	11	90.47	4.17	4.95
08:49	500	4000	29.51	7.62	8277	219.6	11.3	8	90.50	4.18	4.95
08:53	500	6000	29.54	7.62	8285	215.6	11.2	8	90.50	4.18	4.95
08:57	500	8000	29.56	7.62	8287	213.6	10.9	8	90.50	4.18	4.95
09:01	500	10000	29.57	7.62	8289	210.0	11.0	8	90.50	4.18	4.95

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-87-109

Date	06/15/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	90.18
Water Quality Meter	YSI	Gallons in Well	3.21
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	109.89
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	104
Water Column in Well	19.71	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/15/2020	EB Time	
Sample Time	13:04	MS/MSD Sample ID	
Sample ID	MW-87-109-0620	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter	26	Post Sampling Turbidity	
Turbidity		Purge Date	06/15/2020

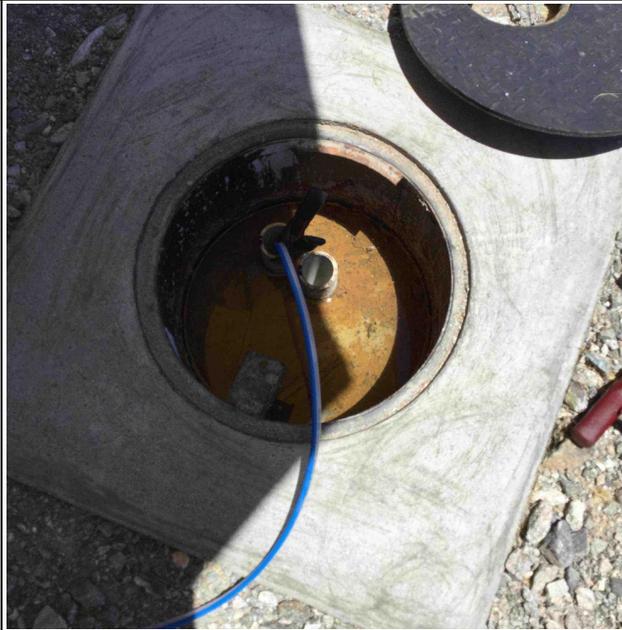
Field Parameters

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)
12:47	500	2000	30.2	7.41	2876	195	2.99	45	90.25	1.48	1.86
12:51	500	4000	30.2	7.42	2863	193	2.91	28	90.25	1.47	1.85
12:55	500	6000	30.1	7.43	2812	192	3.08	26	90.25	1.44	1.82
12:59	500	8000	30.1	7.46	2742	194	3.23	26	90.25	1.35	1.70
13:03	500	10000	30.1	7.48	2677	196	3.39	26	90.25	1.32	1.67

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-87-139

Date	06/15/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	90.12
Water Quality Meter	YSI	Gallons in Well	8.06
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	139.55
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	129
Water Column in Well	49.43	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/15/2020	EB Time	
Sample Time	12:09	MS/MSD Sample ID	
Sample ID	MW-87-139-0620	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	06/15/2020

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)
11:52	500	2000	34.8	7.08	7442	174	2.46	6	90.20	4.04	4.83
11:56	500	4000	34.8	7.10	7447	174	2.20	5	90.20	4.04	4.83
12:00	500	6000	34.5	7.13	7444	173	1.86	5	90.20	4.04	4.82
12:04	500	8000	34.3	7.18	7391	171	1.62	5	90.20	4.02	4.80
12:08	500	10000	34.5	7.21	7384	172	1.83	5	90.20	4.01	4.79

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-76-218

Date	06/16/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	25.51
Water Quality Meter	YSI	Gallons in Well	31.66
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	219.60
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	213
Water Column in Well	194.09	Total Volume to Remove	
Sample Date	06/16/2020	EB Sample ID	
Sample Time	12:16	EB Time	
Sample ID	MW-76-218-Q220	MS/MSD Sample ID	
Duplicate Sample ID	MW-901-0620	MS/MSD Sample Time	
Dup Sample Time	12:26	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	8	Purge Date	06/16/2020

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)
11:59	500	2000	28.6	8.01	21860	-89.6	0.36	49	25.65	13.59	14.56
12:03	500	4000	29.1	7.95	22046	-95.6	0.24	19	25.65	13.61	14.60
12:07	500	6000	29.1	7.93	22103	-98.0	0.21	9	25.65	13.62	14.61
12:11	500	8000	29.2	7.92	22130	-99.1	0.19	8	25.65	13.62	14.61
12:15	500	10000	29.2	7.92	22136	-99.6	0.18	8	25.65	13.62	14.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-76-181

Date	06/16/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	25.87
Water Quality Meter	YSI	Gallons in Well	25.51
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	182.26
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	176
Water Column in Well	156.39	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/16/2020	EB Time	
Sample Time	13:06	MS/MSD Sample ID	
Sample ID	MW-76-181-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	06/16/2020

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)
12:49	500	2000	28.9	7.56	20063	-23.9	0.40	39	25.96	12.02	13.21
12:53	500	4000	29.1	7.50	20125	-39.6	0.31	11	25.96	12.05	13.23
12:57	500	6000	29.1	7.48	20233	-42.6	0.28	6	25.96	12.06	13.27
13:01	500	8000	29.2	7.48	20301	-45.0	0.25	5	25.96	12.09	13.29
13:05	500	10000	29.2	7.47	20312	-45.6	0.23	5	25.96	12.10	13.29

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-76-156

Date	06/16/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	25.55
Water Quality Meter	YSI	Gallons in Well	21.24
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	155.76
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	151
Water Column in Well	130.21	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/16/2020	EB Time	
Sample Time	13:51	MS/MSD Sample ID	
Sample ID	MW-76-156-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	06/16/2020

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)
13:34	500	2000	28.6	7.66	16436	13.9	0.26	26	25.67	9.84	10.95
13:38	500	4000	29.0	7.61	16646	-11.0	0.22	11	25.67	9.89	11.01
13:42	500	6000	29.1	7.60	16701	-16.9	0.19	7	25.67	9.90	11.02
13:46	500	8000	29.1	7.60	16711	-18.1	0.18	6	25.67	9.90	11.02
13:50	500	10000	29.1	7.60	16716	-19.0	0.18	6	25.67	9.90	11.02

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-76-039

Date	06/16/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	24.93
Water Quality Meter	YSI	Gallons in Well	2.19
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	38.33
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	33
Water Column in Well	13.4	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/16/2020	EB Time	
Sample Time	14:26	MS/MSD Sample ID	
Sample ID	MW-76-039-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	06/16/2020

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	28.9	7.60	3386	-10.6	0.50	139	25.01	1.68	2.09
14:13	500	4000	29.1	7.59	3325	-19.6	0.45	23	25.01	1.67	2.08
14:17	500	6000	29.1	7.59	3321	-22.9	0.43	10	25.01	1.67	2.08
14:21	500	8000	29.2	7.58	3319	-24.6	0.41	9	25.01	1.67	2.08
14:25	500	10000	29.2	7.58	3318	-25.6	0.41	9	25.01	1.67	2.08

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-75-337

Date	06/15/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	19.21
Water Quality Meter	YSI	Gallons in Well	52.08
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	338.50
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	328
Water Column in Well	319.29	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/15/2020	EB Time	
Sample Time	12:56	MS/MSD Sample ID	
Sample ID	MW-75-337-0620	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	12	Post Sampling Turbidity	
		Purge Date	06/15/2020

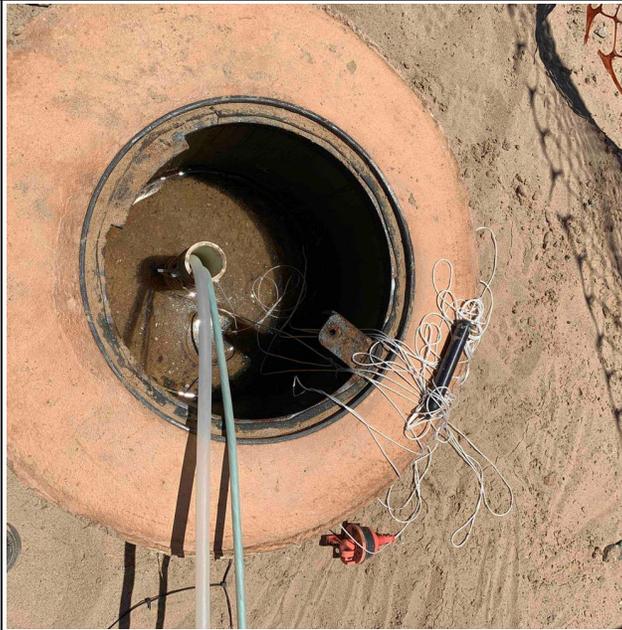
Field Parameters

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)
12:39	500	2000	34.92	7.68	24234	-234.3	2.80	12	19.50	12.0	13.27
12:43	500	4000	35.39	7.75	24869	-199.0	2.4	12	19.53	12.26	13.51
12:47	500	6000	34.67	7.78	24640	-189.7	2.6	12	19.53	12.31	13.54
12:51	500	8000	33.45	7.79	24091	-183.90	2.9	12	19.56	12.29	13.50
12:55	500	10000	33.07	7.79	23824	-179.6	3.0	12	19.56	12.28	13.48

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-75-267

Date	06/16/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	16.93
Water Quality Meter	YSI	Gallons in Well	41.19
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	269.44
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	257
Water Column in Well	252.51	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/16/2020	EB Time	
Sample Time	09:31	MS/MSD Sample ID	
Sample ID	MW-75-267-Q220	MS/MSD Sample Time	
Duplicate Sample ID	MW-900-0620	Double Filter Turbidity	
Dup Sample Time	09:41	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	06/16/2020
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)
09:14	500	2000	28.1	7.60	22863	-95.6	0.30	61	17.02	14.01	15.10
09:18	500	4000	28.5	7.58	23069	-113.6	0.23	16	17.02	14.03	15.12
09:22	500	6000	28.6	7.58	23119	-123.6	0.21	9	17.02	14.04	15.13
09:26	500	8000	28.8	7.56	23201	-126.9	0.19	8	17.02	14.04	15.13
09:30	500	10000	28.8	7.56	23219	-128.0	0.18	8	17.02	14.04	15.13

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-202

Date	06/16/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	17.18
Water Quality Meter	YSI	Gallons in Well	30.52
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	204.29
Casing Material	PVC	Odor	None
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	192
Water Column in Well	187.11	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/16/2020	EB Time	
Sample Time	10:22	MS/MSD Sample ID	
Sample ID	MW-75-202-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	7	Post Sampling Turbidity	
Turbidity		Purge Date	06/16/2020

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)
10:05	500	2000	28.6	7.61	17846	-16.9	0.23	33	17.29	10.75	11.76
10:09	500	4000	28.9	7.59	17963	-26.0	0.19	12	17.29	10.76	11.77
10:13	500	6000	29.0	7.58	18203	-33.6	0.16	8	17.29	10.79	11.79
10:17	500	8000	29.1	7.58	18230	-35.1	0.14	7	17.29	10.79	11.79
10:21	500	10000	29.1	7.58	18246	-36.6	0.14	7	17.29	10.79	11.79

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-93-050

Date	06/18/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	30.05
Water Quality Meter	YSI	Gallons in Well	3.52
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	51.65
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	40
Water Column in Well	21.60	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/18/2020	EB Time	
Sample Time	13:26	MS/MSD Sample ID	
Sample ID	MW-93-050-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	12	Post Sampling Turbidity	
		Purge Date	06/18/2020

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)
13:09	500	2000	28.62	7.58	2720	108.5	8.8	59	30.12	1.30	1.65
13:13	500	4000	28.57	7.58	2715	134.0	7.6	15	30.12	1.30	1.65
13:17	500	6000	28.60	7.59	2718	140.0	7.4	14	20.12	1.30	1.65
13:21	500	8000	28.64	7.59	2718	142.3	7.6	13	30.12	1.30	1.65
13:25	500	10000	28.60	7.60	2715	143.1	7.3	12	30.12	1.30	1.65

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?		X		
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-93-213

Date	06/18/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	29.89
Water Quality Meter	YSI	Gallons in Well	30.12
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	214.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	203
Water Column in Well	184.69	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/18/2020	EB Time	
Sample Time	12:40	MS/MSD Sample ID	
Sample ID	MW-93-213-Q220	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	18	Post Sampling Turbidity	
		Purge Date	06/18/2020

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)
12:11	500	2000	28.35	7.72	9700	115.2	5.3	506	29.92	4.98	5.80
12:15	500	4000	28.13	7.67	9139	-43.0	3.3	223	29.96	4.79	5.61
12:19	500	6000	28.09	7.66	9183	-81.7	2.9	156	29.96	4.81	5.64
12:23	500	8000	28.07	7.66	9233	-92.8	2.6	65	29.96	4.84	5.67
12:27	500	10000	28.04	7.68	9350	-104.3	2.4	22	29.96	4.88	5.72
12:31	500	12000	28.07	7.70	9350	-110.1	2.2	20	29.96	4.90	5.74
12:35	500	14000	28.07	7.71	9358	-113.6	2.0	19	29.96	4.91	5.74
12:39	500	16000	28.05	7.72	9361	-114.5	2.2	18	29.96	4.91	5.78

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-95-113

Date	06/18/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	96.98
Water Quality Meter	YSI	Gallons in Well	3.39
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	117.74
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	107
Water Column in Well	20.76	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/18/2020	EB Time	
Sample Time	10:33	MS/MSD Sample ID	
Sample ID	MW-95-113-Q220	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter	24	Post Sampling Turbidity	
Turbidity		Purge Date	06/18/2020

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)
10:12	500	2000	29.75	7.58	1183	121.5	20.5	840	97.01	0.53	0.69
10:16	500	4000	30.61	7.50	1143	87.2	21.5	174	97.04	0.50	0.66
10:20	500	6000	32.12	7.48	1198	115.3	20.5	30	97.04	0.52	0.69
10:24	500	8000	32.59	7.49	1169	120.3	20.4	28	97.04	0.50	0.66
10:28	500	10000	32.43	7.49	1161	124.5	20.7	26	97.04	0.49	0.66
10:32	500	12000	32.22	7.49	1155	128.1	21.0	24	97.04	0.49	23.5

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-95-157

Date	06/25/2020	Sampler	riggie
Weather Conditions	Sunny	Color	grey
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	96.75
Water Quality Meter	YSI	Gallons in Well	10.56
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	161.49
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	151
Water Column in Well	64.74	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/25/2020	EB Time	
Sample Time	09:00	MS/MSD Sample ID	
Sample ID	MW-95-157-Q220	MS/MSD Sample Time	
Single Filter Turbidity	11	Double Filter Turbidity	3
Without Filter Turbidity	37	Post Sampling Turbidity	
		Purge Date	06/25/2020

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)
08:39	500	2000	30.3	7.53	5254	221	0.87	51	96.88	2.80	3.41
08:43	500	4000	30.5	7.47	5332	216	0.84	44	96.88	2.85	3.46
08:47	500	6000	30.9	7.43	5302	212	0.79	46	96.88	2.83	3.44
08:51	500	8000	31.2	7.41	5264	207	0.81	42	96.88	2.79	3.41
08:55	500	10000	31.4	7.40	5207	205	0.73	39	96.88	2.77	3.38
08:59	500	12000	31.5	7.40	5203	204	0.67	37	96.88	2.77	3.38

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-14

Date	06/24/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	114..53
Water Quality Meter	YSI	Gallons in Well	11.16
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	131.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	121
Water Column in Well	17.11	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/24/2020	EB Time	
Sample Time	11:28	MS/MSD Sample ID	
Sample ID	MW-14-Q220	MS/MSD Sample Time	
Duplicate Sample ID	mw-905-q220	Double Filter Turbidity	
Dup Sample Time	11:38	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	06/24/2020
Without Filter Turbidity	9		

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)
11:11	500	2000	31.3	7.65	3731	239	0.77	24	111.55	1.91	2.37
11:15	500	4000	31.9	7.57	3608	240	0.67	18	111.55	1.87	2.34
11:19	500	6000	32.3	7.55	3568	240	0.62	9	111.55	1.85	2.31
11:23	500	8000		32.4	3517	239	0.57	9	111.55	1.82	2.23
11:27	500	10000	32.4	7.55	3503	238	0.54	9	111.55	1.82	2.23

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-22

Date	06/16/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	brown
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	2.49
Water Quality Meter	YSI	Gallons in Well	1.18
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	9.72
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	8
Water Column in Well	7.23	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/16/2020	EB Time	
Sample Time	09:54	MS/MSD Sample ID	
Sample ID	MW-22-Q220	MS/MSD Sample Time	
Single Filter Turbidity	15	Double Filter Turbidity	5
Without Filter Turbidity	40	Post Sampling Turbidity	
		Purge Date	06/16/2020

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)
09:37	500	2000	27.9	6.80	11275	-102	0.39	42	2.55	6.38	7.32
09:41	500	4000	27.3	6.83	11068	-104	0.32	41	2.55	6.27	7.20
09:45	500	6000	27.2	6.83	11308	-107	0.30	39	2.55	6.37	7.31
09:49	500	8000	26.8	6.83	11405	-110	0.25	38	2.55	6.41	7.37
09:53	500	10000	26.8	6.83	11580	-110	0.28	40	2.55	6.64	7.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-23-060

Date	06/18/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	48.20
Water Quality Meter	YSI	Gallons in Well	2.14
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	61.31
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	50
Water Column in Well	13.11	Total Volume to Remove	
Sample Date	06/18/2020	EB Sample ID	EB-708-Q620
Sample Time	15:36	EB Time	15:55
Sample ID	MW-23-060-Q220	MS/MSD Sample ID	
Single Filter Turbidity	3	MS/MSD Sample Time	
Without Filter	40	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	06/18/2020

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)
15:19	200	800	32.27	9.0	13526	55.2	60.0	141	48.30	6.70	7.71
15:23	200	1600	31.31	9.02	13318	72.4	38.3	45	48.43	6.72	7.71
15:27	200	2400	31.90	9.01	13369	82.1	38.1	43	48.50	6.68	7.68
15:31	200	3200	31.90	9.02	13387	82.5	37.9	42	48.50	6.68	7.68
15:35	200	4000	31.90	9.01	13370	83.1	37.6	40	48.50	6.68	7.68

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-23-080

Date	06/18/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	MI	Depth to Water (ft bmp)	48.43
Water Quality Meter	YSI	Gallons in Well	5.35
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	81.23
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	70
Water Column in Well	32.8	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/18/2020	EB Time	
Sample Time	14:27	MS/MSD Sample ID	
Sample ID	MW-23-080-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	12	Post Sampling Turbidity	
		Purge Date	06/18/2020

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)
14:10	200	800	30.74	9.56	13552	56.7	11.0	13	48.60	6.93	7.94
14:14	300	1600	30.84	9.72	13573	56.8	4.1	12	48.72	6.95	7.96
14:18	200		30.74	9.65	13550	57.0	3.8	12	48.80	6.93	7.94
14:22	200	3200	30.97	9.64	13629	49.7	3.6	12	48.80	6.93	7.94
14:26	200	4000	31.13	9.65	13670	44.0	3.5	12	48.80	6.93	7.94

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-25

Date	06/24/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	87.16
Water Quality Meter	YSI	Gallons in Well	11.90
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	105.40
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	94.5
Water Column in Well	18.24	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/24/2020	EB Time	
Sample Time	09:48	MS/MSD Sample ID	
Sample ID	MW-25-Q220	MS/MSD Sample Time	
Duplicate Sample ID	mw-906-q220	Double Filter Turbidity	
Dup Sample Time	09:58	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	06/24/2020
Without Filter Turbidity	5		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:31	500	2000	32.2	7.52	2143	217	1.03	7	87.20	1.08	1.39
09:35	500	4000	33.0	7.40	2143	222	0.65	6	87.20	1.08	1.39
09:39	500	6000	33.3	7.37	2142	225	0.51	5	87.20	1.08	1.39
09:43	500	8000	33.3	7.37	2139	226	0.41	5	87.20	1.08	1.39
09:47	500	10000	33.4	7.37	2142	227	0.41	5	87.20	1.08	1.39

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-27-085

Date	06/18/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	5.11
Water Quality Meter	YSI	Gallons in Well	13.02
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	84.95
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	82.5
Water Column in Well	79.84	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Mw-27-085-eb-q220
Sample Date	06/18/2020	EB Time	09:22
Sample Time	09:48	MS/MSD Sample ID	
Sample ID	MW-27-085-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	1	Post Sampling Turbidity	
		Purge Date	06/18/2020

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)
09:31	500	2000	20.6	7.42	10884	-18	0.56	2	5.19	6.20	7.09
09:35	500	4000	20.4	7.33	10948	-21	0.26	1	5.19	6.23	7.11
09:39	500	6000	20.5	7.33	10953	-23	0.26	1	5.19	6.23	7.11
09:43	500	8000	20.4	7.32	10956	-24	0.22	1	5.19	6.23	7.12
09:47	500	10000	20.5	7.32	10950	-25	0.21	1	5.19	6.23	7.11

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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
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Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-28-025

Date	06/23/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	10.39
Water Quality Meter	YSI	Gallons in Well	2.26
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	24.25
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	18
Water Column in Well	13.86	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	mw-28-025-eb-q220
Sample Date	06/23/2020	EB Time	12:15
Sample Time	12:41	MS/MSD Sample ID	
Sample ID	MW-28-025-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	06/23/2020

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)
12:24	500	2000	22.9	7.59	1054	6	0.39	8	10.45	0.52	0.68
12:28	500	4000	23.0	7.55	1052	16	0.32	6	10.45	0.52	0.68
12:32	500	6000	23.0	7.54	1052	23	0.29	6	10.45	0.52	0.68
12:36	500	8000	23.0	7.54	1051	29	0.26	6	10.45	0.52	0.68
12:40	500	10000	22.8	7.54	1051	33	0.26	6	10.45	0.52	0.68

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-28-090

Date	06/23/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	11.42
Water Quality Meter	YSI	Gallons in Well	12.83
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	90.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	80
Water Column in Well	78.69	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	mw-28-090-eb-q220
Sample Date	06/23/2020	EB Time	11:41
Sample Time	12:07	MS/MSD Sample ID	
Sample ID	MW-28-090-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	06/23/2020

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)
11:50	500	2000	22.9	7.07	20637	-33	0.64	10	11.49	1.13	1.54
11:54	500	4000	23.0	7.10	20655	-31	0.45	6	11.49	1.13	1.54
11:58	500	6000	23.0	7.11	20533	-27	0.38	6	11.49	1.15	1.57
12:02	500	8000	23.1	7.11	20498	-26	0.32	6	11.49	1.15	1.57
12:06	500	10000	23.2	7.12	20499	-24	0.30	6	11.49	1.15	1.57

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-29

Date	06/23/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	28.74
Water Quality Meter	YSI	Gallons in Well	1.84
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	40.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	34.5
Water Column in Well	11.26	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	mw-29-eb-q220
Sample Date	06/23/2020	EB Time	13:06
Sample Time	13:32	MS/MSD Sample ID	
Sample ID	MW-29-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	06/23/2020

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)
13:15	500	2000	26.1	7.20	2852	-100	1.28	5	28.80	3.07	3.67
13:19	500	4000	26.0	7.27	2835	-98	1.05	5	28.80	1.92	2.35
13:23	500	6000	25.9	7.31	2823	-101	0.91	5	28.80	1.55	1.93
13:27	500	8000	25.9	7.31	2871	-103	0.85	5	28.80	1.48	1.85
13:31	500	10000	25.7	7.31	2784	-105	0.74	5	28.80	1.41	1.78

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-31-060

Date	06/24/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	39.33
Water Quality Meter	YSI	Gallons in Well	14.13
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	60.99
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	51.5
Water Column in Well	21.66	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-713-q220
Sample Date	06/24/2020	EB Time	15:40
Sample Time	15:29	MS/MSD Sample ID	
Sample ID	MW-31-060-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	06/24/2020

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)
15:12	500	2000	31.2	7.53	3469	198	3.17	4	39.40	1.89	2.25
15:16	500	4000	31.0	7.53	3510	199	3.30	3	39.40	1.83	2.28
15:20	500	6000	31.0	7.52	3579	199	3.15	3	39.40	1.86	2.33
15:24	500	8000	31.2	7.51	3615	199	3.00	3	39.40	1.88	2.35
15:28	500	10000	31.2	7.51	3630	199	3.00	3	39.40	1.89	2.35

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-32-035

Date	06/18/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	5.99
Water Quality Meter	YSI	Gallons in Well	19.43
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	35.77
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	31
Water Column in Well	29.78	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	mw-32-035-eb-q220
Sample Date	06/18/2020	EB Time	13:31
Sample Time	13:57	MS/MSD Sample ID	
Sample ID	MW-32-035-Q220	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter Turbidity	25	Post Sampling Turbidity	
		Purge Date	06/18/2020

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)
13:40	500	2000	25.8	7.26	7002	-146	0.26	26	6.07	3.83	4.55
13:44	500	4000	26.1	7.29	6981	-157	0.17	25	6.07	3.82	4.53
13:48	500	6000	25.9	7.30	6975	-165	0.12	26	6.07	3.82	4.53
13:52	500	8000	26.0	7.27	7141	-173	0.10	27	6.07	4.12	4.86
13:56	500	10000	26.1	7.26	7207	-176	0.09	25	6.07	4.27	5.03

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-33-040

Date	06/17/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	31.36
Water Quality Meter	YSI	Gallons in Well	1.44
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	40.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	34
Water Column in Well	8.84	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Mw-33-040-eb-q220
Sample Date	06/17/2020	EB Time	14:35
Sample Time	15:01	MS/MSD Sample ID	
Sample ID	MW-33-040-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	06/17/2020

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)
14:44	500	2000	28.2	8.00	8561	115	0.28	8	31.40	4.74	5.56
14:48	500	4000	28.3	8.02	8598	97	0.16	5	31.40	4.76	5.58
14:52	500	6000	28.3	8.02	8592	96	0.16	5	31.40	4.76	5.58
14:56	500	8000	28.3	8.02	8589	94	0.15	5	31.40	4.76	5.58
15:00	500	10000	28.3	8.02	8592	93	0.13	5	31.40	4.76	5.58

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-33-090

Date	06/17/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	31.49
Water Quality Meter	YSI	Gallons in Well	38.68
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	90.77
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	79
Water Column in Well	59.28	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-705-q220
Sample Date	06/17/2020	EB Time	15:10
Sample Time	14:19	MS/MSD Sample ID	
Sample ID	MW-33-090-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	06/17/2020

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)
14:02	500	2000	27.3	7.22	9464	144	1.01	38	31.56	5.29	6.15
14:06	500	4000	27.5	7.17	9544	122	0.33	18	31.56	5.31	6.20
14:10	500	6000	27.6	7.16	9333	86	0.19	9	31.56	5.23	6.09
14:14	500	8000	27.6	7.17	9496	87	0.15	9	31.56	5.31	6.17
14:18	500	10000	27.5	7.17	9503	85	0.15	9	31.56	5.31	6.17

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-33-150

Date	06/17/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	32.40
Water Quality Meter	YSI	Gallons in Well	19.56
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	152.33
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	142
Water Column in Well	119.93	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/17/2020	EB Time	
Sample Time	12:38	MS/MSD Sample ID	
Sample ID	MW-33-150-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	06/17/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:21	500	2000	32.1	7.51	14714	95	0.98	19	32.50	8.46	9.56
12:25	500	4000	31.1	7.49	14679	86	1.01	8	32.50	8.45	9.54
12:29	500	6000	31.5	7.50	14698	88	0.99	8	32.50	8.46	9.54
12:33	500	8000	30.5	7.40	14805	89	0.85	8	32.50	8.53	9.62
12:37	500	10000	30.4	7.39	14790	87	0.80	8	32.50	8.53	9.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			
Well Casing Intact?		X		
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-33-210

Date	06/17/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	33.01
Water Quality Meter	YSI	Gallons in Well	28.87
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	176.99	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/17/2020	EB Time	
Sample Time	13:30	MS/MSD Sample ID	
Sample ID	MW-33-210-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	06/17/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:13	500	2000	29.2	7.34	19074	151	1.14	8	33.11	11.25	12.39
13:17	500	4000	29.8	7.39	19075	121	0.40	8	33.11	11.25	12.39
13:21	500	6000	29.4	7.38	19070	110	0.29	3	33.11	11.25	12.39
13:25	500	8000	29.6	7.38	19072	99	0.25	3	33.11	11.25	12.39
13:29	500	10000	29.5	7.38	19069	89	0.23	3	33.11	11.25	12.39

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-34-080

Date	06/18/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	5.12
Water Quality Meter	YSI	Gallons in Well	48.95
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	80.15
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	78
Water Column in Well	75.03	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Mw-34-080-eb-q220
Sample Date	06/18/2020	EB Time	10:59
Sample Time	11:24	MS/MSD Sample ID	
Sample ID	MW-34-080-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	06/18/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:07	500	2000	20.6	7.39	8317	-3	1.01	3	5.22	4.64	5.40
11:11	500	4000	20.7	7.34	8402	-5	0.36	2	5.22	4.69	5.46
11:15	500	6000	20.6	7.34	8447	-7	0.24	2	5.22	4.71	5.43
11:19	500	8000	20.5	7.34	8474	-9	0.19	2	5.22	4.73	5.51
11:23	500	10000	20.6	7.34	8481	-10	0.18	2	5.22	4.73	5.51

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-34-100

Date	06/18/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	5.22
Water Quality Meter	YSI	Gallons in Well	15.44
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	99.88
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	94.5
Water Column in Well	94.66	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/18/2020	EB Time	
Sample Time	10:41	MS/MSD Sample ID	
Sample ID	MW-34-100-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	06/18/2020

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)
10:24	500	2000	20.4	7.49	8796	-40	0.81	9	5.29	4.92	5.72
10:28	500	4000	20.3	7.50	9224	-44	0.44	6	5.29	5.21	6.03
10:32	500	6000	20.4	7.58	10076	-47	0.27	6	5.29	5.71	5.55
10:36	500	8000	20.4	7.61	10214	-50	0.20	6	5.29	5.91	6.77
10:40	500	10000	20.3	7.61	10431	-52	0.19	6	5.19	5.92	6.78

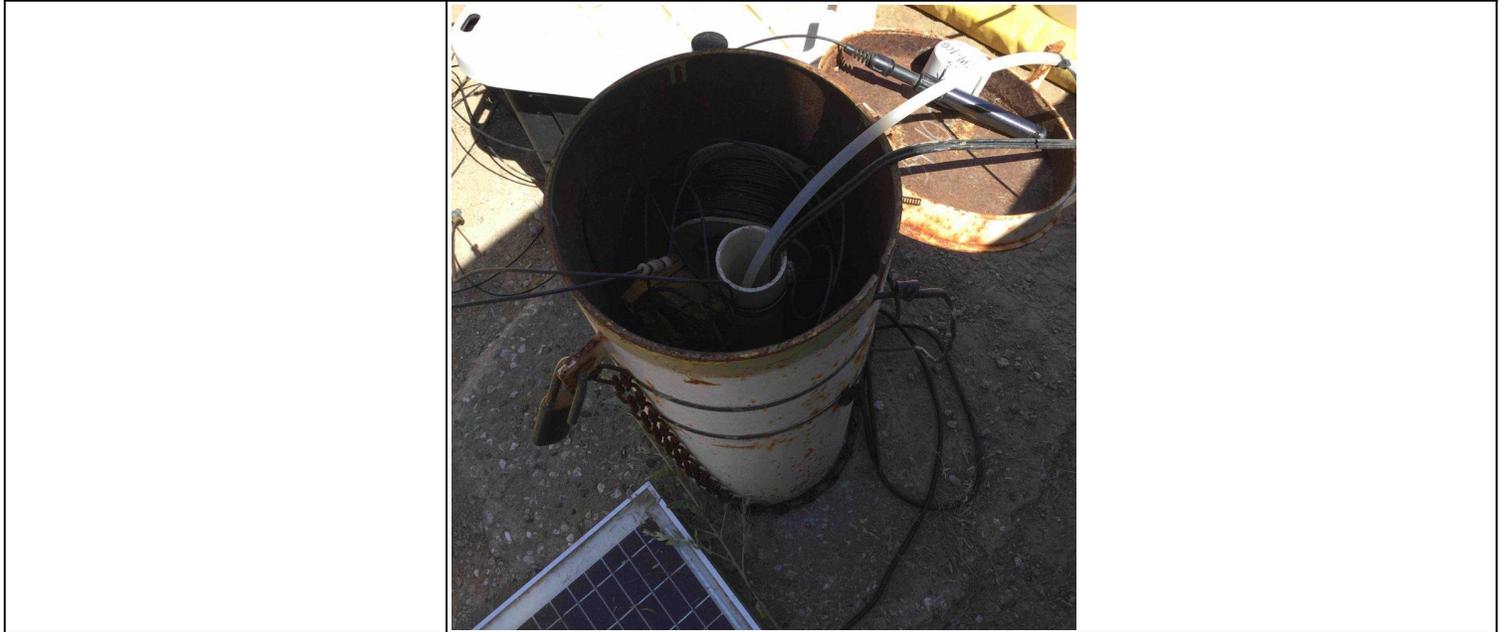
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-36-090

Date	06/16/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	14.02
Water Quality Meter	YSI	Gallons in Well	6.97
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	90.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1.5	Pump Intake Depth (ft bmp)	85
Water Column in Well	75.98	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/16/2020	EB Time	
Sample Time	14:08	MS/MSD Sample ID	
Sample ID	MW-36-090-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	06/16/2020

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)
13:51	500	2000	23.5	7.29	4999	-126	0.52	4	14.14	2.69	3.25
13:55	500	4000	23.4	7.31	5120	-110	0.36	4	14.14	2.76	3.32
13:59	500	6000	23.4	7.32	5153	-104	0.36	4	14.14	2.78	3.36
14:03	500	8000	23.2	7.32	5179	-103	0.36	4	14.14	2.78	3.35
14:07	500	10000	23.3	7.33	5151	-102	0.35	4	14.14	2.77	3.34

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-36-100

Date	06/16/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	14.13
Water Quality Meter	YSI	Gallons in Well	13.92
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	99.46
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	93
Water Column in Well	85.33	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-703-q220
Sample Date	06/16/2020	EB Time	14:50
Sample Time	14:40	MS/MSD Sample ID	
Sample ID	MW-36-100-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	06/16/2020

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)
14:23	500	2000	22.1	7.38	7286	-2	0.70	45	14.20	4.00	4.70
14:27	500	4000	21.6	7.32	6987	-81	0.34	18	14.20	3.81	4.53
14:31	500	6000	22.2	7.33	6966	-83	0.33	9	14.20	3.81	4.53
14:35	500	8000	22.3	7.32	6907	-83	0.32	9	14.20	3.81	4.53
14:39	500	10000	22.3	7.32	6889	-86	0.30	9	14.20	3.81	4.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-37D

Date	06/24/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	30.33
Water Quality Meter	YSI	Gallons in Well	27.91
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	201.44
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	190
Water Column in Well	171.11	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/24/2020	EB Time	
Sample Time	10:38	MS/MSD Sample ID	
Sample ID	MW-37D-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	06/24/2020

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)
10:21	500	2000	30.5	7.92	12924	214	1.60	8	30.40	7.37	8.40
10:25	500	4000	30.5	7.94	12938	187	1.38	6	30.40	7.37	8.41
10:29	500	6000	30.5	7.94	12938	183	1.33	6	30.40	7.37	8.39
10:33	500	8000	30.5	7.94	12897	185	1.30	6	30.40	7.36	8.39
10:37	500	10000	30.4	7.94	12918	186	1.29	6	30.40	7.37	8.39

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-39-100

Date	06/18/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	13.51
Water Quality Meter	YSI	Gallons in Well	14.18
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	100.43
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	90
Water Column in Well	86.92	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	eb-707-q220
Sample Date	06/18/2020	EB Time	15:20
Sample Time	14:46	MS/MSD Sample ID	
Sample ID	MW-39-100-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	06/18/2020

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)
14:25	500	2000	24.9	7.31	9726	86	1.33	156	13.64	5.83	6.78
14:29	500	4000	23.6	7.14	12719	84	1.49	138	13.64	7.30	8.26
14:33	500	6000	23.1	7.11	11468	77	0.70	65	13.64	6.48	7.45
14:37	500	8000	23.1	7.03	12683	75	0.34	9	13.64	7.30	8.26
14:41	500	10000	23.1	7.02	12749	71	0.28	9	13.64	7.32	8.29
14:45	500	12000	23.1	7.02	12766	71	0.26	9	13.64	7.34	8.30

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-40D

Date	06/17/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	110.17
Water Quality Meter	YSI	Gallons in Well	24.46
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	260.11
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	250
Water Column in Well	149.94	Total Volume to Remove	0.00
		EB Sample ID	
		EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	06/17/2020

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)

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	

Photos and Drawings

Site: PGE Topock
Topock, CA



**Site: PGE Topock
Topock, CA**

MW-40S

Date	06/17/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Extraction Port	Casing Volume to Remove	0
Purge Volume Units	Na	Depth to Water (ft bmp)	110.27
Water Quality Meter	YSI	Gallons in Well	4.03
Sampling Type	Hydrasleeve	Measured Well Depth (ft bmp)	135.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	125
Water Column in Well	24.73	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/17/2020	EB Time	
Sample Time	10:10	MS/MSD Sample ID	
Sample ID	MW-40S-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	06/17/2020

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)
10:09	0	0	30.2	7.20	2718	-28	6.18	9	110.27	5.15	6.23

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

Site: PGE Topock
Topock, CA

MW-41D

Date	06/24/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	23.72
Water Quality Meter	YSI	Gallons in Well	43.83
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	292.44
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	281
Water Column in Well	268.72	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/24/2020	EB Time	
Sample Time	12:31	MS/MSD Sample ID	
Sample ID	MW-41D-Q220	MS/MSD Sample Time	
Duplicate Sample ID	mw-911-q220	Double Filter Turbidity	
Dup Sample Time	12:41	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	06/24/2020
Without Filter Turbidity	4		

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)
12:14	500	2000	30.6	7.81	18731	-26	0.14	4	23.40	11.01	12.17
12:18	500	4000	30.7	7.83	18711	-46	0.12	4	23.40	11.05	12.18
12:22	500	6000	30.7	7.85	18742	-71	0.09	4	23.40	11.02	12.17
12:26	500	8000	30.8	7.86	18726	-78	0.08	4	23.40	11.01	12.16
12:30	500	10000	30.8	7.87	18710	-80	0.08	4	23.40	11.00	12.16

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-42-055

Date	06/18/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	8.23
Water Quality Meter	YSI	Gallons in Well	7.68
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	55.34
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	47.5
Water Column in Well	47.11	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	mw-42-055-eb-q220
Sample Date	06/18/2020	EB Time	12:41
Sample Time	13:07	MS/MSD Sample ID	
Sample ID	MW-42-055-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	06/18/2020

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)
12:50	500	2000	23.9	7.98	988	-77	0.95	3	8.34	0.49	0.64
12:54	500	4000	23.1	7.86	1021	-75	0.40	2	8.34	0.50	0.66
12:58	500	6000	22.9	7.85	1021	-75	0.33	2	8.34	0.50	0.66
13:02	500	8000	22.7	7.84	1019	-73	0.24	2	8.34	0.50	0.66
13:06	500	10000	22.8	7.84	1019	-72	0.23	2	8.34	0.50	0.66

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-42-065

Date	06/18/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	7.65
Water Quality Meter	YSI	Gallons in Well	9.50
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	65.87
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	61
Water Column in Well	58.22	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	mw-42-065-eb-q220
Sample Date	06/18/2020	EB Time	12:04
Sample Time	12:30	MS/MSD Sample ID	
Sample ID	MW-42-065-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	06/18/2020

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)
12:14	500	2000	22.8	7.59	2061	31	0.54	3	7.74	1.06	1.35
12:17	500	4000	22.7	7.55	2312	29	0.30	3	7.74	1.19	1.50
12:21	500	6000	22.8	7.54	2404	23	0.23	2	7.74	1.23	1.56
12:25	500	8000	22.6	7.54	2471	22	0.20	2	7.74	1.28	1.61
12:29	500	10000	22.7	7.54	2487	20	0.20	2	7.74	1.28	1.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-44-070

Date	06/23/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	15.69
Water Quality Meter	YSI	Gallons in Well	8.88
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	70.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	66
Water Column in Well	54.42	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	mw-44-070-eb-q220
Sample Date	06/23/2020	EB Time	10:51
Sample Time	11:17	MS/MSD Sample ID	
Sample ID	MW-44-070-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	06/23/2020

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)
11:00	500	2000	23.0	7.58	1887	33	0.58	7	15.74	1.08	1.39
11:04	500	4000	23.1	7.57	1833	32	0.55	7	15.74	1.10	1.40
11:08	500	6000	23.1	7.56	1800	30	0.50	7	15.74	1.10	1.40
11:12	500	8000	23.1	7.55	1798	28	0.48	7	15.73	1.10	1.40
11:16	500	10000	23.1	7.54	1788	27	0.44	7	15.73	1.10	1.40

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-44-115

Date	06/23/2020	Sampler	John
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	16.71
Water Quality Meter	YSI	Gallons in Well	16.13
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	115.6
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	110
Water Column in Well	98.89	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-711-Q220
Sample Date	06/23/2020	EB Time	13:50
Sample Time	10:41	MS/MSD Sample ID	
Sample ID	MW-44-115-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	10	Post Sampling Turbidity	
		Purge Date	06/23/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:24	500	2000	24.6	7.45	10134	16.5	1.56	12	16.75	6.24	7.12
10:28	500	4000	24.4	7.47	10232	14.3	1.30	10	16.78	6.20	7.09
10:32	500	6000	24.7	7.48	10450	13.7	1.05	10	16.78	6.20	7.09
10:36	500	8000	24.8	7.48	10805	13.1	0.75	10	16.78	6.20	7.09
10:40	500	10000	24.6	7.48	10923	12.9	0.51	10	16.78	6.20	7.09

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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		
Photo Taken?		X		

Site: PGE Topock
Topock, CA

Site: PGE Topock
Topock, CA

MW-44-125

Date	06/23/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	16.28
Water Quality Meter	YSI	Gallons in Well	17.88
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	125.88
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	120.5
Water Column in Well	109.60	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	mw-44-125-eb-q220
Sample Date	06/23/2020	EB Time	10:14
Sample Time	10:40	MS/MSD Sample ID	
Sample ID	MW-44-125-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	06/23/2020

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)
10:23	500	2000	22.8	7.57	2100	-40	0.53	4	16.33	1.07	1.35
10:27	500	4000	23.	7.52	2102	-44	0.48	4	16.33	1.07	1.36
10:31	500	6000	23.0	7.58	2108	-44	0.48	4	16.33	1.07	1.35
10:35	500	8000	23.1	7.58	2101	-46	0.40	4	16.33	1.07	1.36
10:39	500	10000	23.2	7.59	2098	-47	0.39	4	16.33	1.07	1.35

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-46-175

Date	06/23/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	26.90
Water Quality Meter	YSI	Gallons in Well	24.16
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	175.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	170
Water Column in Well	148.10	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/23/2020	EB Time	
Sample Time	09:31	MS/MSD Sample ID	
Sample ID	MW-46-175-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	06/23/2020

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)
09:14	500	2000	22.5	8.50	17970	73	0.84	2	26.95	10.64	11.68
09:18	500	4000	22.4	8.54	17984	70	0.39	2	26.95	10.61	11.68
09:22	500	6000	22.7	8.54	17981	68	0.26	2	26.95	10.64	11.69
09:26	500	8000	22.6	8.55	17986	66	0.24	2	26.95	10.64	11.68
09:30	500	10000	22.5	8.55	17984	65	0.23	2	26.95	10.61	11.68

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-46-205

Date	06/23/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	27.20
Water Quality Meter	YSI	Gallons in Well	29.00
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	205.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	201
Water Column in Well	177.80	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/23/2020	EB Time	
Sample Time	08:50	MS/MSD Sample ID	
Sample ID	MW-46-205-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	06/23/2020

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)
08:33	500	2000	23.8	8.53	20740	119	0.49	3	27.25	12.41	13.46
08:37	500	4000	23.8	8.54	20740	121	0.40	3	27.25	12.41	13.48
08:41	500	6000	23.7	8.55	20746	123	0.31	3	27.25	12.41	13.48
08:45	500	8000	23.8	8.55	20740	125	0.30	3	27.25	12.41	13.46
08:49	500	10000	23.7	8.56	20742	124	0.29	3	27.25	12.41	13.48

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

MW-47-055

Date	06/25/2020	Sampler	JB
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	27.60
Water Quality Meter	YSI	Gallons in Well	4.76
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	56.79
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	50
Water Column in Well	29.19	Total Volume to Remove	
Did Well Dewater?	Yes	EB Sample ID	
Sample Date	06/25/2020	EB Time	
Sample Time	09:25	MS/MSD Sample ID	
Sample ID	MW-47-055-Q220	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	0
Without Filter Turbidity	18	Post Sampling Turbidity	
		Purge Date	06/25/2020

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)
09:08	500	2000	29.2	7.52	3528	135.0	1.88	50	27.63	1.69	2.11
09:12	500	4000	29.4	7.49	3563	130.4	1.80	20	27.63	1.70	2.13
09:16	500	6000	29.2	7.48	3586	130.7	1.82	19	27.63	1.69	2.11
09:20	500	8000	29.2	7.48	3591	129.7	1.81	18	27.60	1.70	2.13
09:28	500	10000	29.3	7.47	3596	128.7	1.81	17	27.63	1.69	2.11

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded Water?		X		
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	X			
Traffic Poles 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	

Photos and Drawings

Site: PGE Topock
Topock, CA



**Site: PGE Topock
Topock, CA**

MW-47-115

Date	06/25/2020	Sampler	In
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	27.97
Water Quality Meter	YSI	Gallons in Well	1327.19
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	115.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	110
Water Column in Well	8137.03	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/25/2020	EB Time	
Sample Time	08:53	MS/MSD Sample ID	
Sample ID	MW-47-115-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	0
Without Filter Turbidity	16	Post Sampling Turbidity	
		Purge Date	06/25/2020

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)
08:36	500	2000	29.18	7.60	9603	173.3	0.32	25	28.01	4.94	5.78
08:40	500	4000	29.5	7.58	9628	166.8	0.25	22	28.01	4.94	5.78
08:44	500	6000	29.2	7.59	9638	161.4	0.23	16	28.01	4.94	5.78
08:48	500	8000	29.3	7.57	9644	165.1	0.24	16	28.01	4.94	5.78
08:52	500	10000	29.3	7.58	9661	160.2	0.22	16	28.01	4.94	5.78

Well Integrity Checklist

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

Photos and Drawings

Site: PGE Topock
Topock, CA



Site: PGE Topock
Topock, CA

MW-50-095

Date	06/24/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	40.54
Water Quality Meter	YSI	Gallons in Well	8.98
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	95.60
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	90
Water Column in Well	55.06	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/24/2020	EB Time	
Sample Time	14:51	MS/MSD Sample ID	
Sample ID	MW-50-095-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	06/24/2020

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)
14:34	500	2000	29.8	7.68	4242	185	1.40	32	40.59	2.04	2.53
14:38	500	4000	29.9	7.67	4265	184	1.37	13	40.60	2.09	2.61
14:42	500	6000	29.9	7.63	4300	183	1.35	8	40.60	2.11	2.61
14:46	500	8000	29.9	7.62	4350	182	1.34	8	40.60	2.11	2.61
14:50	500	10000	29.9	7.61	4376	181	1.23	8	40.60	2.11	2.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-50-200

Date	06/24/2020	Sampler	jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	41.46
Water Quality Meter	YSI	Gallons in Well	26.54
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	204.19
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	194
Water Column in Well	162.73	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/24/2020	EB Time	
Sample Time	14:10	MS/MSD Sample ID	
Sample ID	MW-50-200-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	06/24/2020

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	30.9	7.63	16301	146	1.19	18	41.50	8.41	9.49
13:57	500	4000	31.1	7.60	16270	147	1.05	10	41.50	8.40	9.49
14:01	500	6000	30.9	7.61	16274	148	1.04	5	41.51	8.40	9.48
14:05	500	8000	30.9	7.62	16261	149	1.03	5	41.51	8.40	9.48
14:09	500	10000	30.9	7.63	16220	150	1.02	5	41.51	8.40	9.48

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-52D

Date	06/16/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	7.03
Water Quality Meter	YSI	Gallons in Well	10.82
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	125.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1.5	Pump Intake Depth (ft bmp)	124
Water Column in Well	117.97	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/16/2020	EB Time	
Sample Time	11:31	MS/MSD Sample ID	
Sample ID	MW-52D-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	06/16/2020

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)
11:14	500	2000	21.7	7.38	20943	-24	8.06	41	7.10	12.54	13.59
11:18	500	4000	23.0	7.43	20605	-22	8.32	10	7.10	12.33	13.37
11:22	500	6000	22.3	7.50	20803	-19	8.13	8	7.10	12.46	13.52
11:26	500	8000	22.7	7.52	20663	-18	7.97	8	7.10	12.30	13.24
11:30	500	10000	22.7	7.55	20851	-19	8.06	8	7.10	12.46	13.52

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-52M

Date	06/16/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	7.14
Water Quality Meter	YSI	Gallons in Well	8.52
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	100.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1.5	Pump Intake Depth (ft bmp)	99
Water Column in Well	92.86	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/16/2020	EB Time	
Sample Time	12:03	MS/MSD Sample ID	
Sample ID	MW-52M-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	06/16/2020

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)
11:46	500	2000	21.8	6.94	16072	-151	0.55	5	7.28	9.42	10.44
11:50	500	4000	21.4	6.98	16034	-150	0.47	5	7.28	9.40	10.41
11:54	500	6000	21.7	7.00	16029	-148	0.43	4	7.28	9.40	10.42
11:58	500	8000	21.9	7.07	16023	-147	0.40	4	7.28	9.39	10.41
12:02	500	10000	21.9	7.14	16010	-148	0.38	4	7.28	9.38	10.40

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-52S

Date	06/16/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	6.46
Water Quality Meter	YSI	Gallons in Well	3.99
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	50.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1.5	Pump Intake Depth (ft bmp)	48
Water Column in Well	43.54	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/16/2020	EB Time	
Sample Time	11:03	MS/MSD Sample ID	
Sample ID	MW-52S-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	06/16/2020

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)
10:46	500	2000	21.7	6.96	10211	-153	0.40	12	6.50	6.67	7.52
10:50	500	4000	21.4	6.87	10148	-150	0.30	10	6.50	5.93	6.79
10:54	500	6000	21.4	6.83	10058	-151	0.24	9	6.50	5.70	6.54
10:58	500	8000	21.3	6.83	9840	-152	0.21	9	6.50	5.57	6.41
11:02	500	10000	21.4	6.83	9875	-150	0.21	9	6.50	5.70	6.54

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**

MW-53D

Date	06/16/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	10.33
Water Quality Meter	YSI	Gallons in Well	10.62
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	126.10
Casing Material	PVC	Odor	none
Casing Diameter (in)	1.5	Pump Intake Depth (ft bmp)	124
Water Column in Well	115.77	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/16/2020	EB Time	
Sample Time	13:05	MS/MSD Sample ID	
Sample ID	MW-53D-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	06/16/2020

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)
12:48	500	2000	23.5	7.29	25619	-130	0.49	3	10.43	15.64	16.62
12:52	500	4000	23.5	7.32	25610	-128	0.44	3	10.43	15.64	16.52
12:56	500	6000	23.6	7.35	24923	-128	0.40	2	10.43	15.62	16.62
13:00	500	8000	23.6	7.45	25334	-127	0.43	2	10.43	15.62	16.62
13:04	500	10000	23.7	7.46	25684	-125	0.42	2	10.43	15.62	16.62

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

MW-53M

Date	06/16/2020	Sampler	Riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	9.94
Water Quality Meter	YSI	Gallons in Well	8.31
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	100.55
Casing Material	PVC	Odor	none
Casing Diameter (in)	1.5	Pump Intake Depth (ft bmp)	99
Water Column in Well	90.61	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/16/2020	EB Time	
Sample Time	12:38	MS/MSD Sample ID	
Sample ID	MW-53M-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	06/16/2020

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)
12:21	500	2000	21.2	7.30	17651	-80	5.93	3	10.00	7.37	8.30
12:25	500	4000	21.9	7.37	13070	-72	4.71	3	10.00	7.37	8.30
12:29	500	6000	22.1	7.39	15207	-62	4.35	3	10.00	8.84	9.75
12:33	500	8000	22.1	7.45	15234	-60	4.36	3	10.00	9.67	10.75
12:37	500	10000	22.3	7.46	15677	-59	4.28	3	10.00	9.67	10.75

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-54-085

Date	06/19/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	8.86
Water Quality Meter	YSI	Gallons in Well	12.62
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	86.22
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	82
Water Column in Well	77.36	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-54-85-EB-Q220
Sample Date	06/19/2020	EB Time	10:00
Sample Time	10:27	MS/MSD Sample ID	
Sample ID	MW-54-085-Q220	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	30	Post Sampling Turbidity	
		Purge Date	06/19/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:10	500	2000	29.22	7.82	5023	68.5	4.3	54	8.92	2.31	2.84
10:14	500	4000	29.31	7.79	5289	10.4	2.2	35	9.94	2.46	3.02
10:18	500	6000	29.40	7.73	5350	3.5	2.0	33	9.94	2.72	3.32
10:22	500	8000	29.37	7.72	5540	-5.3	1.8	30	9.92	2.72	3.32
10:26	500	10000	29.37	7.72	5580	-14.2	1.6	30	9.94	2.72	3.32

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-54-140

Date	06/19/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	9.19
Water Quality Meter	YSI	Gallons in Well	20.89
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	137.24
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	133
Water Column in Well	128.05	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-54-140-EB-Q220
Sample Date	06/19/2020	EB Time	09:10
Sample Time	09:51	MS/MSD Sample ID	
Sample ID	MW-54-140-Q220	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	25	Post Sampling Turbidity	
		Purge Date	06/19/2020

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)
09:30	500	2000	28.48	7.77	9123	74.6	2.3	143	9.25	4.74	5.56
09:34	500	4000	28.50	7.77	9128	61.0	2.20	89	9.27	4.74	5.56
09:38	500	6000	28.51	7.77	9138	26.5	2.0	30	9.27	4.74	5.56
09:42	500	8000	28.49	7.77	9135	17.2	1.7	28	20.27	4.74	5.56
09:46	500	10000	28.45	7.78	9128	7.3	1.7	26	9.27	4.74	5.56
09:50	500	12000	28.44	7.78	9130	-2.6	1.7	25	9.27	4.74	5.56

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-54-195

Date	06/19/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	10.12
Water Quality Meter	YSI	Gallons in Well	29.66
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	191.98
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	190
Water Column in Well	181.86	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-54-195-EB-Q220
Sample Date	06/19/2020	EB Time	08:15
Sample Time	08:43	MS/MSD Sample ID	
Sample ID	MW-54-195-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	10	Post Sampling Turbidity	
		Purge Date	06/19/2020

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)
08:26	500	2000	28.0	8.11	13616	61.8	3.2	12	10.17	7.37	8.37
08:30	500	4000	27.94	8.09	13617	10.3	2.5	10	10.20	7.37	8.37
08:34	500	6000	27.93	8.09	13611	1.2	2.2	10	10.20	7.37	8.37
08:38	500	8000	27.90	8.09	13603	-7.0	1.9	10	10.20	7.37	8.37
08:42	500	1000	27.87	8.09	13601	-15.5	1.7	10	10.20	7.38	8.38

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		

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-55-045

Date	06/19/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	8.71
Water Quality Meter	YSI	Gallons in Well	5.92
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	45.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	42
Water Column in Well	36.29	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	mw-55-045-eb-q220
Sample Date	06/19/2020	EB Time	08:27
Sample Time	08:50	MS/MSD Sample ID	
Sample ID	MW-55-045-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	06/19/2020

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)
08:33	500	2000	28.4	7.84	1287	-40	0.18	33	8.83	0.64	0.83
08:37	500	4000	28.5	7.84	1287	-48	0.17	11	8.83	0.64	0.83
08:41	500	6000	28.5	7.84	1287	-62	0.16	9	8.83	0.64	0.83
08:45	500	8000	28.5	7.85	1288	-69	0.14	9	8.83	0.64	0.83
08:49	500	10000	28.5	7.85	1286	-74	0.13	9	8.83	0.64	0.83

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

MW-55-120

Date	06/19/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	8.73
Water Quality Meter	YSI	Gallons in Well	18.16
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	120.09
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	113
Water Column in Well	111.36	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/19/2020	EB Time	
Sample Time	08:12	MS/MSD Sample ID	
Sample ID	MW-55-120-Q220	MS/MSD Sample Time	
Duplicate Sample ID	mw-903-q220	Double Filter Turbidity	
Dup Sample Time	08:22	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	06/19/2020
Without Filter Turbidity	5		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
07:55	500	2000	28.4	8.20	7319	261	1.06	5	8.80	3.98	4.76
07:59	500	4000	28.5	8.19	7335	257	1.05	5	8.80	4.01	4.74
08:03	500	6000	28.5	8.19	7314	256	1.03	5	8.80	3.98	4.73
08:07	500	8000	28.5	8.19	7284	255	0.96	5	8.80	3.98	4.73
08:11	500	10000	28.5	8.19	7301	254	0.93	5	8.80	3.99	4.74

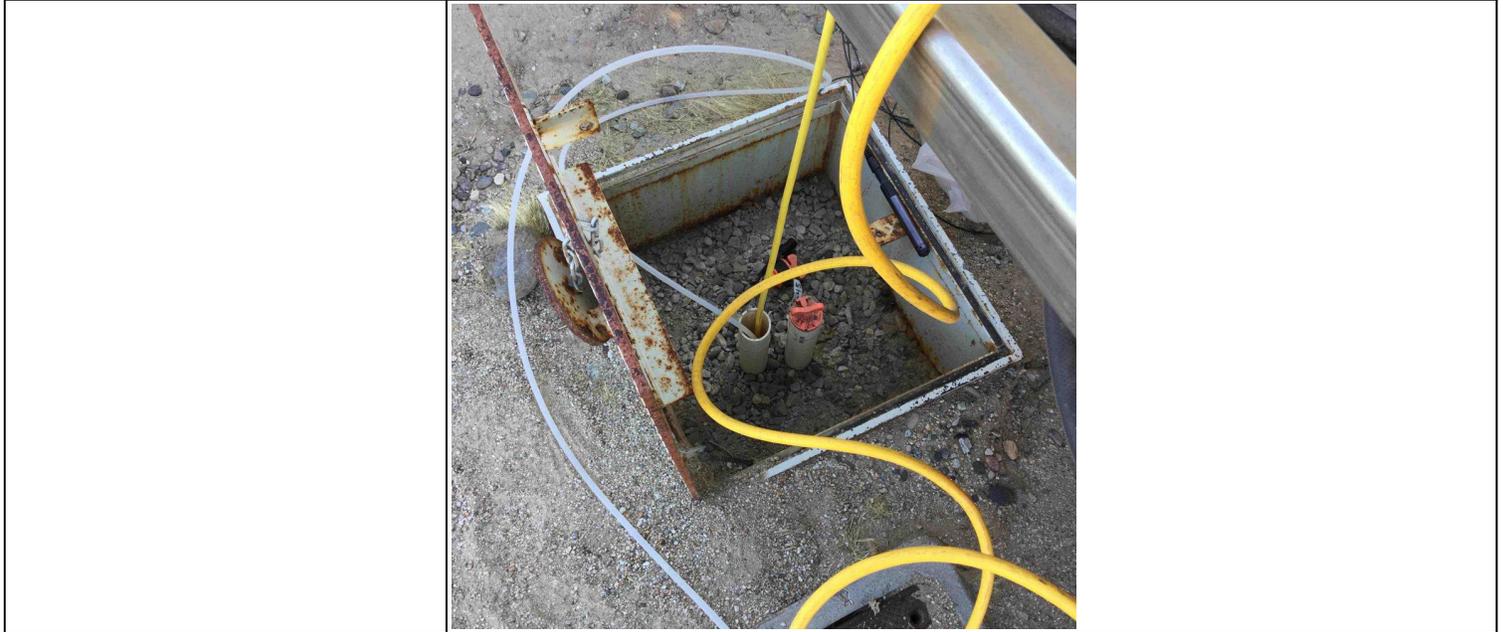
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-56D

Date	06/19/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	8.63
Water Quality Meter	YSI	Gallons in Well	8.84
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	105.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1.5	Pump Intake Depth (ft bmp)	104
Water Column in Well	96.37	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/19/2020	EB Time	
Sample Time	09:56	MS/MSD Sample ID	
Sample ID	MW-56D-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	06/19/2020

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)
09:39	500	2000	28.6	6.92	21867	205	1.34	6	8.70	13.00	14.22
09:43	500	4000	29.0	7.21	21884	197	1.24	3	8.70	13.08	14.21
09:47	500	6000	29.0	7.51	21873	169	1.16	3	8.70	13.07	14.21
09:51	500	8000	29.0	7.53	21877	168	1.09	3	8.70	13.04	14.17
09:55	500	10000	29.3	7.55	21890	165	1.08	3	8.70	13.05	14.28

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-56M

Date	06/19/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	8.75
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	1.5	Pump Intake Depth (ft bmp)	74
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	06/19/2020	EB Sample ID	
Sample Time	10:26	EB Time	
Sample ID	MW-56M-Q220	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	2	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	06/19/2020

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)
10:09	500	2000	30.9	7.37	9507	141	0.96	2	8.86	5.23	6.15
10:13	500	4000	30.8	7.43	9486	148	0.94	2	8.86	5.28	6.17
10:17	500	6000	30.7	7.75	9463	203	0.91	2	8.86	5.25	6.14
10:21	500	8000	30.7	7.76	9373	208	0.90	2	8.86	5.26	6.14
10:25	500	10000	30.7	7.77	9459	210	0.87	2	8.86	5.25	6.14

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

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-56S

Date	06/19/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	8.66
Water Quality Meter	YSI	Gallons in Well	2.42
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	35.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1.5	Pump Intake Depth (ft bmp)	34
Water Column in Well	26.34	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/19/2020	EB Time	
Sample Time	10:54	MS/MSD Sample ID	
Sample ID	MW-56S-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	06/19/2020

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)
10:37	500	2000	26.4	7.21	5973	-140	0.33	5	8.79	3.23	3.88
10:41	500	4000	26.5	7.20	5962	-138	0.31	5	8.79	3.23	3.88
10:45	500	6000	26.5	7.19	5903	-141	0.25	5	8.79	3.20	3.83
10:49	500	8000	26.5	7.18	5899	-143	0.24	5	8.79	3.20	3.83
10:53	500	10000	26.4	7.17	5909	-144	0.23	5	8.79	3.20	3.84

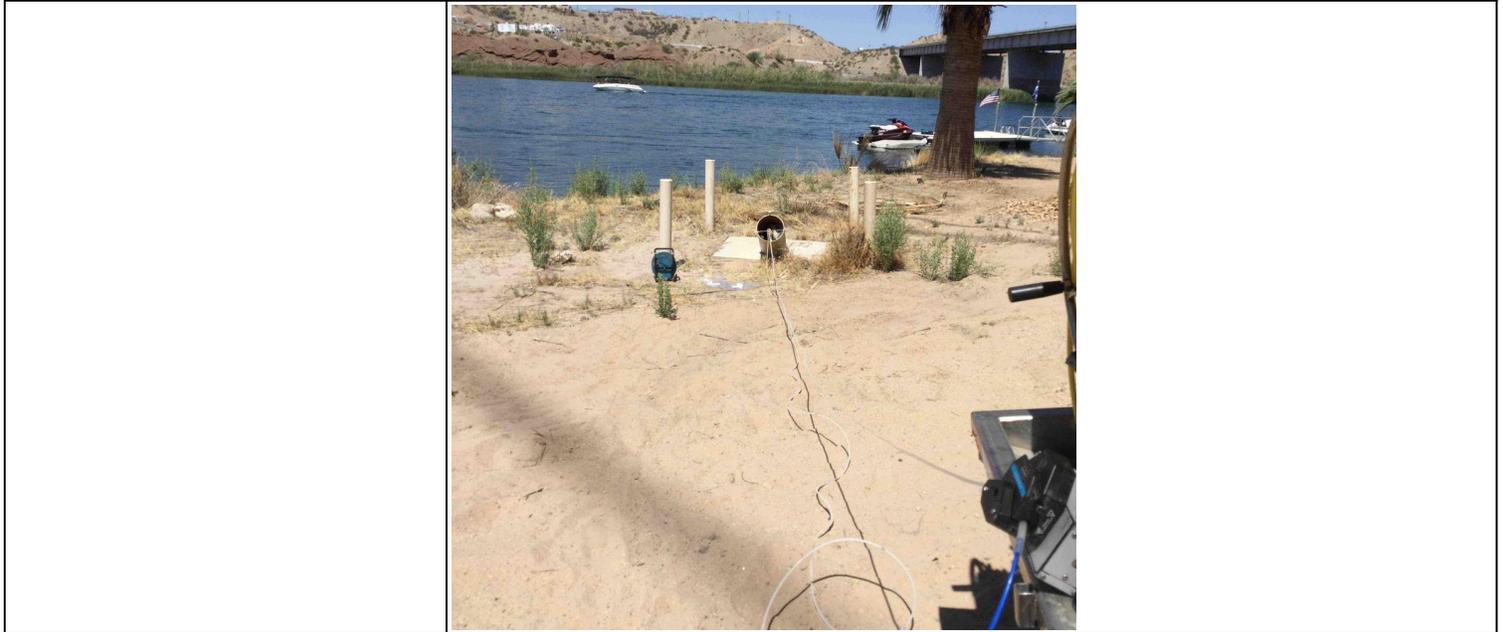
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-57-050

Date	<u>06/22/2020</u>	Sampler	_____
Weather Conditions	<u>Sunny</u>	Color	_____
Casing Material	<u>PVC</u>	Casing Volume to Remove	_____
Casing Diameter (in)	<u>2</u>	Depth to Water (ft bmp)	_____
Comments	<u>well is dry</u>	Gallons in Well	_____
Did Well Dewater?	<u>NA</u>	Measured Well Depth (ft bmp)	<u>49.88</u>
		Odor	_____
		Pump Intake Depth (ft bmp)	_____
		Total Volume to Remove	_____
		EB Sample ID	_____
		EB Time	_____
		MS/MSD Sample ID	_____
		MS/MSD Sample Time	_____
		Double Filter Turbidity	_____
		Post Sampling Turbidity	_____
		Purge Date	<u>06/22/2020</u>

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:41	0	0									

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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	
Remarks				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

Site: PGE Topock
Topock, CA

MW-57-070

Date	06/22/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	52.32
Water Quality Meter	YSI	Gallons in Well	2.88
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	70.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	62.5
Water Column in Well	17.68	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/22/2020	EB Time	
Sample Time	12:51	MS/MSD Sample ID	
Sample ID	MW-57-070-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	06/22/2020

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)
12:34	500	2000	26.0	7.10	2990	-27	1.00	12	52.40	2.62	3.68
12:38	500	4000	25.9	7.08	2933	-33	0.96	9	52.40	2.65	3.70
12:42	500	6000	25.8	7.08	2881	-35	0.90	9	52.40	2.62	3.68
12:46	500	8000	25.9	7.07	2820	-36	0.88	9	52.40	2.65	3.70
12:50	500	10000	25.9	7.05	2809	-40	0.76	9	52.40	2.65	3.70

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-57-185

Date	06/22/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	52.67
Water Quality Meter	YSI	Gallons in Well	48.48
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	184.77
Casing Material	PVC	Odor	none
Casing Diameter (in)	3	Pump Intake Depth (ft bmp)	127
Water Column in Well	132.10	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	eb-709-q220
Sample Date	06/22/2020	EB Time	14:10
Sample Time	13:31	MS/MSD Sample ID	
Sample ID	MW-57-185-Q220	MS/MSD Sample Time	
Duplicate Sample ID	mw-912-q220	Double Filter Turbidity	
Dup Sample Time	13:41	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	06/22/2020
Without Filter Turbidity	3		

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)
13:14	500	2000	25.3	9.08	20480	-191	0.66	5	52.70	6.53	8.23
13:18	500	4000	25.5	9.11	20510	-193	0.48	3	52.70	6.53	8.23
13:22	500	6000	25.6	9.13	20613	-196	0.38	3	52.70	6.53	8.23
13:26	500	8000	25.7	9.14	20619	-200	0.30	3	52.70	6.53	8.23
13:30	500	10000	25.7	9.15	20733	-202	0.28	3	52.70	6.53	8.23

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**

MW-59-100

Date	06/22/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	85.6
Water Quality Meter	YSI	Gallons in Well	2.30
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	99.68
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	93.5
Water Column in Well	14.08	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/22/2020	EB Time	
Sample Time	11:44	MS/MSD Sample ID	
Sample ID	MW-59-100-Q220	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter Turbidity	15	Post Sampling Turbidity	
		Purge Date	06/22/2020

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)
11:27	500	2000	33.2	6.95	13459	-54	0.91	36	85.36	7.65	8.74
11:31	500	4000	33.7	6.93	13337	-56	0.79	35	85.40	7.57	8.64
11:35	500	6000	34.0	6.92	13208	-58	0.67	22	85.40	7.51	8.58
11:39	500	8000	34.1	6.92	13292	-64	0.63	22	85.40	7.62	8.71
11:43	500	10000	34.3	6.91	13457	-65	0.61	15	85.40	7.65	8.73

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-60-125

Date	06/24/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	98.43
Water Quality Meter	YSI	Gallons in Well	4.33
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	125.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	113
Water Column in Well	26.57	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	eb-712-q220
Sample Date	06/24/2020	EB Time	15:30
Sample Time	14:37	MS/MSD Sample ID	
Sample ID	MW-60-125-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	06/24/2020

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)
14:20	500	2000	32.0	7.50	9934	169	0.53	3	98.55	5.51	6.44
14:24	500	4000	32.32	7.49	9914	169	0.62	3	98.55	5.51	6.42
14:28	500	6000	32.3	7.53	9912	170	0.50	3	98.55	5.51	6.44
14:32	500	8000	32.3	7.53	9860	173	0.48	3	98.55	5.51	6.42
14:36	500	10000	32.5	7.55	9902	176	0.33	3	98.55	5.51	6.44

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-63-065

Date	06/23/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	48.31
Water Quality Meter	YSI	Gallons in Well	2.43
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	63.23
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	56
Water Column in Well	14.92	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	06/24/2020	EB Time	
Sample Time	12:39	MS/MSD Sample ID	
Sample ID	MW-63-065-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	06/23/2020

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)
12:22	500	2000	27..98	7.06	5337	177.9	2.93	105	48.36	2.71	3.29
12:26	500	4000	27.9	7.05	5352	181	2.80	69	48.36	2.71	3.29
12:30	500	6000	28.0	7.03	5373	192	1.70	8	48.36	2.71	3.29
12:34	500	8000	28.0	7.02	5370	194	1.69	8	48.36	2.71	3.29
12:38	500	10000	28.0	7.01	5368	194	1.68	8	48.36	2.71	3.29

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			<null>

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-66BR-270

Date	06/17/2020	Sampler	Riggle
Weather Conditions	Sunny	Color	Clear
Purge Method	Extraction Port	Casing Volume to Remove	0
Purge Volume Units	gal	Depth to Water (ft bmp)	60.00
Water Quality Meter	YSI	Gallons in Well	122.00
Sampling Type	Volume Purge – Grundfos RF2	Measured Well Depth (ft bmp)	247.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	237
Water Column in Well	187.00	Total Volume to Remove	0.00
Comments	well dewatered	EB Sample ID	
Did Well Dewater?	No	EB Time	
Sample Date	06/24/2020	MS/MSD Sample ID	
Sample Time	08:30	MS/MSD Sample Time	
Sample ID	MW-66BR-270-Q220	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	9	Purge Date	06/17/2020

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)
08:25	5	20	30.7	8.44	17850	-123	0.31	12		10.46	11.58
08:30	5	40	30.7	8.46	17836	-213	0.11	9		10.46	11.59
08:30	5	80	30.9	8.43	17889	-220	0.14	9		10.40	11.55
08:34	5	60	30.7	8.46	17839	-217	0.11	9		10.46	11.59
08:38	5	80	30.7	8.46	17941	-220	0.10	9		10.45	11.59

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	
Remarks				

Photos and Drawings

Site: PGE Topock
Topock, CA

TW-04

Date	06/25/2020	Sampler	Jb
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	28.61
Water Quality Meter	YSI	Gallons in Well	147.05
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	254.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	230
Water Column in Well	225.39	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-715-Q220
Sample Date	06/25/2020	EB Time	10:20
Sample Time	10:03	MS/MSD Sample ID	
Sample ID	TW-04-Q220	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	0
Without Filter Turbidity	13	Post Sampling Turbidity	
		Purge Date	06/25/2020

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)
09:46	500	2000	28.7	7.49	14806	114.6	0.39	23	28.65	7.93	8.97
09:50	500	4000	28.8	7.49	14838	117.9	0.49	16	28,65	7.94	8.97
09:54	500	6000	28.8	7.49	14844	115.7	0.37	15	28,65	7.93	8.97
09:58	500	8000	28.9	7.50	14891	118.7	0.40	14	28,61	7.94	8.97
10:02	500	10000	28.8	7.50	14898	116.7	0.39	13	28,65	7.98	8.97

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pondered Water?		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	

Photos and Drawings



Site: PGE Topock
Topock, CA

TW-05

Date	06/25/2020	Sampler	riggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	40.61
Water Quality Meter	YSI	Gallons in Well	73.62
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	153.45
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	130
Water Column in Well	112.84	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	eb-714-q220
Sample Date	06/25/2020	EB Time	10:55
Sample Time	10:36	MS/MSD Sample ID	
Sample ID	TW-05-Q220	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter Turbidity	22	Post Sampling Turbidity	
		Purge Date	06/25/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:19	500	2000	29.2	7.67	12324	183	0.71	22	40.65	6.99	8.00
10:23	500	4000	29.5	7.77	12295	180	0.58	20	40.65	6.97	7.99
10:27	500	6000	29.6	7.83	12310	178	0.49	20	40.65	6.96	7.95
10:31	500	8000	29.6	7.86	12189	175	0.46	21	40.65	6.86	7.84
10:35	500	10000	29.6	7.87	12024	175	0.43	22	40.65	6.85	7.84

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**

MW-83-180

Date	07/22/2020	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)	72.92
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	170
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	07/22/2020	EB Sample ID	EB-755-Q320
Sample Time	14:31	EB Time	15:00
Sample ID	MW-83-180-0720	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	2	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	07/22/2020

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)
14:14	500	2000	31.2	7.12	10504	117.5	0.31	10	72.97	5.95	6.90
14:18	500	4000	31.4	7.16	11831	113.8	0.55	4	72.97	6.64	7.66
14:22	500	6000	31.3	7.18	12011	109.6	0.58	2	72.92	6.84	7.77
14:26	72.92	8000	31.5	7.18	12136	106.1	0.57	2	72.92	6.84	7.84
14:30	500	10000	31.5	7.19	12232	105.7	0.58	2	72.92	6.86	7.86

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-117

Date	07/20/2020	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)	17.39
Water Quality Meter	YSI	Gallons in Well	16.43
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	118.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	108
Water Column in Well	100.72	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/20/2020	EB Time	
Sample Time	16:56	MS/MSD Sample ID	
Sample ID	MW-75-117-0720	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	10	Post Sampling Turbidity	
Turbidity		Purge Date	07/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:39	500	2000	29.0	6.66	10387	99.6	1.12	20	17.44	5.87	6.82
14:43	500	4000	29.0	6.70	11023	90.3	0.67	14	17.44	6.44	7.37
14:47	500	6000	28.9	6.72	11439	85.1	0.41	10	17.44	6.48	7.41
14:51	500	8000	28.9	6.73	11504	82.1	0.37	10	17.44	6.55	7.63
14:55	500	10000	29.0	6.74	11631	79.1	0.33	10	17.44	6.58	7.66

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-033

Date	07/21/2020	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)	17
Water Quality Meter	YSI	Gallons in Well	2.90
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	34.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	26
Water Column in Well	17.80	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/21/2020	EB Time	
Sample Time	08:26	MS/MSD Sample ID	
Sample ID	MW-75-033-0720	MS/MSD Sample Time	
Single Filter Turbidity	10	Double Filter Turbidity	1
Without Filter Turbidity	31	Post Sampling Turbidity	
		Purge Date	07/21/2020

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)
08:09	500	2000	28.2	6.85	4777	102.1	2.05	120	17	2.54	3.12
08:13	500	4000	28.3	6.84	4879	99.5	1.93	60	17	2.63	3.18
08:17	500	6000	28.3	6.83	4938	98.1	1.86	32	17	2.64	3.21
08:21	500	8000	28.3	6.83	4834	96.5	1.85	30	17	2.64	3.28
08:25	500	10000	28.3	6.82	4885	96.0	1.83	31	17	2.65	3.22

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-84-057

Date	07/22/2020	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)	44.1
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	49
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	07/22/2020	EB Sample ID	
Sample Time	13:48	EB Time	
Sample ID	MW-84-057-0720	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	13	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	07/22/2020

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)
12:45	500	2000	29.9	7.15	2184	113.3	5.55	51	44.14	1.11	1.42
12:49	500	4000	30	7.18	2170	112.5	5.47	27	44.14	1.11	1.41
12:53	500	6000	30.4	7.19	2144	110.6	5.10	13	44.14	1.10	1.41
12:57	500	8000	30.5	7.19	2144	109.7	5.08	11	44.14	1.11	1.41
13:01	500	10000	30.4	7.20	2133	108.9	5.06	13	44.14	1.11	1.41

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-84-095

Date	07/22/2020	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)	44.05
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	07/22/2020	EB Sample ID	
Sample Time	11:57	EB Time	
Sample ID	MW-84-095-0720	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	16	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	07/22/2020

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)
11:40	500	2000	30.5	7.06	6375	115.1	1.29	44	44.11	3.45	4.04
11:44	500	4000	31.3	7.08	6208	111	1.18	22	44.11	3.36	4.14
11:48	500	6000	31.2	7.08	6427	109.8	1.15	16	44.11	3.46	4.02
11:52	500	8000	31.4	7.08	6423	109.4	1.13	17	44.11	3.46	4.08
11:56	500	10000	31.3	7.08	6431	109.2	1.13	16	44.11	3.42	4.12

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-84-132

Date	07/22/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	44.64
Water Quality Meter	YSI	Gallons in Well	14.58
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	134.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	122
Water Column in Well	89.36	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-756-Q320
Sample Date	07/22/2020	EB Time	13:07
Sample Time	12:57	MS/MSD Sample ID	
Sample ID	MW-84-132-0720	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	0
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	07/22/2020

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)
12:40	500	2000	30.8	7.51	9740	112.7	0.76	5	44.68	4.13	4.92
12:44	500	4000	31.1	7.44	9780	113.6	0.71	5	44.68	4.13	4.92
12:48	500	6000	31.2	7.41	9800	115.7	0.67	5	44.68	4.13	4.92
12:52	500	8000	31.1	7.40	9880	115.3	0.62	5	44.68	4.13	4.92
12:56	500	10000	31.1	7.42	9906	114.5	0.60	5	44.68	4.13	4.92

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-84-193

Date	07/22/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	44.59
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	183
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	07/22/2020	EB Sample ID	
Sample Time	12:07	EB Time	
Sample ID	MW-84-193-0720	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	5	Double Filter Turbidity	0
		Post Sampling Turbidity	
		Purge Date	07/22/2020

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)
11:50	500	2000	31.8	7.29	15398	73.6	0.33	5	44.63	7.57	8.65
11:54	500	4000	31.8	7.33	15450	74.7	0.35	5	44.63	7.57	8.65
11:58	500	6000	31.8	7.39	15500	75.2	0.40	5	44.63	7.57	8.65
12:02	500	8000	31.9	7.48	15563	76.3	0.53	5	44.63	7.57	8.65
12:06	500	10000	31.8	7.49	15509	77.5	0.65	5	44.63	7.57	8.65

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-87-192

Date	07/22/2020	Sampler	Jb
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.41
Water Quality Meter	YSI	Gallons in Well	16.76
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	193.15
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	182
Water Column in Well	102.74	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/22/2020	EB Time	
Sample Time	10:00	MS/MSD Sample ID	
Sample ID	MW-87-192-0720	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	07/22/2020

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)
09:43	500	2000	30.4	7.565	10569	36.6	0.55	10	90.45	5.32	6.21
09:47	500	4000	30.9	7.53	10642	56.3	0.66	5	90.45	5.32	6.21
09:51	500	6000	30.9	7.55	10604	59.4	0.69	5	90.45	5.32	6.21
09:55	500	8000	30.9	7.58	10579	61.9	0.71	5	90.45	5.32	6.21
09:59	500	10000	30.9	7.60	10541	64.1	0.68	5	90.45	5.32	6.21

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			
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-87-275

Date	07/22/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.23
Water Quality Meter	YSI	Gallons in Well	30.33
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	276.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	265
Water Column in Well	185.97	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/22/2020	EB Time	
Sample Time	08:35	MS/MSD Sample ID	
Sample ID	MW-87-275-0720	MS/MSD Sample Time	
Duplicate Sample ID	MW-911-Q320	Double Filter Turbidity	0
Dup Sample Time	08:45	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	07/22/2020
Without Filter Turbidity	5		

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)
08:18	500	2000	30.5	7.58	12789	151.0	0.72	5	90.27	6.55	7.54
08:22	500	4000	30.8	7.59	12871	143.9	0.70	5	90.27	6.54	7.55
08:26	500	6000	30.9	7.58	12920	139.5	0.71	5	90.27	6.55	7.54
08:30	500	8000	30.9	7.60	12977	134.3	0.71	5	20.27	6.55	7.55
08:34	500	10000	30.9	7.64	13007	131.9	0.72	5	90.27	6.55	7.54

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-87-109

Date	07/22/2020	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)	90.10
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	99
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	07/22/2020	EB Sample ID	
Sample Time	08:52	EB Time	
Sample ID	MW-87-109-0720	MS/MSD Sample ID	
Single Filter Turbidity	5	MS/MSD Sample Time	
Without Filter Turbidity	22	Double Filter Turbidity	1
		Post Sampling Turbidity	
		Purge Date	07/22/2020

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)
08:35	500	2000	30.6	6.63	2893	108.9	3.48	90	90.16	1.49	1.89
08:39	500	4000	31.3	6.69	2923	108.6	3.14	66	90.16	1.50	1.89
08:43	500	6000	30.9	6.73	2916	107.8	3.27	24	90.16	1.50	1.90
08:47	500	8000	30.7	6.75	2894	107.1	3.37	22	90.16	1.48	1.88
08:51	500	10000	30.7	6.76	2901	106.7	3.33	23	90.16	1.50	1.90

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-87-139

Date	07/22/2020	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)	90.08
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	134
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	07/22/2020	EB Sample ID	
Sample Time	10:20	EB Time	
Sample ID	MW-87-139-0720	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	12	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	07/22/2020

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)
10:03	500	2000	36.4	7.11	7811	98	3.72	33	90.12	4.24	5.07
10:07	500	4000	36.4	7.14	7829	103.4	1.61	21	90.12	4.25	5.09
10:11	500	6000	36.6	7.16	7861	105.7	1.14	12	90.12	4.28	5.12
10:15	500	8000	36.7	7.17	7882	106.3	1.17	12	90.12	4.28	5.13
10:19	500	10000	36.6	7.17	7885	107.0	1.15	12	90.12	4.28	5.12

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-76-218

Date	07/21/2020	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)	26.20
Water Quality Meter	YSI	Gallons in Well	31.60
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	219.95
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	213
Water Column in Well	193.75	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/21/2020	EB Time	
Sample Time	10:50	MS/MSD Sample ID	
Sample ID	MW-76-218-0720	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	07/21/2020

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)
10:33	500	2000	28.6	8.45	18239	74.9	0.35	18	26.27	10.75	11.87
10:37	500	4000	28.7	8.52	18458	78.9	0.29	12	26.27	10.93	12.05
10:41	500	6000	28.8	8.37	21989	93.9	0.26	4	26.27	13.22	14.43
10:45	500	8000	28.8	8.33	23555	95.9	0.24	4	26.27	14.21	15.33
10:49	500	10000	28.9	8.30	23735	95.3	0.22	4	26.27	14.26	15.46

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

MW-76-181

Date	07/21/2020	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)	26.40
Water Quality Meter	YSI	Gallons in Well	25.50
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	182.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	176
Water Column in Well	156.31	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/21/2020	EB Time	
Sample Time	11:52	MS/MSD Sample ID	
Sample ID	MW-76-181-0720	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	07/21/2020

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)
11:35	500	2000	28.7	7.48	21260	100.8	0.25	16	26.46	12.68	13.81
11:39	500	4000	29	7.40	21595	99.9	0.21	12	26.46	12.62	13.98
11:43	500	6000	28.9	7.30	21666	99.4	0.22	4	26.46	12.68	13.96
11:47	500	8000	28.9	7.27	21689	99.3	0.24	4	26.46	12.70	13.91
11:51	500	10000	28.9	7.27	21466	98.6	0.23	4	26.46	12.85	13.88

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

MW-76-156

Date	07/21/2020	Sampler	Jb
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	25.88
Water Quality Meter	YSI	Gallons in Well	21.18
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	155.76
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	151
Water Column in Well	129.88	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/21/2020	EB Time	
Sample Time	10:57	MS/MSD Sample ID	
Sample ID	MW-76-156-0720	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	0
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	07/21/2020

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	28.8	7.68	18460	37.9	0.22	4	25.92	10.06	11.17
10:44	500	4000	28.9	7.67	18497	43.6	0.17	4	25.92	10.06	11.17
10:48	500	6000	28.9	7.68	18532	45.9	0.17	4	25.92	10.06	11.17
10:52	500	8000	28.9	7.68	18581	47.4	0.16	4	25.92	10.06	11.17
10:56	500	10000	28.9	7.68	185600	47.1	0.15	4	25.92	10.06	11.17

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-76-039

Date	07/21/2020	Sampler	Jb
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	25.28
Water Quality Meter	YSI	Gallons in Well	2.12
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	38.29
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	34
Water Column in Well	13.01	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/21/2020	EB Time	
Sample Time	11:38	MS/MSD Sample ID	
Sample ID	MW-76-039-0720	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	0
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	07/21/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:21	500	2000	28.74	7.64	4834	50.9	1.80	24	25.32	2.38	2.91
11:25	500	4000	29.4	7.54	4820	70.9	1.76	9	25.32	2.35	2.89
11:29	500	6000	29.5	7.50	4837	76.3	1.82	9	25.32	2.35	2.89
11:33	500	8000	29.7	7.48	4840	78.9	1.72	9	25.32	2.35	2.89
11:37	500	10000	29.8	7.48	4832	81.5	1.64	9	25.32	2.35	2.89

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-337

Date	07/21/2020	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)	19.20
Water Quality Meter	YSI	Gallons in Well	52.08
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	338.50
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	327
Water Column in Well	319.30	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/21/2020	EB Time	
Sample Time	09:20	MS/MSD Sample ID	
Sample ID	MW-75-337-0720	MS/MSD Sample Time	
Duplicate Sample ID	MW-912-Q320	Double Filter Turbidity	
Dup Sample Time	09:30	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	07/21/2020
Without Filter Turbidity	4		

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)
08:59	500	2000	30.9	7.20	29285	-65.2	1.88	12	19.20	18.11	19.22
09:03	500	4000	30.6	7.22	30783	-34.9	1.98	8	19.2	19.04	20.11
09:07	500	6000	30.6	7.26	31387	-33.1	1.17	4	19.2	19.4	20.41
09:11	500	8000	30.3	7.28	31583	-58.4	0.54	4	19.2	19.56	20.51
09:15	500	10000	30.1	7.29	31668	-73.3	0.49	4	19.2	19.6	20.62
09:19	500	12000	30.1	7.29	31736	-78.8	0.44	4	19.2	19.64	20.65

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-267

Date	07/21/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	16.73
Water Quality Meter	YSI	Gallons in Well	41.08
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	268.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	257
Water Column in Well	251.85	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/21/2020	EB Time	
Sample Time	08:16	MS/MSD Sample ID	
Sample ID	MW-75-267-0720	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	0
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	07/21/2020

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)
07:59	500	2000	28.8	7.32	18550	-109.9	0.35	4	16.77	10.18	11.31
08:03	500	4000	28.7	7.31	23540	-191.5	0.31	4	16.77	10.90	12.09
08:07	500	6000	28.79	7.27	23559	-192.6	0.18	4	16.77	11.32	11.36
08:11	500	8000	29.0	7.27	23666	-193.4	0.15	4	16.77	12.32	13.41
08:15	500	10000	29.3	7.28	23703	-194.5	0.12	4	16.77	13.14	14.30

Well Integrity Checklist

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

Photos and Drawings

Site: PGE Topock
Topock, CA

Site: PGE Topock
Topock, CA

MW-75-202

Date	07/20/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	17.26
Water Quality Meter	YSI	Gallons in Well	30.51
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	204.31
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	192
Water Column in Well	187.05	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-752-Q320
Sample Date	07/20/2020	EB Time	14:56
Sample Time	14:56	MS/MSD Sample ID	MW-75-202-0720
Sample ID	MW-75-202-0720	MS/MSD Sample Time	14:56
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	07/20/2020

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)
14:39	500	2000	31.7	7.56	19840	-46.8	0.22	4	17.30	10.37	11.53
14:43	500	4000	31.9	7.58	19963	-47.2	0.18	4	17.30	10.47	11.64
14:47	500	6000	31.4	7.61	20390	-51.9	0.18	4	17.30	10.68	11.87
14:51	500	8000	31.4	7.64	20680	-52.6	0.16	4	17.30	10.68	11.87
14:55	500	10000	31.4	7.66	20814	-52.9	0.15	4	17.30	10.68	11.87

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-93-050

Date	07/21/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	30.03
Water Quality Meter	YSI	Gallons in Well	3.53
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	51.65
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	46
Water Column in Well	21.62	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/21/2020	EB Time	13:17
Sample Time	13:21	MS/MSD Sample ID	
Sample ID	MW-93-050-0720	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	0
Without Filter Turbidity	10	Post Sampling Turbidity	
		Purge Date	07/21/2020

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)
13:04	500	2000	29.36	7.78	5651	89.7	0.25	25	30.07	2.78	3.37
13:08	500	4000	29.5	7.60	5629	85.7	0.19	10	30.07	2.78	3.37
13:12	500	6000	29.3	7.52	5582	84.1	0.18	10	30.07	2.78	3.37
13:16	500	8000	29.2	7.47	5550	79.0	0.18	10	30.07	2.78	3.37
13:20	500	10000	29.1	7.46	5500	75.4	0.17	10	30.07	2.78	3.37

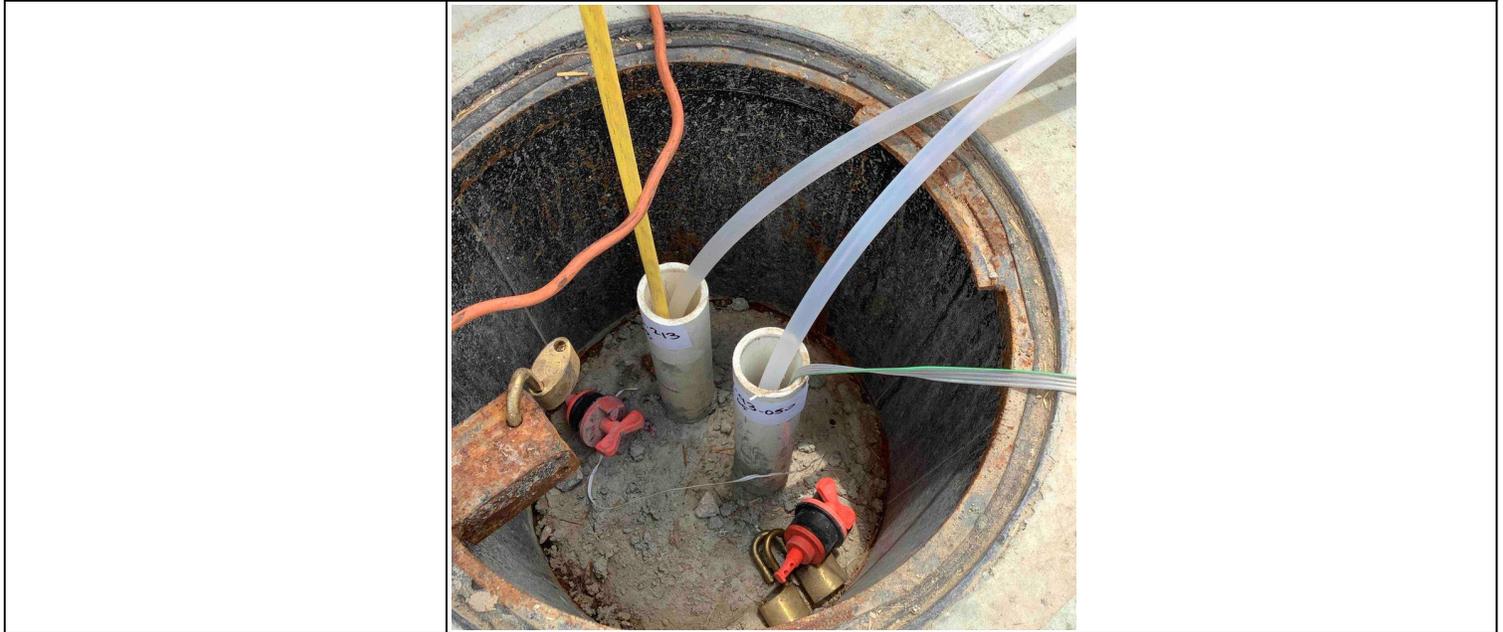
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-93-213

Date	07/21/2020	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)	29.85
Water Quality Meter	YSI	Gallons in Well	30.13
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	214.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	208
Water Column in Well	184.73	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/21/2020	EB Time	
Sample Time	13:18	MS/MSD Sample ID	
Sample ID	MW-93-213-0720	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	07/21/2020

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)
13:01	500	2000	28.2	6.97	16108	45.4	0.41	102	29.92	9.38	10.46
13:05	500	4000	28.3	6.95	14803	17.3	0.26	33	29.92	8.57	9.67
13:09	500	6000	28.3	6.92	14821	3.8	0.25	6	29.92	8.57	0.65
13:13	500	8000	28.2	6.88	15019	8.9	0.24	6	29.92	8.69	9.78
13:17	500	10000	28.2	6.87	15331	18.4	0.24	6	29.92	8.93	10.03

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-95-113

Date	07/21/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	96.63
Water Quality Meter	YSI	Gallons in Well	3.44
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	117.75
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	112
Water Column in Well	21.12	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-754-Q320
Sample Date	07/21/2020	EB Time	15:05
Sample Time	02:52	MS/MSD Sample ID	
Sample ID	MW-95-113-0720	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	0
		Post Sampling Turbidity	
		Purge Date	07/21/2020

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)
14:35	500	2000	30.4	7.53	1762	76.9	1.90	10	96.67	0.79	1.02
14:39	500	4000	30.7	7.43	1751	91.2	1.98	4	96.67	0.79	1.02
14:43	500	6000	30.7	7.43	1750	92.2	1.91	4	96.67	0.79	1.02
14:47	500	8000	30.7	7.43	1751	92.8	1.68	4	96.67	0.79	1.02
14:51	500	10000	30.7	7.48	1750	93.0	1.67	4	96.67	0.79	1.02

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-95-157

Date	07/21/2020	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)	96.51
Water Quality Meter	YSI	Gallons in Well	10.60
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	161.49
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	155
Water Column in Well	64.98	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	07/21/2020	EB Time	
Sample Time	15:13	MS/MSD Sample ID	
Sample ID	MW-95-157-0720	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	12	Post Sampling Turbidity	
Turbidity		Purge Date	07/21/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:56	500	2000	34.1	6.80	6000	108.3	2.09	32	96.56	3.22	3.91
15:00	500	4000	34.3	6.78	6001	108.2	1.88	22	96.56	3.21	3.90
15:04	500	6000	34.9	6.80	5971	109.8	1.91	12	96.52	3.19	3.89
15:08	500	8000	34.7	6.78	5903	110.3	1.87	12	96.52	3.16	3.83
15:12	500	10000	34.7	6.89	5911	110.1	1.93	12	96.52	3.15	3.83

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**

TW-03D

Date	<u>07/23/2020</u>	Sampler	_____
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Extraction Port</u>	Casing Volume to Remove	_____
Purge Volume Units	<u>Na</u>	Depth to Water (ft bmp)	<u>Na</u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	_____
Sampling Type	<u>Extraction port</u>	Measured Well Depth (ft bmp)	<u>Na</u>
Did Well Dewater?	<u>No</u>	Odor	<u>none</u>
Sample Date	<u>07/23/2020</u>	Pump Intake Depth (ft bmp)	_____
Sample Time	<u>08:30</u>	Total Volume to Remove	_____
Sample ID	<u>TW-03D-0720</u>	EB Sample ID	_____
Single Filter Turbidity	<u>1</u>	EB Time	_____
Without Filter Turbidity	<u>6</u>	MS/MSD Sample ID	_____
		MS/MSD Sample Time	_____
		Double Filter Turbidity	_____
		Post Sampling Turbidity	_____
		Purge Date	<u>07/23/2020</u>

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cum'l Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:30	Na	Na	29.8	7.37	8152	114.5	2.8	6	Na	4.49	5.29

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	

Photos and Drawings

Site: PGE Topock
Topock, CA

Site: PGE Topock
Topock, CA

MW-78-142

Date	08/18/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	46.27
Water Quality Meter	YSI	Gallons in Well	1418.32
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	141.62
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	132
Water Column in Well	8695.73	Total Volume to Remove	
Sample Date	08/18/2020	EB Sample ID	EB-758-Q320
Sample Time	12:26	EB Time	13:10
Sample ID	MW-78-142-0820	MS/MSD Sample ID	
Single Filter Turbidity	3	MS/MSD Sample Time	
Without Filter	13	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	08/18/2020

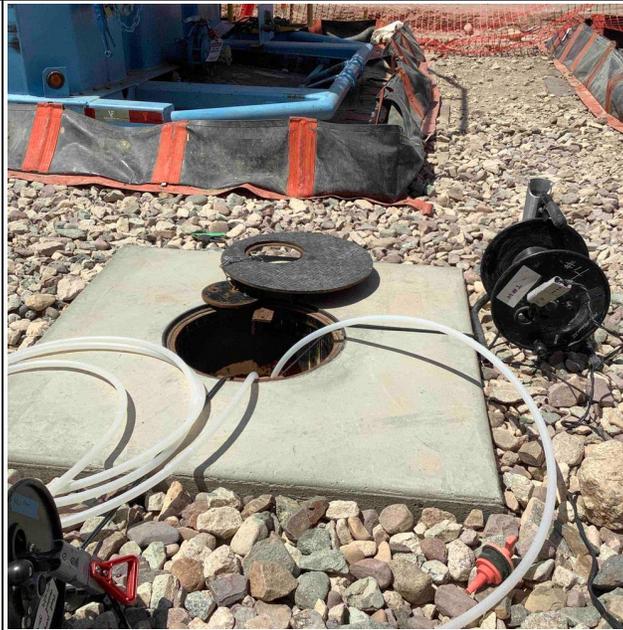
Field Parameters

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)
12:09	500	2000	30.6	7.41	13195	64.9	0.73	26	46.31	6.74	7.73
12:13	500	4000	30.6	7.40	13195	75.2	0.68	13	46.31	6.74	7.73
12:17	500	6000	30.7	7.40	13195	83.9	0.68	13	46.31	6.74	7.73
12:21	500	8000	30.7	7.39	13194	88.7	0.68	13	46.31	6.74	7.73
12:25	500	10000	30.7	7.39	13153	89.8	0.67	13	46.31	6.74	7.73

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			
Action Completed?			X	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-78-070

Date	08/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	grey
Purge Method	Low Flow	Casing Volume to Remove	1
Purge Volume Units	gal	Depth to Water (ft bmp)	45.98
Water Quality Meter	YSI	Gallons in Well	4.21
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	71.81
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	60
Water Column in Well	25.83	Total Volume to Remove	4.21
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/18/2020	EB Time	
Sample Time	12:15	MS/MSD Sample ID	
Sample ID	MW-78-070-0820	MS/MSD Sample Time	
Single Filter Turbidity	12	Double Filter Turbidity	4
Without Filter Turbidity	33	Post Sampling Turbidity	
		Purge Date	08/18/2020

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	0.25	1	32.0	7.80	2239	111	2.28	74	46.06	1.15	1.45
12:02	0.25	2	31.7	7.78	2258	115	1.99	38	46.10	1.14	1.46
12:06	0.25	3	31.9	7.87	2272	117	1.76	36	46.10	1.15	1.47
12:10	0.25	4	31.8	7.80	2248	113	1.69	34	46.10	1.14	1.46
12:14	0.25	5	32.0	7.70	2245	112	1.68	33	46.10	1.16	1.47

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-79-104

Date	08/18/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	45.81
Water Quality Meter	YSI	Gallons in Well	9.62
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	104.78
Casing Diameter (in)	2	Odor	none
Water Column in Well	58.97	Pump Intake Depth (ft bmp)	100
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	08/18/2020	EB Sample ID	
Sample Time	10:16	EB Time	
Sample ID	MW-79-104-0820	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	5	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/18/2020

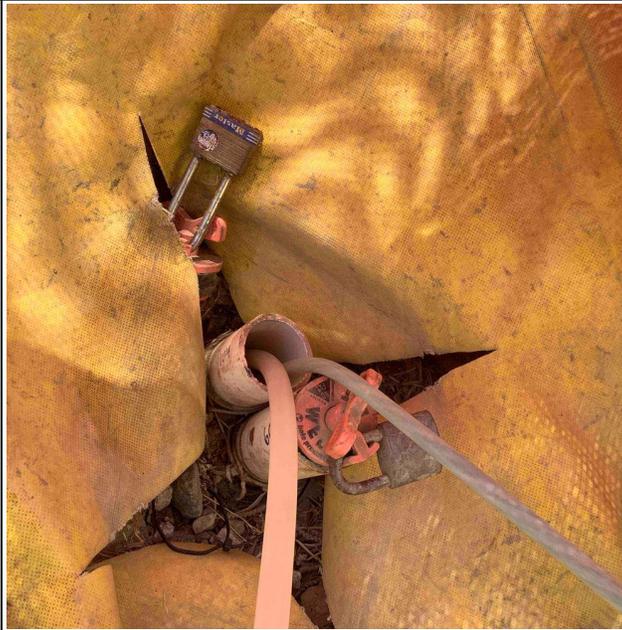
Field Parameters

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)
09:59	500	2000	30.9	7.57	9916	104.1	0.59	24	45.85	4.95	5.81
10:03	500	4000	30.9	7.57	9957	110.3	0.58	5	45.85	4.95	5.81
10:07	500	6000	30.9	7.57	9933	111.1	0.57	5	45.85	4.95	5.81
10:11	500	8000	31.2	7.56	9937	112.2	0.56	5	45.85	4.95	5.81
10:15	500	10000	31.0	7.56	9930	113.0	0.55	5	45.85	4.95	5.81

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			

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-79-060

Date	08/18/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	45.83
Water Quality Meter	YSI	Gallons in Well	2.41
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	60.62
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	58
Water Column in Well	14.79	Total Volume to Remove	
Sample Date	08/18/2020	EB Sample ID	
Sample Time	11:00	EB Time	
Sample ID	MW-79-060-0820	MS/MSD Sample ID	
Duplicate Sample ID	MW-914-0820	MS/MSD Sample Time	
Dup Sample Time	11:10	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	6	Purge Date	08/18/2020

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)
10:43	500	2000	31.1	7.59	3644	118.6	1.12	11	45.87	1.69	2.12
10:45	500	10000	31.1	7.59	3644	123.4	1.29	6	45.87	1.69	2.12
10:47	500	4000	31.0	7.59	3641	119.6	1.14	6	45.87	1.69	2.12
10:51	500	6000	31.0	7.59	3638	121.1	1.23	6	45.87	1.69	2.12
10:55	500	8000	31.1	7.59	3643	122.3	1.24	6	45.87	1.69	2.12

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-80-057

Date	08/18/2020	Sampler	Jb
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	48.65
Water Quality Meter	YSI	Gallons in Well	1.36
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	57.01
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	52
Water Column in Well	8.36	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/18/2020	EB Time	
Sample Time	09:01	MS/MSD Sample ID	
Sample ID	MW-80-057-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	08/18/2020

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)
08:44	500	2000	30.54	7.48	6167	63.9	1.62	4	48.68	2.99	3.62
08:48	500	4000	30.5	7.50	6167	70.3	1.61	3	48.68	2.99	3.62
08:52	500	6000	30.7	7.51	6185	73.0	1.57	3	48.68	2.99	3.62
08:56	500	8000	30.6	7.51	6180	74.0	1.63	3	48.68	2.99	3.62
09:00	500	10000	30.6	7.52	6180	74.9	1.58	3	48.68	2.99	3.62

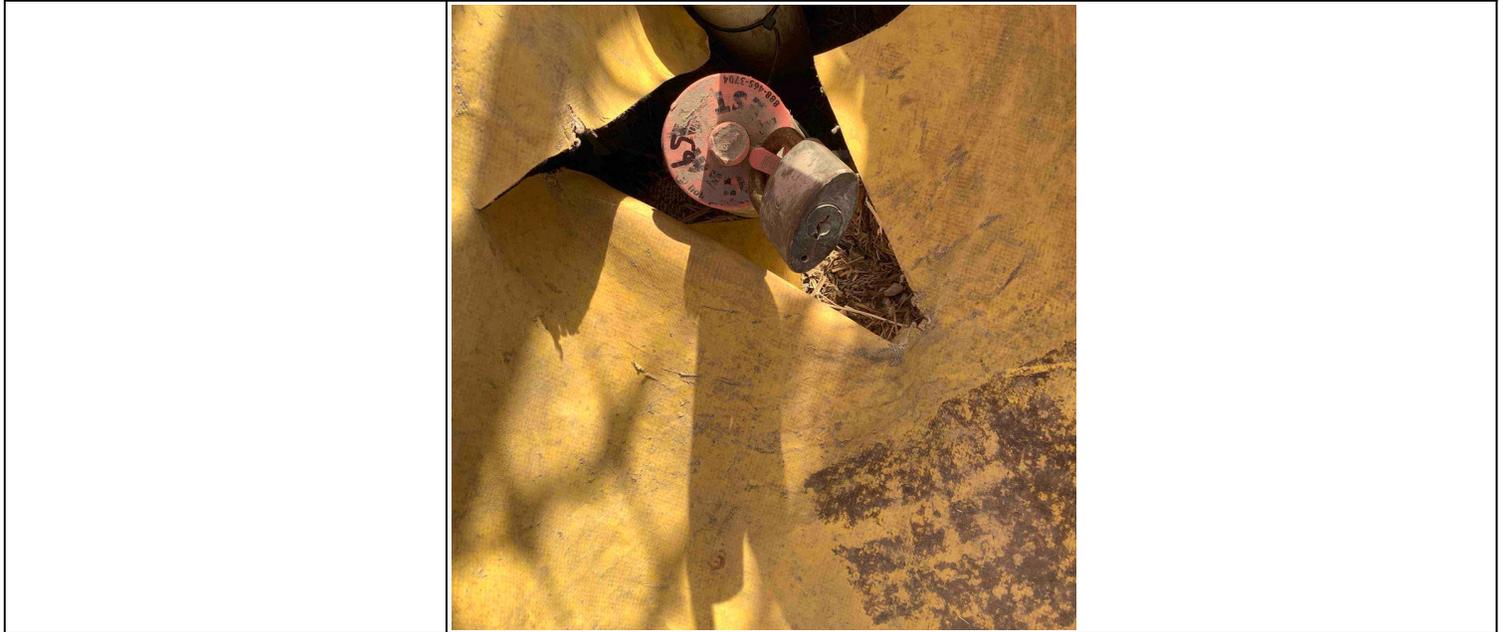
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-80-082

Date	08/18/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	48.68
Water Quality Meter	YSI	Gallons in Well	5.44
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	82.01
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	75
Water Column in Well	33.33	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/18/2020	EB Time	
Sample Time	08:12	MS/MSD Sample ID	
Sample ID	MW-80-082-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	08/18/2020

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)
07:55	500	2000	30.9	7.21	10343	86.7	2.36	16	48.73	5.18	6.06
08:03	500	6000	30.9	7.25	10372	83.2	2.25	6	48.73	5.17	6.06
08:07	500	8000	30.94	7.27	10339	75.4	2.18	6	48.73	5.17	6.05
08:11	500	10000	30.9	7.28	10294	74.5	2.14	6	48.73	5.17	6.06
08:59	500	4000	30.9	7.23	10404	87.4	2.27	6	48.73	5.17	6.06

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-83-245

Date	08/26/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	235
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	08/26/2020	EB Sample ID	
Sample Time	07:44	EB Time	
Sample ID	MW-83-245-0820	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	7	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/26/2020

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)
07:27	500	2000	30.3	7.23	19965	-31	0.30	11	74.00	11.84	13.02
07:31	500	4000	30.3	7.21	20030	-31	0.28	7	74.00	11.85	12.98
07:35	500	6000	30.3	7.19	19985	-30	0.27	7	74.00	11.83	12.98
07:39	500	8000	30.3	7.17	20000	-30	0.25	7	74.00	11.83	13.00
07:43	500	10000	30.3	7.15	20074	-29	0.26	7	74.00	11.88	13.03

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**

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-83-90

Date	08/26/2020	Sampler	Tj
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	73.28
Water Quality Meter	YSI	Gallons in Well	2.92
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	91.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	80
Water Column in Well	17.92	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/26/2020	EB Time	
Sample Time	08:11	MS/MSD Sample ID	
Sample ID	MW-83-90-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	10	Post Sampling Turbidity	
Turbidity		Purge Date	08/26/2020

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)
07:54	500	2000	30.3	7.40	2344	124.1	4.39	25	73.34	1.19	1.52
07:58	500	4000	30.3	7.36	2345	124.9	4.45	10	73.34	1.19	1.52
08:02	500	6000	30.5	7.33	2331	126.2	4.36	10	73.34	1.19	1.52
08:06	500	8000	30.5	7.33	2340	126.1	4.31	10	73.34	1.20	1.52
08:10	500	10000	30.5	7.33	2333	126.0	4.33	10	73.34	1.18	1.51

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-83-180

Date	08/26/2020	Sampler	Tj
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	73.13
Water Quality Meter	YSI	Gallons in Well	17.48
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	180.32
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	170
Water Column in Well	107.19	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/26/2020	EB Time	
Sample Time	07:36	MS/MSD Sample ID	
Sample ID	MW-83-180-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	08/26/2020

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)
07:19	500	2000	29.6	7.76	11060	115.6	1.02	4	73.19	6.25	7.20
07:23	500	4000	30.0	7.74	11080	115.9	0.86	4	73.20	6.25	7.21
07:27	500	6000	30.2	7.72	11120	115.8	0.78	4	73.20	6.26	7.19
07:31	500	8000	30.2	7.72	11073	115.8	0.78	4	73.20	6.24	7.22
07:35	500	10000	30.2	7.72	11085	115.7	0.74	4	73.20	6.23	7.20

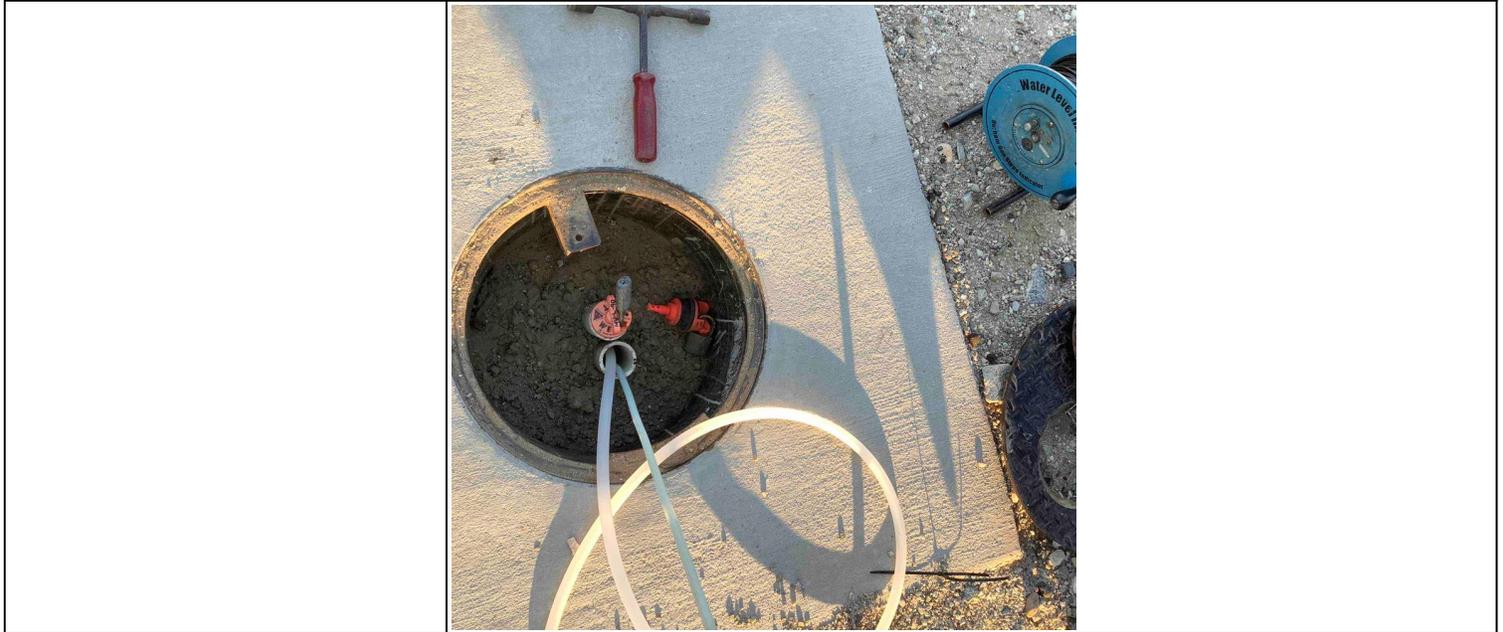
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-83-225

Date	08/26/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	73.99
Water Quality Meter	YSI	Gallons in Well	24.63
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	225.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	214
Water Column in Well	151.01	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/26/2020	EB Time	
Sample Time	08:20	MS/MSD Sample ID	
Sample ID	MW-83-225-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	08/26/2020

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)
08:03	500	2000	29.9	7.45	16004	-32	0.37	48	74.11	9.27	10.38
08:07	500	4000	30.1	7.36	15962	-25	0.32	16	74.11	9.22	10.33
08:11	500	6000	30.1	7.33	15896	-21	0.30	9	74.11	9.21	10.32
08:15	500	8000	30.1	7.32	15924	-20	0.30	9	74.11	9.23	10.31
08:19	500	10000	30.1	7.32	15859	-20	0.29	9	74.11	9.21	10.31

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-85-129

Date	08/21/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	114.16
Water Quality Meter	YSI	Gallons in Well	2.42
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	129.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	122
Water Column in Well	14.84	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-765-Q320
Sample Date	08/21/2020	EB Time	09:30
Sample Time	09:11	MS/MSD Sample ID	
Sample ID	MW-85-129-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	08/21/2020

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	29.8	5.16	2359	118.7	5.33	13	114.20	1.09	1.40
08:58	500	4000	29.8	6.87	2358	119.4	5.17	4	114.20	1.09	1.40
09:02	500	6000	29.8	6.90	2360	116.8	5.21	4	114.20	1.09	1.40
09:06	500	8000	29.9	6.90	2362	116.8	5.21	4	114.20	1.09	1.40
09:10	500	10000	30.0	6.91	2365	117.5	5.15	4	114.20	1.09	1.40

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-85-217

Date	08/21/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	211.5
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	08/21/2020	EB Sample ID	EB-766-Q320
Sample Time	09:51	EB Time	10:30
Sample ID	MW-85-217-0820	MS/MSD Sample ID	
Single Filter Turbidity	3	MS/MSD Sample Time	
Without Filter Turbidity	15	Double Filter Turbidity	1
		Post Sampling Turbidity	
		Purge Date	08/21/2020

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)
09:34	500	2000	29.8	7.38	13474	113.5	0.50	38	113.71	7.69	8.73
09:38	500	4000	30.0	7.24	13471	111.7	0.43	24	113.71	7.73	8.78
09:42	500	6000	30.1	7.35	13477	110.9	0.42	16	113.71	7.70	8.75
09:46	500	8000	30.3	7.35	13439	110.4	0.41	16	113.71	7.69	8.74
09:50	500	10000	30.5	7.34	13426	109.9	0.39	15	113.71	7.70	8.76

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-85-237

Date	08/21/2020	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)	113.67
Water Quality Meter	YSI	Gallons in Well	20.12
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	237
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	231.5
Water Column in Well	123.33	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/21/2020	EB Time	
Sample Time	09:11	MS/MSD Sample ID	
Sample ID	MW-85-237-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	08/21/2020

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	30.1	7.57	15411	114.1	0.40	12	113.77	8.93	10.04
08:58	500	4000	30.6	7.51	16729	113.3	0.44	7	113.77	9.87	11.0
09:02	500	6000	30.9	7.45	18320	112.1	0.46	4	113.77	10.74	11.91
09:06	500	8000	31.0	7.44	18467	111.9	0.46	4	113.7	10.92	12.04
09:10	500	10000	31.0	7.43	18554	111.6	0.46	4	113.77	10.92	12.08

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-90-031

Date	08/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	brown
Purge Method	Low Flow	Casing Volume to Remove	1
Purge Volume Units	gal	Depth to Water (ft bmp)	3.96
Water Quality Meter	YSI	Gallons in Well	4.43
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	31.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	26
Water Column in Well	27.15	Total Volume to Remove	4.43
Did Well Dewater?	No	EB Sample ID	Eb-760-q320
Sample Date	08/18/2020	EB Time	14:00
Sample Time	13:42	MS/MSD Sample ID	
Sample ID	MW-90-031-0820	MS/MSD Sample Time	
Single Filter Turbidity	4	Double Filter Turbidity	
Without Filter Turbidity	18	Post Sampling Turbidity	
		Purge Date	08/18/2020

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)
13:25	0.25	1	27.6	7.28	13016	-151	0.23	33	4.04	7.50	8.48
13:29	0.25	2	27.7	7.26	13029	-153	0.20	18	4.04	7.51	8.49
13:33	0.25	3	27.8	7.23	13044	-149	0.18	18	4.04	7.51	8.50
13:37	0.25	4	27.9	7.22	13124	-143	0.17	18	4.04	7.51	8.50
13:41	0.25	5	28.0	7.20	13210	-140	0.15	18	4.04	7.51	8.50

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-117

Date	08/17/2020	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)	17.21
Water Quality Meter	YSI	Gallons in Well	16.46
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	118.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	107
Water Column in Well	100.90	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/17/2020	EB Time	
Sample Time	14:00	MS/MSD Sample ID	
Sample ID	MW-75-117-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	08/17/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:43	500	2000	33	6.83	11514	105.6	0.44	13	17.29	6.53	7.52
13:47	500	4000	32.5	6.77	11743	96.7	0.34	10	17.29	6.72	7.70
13:51	500	6000	32.2	6.75	11978	91.5	0.31	7	17.29	6.79	7.80
13:55	500	8000	32.2	6.74	12165	90.5	0.27	7	17.29	6.89	7.90
13:59	500	10000	32.3	6.74	12328	89.4	0.25	7	17.29	7.01	8.03

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-033

Date	08/17/2020	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)	16.93
Water Quality Meter	YSI	Gallons in Well	2.11
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	34.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	12.92	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-757-Q320
Sample Date	08/17/2020	EB Time	15:30
Sample Time	14:55	MS/MSD Sample ID	
Sample ID	MW-75-033-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	10	Post Sampling Turbidity	
		Purge Date	08/17/2020

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)
14:38	500	2000	32.1	6.72	5181	103.6	2.14	40	17	2.74	3.35
14:42	500	4000	31.7	6.72	5133	99.8	2.10	26	17	2.72	3.32
14:46	500	6000	30.7	6.72	5098	96.8	2.08	10	17	2.68	3.27
14:50	500	8000	31.7	6.72	5068	93.1	2.02	10	17	2.66	3.26
14:54	500	10000	31.7	6.72	5001	91.9	2.01	10	17	2.64	3.23

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

MW-10D

Date	08/19/2020	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)	74.94
Water Quality Meter	YSI	Gallons in Well	8.49
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	127
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	115.5
Water Column in Well	52.06	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/19/2020	EB Time	
Sample Time	11:49	MS/MSD Sample ID	
Sample ID	MW-10D-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	08/19/2020

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)
11:32	500	2000	30.2	6.88	4239	111.6	1.91	22	75.02	2.23	2.76
11:36	500	4000	30.2	6.88	4244	113.7	1.81	14	75.02	2.24	2.76
11:40	500	6000	30.4	6.86	4247	110.7	1.76	9	75.02	2.24	2.76
11:44	500	8000	30.1	6.84	4259	110.8	1.71	9	75.02	2.25	2.78
11:48	500	10000	30.1	6.85	4270	108.9	1.69	9	75.02	2.27	7.79

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-89-183

Date	08/19/2020	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)	130.40
Water Quality Meter	YSI	Gallons in Well	8.58
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	183
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	173
Water Column in Well	52.60	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-762-Q320
Sample Date	08/19/2020	EB Time	14:40
Sample Time	14:16	MS/MSD Sample ID	
Sample ID	MW-89-183-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	10	Post Sampling Turbidity	
Turbidity		Purge Date	08/19/2020

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)
13:59	500	2000	32.0	6.91	7553	110.4	4.96	28	130.49	4.13	4.91
14:03	500	4000	32.2	6.92	7556	109.0	4.87	20	130.49	4.13	4.92
14:07	500	6000	32.4	6.93	7558	108.2	4.81	11	130.49	4.13	4.92
14:11	500	8000	32.4	6.93	7566	106.2	4.74	10	130.49	4.15	4.94
14:15	500	10000	32.4	6.93	7572	104.8	4.70	10	130.49	4.16	4.96

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-89-273

Date	08/19/2020	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)	130.20
Water Quality Meter	YSI	Gallons in Well	23.58
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	274.75
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	263
Water Column in Well	144.55	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/19/2020	EB Time	
Sample Time	13:35	MS/MSD Sample ID	
Sample ID	MW-89-273-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	7	Post Sampling Turbidity	
Turbidity		Purge Date	08/19/2020

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	31.3	6.94	7809	118.8	5.02	22	130.21	4.30	5.09
13:22	500	4000	31.9	7.00	7811	114.1	5.07	14	130.31	4.30	5.09
13:26	500	6000	32.0	7.02	7822	112.9	5.09	7	130.31	4.31	5.18
13:30	500	8000	32.1	7.04	5824	110.4	5.07	7	130.31	4.32	5.19
13:34	500	10000	32.1	7.05	5826	109.6	5.07	7	130.31	4.32	5.22

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-84-057

Date	08/21/2020	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)	44.19
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	50.5
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	08/21/2020	EB Sample ID	
Sample Time	07:59	EB Time	
Sample ID	MW-84-057-0820	MS/MSD Sample ID	
Single Filter Turbidity	4	MS/MSD Sample Time	
Without Filter Turbidity	17	Double Filter Turbidity	1
		Post Sampling Turbidity	
		Purge Date	08/21/2020

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)
07:42	500	2000	30.6	7.41	2071	113.3	5.32	33	44.32	1.05	1.35
07:46	500	4000	31.5	7.31	2078	112.7	5.15	26	44.32	1.05	1.35
07:50	500	6000	31.6	7.41	2079	112.0	5.09	18	44.32	1.05	1.35
07:54	500	8000	31.6	7.40	2074	112.2	5.14	17	44.32	1.05	1.35
07:58	500	10000	31.6	7.40	2084	110.8	5.11	17	44.32	1.06	1.37

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-84-095

Date	08/20/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	44.20
Water Quality Meter	YSI	Gallons in Well	8.33
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	95.3
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Water Column in Well	51.10	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-763-Q320
Sample Date	08/20/2020	EB Time	14:20
Sample Time	13:41	MS/MSD Sample ID	
Sample ID	MW-84-095-0820	MS/MSD Sample Time	
Duplicate Sample ID	MW-916-0820	Double Filter Turbidity	
Dup Sample Time	13:51	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	08/20/2020
Without Filter Turbidity	6		

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	31.4	7.56	6909	-3.1	0.94	10	44.25	3.32	4.01
13:28	500	4000	31.4	7.55	6909	-2.7	0.94	6	44.28	3.32	4.01
13:32	500	6000	31.4	7.60	6940	--2.8	1.02	6	44.28	3.32	4.01
13:36	500	8000	31.2	7.55	6913	-2.7	0.94	6	44.28	3.32	4.01
13:40	500	10000	31.1	7.55	6906	-2.8	0.94	6	44.28	3.32	4.01

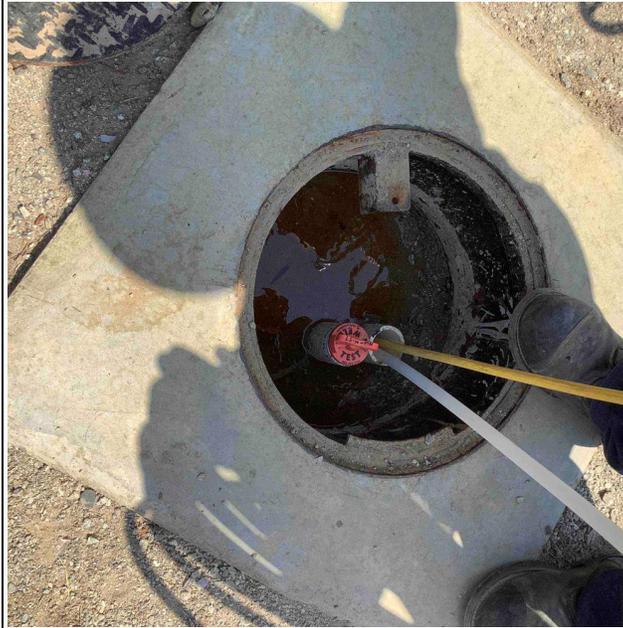
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-84-132

Date	08/21/2020	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)	44.78
Water Quality Meter	YSI	Gallons in Well	14.55
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	134.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	122
Water Column in Well	89.22	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/21/2020	EB Time	
Sample Time	07:18	MS/MSD Sample ID	
Sample ID	MW-84-132-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	08/21/2020

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)
07:01	500	2000	29.9	7.29	7726	116.2	1.31	11	44.88	4.24	5.03
07:05	500	4000	30.0	7.33	7852	114.8	1.05	7	44.88	4.31	5.10
07:09	500	6000	30.4	7.29	9102	113.5	0.82	4	44.88	5.00	5.91
07:13	500	8000	30.6	7.29	9320	112.1	0.78	4	44.88	5.17	6.06
07:17	500	10000	30.4	7.29	9403	111.0	0.75	4	44.88	5.21	6.09

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-84-193

Date	08/20/2020	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)	44.79
Water Quality Meter	YSI	Gallons in Well	24.40
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	194.41
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	183
Water Column in Well	149.62	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-762-Q320
Sample Date	08/20/2020	EB Time	14:40
Sample Time	13:40	MS/MSD Sample ID	
Sample ID	MW-84-193-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	08/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:23	500	2000	31.8	6.97	13281	126.3	0.94	12	44.92	7.56	8.61
13:27	500	4000	32.0	7.04	13737	118.6	1.01	10	44.92	7.83	8.89
13:31	500	6000	32.00	7.07	14089	114.9	1.05	5	44.92	7.97	9.01
13:35	500	8000	32.0	7.09	14209	112.7	1.08	4	44.92	8.08	9.14
13:39	500	10000	32.0	7.10	14311	111.7	1.11	4	44.92	8.14	9.18

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

MW-87-192

Date	08/26/2020	Sampler	Tj
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.80
Water Quality Meter	YSI	Gallons in Well	16.69
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	193.15
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	182
Water Column in Well	102.35	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-772-Q320
Sample Date	08/26/2020	EB Time	10:45
Sample Time	10:25	MS/MSD Sample ID	
Sample ID	MW-87-192-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	08/26/2020

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)
10:08	500	2000	31.1	7.52	8849	123.3	0.92	3	90.85	4.85	5.71
10:12	500	4000	31.3	7.54	8701	123.9	0.94	3	90.88	4.93	5.77
10:16	500	6000	31.4	7.54	8729	124.0	0.96	3	90.88	4.97	5.73
10:20	500	8000	31.5	7.56	8490	120.6	0.97	3	90.88	4.76	5.63
10:24	500	10000	31.6	7.56	8647	120.6	0.97	3	90.88	4.83	5.58

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-87-275

Date	08/26/2020	Sampler	Tj
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.93
Water Quality Meter	YSI	Gallons in Well	13.91
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	176.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	265
Water Column in Well	85.27	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/26/2020	EB Time	
Sample Time	09:16	MS/MSD Sample ID	
Sample ID	MW-87-275-0820	MS/MSD Sample Time	
Duplicate Sample ID	MW-918-0820	Double Filter Turbidity	
Dup Sample Time	09:26	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	08/26/2020
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)
08:59	500	2000	30.6	7.49	10700	122.7	1.44	9	100.0	6.00	6.93
09:03	500	4000	30.8	7.49	10638	125.1	0.99	8	100.0	5.94	6.89
09:07	500	6000	30.9	7.41	10626	123.0	0.83	8	100.0	5.95	6.85
09:11	500	8000	31.1	7.38	10526	120.8	0.85	8	100.0	6.00	6.84
09:15	500	10000	31.2	7.45	10511	121.4	0.96	8	100.0	5.92	6.87

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-87-109

Date	08/26/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	90.26
Water Quality Meter	YSI	Gallons in Well	3.06
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	109.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	105
Water Column in Well	18.74	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/26/2020	EB Time	
Sample Time	10:10	MS/MSD Sample ID	
Sample ID	MW-87-109-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	08/26/2020

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)
09:53	500	2000	30.1	7.99	3064	83	1.58	12	90.33	1.58	1.98
09:57	500	4000	29.9	7.96	2833	84	1.34	5	90.33	1.45	1.83
10:01	500	6000	29.9	7.96	2817	85	1.32	5	90.33	1.44	1.82
10:05	500	8000	30.0	7.95	2795	86	1.26	5	90.33	1.43	1.80
10:09	500	10000	29.9	7.96	2748	87	1.17	5	90.33	1.41	1.77

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		

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-87-139

Date	08/26/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	90.24
Water Quality Meter	YSI	Gallons in Well	7.95
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	139.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	134
Water Column in Well	48.76	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/26/2020	EB Time	
Sample Time	09:19	MS/MSD Sample ID	
Sample ID	MW-87-139-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	08/26/2020

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)
09:02	500	2000	33.1	7.87	7399	74	0.60	6	90.30	4.04	4.82
09:06	500	4000	32.0	7.83	7401	70	0.57	3	90.30	4.03	4.80
09:10	500	6000	31.9	7.82	7398	68	0.54	3	90.30	4.03	4.81
09:14	500	8000	31.8	7.81	7393	66	0.50	3	90.30	4.03	4.81
09:18	500	10000	31.9	7.82	7394	63	0.48	3	90.30	4.03	4.80

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-86-140

Date	08/25/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	08/25/2020	EB Sample ID	
Sample Time	10:10	EB Time	
Sample ID	MW-86-140-0820	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	8	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/25/2020

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)
09:53	500	2000	24.0	7.88	13211	-25	1.53	24	12.66	7.61	8.58
09:57	500	4000	23.1	7.88	14932	-35	1.09	16	12.66	8.89	9.70
10:01	500	6000	23.3	7.86	15001	-40	0.84	8	12.66	8.73	9.75
10:05	500	8000	23.4	7.86	15002	-45	0.75	8	12.66	8.73	9.75
10:09	500	10000	23.4	7.85	15088	-50	0.67	8	12.66	8.73	9.75

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		
Action Completed?			X	

Site: PGE Topock
Topock, CA

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-86-120

Date	08/25/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	12.74
Water Quality Meter	YSI	Gallons in Well	18.03
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	123.27
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	117
Water Column in Well	110.53	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-769-q320
Sample Date	08/25/2020	EB Time	11:30
Sample Time	10:56	MS/MSD Sample ID	
Sample ID	MW-86-120-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	08/25/2020

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)
10:39	500	2000	22.4	7.93	12091	-54	0.96	19	12.90	6.92	7.85
10:43	500	4000	22.6	7.92	12093	-57	0.84	10	12.90	6.93	7.86
10:47	500	6000	22.7	7.90	12111	-56	0.58	5	12.90	6.93	7.87
10:51	500	8000	22.7	7.89	12109	-56	0.55	5	12.90	6.93	7.87
10:55	500	10000	22.7	7.88	12109	-55	0.50	5	12.90	6.94	7.88

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-86-066

Date	08/25/2020	Sampler	Tj
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	11.71
Water Quality Meter	YSI	Gallons in Well	9.39
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	69.25
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	60
Water Column in Well	57.54	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/25/2020	EB Time	
Sample Time	10:16	MS/MSD Sample ID	MW-86-066-0820
Sample ID	MW-86-066-0820	MS/MSD Sample Time	10:16
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	08/25/2020

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)
09:59	500	2000	23.5	7.73	3120	-123.3	1.03	7	11.77	1.63	2.02
10:03	500	4000	23.7	7.50	5560	-60.4	0.96	6	11.78	1.76	2.20
10:07	500	6000	22.1	7.46	5756	-55.4	0.74	6	11.78	3.19	3.88
10:11	500	8000	22.1	7.45	5870	-49.1	0.68	6	11.78	3.29	3.95
10:15	500	10000	22.0	7.43	6044	-45.6	0.64	6	11.78	3.35	4.05

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-86-030

Date	08/25/2020	Sampler	Tj
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	12.10
Water Quality Meter	YSI	Gallons in Well	3.38
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	32.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	25
Water Column in Well	20.70	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-770-Q320
Sample Date	08/25/2020	EB Time	11:20
Sample Time	11:01	MS/MSD Sample ID	
Sample ID	MW-86-030-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	08/25/2020

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)
10:44	500	2000	22.6	7.33	1571	57.8	0.33	20	12.15	0.80	1.00
10:48	500	4000	22.8	7.23	1524	62.4	0.31	8	12.15	0.77	0.98
10:52	500	6000	22.7	7.18	1519	54.90	0.32	8	12.15	0.76	0.99
10:56	500	8000	22.7	7.28	1513	60.3	0.33	8	12.15	0.75	0.95
11:00	500	10000	22.9	7.31	1494	66.1	0.35	8	12.15	0.75	0.96

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-76-218

Date	08/18/2020	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)	25.78
Water Quality Meter	YSI	Gallons in Well	31.53
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	219.09
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	213
Water Column in Well	193.31	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/18/2020	EB Time	
Sample Time	08:07	MS/MSD Sample ID	
Sample ID	MW-76-218-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	08/18/2020

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)
07:50	500	2000	29.3	8.39	17653	88.1	0.49	12	25.88	10.33	11.48
07:54	500	4000	29.7	8.44	17932	92.0	0.35	8	25.88	10.49	11.64
07:58	500	6000	29.8	8.46	17979	96.4	0.29	5	25.88	10.57	11.71
08:02	500	8000	30.1	8.48	18363	100.2	0.26	5	25.88	10.85	12.03
08:06	500	10000	30.1	8.46	19186	103.7	0.25	5	25.88	11.52	12.92

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-76-181

Date	08/18/2020	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)	26.28
Water Quality Meter	YSI	Gallons in Well	25.51
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	182.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	176
Water Column in Well	156.43	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/18/2020	EB Time	
Sample Time	08:53	MS/MSD Sample ID	
Sample ID	MW-76-181-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	08/18/2020

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)
08:36	500	2000	29	7.63	20731	113.8	0.31	12	26.34	12.36	13.52
08:40	500	4000	29.2	7.51	20919	111	0.23	7	26.34	12.44	13.59
08:44	500	6000	29.3	7.46	20914	110	0.23	5	26.34	12.48	13.59
08:48	500	8000	29.2	7.44	20898	108.9	0.20	5	26.34	12.46	13.57
08:52	500	10000	29.2	7.44	20868	107.4	0.20	5	26.34	12.44	13.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-76-156

Date	08/18/2020	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)	25.97
Water Quality Meter	YSI	Gallons in Well	21.17
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	155.76
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	151
Water Column in Well	129.79	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/18/2020	EB Time	
Sample Time	09:39	MS/MSD Sample ID	
Sample ID	MW-76-156-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	08/18/2020

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)
09:22	500	2000	29.3	7.36	17169	114.4	0.50	15	26.04	10.07	11.19
09:26	500	4000	29.8	7.40	17213	109.3	0.23	10	26.04	10.09	11.22
09:30	500	6000	30.6	7.41	17283	109.9	0.21	6	26.04	10.06	11.11
09:34	500	8000	30.2	7.42	17302	110.3	0.20	6	26.04	10.08	11.22
09:38	500	10000	30.2	7.43	17333	111.1	0.19	6	26.04	10.09	11.23

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-76-039

Date	08/18/2020	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)	25.37
Water Quality Meter	YSI	Gallons in Well	2.11
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	38.29
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	34
Water Column in Well	12.92	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/18/2020	EB Time	
Sample Time	10:20	MS/MSD Sample ID	
Sample ID	MW-76-039-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	14	Post Sampling Turbidity	
		Purge Date	08/18/2020

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)
10:03	500	2000	30.1	7.2	4299	112.9	1.90	40	25.47	2.26	2.78
10:07	500	4000	30.1	7.21	4268	110.4	1.94	22	25.47	2.25	2.76
10:11	500	6000	30.1	7.22	4230	108.4	2.00	14	25.47	2.22	2.74
10:15	500	8000	30.1	7.23	4230	108.9	2.04	14	25.47	2.23	2.75
10:19	500	10000	30.1	7.24	4214	107.6	2.04	14	25.47	2.22	2.71

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-75-337

Date	08/17/2020	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)	19.60
Water Quality Meter	YSI	Gallons in Well	51.94
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	338.05
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	327
Water Column in Well	318.45	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/17/2020	EB Time	
Sample Time	13:06	MS/MSD Sample ID	
Sample ID	MW-75-337-0820	MS/MSD Sample Time	
Duplicate Sample ID	MW-913-0820	Double Filter Turbidity	
Dup Sample Time	13:16	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	08/17/2020
Without Filter Turbidity	7		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:49	500	2000	32	6.94	31319	-134.2	0.38	15	19.67	19.29	20.30
12:53	500	4000	32	6.90	31247	-132.5	0.30	10	19.67	19.29	20.34
12:57	500	6000	31.9	6.87	31422	-135.2	0.26	7	19.67	19.31	20.41
13:01	500	8000	31.9	6.84	31502	-135.9	0.24	7	19.67	19.32	20.44
13:05	500	10000	31.9	6.84	31588	-136.1	0.23	7	19.67	19.34	20.45

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-82-112

Date	08/25/2020	Sampler	TJ
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	28.66
Water Quality Meter	YSI	Gallons in Well	13.95
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	114.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	102
Water Column in Well	85.54	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/25/2020	EB Time	
Sample Time	07:53	MS/MSD Sample ID	
Sample ID	MW-82-112-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	08/25/2020

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)
07:36	500	2000	25.9	7.21	7771	58.8	1.10	6	28.70	4.29	5.05
07:40	500	4000	25.9	7.23	7832	80.2	1.05	6	28.72	4.34	5.10
07:44	500	6000	25.8	7.27	7894	89.2	1.0	6	28.73	4.35	5.12
07:48	500	8000	25.9	7.29	7897	95.0	0.80	6	28.73	4.36	5.13
07:52	500	10000	25.8	7.31	7919	100.3	0.76	6	28.73	4.38	5.14

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-82-168

Date	08/25/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	28.74
Water Quality Meter	YSI	Gallons in Well	23.01
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	169.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	141.06	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/25/2020	EB Time	
Sample Time	08:52	MS/MSD Sample ID	
Sample ID	MW-82-168-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	08/25/2020

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)
08:35	500	2000	26.2	7.72	18342	-181	2.16	7	28.85	10.83	11.92
08:39	500	4000	26.4	7.71	18868	-194	0.90	6	28.85	11.17	12.26
08:43	500	6000	26.3	7.71	18910	-184	0.90	6	28.80	11.20	12.25
08:47	500	8000	26.5	7.70	18922	-181	0.87	6	28.85	11.20	12.25
08:51	500	10000	26.5	7.70	18930	-179	0.80	6	28.85	11.21	12.25

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-82-198

Date	08/25/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	28.13
Water Quality Meter	YSI	Gallons in Well	27.94
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	199.45
Casing Material	PVC	Odor	sulphur
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	188
Water Column in Well	171.32	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/25/2020	EB Time	
Sample Time	08:01	MS/MSD Sample ID	
Sample ID	MW-82-198-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	08/25/2020

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)
07:44	500	2000	27.4	7.85	11049	-188	1.06	5	28.20	6.26	7.18
07:48	500	4000	27.2	7.80	19314	-233	0.97	3	28.20	6.99	8.00
07:52	500	6000	26.9	7.90	19680	-228	0.87	3	28.20	10.73	11.84
07:56	500	8000	26.7	7.93	19913	-224	0.70	3	28.20	11.86	12.97
08:00	500	10000	26.8	7.95	20057	-222	0.65	3	28.2	11.99	13.10

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-82-046

Date	08/25/2020	Sampler	Tj
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	29.03
Water Quality Meter	YSI	Gallons in Well	3.05
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	47.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	40
Water Column in Well	18.68	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/25/2020	EB Time	
Sample Time	08:46	MS/MSD Sample ID	
Sample ID	MW-82-046-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	08/25/2020

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)
08:29	500	2000	26.2	7.18	13100	-104.9	1.57	20	29.10	7.32	8.26
08:33	500	4000	26.0	7.16	10857	-90.1	0.78	9	29.13	6.13	7.03
08:37	500	6000	25.9	7.16	10796	-88.7	0.75	9	29.13	6.10	7.01
08:41	500	8000	25.8	7.16	10960	-88.0	0.70	9	29.13	6.21	7.13
08:45	500	10000	25.8	7.16	11110	-88.7	0.65	9	29.13	6.30	7.24

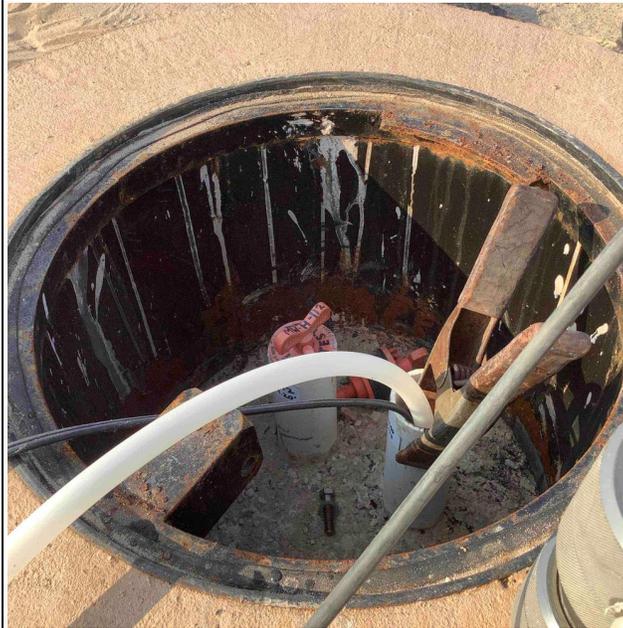
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-77-158

Date	08/19/2020	Sampler	Jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	gal	Depth to Water (ft bmp)	23.98
Water Quality Meter	YSI	Gallons in Well	22.20
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	160.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	148
Water Column in Well	136.13	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	EB-761-Q320
Sample Date	08/19/2020	EB Time	14:15
Sample Time	13:44	MS/MSD Sample ID	
Sample ID	MW-77-158-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	08/19/2020

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)
13:27	0.5	2	28.4	7.58	21805	-150	0.97	3	24.10	12.18	13.31
13:31	0.5	4	28.4	7.58	21799	-132	0.17	3	24.10	12.17	13.30
13:35	0.5	6	28.4	7.57	21783	-125	0.14	3	24.10	12.16	13.29
13:39	0.5	8	28.4	7.57	21805	-119	0.11	3	24.10	12.18	13.31
13:43	0.5	10	28.4	7.57	21804	-115	0.10	3	24.10	12.17	13.30

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-77-187

Date	08/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	gal	Depth to Water (ft bmp)	23.84
Water Quality Meter	YSI	Gallons in Well	26.95
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	189.09
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	177
Water Column in Well	165.25	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/19/2020	EB Time	
Sample Time	13:01	MS/MSD Sample ID	
Sample ID	MW-77-187-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	08/19/2020

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)
12:44	0.5	2	28.7	8.21	24710	-55.5	0.42	5	23.90	13.98	15.12
12:48	0.5	4	28.7	8.28	24967	-50.7	0.24	5	23.90	14.02	15.14
12:52	0.5	6	28.7	8.31	24954	-47.0	0.17	5	23.90	14.02	15.14
12:56	0.5	8	28.6	8.32	24885	-50	0.13	5	23.90	14.01	15.13
13:00	0.5	10	28.7	8.32	24962	-59	0.10	5	23.90	14.00	15.13

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-267

Date	08/17/2020	Sampler	jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	17.32
Water Quality Meter	YSI	Gallons in Well	40.98
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	268.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	257.
Water Column in Well	251.26	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/17/2020	EB Time	
Sample Time	13:16	MS/MSD Sample ID	
Sample ID	MW-75-267-0820	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	0
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	08/17/2020

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)
01:15	500	10000	33.2	7.40	27095	-162.1	0.39	2	17.37	14.50	15.70
12:59	500	2000	33.7	7.17	27969	-108.6	0.80	6	17.37	14.50	15.70
13:03	500	4000	33.4	7.29	28074	-159.8	0.44	2	17.37	14.50	15.70
13:07	500	6000	33.2	7.34	27915	-160.1	0.42	2	17.37	14.50	15.70
13:11	500	8000	33.2	7.38	28017	-161.2	0.40	2	17.37	14.50	15.70

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-202

Date	08/17/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	17.59
Water Quality Meter	YSI	Gallons in Well	30.55
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	204.31
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	192
Water Column in Well	187.31	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-756-Q320
Sample Date	08/17/2020	EB Time	15:30
Sample Time	14:39	MS/MSD Sample ID	
Sample ID	MW-75-202-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	0
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	08/17/2020

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)
14:22	500	2000	32.0	7.54	20163	-100.9	0.23	14	17.64	10.40	11.61
14:26	500	4000	32.0	7.54	20175	-126.5	0.20	4	17.64	10.40	12.61
14:30	500	6000	32.3	7.57	20296	-128.6	0.17	4	17.64	10.40	11.61
14:34	500	8000	32.3	7.58	20340	-129.7	0.17	4	17.64	10.40	11.61
14:38	500	10000	32.3	7.59	20380	--130.6	0.15	4	17.64	10.40	11.61

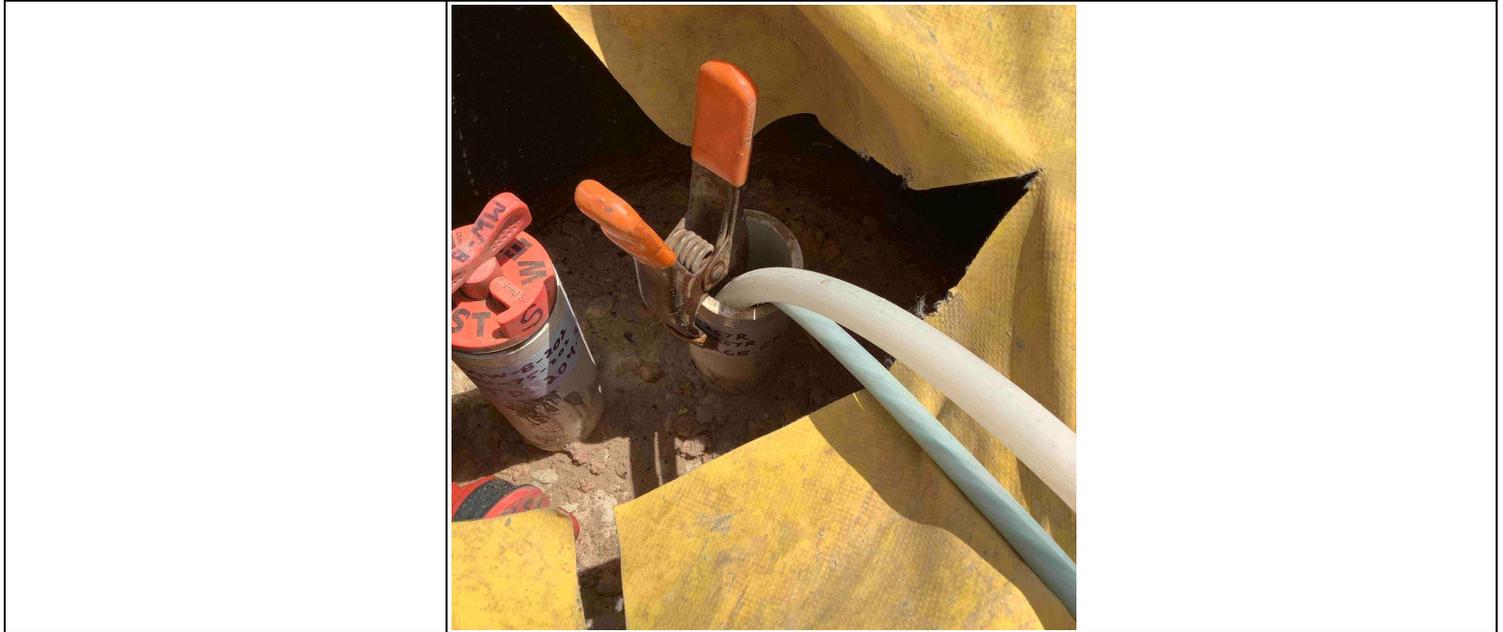
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-77-102

Date	08/19/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	23.27
Water Quality Meter	YSI	Gallons in Well	13.28
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	104.66
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	92
Water Column in Well	81.39	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/19/2020	EB Time	
Sample Time	10:51	MS/MSD Sample ID	
Sample ID	MW-77-102-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	08/19/2020

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)
10:34	500	2000	27.9	7.18	8730	59.9	0.14	14	23.32	4.57	5.37
10:38	500	4000	27.9	7.18	8719	62.4	0.12	3	23.32	4.57	5.37
10:42	500	6000	27.9	7.18	8729	63.9	0.12	3	23.32	4.57	5.37
10:46	500	8000	27.9	7.18	8730	64.8	0.11	3	23.32	4.57	5.37
10:50	500	10000	27.9	7.18	8759	65.0	0.10	3	23.32	4.57	5.37

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-92-102

Date	08/20/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	92
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	08/20/2020	EB Sample ID	
Sample Time	09:16	EB Time	
Sample ID	MW-92-102-0820	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	4	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/20/2020

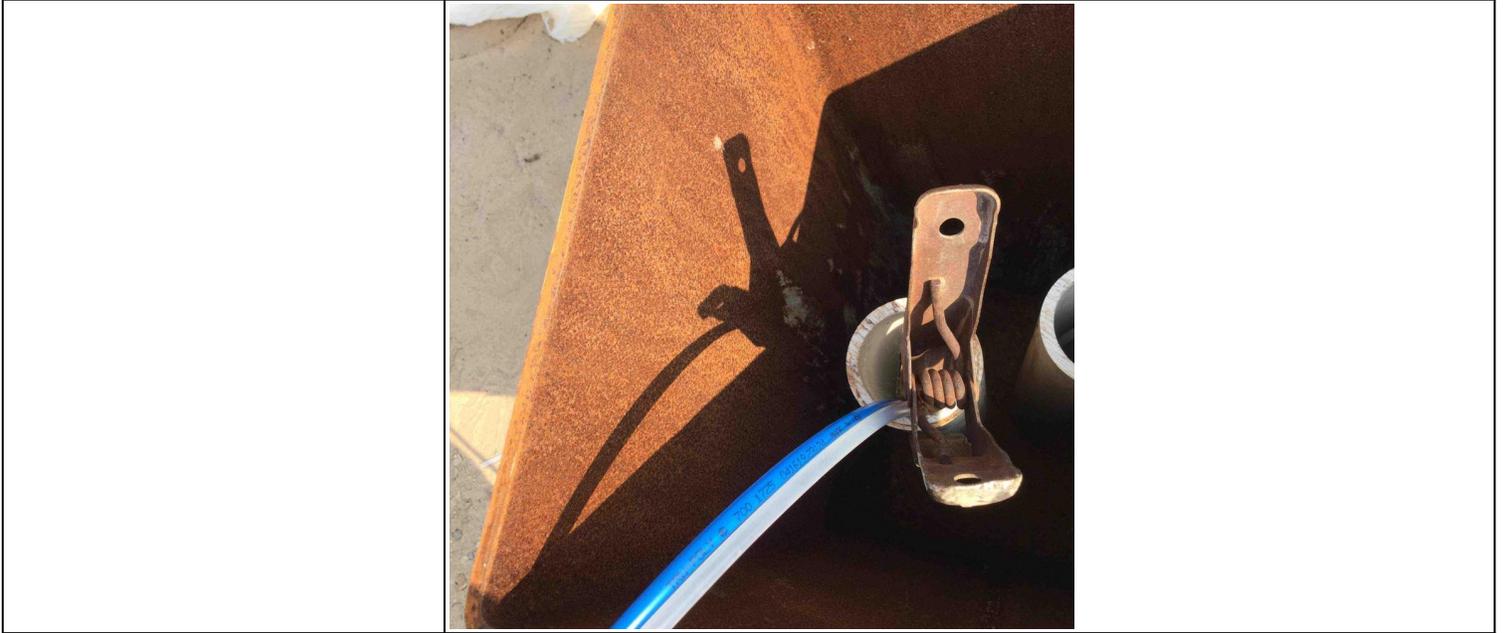
Field Parameters

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)
08:59	500	2000	30.6	7.27	4018	102.2	0.62	17	5.90	2.11	2.61
09:03	500	4000	30.4	7.33	4012	105.6	0.40	12	5.90	2.11	2.61
09:07	500	6000	30.3	7.40	4016	106.6	0.34	6	5.90	2.10	2.61
09:11	500	8000	30.3	7.41	4019	106.1	0.33	4	5.90	2.11	2.61
09:15	500	10000	30.3	7.41	4026	105.6	0.33	4	5.90	2.11	2.61

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	

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-92-122

Date	08/20/2020	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)	6.18
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	123.08
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	117
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	08/20/2020	EB Sample ID	
Sample Time	08:23	EB Time	
Sample ID	MW-92-122-0820	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	17	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/20/2020

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)
08:06	500	2000	30.4	7.43	15772	62.6	0.83	44	6.28	9.16	10.26
08:10	500	4000	30.6	7.47	15808	62.1	0.61	26	6.28	9.16	10.28
08:14	500	6000	30.5	7.49	15820	58.5	0.55	18	6.28	9.17	10.28
08:18	500	8000	30.4	7.49	15787	52.9	0.45	17	6.28	9.15	10.26
08:22	500	10000	30.4	7.50	15795	53.0	0.42	17	6.28	9.16	10.27

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	

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-92-072

Date	08/20/2020	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)	5.33
Water Quality Meter	YSI	Gallons in Well	10.95
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	72.45
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	62
Water Column in Well	67.12	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/20/2020	EB Time	
Sample Time	10:00	MS/MSD Sample ID	
Sample ID	MW-92-072-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	08/20/2020

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)
09:43	500	2000	29.6	7.42	2382	110.9	0.52	20	5.41	1.21	1.54
09:47	500	4000	29.4	7.39	2374	112.3	0.37	14	5.41	1.22	1.64
09:51	500	6000	29.4	7.47	2360	111.7	0.29	8	5.41	1.20	1.63
09:55	500	8000	29.4	7.47	2350	110.9	0.28	7	5.41	1.20	1.60
09:59	500	10000	29.4	7.47	2341	109.5	0.27	7	5.41	1.19	1.58

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

MW-92-037

Date	08/20/2020	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)	5.41
Water Quality Meter	YSI	Gallons in Well	5.15
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	37
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	27
Water Column in Well	31.59	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/20/2020	EB Time	
Sample Time	10:34	MS/MSD Sample ID	MW-92-037-0820 MSMSD
Sample ID	MW-92-037-0820	MS/MSD Sample Time	10:34
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	08/20/2020

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)
10:17	500	2000	29.8	7.39	1768	110.1	0.39	18	5.52	0.89	1.15
10:21	500	4000	29.8	7.39	1737	106.5	0.33	12	5.52	0.87	1.13
10:25	500	6000	29.8	7.39	1715	102.6	0.30	7	5.52	0.86	1.11
10:29	500	8000	29.8	7.39	1702	100.2	0.27	7	5.52	0.84	1.11
10:33	500	10000	29.8	7.39	1692	99.3	0.25	7	5.52	0.82	1.09

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

MW-77-046

Date	08/19/2020	Sampler	jecte
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	1
Purge Volume Units	gal	Depth to Water (ft bmp)	23.25
Water Quality Meter	YSI	Gallons in Well	3.27
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	43.28
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	36
Water Column in Well	20.03	Total Volume to Remove	3.27
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/19/2020	EB Time	
Sample Time	12:18	MS/MSD Sample ID	MW-77-046-0820 MSMSD
Sample ID	MW-77-046-0820	MS/MSD Sample Time	12:18
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	15	Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
12:01	0.25	1	27.9	7.36	8144	-87.2	0.35	165	23.30	4.24	5.00
12:05	0.25	2	27.8	7.36	7987	39	0.22	112	23.35	4.16	4.91
12:09	0.25	3	27.7	7.36	7806	-89	0.18	16	23.35	4.07	4.81
12:13	0.25	4	27.6	7.37	7685	-87.0	0.12	15	23.35	4.01	4.75
12:17	0.25	5	27.6	7.37	7663	-86.6	0.10	15	23.35	3.99	4.73

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-91-045

Date	08/20/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	8.48
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	45.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	35
Water Column in Well	36.52	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/20/2020	EB Time	
Sample Time	11:29	MS/MSD Sample ID	
Sample ID	MW-91-045-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	08/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:12	500	2000	27.0	7.96	2623	-80.4	0.12	6	8.52	1.29	1.64
11:16	500	4000	27.1	7.95	2625	-83.5	0.11	2	8.52	1.20	1.64
11:20	500	6000	27.0	7.94	2626	-86.4	0.11	2	8.52	1.29	1.64
11:24	500	8000	27.0	7.94	2627	-87.4	0.10	2	8.52	1.29	1.64
11:28	500	10000	27.0	7.93	2633	-88.5	0.09	2	8.52	1.29	1.64

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

MW-91-120

Date	08/20/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	8.85
Water Quality Meter	YSI	Gallons in Well	18.13
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	120.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	110
Water Column in Well	111.15	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/20/2020	EB Time	
Sample Time	10:41	MS/MSD Sample ID	
Sample ID	MW-91-120-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	08/20/2020

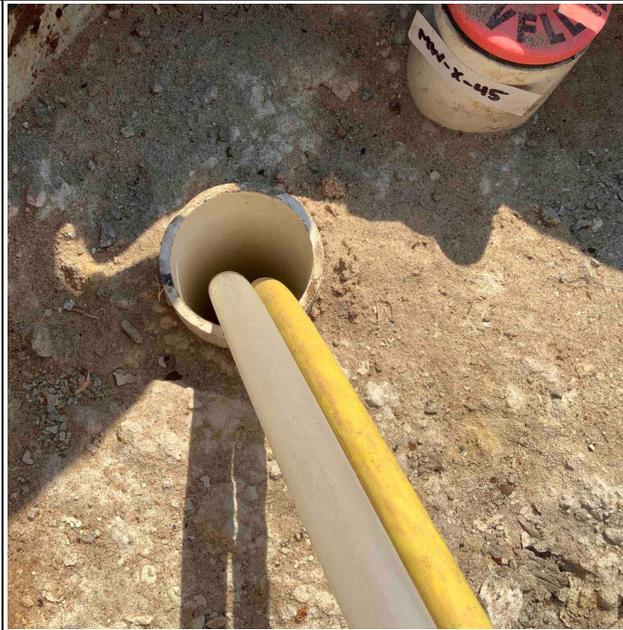
Field Parameters

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)
10:24	500	2000	26.4	7.58	10289	-111.1	0.16	5	8.89	0.62	6.50
10:28	500	4000	26.4	7.58	10286	-111.7	0.15	2	8.89	5.62	6.50
10:32	500	6000	26.4	7.58	10275	-112.8	0.14	2	8.89	5.62	6.50
10:36	500	8000	26.4	7.58	10261	-113.8	0.14	2	8.89	5.62	6.50
10:40	500	10000	26.4	7.58	10254	-114.6	0.13	2	8.89	5.62	6.50

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-91-170

Date	08/20/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	8.78
Water Quality Meter	YSI	Gallons in Well	26.74
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	172.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	160
Water Column in Well	163.93	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/20/2020	EB Time	
Sample Time	09:37	MS/MSD Sample ID	
Sample ID	MW-91-170-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	08/20/2020

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)
09:21	500	2000	26.5	8.24	12132	-224.0	0.20	7	8.82	6.72	7.68
09:25	500	4000	26.3	8.26	12135	-220.5	0.17	3	8.82	6.72	7.68
09:29	500	6000	25.3	8.27	12140	-218.0	0.16	3	8.82	6.72	7.68
09:33	500	8000	26.3	8.28	12145	-217.3	0.15	3	8.82	6.72	7.68
09:37	500	10000	26.3	8.28	12142	-216.3	0.14	3	8.82	6.72	7.68

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-91-320

Date	08/20/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	10.99
Water Quality Meter	YSI	Gallons in Well	50.66
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	321.59
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	310
Water Column in Well	310.60	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/20/2020	EB Time	
Sample Time	08:34	MS/MSD Sample ID	
Sample ID	MW-91-320-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	08/20/2020

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)
08:17	500	2000	26.4	7.66	32639	-230.1	0.18	9	11.03	19.75	20.65
08:21	500	4000	26.43	7.67	32623	-230.3	0.15	3	11.03	19.75	20.65
08:25	500	6000	26.4	7.68	32632	-230.4	0.14	3	11.03	19.75	20.65
08:29	500	8000	26.4	7.68	32620	-231.3	0.13	3	11.03	19.76	20.65
08:33	500	10000	26.4	7.69	32667	-232.0	0.13	3	11.03	19.75	20.65

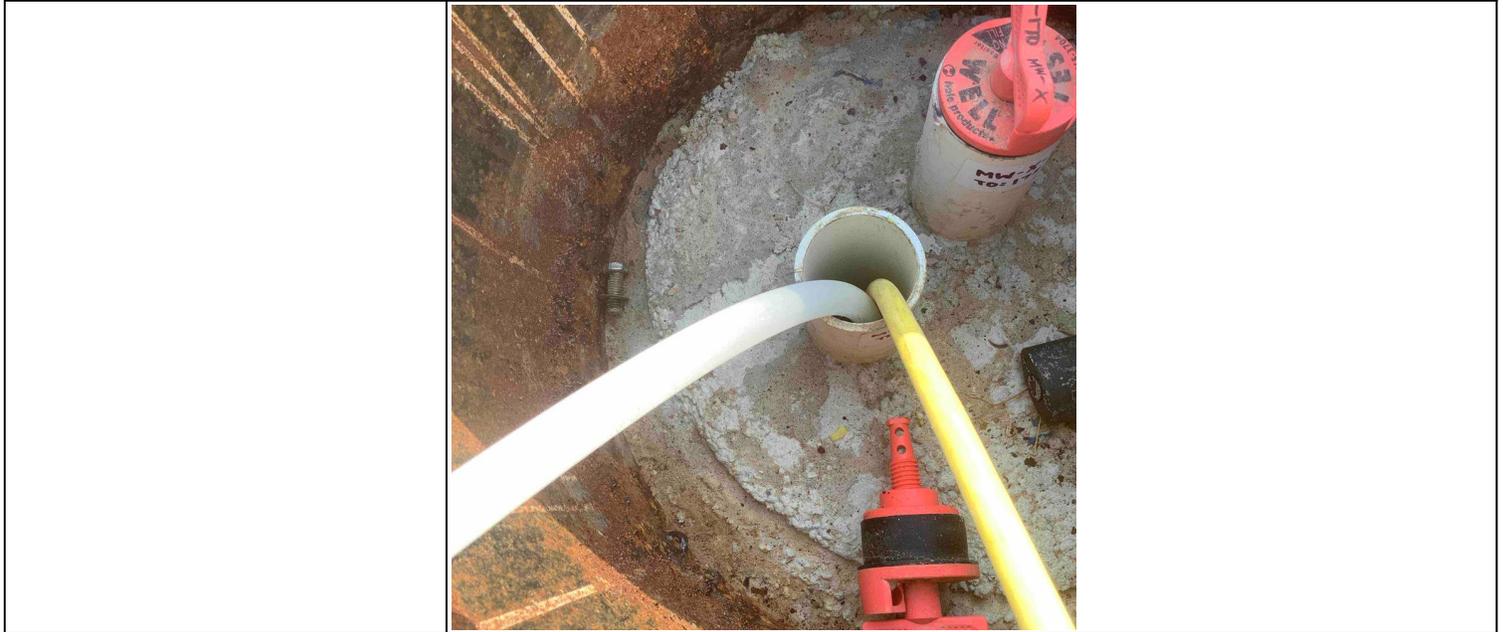
Well Integrity Checklist

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

MW-94-030

Date	08/24/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	10.89
Water Quality Meter	YSI	Gallons in Well	3.53
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	32.52
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	20
Water Column in Well	21.63	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-768-q320
Sample Date	08/24/2020	EB Time	13:30
Sample Time	13:08	MS/MSD Sample ID	
Sample ID	MW-94-030-0820	MS/MSD Sample Time	
Duplicate Sample ID	Mw-917-0820	Double Filter Turbidity	
Dup Sample Time	13:18	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	08/24/2020
Without Filter Turbidity	5		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:51	500	2000	32.8	7.07	1397	85	0.23	26	10.96	0.69	0.91
12:55	500	4000	32.7	7.02	1395	93	0.21	14	10.96	0.69	0.90
12:59	500	6000	32.7	6.98	1388	97	0.18	5	10.96	0.69	0.90
13:03	500	8000	32.8	6.98	1389	97	0.17	5	10.96	0.69	0.90
13:07	500	10000	32.8	6.97	1390	98	0.17	5	10.96	0.69	0.90

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-94-100

Date	08/24/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	10.64
Water Quality Meter	YSI	Gallons in Well	14.93
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	102.18
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Water Column in Well	91.54	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/24/2020	EB Time	
Sample Time	12:35	MS/MSD Sample ID	
Sample ID	MW-94-100-0820	MS/MSD Sample Time	
Single Filter Turbidity	10	Double Filter Turbidity	3
Without Filter Turbidity	22	Post Sampling Turbidity	
		Purge Date	08/24/2020

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)
12:18	500	2000	36.6	7.12	1615	79	0.22	85	10.73	0.79	1.04
12:22	500	4000	36.8	7.08	1588	73	0.20	46	10.73	0.78	1.03
12:26	500	6000	36.7	7.04	1571	72	0.48	24	10.73	0.77	1.02
12:30	500	8000	36.8	7.01	1568	72	0.35	23	10.73	0.78	1.02
12:34	500	10000	36.8	7.02	1565	73	0.30	22	10.73	0.77	10.1

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-94-175

Date	08/24/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	gal	Depth to Water (ft bmp)	9.42
Water Quality Meter	YSI	Gallons in Well	27.32
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	176.93
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	172.5
Water Column in Well	167.51	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/24/2020	EB Time	
Sample Time	11:52	MS/MSD Sample ID	
Sample ID	MW-94-175-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	08/24/2020

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)
11:35	500	2000	36.5	7.46	1028	67	0.34	5	9.50	0.50	0.66
11:39	500	4000	36.9	7.40	1029	70	0.31	4	9.50	0.50	0.66
11:43	500	6000	36.9	7.38	1027	71	0.26	4	9.50	0.50	0.66
11:47	500	8000	37.0	7.34	1027	72	0.23	4	9.50	0.50	0.66
11:51	500	10000	37.1	7.31	1027	71	0.22	4	9.50	0.50	0.66

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-88-107

Date	08/19/2020	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)	89.61
Water Quality Meter	YSI	Gallons in Well	2.84
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	107
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	99
Water Column in Well	17.39	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/19/2020	EB Time	
Sample Time	12:41	MS/MSD Sample ID	
Sample ID	MW-88-107-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	13	Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
12:24	500	2000	30.8	6.95	2342	117	2.67	32	89.72	1.18	1.51
12:28	500	4000	31	6.95	2256	116.4	2.96	20	89.72	1.15	1.46
12:32	500	4000	31	6.95	2189	115.0	3.26	14	89.72	1.11	1.40
12:36	500	8000	31	6.94	2104	114.5	3.33	13	89.72	1.07	1.39
12:40	500	10000	31	6.93	2026	115.3	3.36	13	89.72	1.01	1.31

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-11D

Date	08/26/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	65.93
Water Quality Meter	YSI	Gallons in Well	11.04
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	133.61
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	123
Water Column in Well	67.68	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-761-q320
Sample Date	08/26/2020	EB Time	11:20
Sample Time	11:09	MS/MSD Sample ID	
Sample ID	MW-11D-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	08/26/2020

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)
10:52	500	2000	31.0	7.59	6058	88	3.87	25	66.00	3.26	3.93
10:56	500	4000	31.2	7.56	5988	89	3.75	9	66.00	3.16	3.83
11:00	500	6000	31.2	7.52	5899	89	3.76	8	66.00	3.18	3.82
11:04	500	8000	31.3	7.52	5893	89	3.76	8	66.00	3.17	3.83
11:08	500	10000	31.3	7.52	5900	89	3.78	8	66.00	3.16	3.82

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-81-043

Date	08/18/2020	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)	22.90
Water Quality Meter	YSI	Gallons in Well	12.25
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	98
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	33
Water Column in Well	75.10	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-759-Q320
Sample Date	08/18/2020	EB Time	14:20
Sample Time	12:38	MS/MSD Sample ID	
Sample ID	MW-81-043-0820	MS/MSD Sample Time	
Single Filter Turbidity	4	Double Filter Turbidity	1
Without Filter Turbidity	24	Post Sampling Turbidity	
		Purge Date	08/18/2020

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)
12:21	500	2000	35	6.98	7906	-4.4	0.33	80	22.96	4.98	4.17
12:25	500	4000	35.2	7.00	7798	-0.8	0.22	33	22.96	4.95	4.13
12:29	500	6000	35.3	7.01	7703	2.2	0.16	26	22.96	4.91	4.09
12:33	500	8000	35.3	7.02	7622	4.5	0.14	24	22.96	4.87	4.02
12:37	500	10000	35.3	7.03	7560	6.6	0.13	24	22.96	4.84	4.04

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-81-098

Date	08/18/2020	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)	23.20
Water Quality Meter	YSI	Gallons in Well	12.43
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	99.41
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	88
Water Column in Well	76.21	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/18/2020	EB Time	
Sample Time	11:45	MS/MSD Sample ID	
Sample ID	MW-81-098-0820	MS/MSD Sample Time	
Duplicate Sample ID	Mw-915-0820	Double Filter Turbidity	
Dup Sample Time	11:55	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	08/18/2020
Without Filter Turbidity	4		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:28	500	2000	37.3	7.12	8622	121	0.45	7	23.26	4.76	5.65
11:32	500	4000	37.2	7.07	8653	119.2	0.38	4	23.26	4.75	5.64
11:36	500	6000	37.2	7.03	8689	120.3	0.34	4	23.26	4.76	5.65
11:40	500	8000	37.1	7.01	8732	121.7	0.32	4	23.26	4.77	5.67
11:44	500	10000	37.2	6.98	8738	122	0.30	4	23.26	4.77	5.67

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-93-050

Date	08/19/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	30.19
Water Quality Meter	YSI	Gallons in Well	3.50
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	51.65
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	40
Water Column in Well	21.46	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/19/2020	EB Time	
Sample Time	08:46	MS/MSD Sample ID	
Sample ID	MW-93-050-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	08/19/2020

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)
08:29	500	2000	28.0	7.55	5408	90.5	0.26	22	30.24	2.72	3.30
08:33	500	4000	28.0	7.53	5382	91.7	0.26	5	30.24	2.72	3.30
08:37	500	6000	28.1	7.52	5366	91.6	0.25	5	30.24	2.72	3.30
08:41	2000	30.24	28.0	7.50	5340	89.8	0.24	5	30.24	2.72	3.30
08:45	500	10000	28.0	7.49	5390	87.8	0.23	5	30.24	2.72	3.30

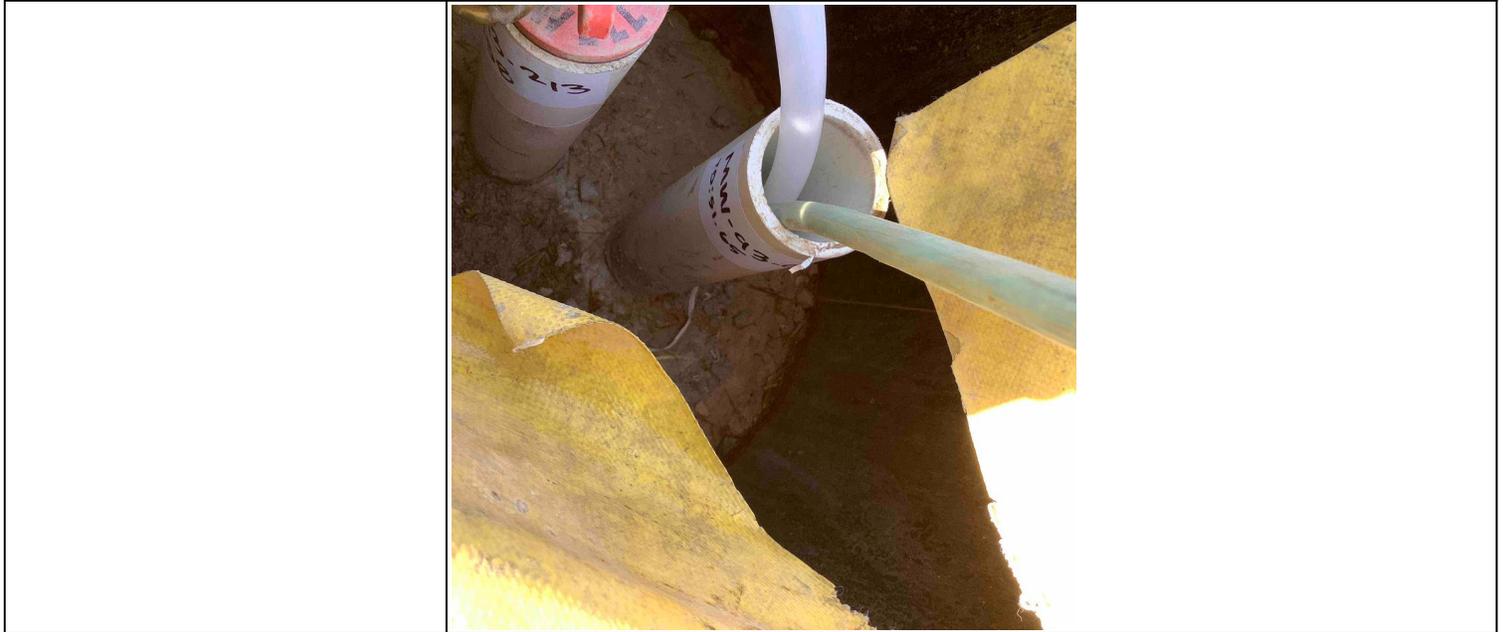
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-93-213

Date	08/19/2020	Sampler	Jb
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	29.93
Water Quality Meter	YSI	Gallons in Well	30.12
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	214.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	203
Water Column in Well	184.65	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/19/2020	EB Time	
Sample Time	07:52	MS/MSD Sample ID	
Sample ID	MW-93-213-0820	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	08/19/2020

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)
07:35	500	2000	27.5	7.28	16269	-36.4	0.34	24	29.98	8.97	10.04
07:39	500	4000	27.7	7.34	16209	-33.1	0.27	9	29.98	8.97	10.04
07:43	500	6000	27.7	7.36	16153	-34.3	0.25	9	29.98	8.97	10.04
07:47	500	8000	27.7	7.40	16131	-40.2	0.23	9	29.98	8.97	10.04
07:51	500	10000	27.6	7.42	16138	-41.2	0.23	9	29.98	8.97	10.04

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**

MW-95-113

Date	08/19/2020	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)	96.80
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	103
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	08/19/2020	EB Sample ID	
Sample Time	09:43	EB Time	
Sample ID	MW-95-113-0820	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/19/2020

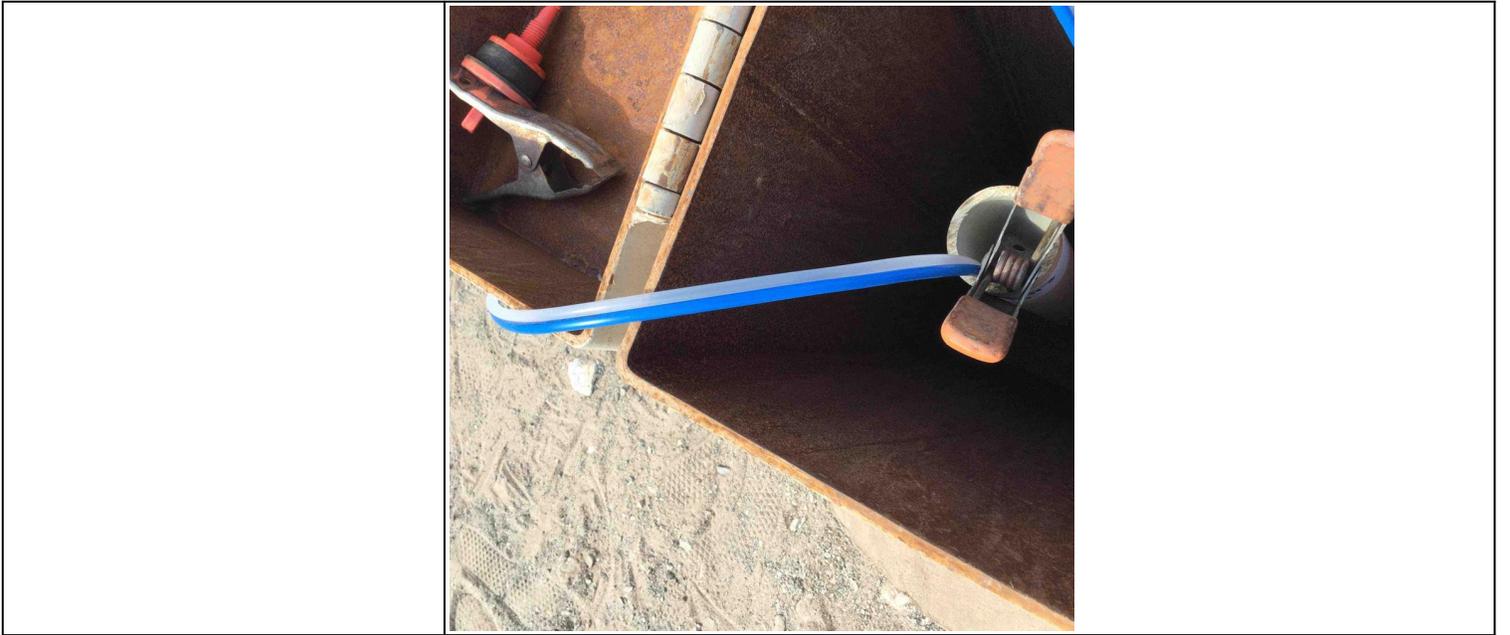
Field Parameters

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)
09:26	500	2000	34.1	6.90	1640	127.4	2.06		96.89	0.81	1.08
09:30	500	4000	34.1	6.87	1621	124.6	2.00		96.89	0.80	1.04
09:34	500	6000	34.1	6.84	1600	122.5	1.97		96.89	0.80	1.04
09:38	500	8000	34.1	6.82	1589	121.9	1.94		96.89	0.79	1.01
09:42	500	10000	34.1	6.82	1576	120.9	1.92		96.89	0.78	0.99

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-95-157

Date	08/19/2020	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)	96.70
Water Quality Meter	YSI	Gallons in Well	10.57
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	161.49
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	147
Water Column in Well	64.79	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/19/2020	EB Time	
Sample Time	08:20	MS/MSD Sample ID	
Sample ID	MW-95-157-0820	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	18	Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
08:03	500	2000	31.6	7.15	5762	117.8	2.99	48	96.77	3.09	3.75
08:07	500	4000	31.6	7.09	5789	117.5	2.57	32	96.77	3.1	3.75
08:11	500	6000	31.7	7.08	5805	117.1	2.47	20	96.77	3.12	3.78
08:15	500	8000	31.7	7.06	5834	116.7	2.43	18	96.77	3.12	3.79
08:19	500	10000	31.7	7.06	5871	115.9	2.40	18	96.77	3.15	3.85

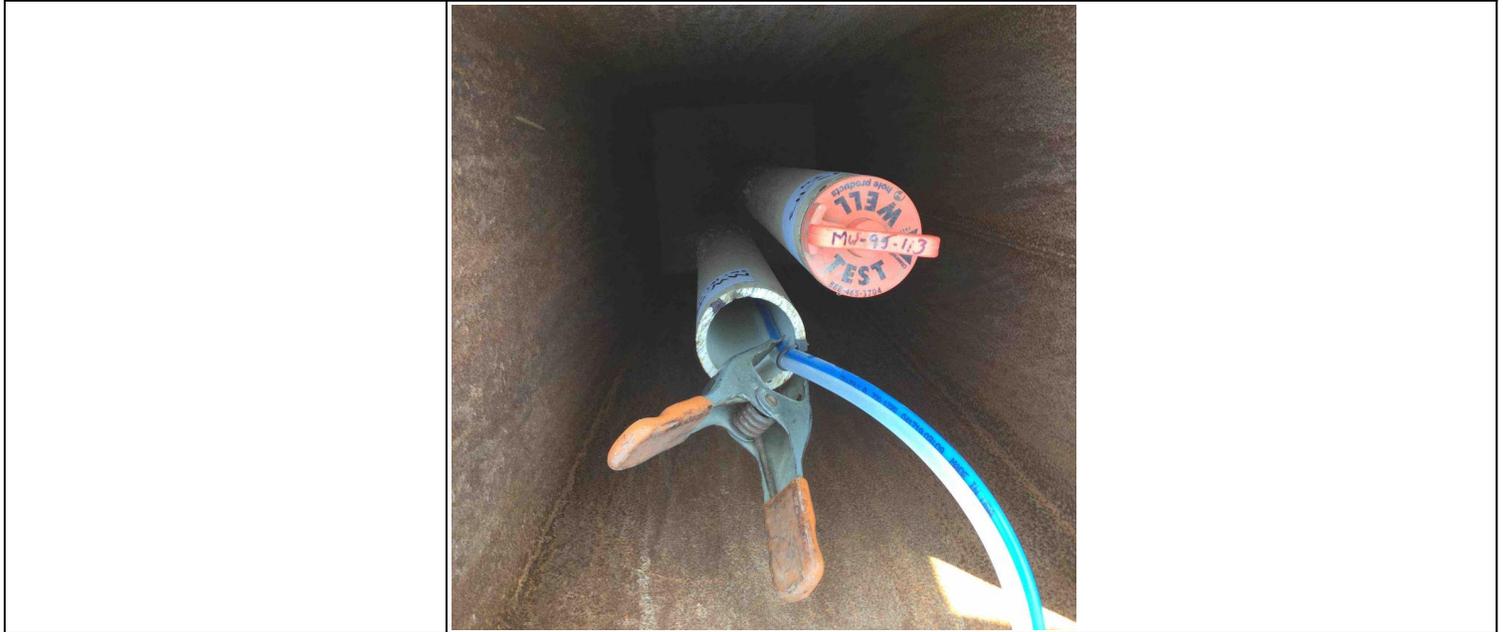
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-70BR-289-245

Date	08/21/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	81.09
Water Quality Meter	YSI	Gallons in Well	135.65
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	289.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	241
Water Column in Well	207.91	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-767-q320
Sample Date	08/21/2020	EB Time	09:00
Sample Time	08:46	MS/MSD Sample ID	
Sample ID	MW-70BR-289-245-0820	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	08/21/2020

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)
08:29	500	2000	30.8	10.02	15555	-16	0.22	11	81.25	9.00	10.13
08:33	500	4000	30.8	10.10	15542	-27	0.17	9	81.25	8.98	10.08
08:37	500	6000	30.7	10.16	15538	-32	0.16	8	81.25	8.99	10.10
08:41	500	8000	30.8	10.21	15566	-33	0.14	8	81.25	9.03	10.12
08:45	500	10000	30.9	10.27	15644	-43	0.13	8	81.25	9.03	10.14

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-70BR-289-261

Date	08/21/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	81.09
Water Quality Meter	YSI	Gallons in Well	135.65
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	289.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	261
Water Column in Well	207.91	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/21/2020	EB Time	
Sample Time	08:06	MS/MSD Sample ID	
Sample ID	MW-70BR-289-261-0820	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	10	Post Sampling Turbidity	
		Purge Date	08/21/2020

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)
07:49	500	2000	30.4	10.40	16342	-60	0.23	23	81.18	9.51	10.61
07:53	500	4000	30.4	10.41	16372	-64	0.22	12	81.18	9.54	10.64
07:57	500	6000	30.3	10.48	16392	-69	0.20	10	81.18	9.50	10.61
08:01	500	8000	30.4	10.43	16285	-71	0.18	10	81.18	9.49	10.60
08:05	500	10000	30.4	10.44	16321	-72	0.18	10	81.18	9.46	10.58

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			
Well Casing Intact?	X			
Photo Taken?		X		
Action Completed?			X	

Site: PGE Topock
Topock, CA

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-70BR-289-279

Date	08/21/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	81.09
Water Quality Meter	YSI	Gallons in Well	135.65
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	289.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	279
Water Column in Well	207.91	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	08/21/2020	EB Time	
Sample Time	07:29	MS/MSD Sample ID	
Sample ID	MW-70BR-289-279-0820	MS/MSD Sample Time	
Single Filter Turbidity	4	Double Filter Turbidity	
Without Filter Turbidity	15	Post Sampling Turbidity	
		Purge Date	08/21/2020

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)
07:12	500	2000	29.9	10.75	16069	-12	0.39	23	81.13	9.33	10.44
07:16	500	4000	29.5	10.7	16125	-13	0.40	20	81.13	9.38	10.49
07:20	500	6000	29.7	10.72	16150	-20	0.37	15	81.13	9.39	10.49
07:24	500	8000	29.8	10.74	16189	-29	0.35	15	81.13	9.41	10.51
07:28	500	10000	29.9	10.74	16187	-34	0.33	15	81.13	9.42	10.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

C-BNS

Date	08/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	14.5
Did Well Dewater?	No	Odor	none
Sample Date	08/19/2020	Pump Intake Depth (ft bmp)	13.5
Sample Time	09:58	Total Volume to Remove	
Sample ID	C-BNS-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	2	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
09:57	500	2000	22.6	8.43	914	129	1.68	2		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R22A-D

Date	08/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	7.4
Did Well Dewater?	No	Odor	none
Sample Date	08/19/2020	Pump Intake Depth (ft bmp)	6.4
Sample Time	09:25	Total Volume to Remove	
Sample ID	C-R22A-D-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	5	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
09:24	500	2000	23.5	8.46	915	130	1.74	5		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R27-D

Date	08/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	7.2
Did Well Dewater?	No	Odor	none
Sample Date	08/19/2020	Pump Intake Depth (ft bmp)	6.2
Sample Time	10:21	Total Volume to Remove	
Sample ID	C-R27-D-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	3	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
10:20	500	2000	23.1	8.35	914	129	1.62	3		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-TAZ-D

Date	08/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	14.5
Did Well Dewater?	No	Odor	none
Sample Date	08/19/2020	Pump Intake Depth (ft bmp)	13.5
Sample Time	07:51	Total Volume to Remove	
Sample ID	C-TAZ-D-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	3	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
07:50	500	2000	22.1	8.72	921	61	2.11	3		0.45	0.59

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	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

R-19

Date	08/20/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	6
Did Well Dewater?	No	Odor	none
Sample Date	08/20/2020	Pump Intake Depth (ft bmp)	2
Sample Time	08:14	Total Volume to Remove	
Sample ID	R-19-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	4	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/20/2020

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)
08:13	500	2000	22.6	8.68	912	130	1.31	3		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

R-28

Date	08/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	5
Did Well Dewater?	No	Odor	none
Sample Date	08/19/2020	Pump Intake Depth (ft bmp)	2
Sample Time	10:59	Total Volume to Remove	
Sample ID	R-28-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	1	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
10:58	500	2000	23.5	8.38	915	124	1.54	1		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

R63

Date	08/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	5
Did Well Dewater?	No	Odor	none
Sample Date	08/19/2020	Pump Intake Depth (ft bmp)	2
Sample Time	09:05	Total Volume to Remove	
Sample ID	R63-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	1	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
09:04	500	2000	23.5	8.50	917	131	1.82	1		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

RRB

Date	<u>08/20/2020</u>	Sampler	<u>Reggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Water Quality Meter	<u>YSI</u>	Casing Volume to Remove	<u></u>
Sampling Type	<u>Surface water</u>	Depth to Water (ft bmp)	<u></u>
Did Well Dewater?	<u>No</u>	Gallons in Well	<u></u>
Sample Date	<u>08/20/2020</u>	Measured Well Depth (ft bmp)	<u></u>
Sample Time	<u>11:20</u>	Odor	<u>none</u>
Sample ID	<u>RRB-Q320</u>	Pump Intake Depth (ft bmp)	<u></u>
Single Filter Turbidity	<u>1</u>	Total Volume to Remove	<u></u>
Without Filter	<u>8</u>	EB Sample ID	<u></u>
Turbidity		EB Time	<u></u>
		MS/MSD Sample ID	<u></u>
		MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>08/20/2020</u>

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)
11:15	0	0	22.3	8.30	913	130	1.31	8		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

SW1

Date	<u>08/20/2020</u>	Sampler	<u>Reggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Water Quality Meter	<u>YSI</u>	Casing Volume to Remove	<u></u>
Sampling Type	<u>Surface water</u>	Depth to Water (ft bmp)	<u></u>
Did Well Dewater?	<u>No</u>	Gallons in Well	<u></u>
Sample Date	<u>08/20/2020</u>	Measured Well Depth (ft bmp)	<u></u>
Sample Time	<u>14:10</u>	Odor	<u>none</u>
Sample ID	<u>SW1-Q320</u>	Pump Intake Depth (ft bmp)	<u></u>
Single Filter Turbidity	<u>1</u>	Total Volume to Remove	<u></u>
Without Filter	<u>9</u>	EB Sample ID	<u></u>
Turbidity		EB Time	<u></u>
		MS/MSD Sample ID	<u></u>
		MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>08/20/2020</u>

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)
14:05	0	0	21.9	8.29	913	119	1.29	9		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

SW2

Date	<u>08/20/2020</u>	Sampler	<u>Reggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Water Quality Meter	<u>YSI</u>	Casing Volume to Remove	<u></u>
Sampling Type	<u>Surface water</u>	Depth to Water (ft bmp)	<u></u>
Did Well Dewater?	<u>No</u>	Gallons in Well	<u></u>
Sample Date	<u>08/20/2020</u>	Measured Well Depth (ft bmp)	<u></u>
Sample Time	<u>14:27</u>	Odor	<u>none</u>
Sample ID	<u>SW2-Q320</u>	Pump Intake Depth (ft bmp)	<u></u>
Single Filter Turbidity	<u>1</u>	Total Volume to Remove	<u></u>
Without Filter	<u>7</u>	EB Sample ID	<u></u>
Turbidity		EB Time	<u></u>
		MS/MSD Sample ID	<u></u>
		MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>08/20/2020</u>

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:22	0	0	22.0	8.39	915	129	1.38	7		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

**Site: PGE Topock
Topock, CA**

TW-03D

Date	08/04/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Extraction Port	Casing Volume to Remove	
Purge Volume Units	gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Extraction port	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	
Sample Date	08/04/2020	Total Volume to Remove	
Sample Time	07:43	EB Sample ID	
Sample ID	TW-03D-0820	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	3	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/04/2020

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)
07:43	1	5	28.4	8.23	7303	140	0.32	3		3.96	4.70

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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	

Photos and Drawings

Site: PGE Topock
Topock, CA

**Site: PGE Topock
Topock, CA**

C-CON-D

Date	08/20/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	11.6
Did Well Dewater?	No	Odor	none
Sample Date	08/20/2020	Pump Intake Depth (ft bmp)	10.6
Sample Time	08:40	Total Volume to Remove	
Sample ID	C-CON-D-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	3	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/20/2020

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)
08:39	500	2000	21.9	8.57	912	112	1.28	3		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-CON-S

Date	08/20/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	11.6
Did Well Dewater?	No	Odor	none
Sample Date	08/20/2020	Pump Intake Depth (ft bmp)	5
Sample Time	08:54	Total Volume to Remove	
Sample ID	C-CON-S-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	5	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/20/2020

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)
08:53	500	2000	22.4	8.48	912	119	1.25	5		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-I-3-D

Date	08/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	14.5
Did Well Dewater?	No	Odor	none
Sample Date	08/19/2020	Pump Intake Depth (ft bmp)	13.5
Sample Time	08:31	Total Volume to Remove	
Sample ID	C-I-3-D-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	4	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
08:30	500	2000	22.0	8.68	913	119	0.98	4		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-I-3-S

Date	08/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	5
Did Well Dewater?	No	Odor	none
Sample Date	08/19/2020	Pump Intake Depth (ft bmp)	4
Sample Time	08:46	Total Volume to Remove	
Sample ID	C-I-3-S-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	3	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
08:45	500	2000	21.9	8.48	912	128	1.91	3		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-MAR-D

Date	<u>08/20/2020</u>	Sampler	<u>Reggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>ml</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>Low Flow –Peristaltic Pump</u>	Measured Well Depth (ft bmp)	<u>6.5</u>
Did Well Dewater?	<u>No</u>	Odor	<u>none</u>
Sample Date	<u>08/20/2020</u>	Pump Intake Depth (ft bmp)	<u>5.5</u>
Sample Time	<u>07:25</u>	Total Volume to Remove	<u></u>
Sample ID	<u>C-MAR-D-Q320</u>	EB Sample ID	<u></u>
Duplicate Sample ID	<u>Mw-908-q320</u>	EB Time	<u></u>
Dup Sample Time	<u>07:35</u>	MS/MSD Sample ID	<u></u>
Single Filter Turbidity	<u>1</u>	MS/MSD Sample Time	<u></u>
Without Filter Turbidity	<u>3</u>	Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>08/20/2020</u>

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)
07:24	500	2000	22.5	8.70	915	137	1.49	3		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-MAR-S

Date	08/20/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	6.5
Did Well Dewater?	No	Odor	none
Sample Date	08/20/2020	Pump Intake Depth (ft bmp)	2
Sample Time	07:47	Total Volume to Remove	
Sample ID	C-MAR-S-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	2	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
07:46	500	2000	22.3	8.80	912	132	1.53	2		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR1-D

Date	08/20/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	8.6
Did Well Dewater?	No	Odor	none
Sample Date	08/20/2020	Pump Intake Depth (ft bmp)	7.6
Sample Time	09:17	Total Volume to Remove	
Sample ID	C-NR1-D-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	4	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/20/2020

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)
09:16	500	2000	22.0	8.50	912	120	1.24	4		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR1-S

Date	<u>08/20/2020</u>	Sampler	<u>Reggie</u>
Weather Conditions	<u>Sunny</u>	Color	<u>Clear</u>
Purge Method	<u>Low Flow</u>	Casing Volume to Remove	<u></u>
Purge Volume Units	<u>ml</u>	Depth to Water (ft bmp)	<u></u>
Water Quality Meter	<u>YSI</u>	Gallons in Well	<u></u>
Sampling Type	<u>Low Flow –Peristaltic Pump</u>	Measured Well Depth (ft bmp)	<u></u>
Did Well Dewater?	<u>No</u>	Odor	<u>none</u>
Sample Date	<u>08/20/2020</u>	Pump Intake Depth (ft bmp)	<u>2</u>
Sample Time	<u>09:33</u>	Total Volume to Remove	<u></u>
Sample ID	<u>C-NR1-S-Q320</u>	EB Sample ID	<u></u>
Single Filter Turbidity	<u>1</u>	EB Time	<u></u>
Without Filter Turbidity	<u>2</u>	MS/MSD Sample ID	<u></u>
		MS/MSD Sample Time	<u></u>
		Double Filter Turbidity	<u></u>
		Post Sampling Turbidity	<u></u>
		Purge Date	<u>08/20/2020</u>

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)
09:32	500	2000	24.5	8.41	916	121	1.21	2		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR3-S

Date	08/20/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	8.5
Did Well Dewater?	No	Odor	none
Sample Date	08/20/2020	Pump Intake Depth (ft bmp)	2
Sample Time	10:11	Total Volume to Remove	
Sample ID	C-NR3-S-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	6	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/20/2020

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)
10:10	500	2000	22.5	8.44	913	118	1.20	6		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR4-S

Date	08/20/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Volume Units	ml	Casing Volume to Remove	
Water Quality Meter	YSI	Depth to Water (ft bmp)	
Sampling Type	Low Flow –Peristaltic Pump	Gallons in Well	
Did Well Dewater?	No	Measured Well Depth (ft bmp)	
Sample Date	08/20/2020	Odor	none
Sample Time	10:57	Pump Intake Depth (ft bmp)	2
Sample ID	C-NR4-S-Q320	Total Volume to Remove	
Single Filter Turbidity	1	EB Sample ID	
Without Filter Turbidity	2	EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/20/2020

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)
10:56	500	2000	22.5	8.30	913	119	1.19	2		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R22A-S

Date	08/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	7.4
Did Well Dewater?	No	Odor	none
Sample Date	08/19/2020	Pump Intake Depth (ft bmp)	2
Sample Time	09:41	Total Volume to Remove	
Sample ID	C-R22A-S-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	2	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
09:40	500	2000	23.7	8.40	915	130	1.70	3		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R27-S

Date	08/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	
Did Well Dewater?	No	Odor	
Sample Date	08/19/2020	Pump Intake Depth (ft bmp)	2
Sample Time	10:34	Total Volume to Remove	
Sample ID	C-R27-S-Q320	EB Sample ID	
Duplicate Sample ID	Mw-909-q320	EB Time	
Dup Sample Time	10:44	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
10:33	500	2000	23.1	8.38	915	126	1.59	4		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-TAZ-S

Date	08/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	5
Did Well Dewater?	No	Odor	none
Sample Date	08/19/2020	Pump Intake Depth (ft bmp)	5
Sample Time	08:05	Total Volume to Remove	
Sample ID	C-TAZ-S-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	2	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	08/19/2020

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)
08:04	500	2000	22.2	8.85	912	105	1.29	2		0.45	0.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

Site: PGE Topock
Topock, CA

MW-38S-SMT

Date	09/30/2020	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)	70.44
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	09/30/2020	EB Sample ID	EB-779-Q320
Sample Time	15:00	EB Time	15:30
Sample ID	MW-38S-SMT-Q320	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	8	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	09/30/2020

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)
14:43	500	2000	30.2	7.33	1744	101.3	1.13	29	70.64	0.88	1.13
14:47	500	4000	30.5	7.35	1738	103.3	1.01	16	70.64	0.87	1.12
14:51	500	6000	30.9	7.37	1720	108.9	0.89	8	70.64	0.85	1.11
14:55	500	8000	30.9	7.40	1702	111.3	0.64	8	70.64	0.83	1.08
14:59	500	10000	30.9	7.41	1689	113.4	0.59	8	70.64	0.79	1.04

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-83-180

Date	09/29/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	170
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	09/29/2020	EB Sample ID	EB-776-Q320
Sample Time	14:45	EB Time	15:00
Sample ID	MW-83-180-0920	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	3	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
14:28	500	2000	30.2	7.03	10710	44.8	0.67	6	73.44	6.03	6.98
14:32	500	4000	30.3	7.10	10844	42.9	0.61	4	73.44	6.1	7.05
14:36	500	6000	30.5	7.23	11420	52.8	0.78	3	73.44	6.46	7.44
14:40	500	8000	30.9	7.24	11496	55.6	0.74	3	73.44	6.50	7.49
14:44	500	10000	30.9	7.25	11541	56.7	0.72	3	73.44	6.52	7.48

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-117

Date	09/28/2020	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)	17.73,17.40
Water Quality Meter	YSI	Gallons in Well	16.37,2.54
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	118.11,33
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	107,25.5
Water Column in Well	100.38,15.60	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-773-Q320
Sample Date	09/28/2020	EB Time	15:00
Sample Time	12:56,14:43	MS/MSD Sample ID	
Sample ID	MW-75-117-0920,MW-75-033-0920	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	09/28/2020

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)
12:39	500	2000	29.2	7.3	10571	44.8	0.69	12	17.88	5.9	6.85
12:43	500	4000	30.9	7.38	11219	60.6	0.63	9	17.88	6.35	7.38
12:47	500	6000	31.2	7.33	11565	71.8	0.58	8	17.88	6.53	7.52
12:51	500	8000	31.4	7.35	11654	74.7	0.54	8	17.88	6.58	7.57
12:55	500	10000	31.4	7.36	11722	74.6	0.51	8	17.88	6.61	7.6
14:26	500	2000	30.2	7.47	5216	27.9	1.94	24	17.59	2.77	3.35
14:30	500	4000	30.4	7.45	5167	49.9	1.86	14	17.59	2.76	3.36
14:34	500	6000	30.4	7.44	5125	53.8	1.8	8	17.59	2.75	3.36
14:38	500	8000	30.4	7.43	5118	58.9	1.77	8	17.59	2.74	3.32
14:42	500	10000	30.6	7.43	5111	62.3	1.73	8	17.59	2.73	3.29

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		X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?		X		

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-033

Date	09/28/2020	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)	17.40,17.73
Water Quality Meter	YSI	Gallons in Well	2.54,16.37
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	33,118.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	25.5,107
Water Column in Well	15.60,100.38	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/28/2020	EB Time	
Sample Time	14:43,12:56	MS/MSD Sample ID	
Sample ID	MW-75-033-0920,MW-75-117-0920	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	09/28/2020

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)
12:39	500	2000	29.2	7.3	10571	44.8	0.69	12	17.88	5.9	6.85
12:43	500	4000	30.9	7.38	11219	60.6	0.63	9	17.88	6.35	7.38
12:47	500	6000	31.2	7.33	11565	71.8	0.58	8	17.88	6.53	7.52
12:51	500	8000	31.4	7.35	11654	74.7	0.54	8	17.88	6.58	7.57
12:55	500	10000	31.4	7.36	11722	74.6	0.51	8	17.88	6.61	7.60
14:26	500	2000	30.2	7.47	5216	27.8	1.94	24	17.59	2.77	3.35
14:30	500	4000	30.4	7.45	5167	49.9	1.86	14	17.59	2.76	3.36
14:34	500	6000	30.4	7.44	5125	53.8	1.80	8	17.59	2.75	3.36
14:38	500	8000	30.4	7.43	5118	58.9	1.77	8	17.59	2.74	3.32
14:42	500	10000	30.6	7.43	5111	52.3	1.73	8	17.59	2.73	3.29

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		

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-84-057

Date	09/29/2020	Sampler	Job
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	44.34
Water Quality Meter	YSI	Gallons in Well	2.06
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	57.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	49.50
Water Column in Well	12.66	Total Volume to Remove	
Sample Date	09/29/2020	EB Sample ID	EB-777-Q320
Sample Time	13:31	EB Time	14:15
Sample ID	MW-84-057-0920	MS/MSD Sample ID	
Single Filter Turbidity	10	MS/MSD Sample Time	
Without Filter	34	Double Filter Turbidity	4
Turbidity		Post Sampling Turbidity	
		Purge Date	09/29/2020

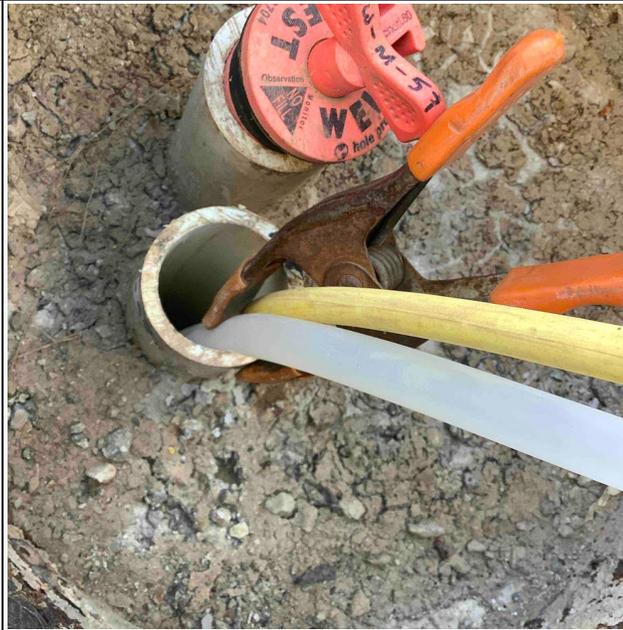
Field Parameters

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)
13:14	500	2000	32.9	7.53	7180	-4.2	0.77	35	44.38	3.36	4.05
13:18	500	4000	32.4	7.50	7090	1.4	0.78	34	44.38	3.36	4.05
13:22	500	6000	31.8	7.53	7047	0.2	0.79	34	44.38	3.36	4.05
13:26	500	8000	31.7	7.52	7024	0.7	0.79	34	4.38	3.36	4.05
13:30	500	1000	31.6	7.50	7010	1.4	0.75	34	44.38	3.36	4.05

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			
Action Completed?			X	

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-84-095

Date	09/29/2020	Sampler	J
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	44.24
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	95.00
Casing Material	PVC	Odor	none
Water Column in Well	50.76	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	09/29/2020	EB Sample ID	
Sample Time	12:31	EB Time	
Sample ID	MW-84-095-0920	MS/MSD Sample ID	
Single Filter Turbidity	2	MS/MSD Sample Time	
Without Filter	6	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
12:14	500	2000	31.3	7.55	6949	-7.7	1.24	7	44.29	3.34	4.03
12:18	500	4000	31.2	7.5	6941	-8.3	1.19	6	44.29	3.34	4.03
12:22	500	6000	31.1	7.54	6942	-7.9	1.20	6	44.29	3.34	4.03
12:26	500	8000	31.0	7.54	6937	-7.2	1.17	6	44.29	3.34	4.03
12:30	500	10000	30.9	7.53	6937	-4.6	1.18	6	44.29	3.34	4.03

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-84-132

Date	09/29/2020	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)	44.93
Water Quality Meter	YSI	Gallons in Well	14.53
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	134.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	122
Water Column in Well	89.07	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/29/2020	EB Time	
Sample Time	13:12	MS/MSD Sample ID	
Sample ID	MW-84-132-0920	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
12:55	500	2000	31.0	7.02	7576	122.8	2.52	8	45.06	4.18	4.90
12:59	500	4000	31.4	7.05	7551	126.7	2.06	6	45.06	4.13	4.93
13:03	500	6000	31.9	7.1	7606	133.7	1.70	4	45.09	4.11	4.86
13:07	500	8000	31.7	7.14	7584	131.8	1.45	4	45.09	4.23	4.96
13:11	500	10000	31.9	7.18	7566	136.0	1.36	4	45.09	4.14	4.91

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**

MW-84-193

Date	09/29/2020	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)	44.88
Water Quality Meter	YSI	Gallons in Well	24.39
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	194.41
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	183
Water Column in Well	149.53	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/29/2020	EB Time	
Sample Time	12:34	MS/MSD Sample ID	
Sample ID	MW-84-193-0920	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
12:17	500	2000	31.4	7.30	12508	99.8	0.54	8	45.00	7.22	8.17
12:21	500	4000	31.5	7.26	12680	95.3	0.45	5	45.00	7.19	8.26
12:25	500	6000	31.5	7.24	12525	102.7	0.45	4	45.00	7.29	8.32
12:29	500	8000	31.8	7.38	13221	122.6	0.48	4	45.00	7.32	8.41
12:33	500	10000	31.8	7.25	13230	125.7	0.48	4	45.00	7.34	8.38

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

MW-87-192

Date	09/30/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.51
Water Quality Meter	YSI	Gallons in Well	16.55
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	192.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	182
Water Column in Well	101.49	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-780-Q320
Sample Date	09/30/2020	EB Time	14:00
Sample Time	13:31	MS/MSD Sample ID	
Sample ID	MW-87-192-0920	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	09/30/2020

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)
13:14	500	2000	30.7	7.47	10215	7	0.60	4	90.60	5.14	6.02
13:18	500	4000	30.3	7.47	10263	-15	0.33	3	90.60	5.18	6.06
13:22	500	6000	30.5	7.47	10383	-13	0.36	3	90.60	5.23	6.11
13:26	500	8000	30.6	7.48	10498	-12	0.33	3	90.60	5.27	6.17
13:30	500	10000	30.7	7.50	10578	-11	0.35	3	90.60	5.31	6.20

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-87-275

Date	09/30/2020	Sampler	Job
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.34
Water Quality Meter	YSI	Gallons in Well	30.12
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	275.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	265
Water Column in Well	184.66	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/30/2020	EB Time	
Sample Time	12:11	MS/MSD Sample ID	
Sample ID	MW-87-275-0920	MS/MSD Sample Time	
Duplicate Sample ID	Mw-919-0920	Double Filter Turbidity	
Dup Sample Time	12:21	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	09/30/2020
Without Filter Turbidity	6		

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)
11:54	500	2000	30.7	7.67	12931	23	2.04	8	90.38	6.59	7.58
11:58	500	4000	31.1	7.69	13062	16	1.28	6	90.38	6.61	7.60
12:02	500	6000	31.1	7.70	13068	15	1.15	6	90.38	6.61	7.60
12:06	500	8000	31.1	7.71	13079	14	1.06	6	90.38	6.62	7.61
12:10	500	10000	31.1	7.71	13087	15	1.01	6	90.38	6.62	7.61

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		

**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

MW-87-109

Date	09/30/2020	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)	90.20
Water Quality Meter	YSI	Gallons in Well	3.07
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	109
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	99
Water Column in Well	18.80	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/30/2020	EB Time	
Sample Time	12:05	MS/MSD Sample ID	
Sample ID	MW-87-109-0920	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	09/30/2020

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)
11:47	250	1000	31.3	7.32	2885	77.6	5.33	12	90.30	1.47	1.87
11:51	250	2000	31.1	7.30	2750	86.7	5.27	7	90.30	1.41	1.78
11:55	250	3000	30.9	7.30	2761	91.4	5.22	4	90.30	1.41	1.79
11:59	250	4000	31.0	7.30	2735	93.8	5.18	4	90.30	1.39	1.77
12:03	250	5000	31	7.31	2687	96.3	5.12	4	90.30	1.38	1.75

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-87-139

Date	09/30/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	134
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	09/30/2020	EB Sample ID	
Sample Time	13:30	EB Time	
Sample ID	MW-87-139-0920	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	5	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	09/30/2020

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)
13:13	250	1000	33.6	7.36	7508	108.7	5.54	7	90.28	4.11	4.93
13:17	250	2000	33.8	7.38	7556	104.6	5.75	5	90.28	4.14	4.98
13:21	250	3000	33.7	7.38	7587	101.6	5.91	5	90.28	4.21	5.03
13:25	250	4000	33.8	7.40	7612	98.8	6.02	5	90.28	4.22	5.12
13:29	250	5000	33.7	7.41	7644	97.8	6.14	5	90.28	4.33	5.18

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-76-218

Date	09/29/2020	Sampler	Job
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	26.11
Water Quality Meter	YSI	Gallons in Well	31.47
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	219.05
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	213
Water Column in Well	192.94	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/29/2020	EB Time	
Sample Time	08:51	MS/MSD Sample ID	
Sample ID	MW-76-218-0920	MS/MSD Sample Time	
Duplicate Sample ID	MW-918-0920	Double Filter Turbidity	
Dup Sample Time	09:01	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	09/29/2020
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)
08:34	500	2000	28.6	10.96	18932	31.1	0.45	3	26.15	10.45	11.56
08:38	500	4000	28.7	11.01	19103	27.6	0.37	2	26.15	10.45	11.56
08:42	500	6000	28.7	11.00	19161	25.5	0.35	2	26.15	10.45	11.65
08:46	500	8000	28.8	10.99	19172	32.7	0.32	2	26.15	10.45	11.65
08:50	500	10000	28.8	10.98	19183	33.6	0.29	2	26.15	10.45	11.65

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-76-181

Date	09/29/2020	Sampler	In
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	26.41
Water Quality Meter	YSI	Gallons in Well	25.49
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	182.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	176
Water Column in Well	156.30	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/29/2020	EB Time	
Sample Time	09:51	MS/MSD Sample ID	
Sample ID	MW-76-181-0920	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	1	Post Sampling Turbidity	
Turbidity		Purge Date	09/29/2020

Field Parameters

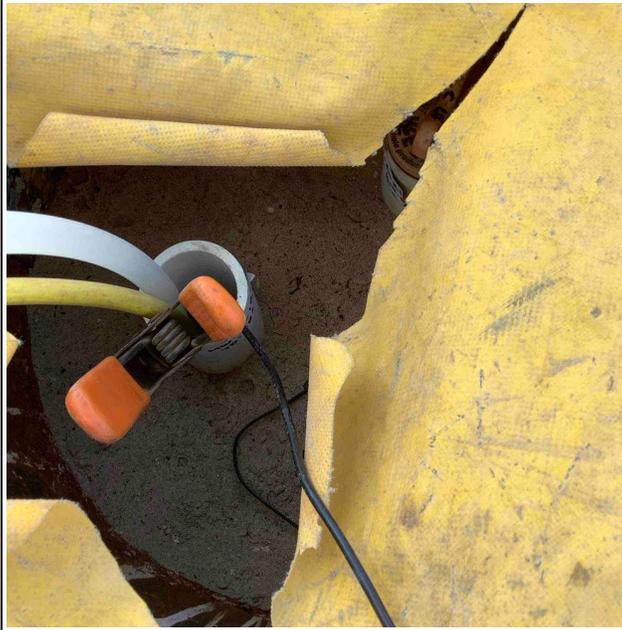
Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:34	500	2000	28.6	7.64	22232	47.6	0.35	2	26.45	12.35	13.50
09:38	500	4000	28.7	7.66	22263	47.2	0.32	1	26.45	12.35	13.50
09:42	500	6000	28.7	7.61	22294	46.8	0.29	1	26.45	12.35	13.50
09:46	500	8000	28.7	7.63	22305	46.6	0.28	1	26.45	12.35	13.50
09:50	500	10000	28.7	7.63	22327	46.2	0.025	1	26.45	12.35	13.50

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	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			
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA



Site: PGE Topock
Topock, CA

MW-76-156

Date	09/29/2020	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)	26.06
Water Quality Meter	YSI	Gallons in Well	21.15
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	155.76
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	151
Water Column in Well	129.70	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/29/2020	EB Time	
Sample Time	10:28	MS/MSD Sample ID	
Sample ID	MW-76-156-0920	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
10:11	500	2000	28.6	7.32	15574	122.3	0.6	11	26.20	9.06	10.19
10:15	500	4000	28.9	7.33	15749	120.7	0.48	7	26.20	9.14	10.23
10:19	500	6000	29.2	7.35	15827	123.1	0.42	4	26.20	9.26	10.4
10:23	500	8000	29.3	7.36	16012	124.5	0.39	4	26.20	9.25	10.47
10:27	500	10000	29.3	7.36	15860	125.6	0.36	4	26.20	9.23	10.34

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-76-039

Date	09/29/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	34
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	09/29/2020	EB Sample ID	
Sample Time	09:45	EB Time	
Sample ID	MW-76-039-0920	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	6	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
09:28	500	2000	28.6	7.30	3848	69.6	2.57	15	25.64	2.02	2.50
09:32	500	4000	29.1	7.29	3835	82.3	2.62	10	25.64	2.01	2.49
09:36	500	6000	29.3	7.29	3818	90.4	2.60	6	25.64	2.00	2.48
09:40	500	8000	29.4	7.30	3813	84.3	2.59	6	25.64	2.00	2.48
09:44	500	10000	29.4	7.29	3814	94.0	2.57	6	25.64	2.00	2.48

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-337

Date	09/28/2020	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)	20.11
Water Quality Meter	YSI	Gallons in Well	51.69
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	337
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	327
Water Column in Well	316.89	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-773-Q320
Sample Date	09/28/2020	EB Time	15:00
Sample Time	13:56	MS/MSD Sample ID	MW-75-337-0920 MS/MSD
Sample ID	MW-75-337-0920	MS/MSD Sample Time	13:56
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	09/28/2020

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)
13:39	500	2000	32.6	7.46	24208	-233	0.63	6	20.20	14.57	15.74
13:43	500	4000	31.8	7.47	28654	-201.8	0.55	5	20.20	18.02	19.06
13:43	500	4000	31.8	7.47	28654	-201.8	0.55	5	20.20	18	19
13:47	500	600	31.5	7.48	29515	-170.8	0.52	4	20.20	18.16	19.18
13:47	500	6000	31.5	7.48	29515	-170.8	0.52	4	20.20	18.16	19.18
13:51	500	8000	31.5	7.50	29565	-166.3	0.48	4	20.20	18.24	19.27
13:51	500	8000	31.5	7.50	29565	-166.3	0.47	4	20.20	18.24	19.27
13:55	500	10000	31.5	7.51	29757	-162.3	0.45	4	20.2	18.27	19.33
13:55	500	10000	31.5	7.51	29757	-162.3	0.45	4	20.20	18.27	19.33

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		X	
Concrete Pad Intact?	X			
Erosion Around Wellhead?	X	X		
Steel Casing Intact?	X			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-267

Date	09/28/2020	Sampler	Job
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	17.29
Water Quality Meter	YSI	Gallons in Well	40.99
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	268.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	258
Water Column in Well	251.29	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/28/2020	EB Time	
Sample Time	12:45	MS/MSD Sample ID	
Sample ID	MW-75-267-0920	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	1	Post Sampling Turbidity	
Turbidity		Purge Date	09/28/2020

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)
12:28	500	2000	30.9	7.44	26830	-118.9	0.48	7	17.34	14.53	15.70
12:32	500	4000	30.8	7.53	26900	-113.0	0.37	1	17.34	14.53	15.70
12:36	500	6000	30.7	7.56	26890	-116.1	0.34	1	17.34	14.53	15.70
12:40	500	8000	30.7	7.57	26885	-117.1	0.32	1	17.34	14.53	15.70
12:44	500	10000	30.7	7.58	26891	-118.2	0.30	1	17.34	14.53	15.70

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-202

Date	09/28/2020	Sampler	Job
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	17.63
Water Quality Meter	YSI	Gallons in Well	30.45
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	204.31
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	194
Water Column in Well	186.68	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-774-Q320
Sample Date	09/28/2020	EB Time	14:05
Sample Time	13:51	MS/MSD Sample ID	
Sample ID	MW-75-202-0920	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	09/28/2020

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)
13:34	500	2000	30.3	7.60	19589	-108.8	0.27	3	17.67	10.41	11.5
13:38	500	4000	30.2	7.61	19540	-103.5	0.24	2	17.67	10.41	11.55
13:42	500	6000	30.2	7.61	19564	-100.4	0.22	2	17.67	10.41	11.55
13:46	500	8000	30.2	7.61	19592	-98.5	0.20	2	17.67	10.41	11.55
13:50	500	10000	30.3	7.62	19610	-97.8	0.20	2	17.67	10.41	11.55

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-93-050

Date	09/29/2020	Sampler	Job
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	30.42
Water Quality Meter	YSI	Gallons in Well	3.46
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	51.65
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	21.23	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/29/2019	EB Time	
Sample Time	11:21	MS/MSD Sample ID	
Sample ID	MW-93-050-0920	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
11:04	500	2000	28.4	7.52	5438	75.5	0.26	5	30.46	2.72	3.31
11:08	500	4000	28.4	7.52	5432	75.4	0.25	4	30.46	2.72	3.31
11:12	500	6000	28.4	7.52	5427	75.7	0.26	4	30.46	2.72	3.31
11:16	500	8000	28.4	7.52	5417	76.3	0.25	4	30.46	2.72	3.31
11:20	500	10000	28.4	7.51	5416	76.8	0.25	4	30.46	2.72	3.31

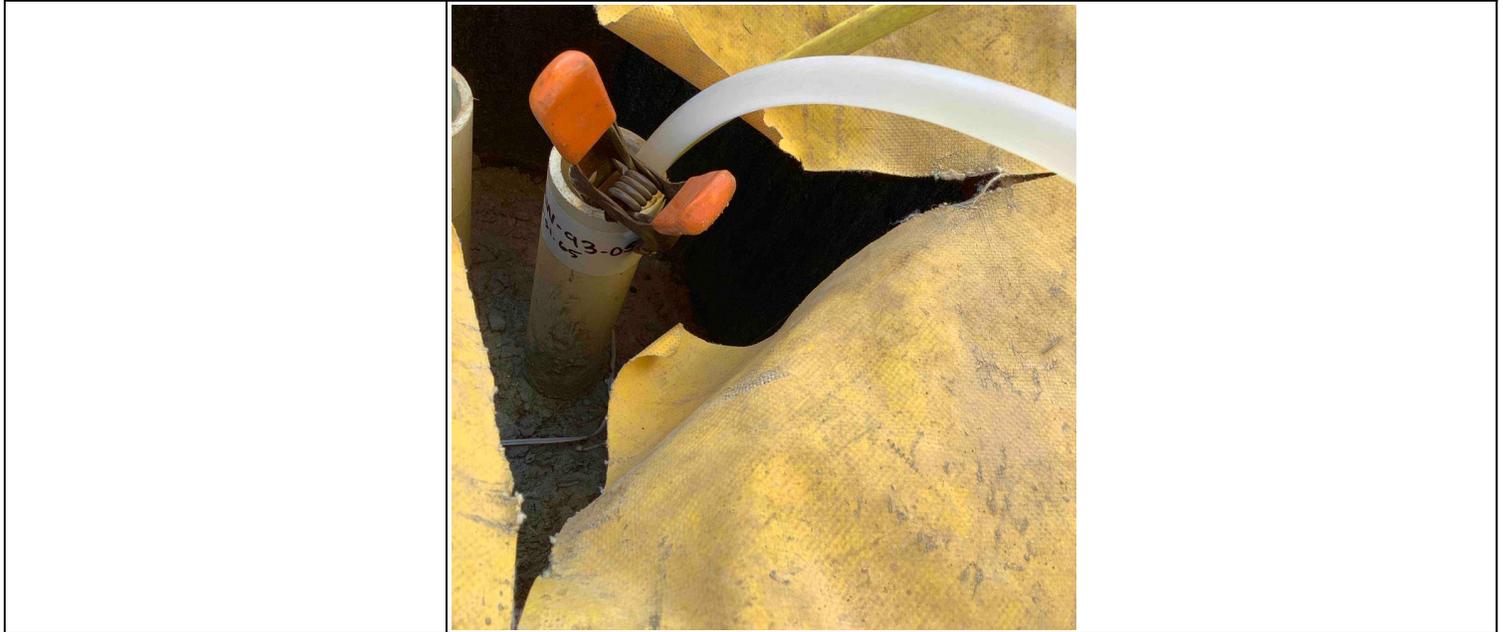
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-93-213

Date	09/29/2020	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)	30.25
Water Quality Meter	YSI	Gallons in Well	30.07
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	214.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	208
Water Column in Well	184.33	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/29/2020	EB Time	
Sample Time	11:27	MS/MSD Sample ID	
Sample ID	MW-93-213-0920	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
11:10	500	2000	30.7	7.46	12014	-110.7	1.01	10	30.36	6.82	7.83
11:14	500	4000	30.8	7.41	12067	-121.7	0.68	7	30.36	6.82	7.86
11:18	500	6000	30.7	7.40	12100	-129.5	0.64	4	30.36	6.83	7.85
11:22	500	8000	30.7	7.37	12055	-129.8	0.62	4	30.36	6.86	7.86
11:26	500	10000	30.7	7.42	12040	-131.0	0.58	4	30.36	6.82	7.81

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-95-113

Date	09/30/2020	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)	96.92
Water Quality Meter	YSI	Gallons in Well	3.40
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	117.74
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	108
Water Column in Well	20.82	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/30/2020	EB Time	
Sample Time	09:17	MS/MSD Sample ID	
Sample ID	MW-95-113-0920	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	09/30/2020

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)
09:00	500	2000	27.8	7.28	1770	44.6	2.35	10	97.04	0.89	1.15
09:04	500	4000	28.4	7.29	1664	41.7	2.77	7	97.04	0.94	1.08
09:08	500	6000	28.1	7.29	1621	41.7	3.03	5	97.08	0.86	1.09
09:12	500	8000	28.4	7.30	1578	39.9	3.08	5	97.08	0.80	1.04
09:16	500	10000	28.6	7.31	1548	38.7	3.14	5	97.08	0.77	1.01

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-95-157

Date	09/30/2020	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)	96.74
Water Quality Meter	YSI	Gallons in Well	10.56
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	161.49
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	147
Water Column in Well	64.75	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/30/2020	EB Time	
Sample Time	10:27	MS/MSD Sample ID	
Sample ID	MW-95-157-0920	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	09/30/2020

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)
10:10	500	2000	30.0	7.11	5208	116.6	3.56	8	96.80	2.81	3.33
10:14	500	4000	30.2	7.13	5267	113.3	3.81	4	96.80	2.84	3.37
10:22	500	8000	30.3	7.15	5392	108.6	4.02	4	96.80	2.88	3.5
10:26	500	10000	30.3	7.16	5421	107.6	4.07	4	96.8	2.91	3.56
18:19	500	6000	30.3	7.14	5321	110.6	3.91	4	96.80	2.85	3.52

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

MW-70BR-289-279

Date	09/28/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	58.68
Water Quality Meter	YSI	Gallons in Well	150.27
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	289.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	279
Water Column in Well	230.32	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-772-q320
Sample Date	09/28/2020	EB Time	15:00
Sample Time	12:31	MS/MSD Sample ID	
Sample ID	MW-70BR-289-279-0920	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	09/28/2020

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)
12:14	500	2000	29.7	11.01	14557	-88	0.53	8	58.78	8.38	9.43
12:18	500	4000	29.7	11.15	14457	-170	0.43	8	58.78	8.36	9.44
12:22	500	6000	29.6	11.19	14585	-209	0.40	7	58.78	8.40	9.42
12:26	500	8000	29.7	11.21	14537	-208	0.33	7	58.78	8.38	9.48
12:30	500	10000	29.7	11.23	14593	-207	0.30	7	58.78	8.41	9.47

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-57-050

Date	<u>09/29/2020</u>	Sampler	_____
Weather Conditions	<u>Sunny</u>	Color	_____
Did Well Dewater?	<u>NA</u>	Casing Volume to Remove	_____
		Depth to Water (ft bmp)	<u>Dry</u>
		Gallons in Well	_____
		Measured Well Depth (ft bmp)	<u>50.09</u>
		Odor	_____
		Pump Intake Depth (ft bmp)	_____
		Total Volume to Remove	_____
		EB Sample ID	_____
		EB Time	_____
		MS/MSD Sample ID	_____
		MS/MSD Sample Time	_____
		Double Filter Turbidity	_____
		Post Sampling Turbidity	_____
		Purge Date	<u>09/29/2020</u>

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:55	0	0							Dry		

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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	
Remarks				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-58-065

Date	<u>09/29/2020</u>	Sampler	_____
Weather Conditions	<u>Sunny</u>	Color	_____
Did Well Dewater?	<u>No</u>	Casing Volume to Remove	_____
		Depth to Water (ft bmp)	<u>Dry</u>
		Gallons in Well	_____
		Measured Well Depth (ft bmp)	<u>65.11</u>
		Odor	_____
		Pump Intake Depth (ft bmp)	_____
		Total Volume to Remove	_____
		EB Sample ID	_____
		EB Time	_____
		MS/MSD Sample ID	_____
		MS/MSD Sample Time	_____
		Double Filter Turbidity	_____
		Post Sampling Turbidity	_____
		Purge Date	<u>09/29/2020</u>

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:51	0	0							Dry		

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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	
Remarks				

Photos and Drawings

**Site: PGE Topock
Topock, CA**



**Site: PGE Topock
Topock, CA**

MW-58BR

Date	09/29/2020	Sampler	
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	67.00
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	Dedicated qed
Did Well Dewater?	No	Odor	none
Sample Date	09/29/2020	Pump Intake Depth (ft bmp)	
Sample Time	12:34	Total Volume to Remove	
Sample ID	MW-58BR-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	5	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
12:17	500	2000	30.2	7.81	6442	-8	0.42	6	67.10	3.48	4.18
12:21	500	4000	30.4	7.81	6437	-10	0.38	5	67.10	3.49	4.18
12:25	500	6000	30.3	7.83	6400	-16	0.29	5	67.10	3.45	4.15
12:29	500	8000	30.1	7.84	6367	-20	0.26	5	67.10	3.44	4.12
12:33	500	10000	30.1	7.85	6347	-22	0.29	5	67.10	3.48	4.12

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-60BR-245

Date	09/30/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	98.70
Water Quality Meter	YSI	Gallons in Well	95.45
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	245.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	175
Water Column in Well	146.30	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/30/2020	EB Time	
Sample Time	08:21	MS/MSD Sample ID	
Sample ID	MW-60BR-245-Q320	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	09/30/2020

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)
08:04	500	2000	27.7	8.12	18778	40	1.80	6	98.77	9.13	10.22
08:08	500	4000	27.8	8.00	18890	-55	0.76	5	98.77	9.13	10.22
08:12	500	6000	27.8	7.98	18991	-60	0.76	5	98.77	9.13	10.22
08:16	500	8000	27.8	7.97	19011	-63	0.50	5	98.77	9.13	10.22
08:20	500	10000	27.8	7.95	19022	-64	0.45	5	98.77	9.13	10.22

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-62-065

Date	09/30/2020	Sampler	Tt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	47.68
Water Quality Meter	YSI	Gallons in Well	2.86
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	65.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	55
Water Column in Well	17.52	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-778-Q320
Sample Date	09/30/2020	EB Time	15:15
Sample Time	14:52	MS/MSD Sample ID	
Sample ID	MW-62-065-Q320	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	10	Post Sampling Turbidity	
Turbidity		Purge Date	09/30/2020

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)
14:35	500	2000	30.6	7.61	5669	14.4	3.67	21	47.75	3.04	3.68
14:39	500	4000	31.4	7.59	5709	11.2	4.34	10	47.75	3.04	3.69
14:43	500	6000	31.5	7.58	5670	11.7	4.63	10	47.75	3.03	3.66
14:47	500	8000	31.7	7.57	5632	12.4	4.90	10	47.75	3.01	3.65
14:51	500	10000	31.8	7.57	5661	12.9	4.95	10	47.75	3.01	3.68

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-62-110

Date	09/29/2020	Sampler	Matt trainotti
Weather Conditions	Sunny	Color	Clear
Purge Volume Units	ml	Casing Volume to Remove	
Water Quality Meter	YSI	Depth to Water (ft bmp)	
Casing Material	PVC	Gallons in Well	
Casing Diameter (in)	4	Measured Well Depth (ft bmp)	
Did Well Dewater?	Yes	Odor	none
Sample Date	09/29/2020	Pump Intake Depth (ft bmp)	
Sample Time	15:20	Total Volume to Remove	
Sample ID	MW-62-110-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	4	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	09/29/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cum'l Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
07:44			26.8	7.05	12362	-64.4	0.67	4		7.06	8.03
08:24			33.6	7.33	10525	44.6	2.99	6		5.86	6.83
15:20			27.1	7.07	12386	-80.9	0.59	4		7.07	8.05
16:00			27.9	7.02	12415	-70	1.13	4		7.08	8.07

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?			X	
Standing or Poned 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-63-065

Date	09/30/2020	Sampler	Tt
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	48.85
Water Quality Meter	YSI	Gallons in Well	2.65
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	65.12
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	55
Water Column in Well	16.27	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/30/2020	EB Time	
Sample Time	13:56	MS/MSD Sample ID	
Sample ID	MW-63-065-Q320	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	10	Post Sampling Turbidity	
		Purge Date	09/30/2020

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)
13:39	500	2000	29.4	7.35	6473	-9.0	3.24	20	48.95	3.51	4.20
13:43	500	4000	28.6	7.33	6407	-11.5	3.80	10	49.00	3.47	4.16
13:47	500	6000	28.3	7.33	6365	-9.5	3.75	10	49.00	3.45	4.14
13:51	500	8000	28.2	7.32	6365	-9.0	3.62	10	49.00	3.45	4.13
13:55	500	10000	28.1	7.31	6364	-8.8	3.40	10	49.0	3.45	4.13

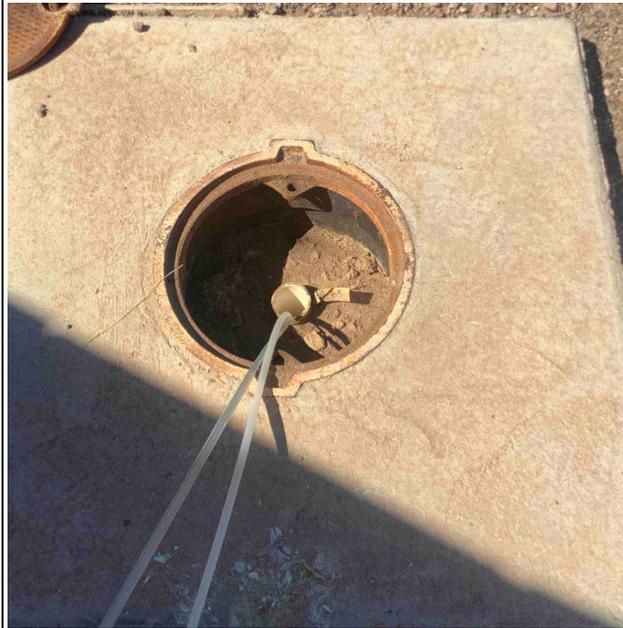
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-64BR

Date	09/30/2020	Sampler	
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	121.46
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	Dedicated qed
Did Well Dewater?	No	Odor	none
Sample Date	09/30/2020	Pump Intake Depth (ft bmp)	
Sample Time	09:08	Total Volume to Remove	
Sample ID	MW-64BR-Q320	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	3	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	09/30/2020

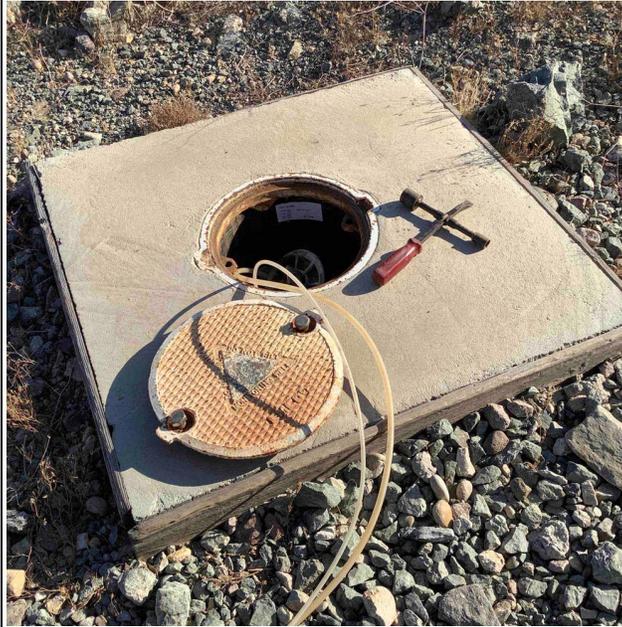
Field Parameters

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)
08:51	500	2000	28.9	7.57	14286	-75	4.68	4	121.50	6.99	7.98
08:55	500	4000	28.4	7.65	14223	-111	1.81	3	121.50	6.95	7.93
08:59	500	6000	28.6	7.69	14190	-130	0.93	3	121.50	6.94	7.93
09:03	500	8000	28.5	7.70	14201	-134	0.84	3	121.50	6.94	7.93
09:07	500	10000	28.5	7.70	14202	-135	0.77	3	121.50	6.94	7.93

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-65-160

Date	09/29/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	140.15
Water Quality Meter	YSI	Gallons in Well	3.24
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	160.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	155
Water Column in Well	19.85	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/29/2020	EB Time	
Sample Time	09:25	MS/MSD Sample ID	
Sample ID	MW-65-160-Q320	MS/MSD Sample Time	
Single Filter Turbidity	9	Double Filter Turbidity	3
Without Filter Turbidity	31	Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
09:08	500	2000	29.1	7.85	3823	6	6.45	59	140.20	2.01	2.52
09:12	500	4000	29.0	7.78	3889	6	4.34	33	140.20	2.04	2.52
09:16	500	6000	29.0	7.71	3897	6	3.59	31	140.20	2.04	2.53
09:20	500	8000	29.0	7.68	3896	7	3.71	31	140.20	2.04	2.52
09:24	500	10000	29.0	7.67	3892	7	3.60	31	140.20	2.04	2.52

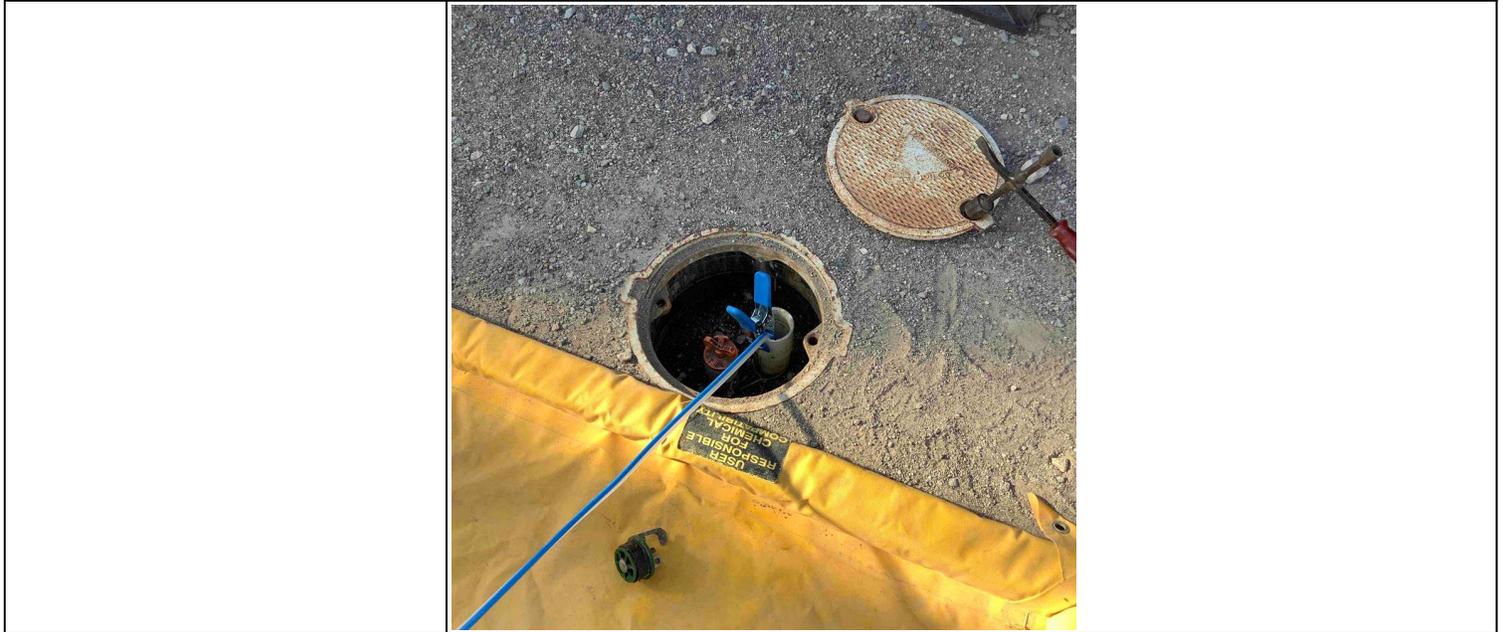
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-65-225

Date	09/29/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	139.90
Water Quality Meter	YSI	Gallons in Well	13.88
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	225.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	220
Water Column in Well	85.10	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/29/2020	EB Time	
Sample Time	08:51	MS/MSD Sample ID	
Sample ID	MW-65-225-Q320	MS/MSD Sample Time	
Single Filter Turbidity	6	Double Filter Turbidity	2
Without Filter Turbidity	28	Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
08:34	500	2000	30.2	8.05	13640	-32	0.76	52	140.03	7.69	8.74
08:38	500	4000	30.6	7.95	12163	-37	0.93	29	140.05	6.90	7.94
08:42	500	6000	30.8	7.90	12024	-37	0.90	28	140.05	6.84	7.83
08:46	500	8000	30.8	7.85	12027	-36	0.92	28	140.05	6.78	7.75
08:50	500	10000	30.8	7.83	11995	-36	0.93	29	140.05	6.84	7.84

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-68-180

Date	09/29/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	yellow
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	164.65
Water Quality Meter	YSI	Gallons in Well	2.50
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	180.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	15.35	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/29/2020	EB Time	
Sample Time	11:36	MS/MSD Sample ID	
Sample ID	MW-68-180-Q320	MS/MSD Sample Time	
Single Filter Turbidity	13	Double Filter Turbidity	4
Without Filter Turbidity	47	Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
11:19	500	2000	31.4	7.71	5608	31	7.17	55	164.72	2.99	3.64
11:23	500	4000	31.2	7.67	5459	35	6.87	50	164.72	2.79	3.39
11:27	500	6000	31.0	7.63	5249	39	7.13	47	164.72	2.79	3.40
11:31	500	8000	31.2	7.63	5223	41	7.10	47	164.72	2.80	3.40
11:35	500	10000	31.1	7.60	5220	42	7.00	47	164.72	2.78	3.38

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

MW-69-195

Date	09/29/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	brown
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	170.55
Water Quality Meter	YSI	Gallons in Well	4.15
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	196.00
Casing Material	Stainless Steel	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	186
Water Column in Well	25.45	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/29/2020	EB Time	
Sample Time	10:36	MS/MSD Sample ID	
Sample ID	MW-69-195-Q320	MS/MSD Sample Time	
Single Filter Turbidity	12	Double Filter Turbidity	4
Without Filter Turbidity	40	Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
10:19	500	2000	30.5	8.06	2611	1	6.54	56	170.66	1.29	1.60
10:23	500	4000	30.2	7.96	2381	2	4.02	39	170.60	1.21	1.54
10:27	500	6000	30.2	7.92	2375	2	3.63	40	170.60	1.21	1.54
10:31	500	10000	30.1	7.90	2387	2	3.48	40	170.60	1.22	1.55
10:35	500	10000	30.2	7.88	2386	3	3.66	40	170.60	1.22	1.55

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-72-080

Date	09/29/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	57.70
Water Quality Meter	YSI	Gallons in Well	3.64
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	80.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	70
Water Column in Well	22.30	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-775-q320
Sample Date	09/29/2020	EB Time	15:00
Sample Time	14:40	MS/MSD Sample ID	
Sample ID	MW-72-080-Q320	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	09/29/2020

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)
14:23	500	2000	29.0	7.82	13027	-16	0.40	7	57.75	7.46	8.46
14:27	500	4000	28.9	7.88	17016	-22	0.74	5	57.75	7.71	8.74
14:31	500	6000	29.1	7.83	17123	-17	0.90	5	57.75	7.33	8.87
14:35	500	8000	28.8	7.88	17162	-18	0.92	5	57.75	7.36	8.89
14:39	500	10000	28.8	7.89	17213	-20	0.95	5	57.75	7.87	8.92

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-72BR-200

Date	09/29/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	57.61
Water Quality Meter	YSI	Gallons in Well	209.02
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	200.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	6	Pump Intake Depth (ft bmp)	152
Water Column in Well	142.39	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	09/29/2020	EB Time	
Sample Time	13:45	MS/MSD Sample ID	
Sample ID	MW-72BR-200-Q320	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	09/29/2020

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)
13:28	500	2000	28.0	8.27	16726	-97	0.35	7	57.70	8.23	9.27
13:32	500	4000	28.0	8.29	16746	-99	0.32	4	57.70	8.23	9.27
13:36	500	6000	28.1	8.31	16776	-103	0.27	4	57.70	8.21	9.27
13:40	500	8000	28.1	8.33	16793	-104	0.26	4	57.70	8.21	9.28
13:44	500	10000	28.2	8.33	17003	-106	0.25	4	57.70	8.22	9.29

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-73-080

Date	09/30/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	50.29
Water Quality Meter	YSI	Gallons in Well	4.76
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	79.50
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	70
Water Column in Well	29.21	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-778-q320
Sample Date	09/30/2020	EB Time	10:35
Sample Time	10:21	MS/MSD Sample ID	
Sample ID	MW-73-080-Q320	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	09/30/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:04	500	2000	28.2	7.76	8091	17	2.78	15	50.40	3.24	3.89
10:08	500	4000	28.3	7.70	11023	22	2.54	8	50.40	3.24	3.89
10:12	500	6000	28.3	7.65	10998	26	2.45	8	50.40	3.24	3.89
10:16	500	8000	28.4	7.58	11109	27	2.33	8	50.40	3.24	3.89
10:20	500	10000	28.6	7.50	11133	27	2.28	8	50.40	3.25	3.89

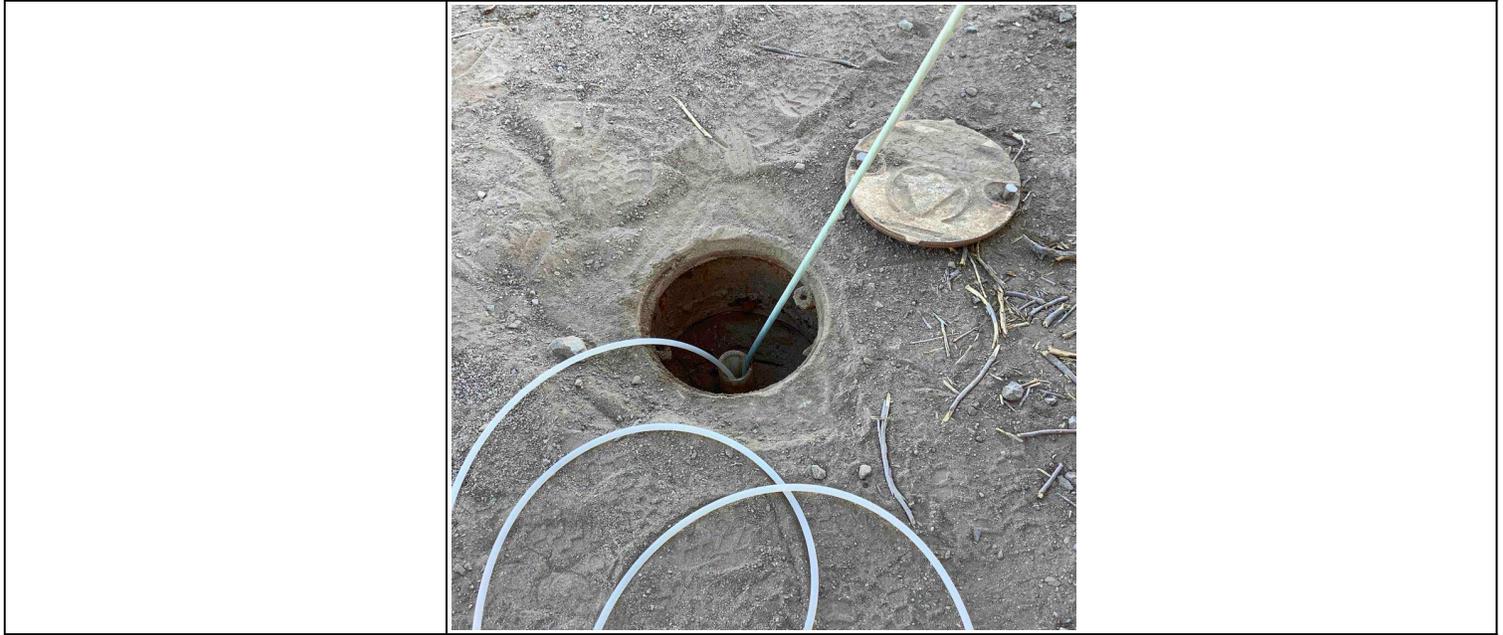
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

TW-03D

Date	09/01/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Extraction Port	Casing Volume to Remove	
Purge Volume Units	gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Extraction port	Measured Well Depth (ft bmp)	
Did Well Dewater?	No	Odor	none
Sample Date	09/01/2020	Pump Intake Depth (ft bmp)	
Sample Time	06:15	Total Volume to Remove	
Sample ID	TW-03D-0920	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	3	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	09/01/2020

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)
06:15	1	5	26.4	7.25	7678	118	2.05	3		4.01	4.74

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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	

Photos and Drawings

Site: PGE Topock
Topock, CA

Site: PGE Topock
Topock, CA

CW-04D-LF

Date	10/02/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
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	0.00
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 Pounded 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
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
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	0.00
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 Pounded 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**

C-BNS

Date	10/02/2020	Sampler	<hr/>
		Color	<hr/>
		Casing Volume to Remove	<hr/>
		Depth to Water (ft bmp)	<hr/>
		Gallons in Well	<hr/>
		Measured Well Depth (ft bmp)	<hr/>
		Odor	<hr/>
		Pump Intake Depth (ft bmp)	<hr/>
		Total Volume to Remove	<hr/>
		EB Sample ID	<hr/>
		EB Time	<hr/>
		MS/MSD Sample ID	<hr/>
		MS/MSD Sample Time	<hr/>
		Double Filter Turbidity	<hr/>
		Post Sampling Turbidity	<hr/>
		Purge Date	10/02/2020

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-34-100

Date	10/01/2020	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)	4.83
Water Quality Meter	YSI	Gallons in Well	15.52
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	100
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	94.5
Water Column in Well	95.17	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/01/2020	EB Time	
Sample Time	10:19	MS/MSD Sample ID	
Sample ID	MW-34-100-Q320	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	10/01/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI 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	20.6	7.20	8593	12.8	0.66	16	4.94	4.8	5.58
10:06	500	2000	20.5	7.18	8803	20.3	0.60	12	4.94	5.03	5.89
10:10	500	6000	20.4	7.17	9120	26.8	0.56	8	4.94	5.20	5.93
10:14	500	8000	20.3	7.15	9354	31.5	0.56	8	4.94	5.27	6.09
10:18	500	10000	20.3	7.14	9508	37.8	0.52	8	4.94	5.36	6.18

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-44-115

Date	10/01/2020	Sampler	Matt Trainotti
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	16.67
Water Quality Meter	YSI	Gallons in Well	16.04
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	115
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	110
Water Column in Well	98.33	Total Volume to Remove	
		EB Sample ID	
		EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	10/01/2020

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)
09:16	500	2000	21.3	7.33	9192	-7.4	1.32	10	16.78	5.17	5.98
09:20	500	4000	21.5	7.33	9342	-11.6	1.26	8	16.78	5.25	6.09
09:24	500	6000	21.6	7.33	9543	-14.6	1.2	6	16.78	5.40	6.25
09:28	500	8000	21.6	7.33	9706	-17.6	1.17	6	16.78	5.48	6.28
09:32	500	10000	21.6	7.33	9891	-18.6	1.13	6	16.78	5.57	6.41

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			
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

Site: PGE Topock
Topock, CA

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-46-175

Date	10/01/2020	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)	26.45
Water Quality Meter	YSI	Gallons in Well	24.23
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	175
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	170
Water Column in Well	148.55	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/01/2020	EB Time	
Sample Time	11:14	MS/MSD Sample ID	
Sample ID	MW-46-175-Q320	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	10/01/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:57	500	2000	23.0	7.20	17054	92.3	0.88	15	26.55	10.33	11.40
11:01	500	4000	23.3	7.18	17267	96.1	0.70	11	26.55	10.37	11.44
11:05	500	6000	23.4	7.16	17584	98.9	0.60	8	26.55	10.42	11.46
11:09	500	8000	23.4	7.15	17644	101.1	0.58	8	26.55	10.44	11.48
11:13	500	10000	23.4	7.15	17788	103.3	0.48	8	26.55	10.50	11.69

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-60-125

Date	10/01/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	98.65
Water Quality Meter	YSI	Gallons in Well	4.24
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	124.66
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	113
Water Column in Well	26.01	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-701-q420
Sample Date	10/01/2020	EB Time	13:10
Sample Time	13:01	MS/MSD Sample ID	
Sample ID	MW-60-125-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	10/01/2020

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)
12:44	500	2000	31.0	7.31	8094	-124	4.03	10	98.77	6.13	8.28
12:48	500	4000	31.1	7.33	9380	-128	3.88	8	98.77	6.13	8.28
12:52	500	6000	31.3	7.37	9455	-130	3.66	8	98.77	6.13	8.28
12:56	500	8000	31.3	7.40	9590	-133	3.53	8	98.77	6.13	8.28
13:00	500	10000	31.5	7.41	9611	-133	3.49	8	98.77	6.13	8.28

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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 Pounded 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-05S-LF

Date	10/08/2020	Sampler	Jb
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)	90
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

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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
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 Turbidity	6	Double Filter 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

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 Pounded 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-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 Pounded 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-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 Turbidity	4;	Post Sampling Turbidity	
		Purge Date	10/07/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (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

MW-38D-SMT

Date	10/05/2020	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)	70.11
Water Quality Meter	YSI	Gallons in Well	18.33
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	182.47
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	170
Water Column in Well	112.36	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/05/2020	EB Time	
Sample Time	14:14	MS/MSD Sample ID	
Sample ID	MW-38D-SMT-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	10	Post Sampling Turbidity	
		Purge Date	10/05/2020

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)
13:57	500	2000	30.8	8.14	19981	-33.4	1.22	38	70.2	11.83	13.01
14:01	500	2000	31.0	8.11	20412	-25.2	0.70	24	70.2	12.15	13.40
14:05	500	6000	31.2	8.09	20990	-21.3	0.54	10	70.2	12.46	13.66
14:09	500	8000	31.3	8.08	21187	-16.8	0.51	10	70.2	12.62	13.77
14:13	500	10000	31.3	8.07	21378	-11.8	0.49	10	70.2	12.74	13.92

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

PT9M

Date	10/06/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	102.75
Water Quality Meter	YSI	Gallons in Well	12.93
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	182.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	172
Water Column in Well	79.25	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/06/2020	EB Time	
Sample Time	12:31	MS/MSD Sample ID	
Sample ID	PT9M-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	10/06/2020

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)
12:24	500	2000	31.8	6.65	14730	-27.3	0.26	6	102.79	7.41	8.46
12:28	500	4000	31.8	6.66	14713	-24.3	0.19	5	102.79	7.41	8.46
12:30	500	10000	31.8	6.64	14650	-19.3	0.19	5	102.79	7.41	8.46
12:32	500	6000	31.8	6.65	14683	-23.6	0.19	5	102.79	7.41	8.46
12:36	500	8000	31.8	6.65	14674	-21.4	0.19	5	102.79	7.41	8.46

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

PT8D

Date	10/06/2020	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)	106.02
Water Quality Meter	YSI	Gallons in Well	16.96
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	210.03
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	200
Water Column in Well	104.01	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/06/2020	EB Time	
Sample Time	10:59	MS/MSD Sample ID	
Sample ID	PT8D-1020	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	10/06/2020

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)
10:42	500	2000	29.3	7.49	18925	80.8	0.63	8	106.08	11.09	12.23
10:46	500	4000	30.1	7.49	19849	77.3	0.26	6	106.08	11.74	12.90
10:50	500	6000	30.5	7.52	20299	74.5	0.23	5	106.08	11.97	13.2
10:54	500	8000	30.5	7.55	20296	73.2	0.22	5	106.08	12.03	13.11
10:58	500	10000	30.5	7.56	20288	72.7	0.21	5	106.08	12.02	13.11

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

PT9S

Date	10/06/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	138
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/06/2020	EB Sample ID	
Sample Time	12:40	EB Time	
Sample ID	PT9S-1020	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	7	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	10/06/2020

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)
12:23	500	2000	30.0	7.68	3334	13.1	0.63	16	103.00	1.76	2.19
12:27	500	4000	31.2	7.64	3464	20.4	0.29	11	103.00	1.8	2.24
12:31	500	6000	31.3	7.63	3471	33.8	0.25	7	103.00	1.8	2.23
12:35	500	8000	31.6	7.61	3523	48.7	0.3	7	103.00	1.82	2.28
12:39	500	10000	31.6	7.60	3543	52.3	0.26	7	103.00	1.84	2.3

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

Photos and Drawings

Site: PGE Topock
Topock, CA

PT9D

Date	10/06/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	102.82
Water Quality Meter	YSI	Gallons in Well	17.48
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	107.18	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-754-Q420
Sample Date	10/06/2020	EB Time	14:00
Sample Time	13:26	MS/MSD Sample ID	
Sample ID	PT9D-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	10/06/2020

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)
13:09	500	2000	31.7	7.73	24250	-77.0	0.59	3	102.87	12.78	13.96
13:13	500	4000	31.7	7.75	24256	-64.0	0.23	2	102.87	12.78	13.96
13:17	500	6000	31.7	7.76	24360	-63.8	0.21	2	102.87	12.78	13.96
13:21	500	8000	31.7	7.76	24368	-63.6	0.19	2	102.87	12.78	13.96
13:25	500	10000	31.8	7.77	24374	-63.5	0.19	2	102.87	12.78	13.96

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

PT8S

Date	10/06/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	137
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/06/2020	EB Sample ID	
Sample Time	11:32	EB Time	
Sample ID	PT8S-1020	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	4	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	10/06/2020

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)
11:15	500	2000	29.1	7.73	4393	-224.7	0.33	16	106	2.32	2.85
11:19	500	4000	29.2	7.73	4326	-223.5	0.18	11	106	2.28	2.81
11:23	500	6000	32.1	7.79	4182	-222.3	0.17	4	106	2.19	2.72
11:27	500	8000	32.1	7.76	4081	-221.6	0.20	4	106	2.14	2.65
11:31	500	10000	32.1	7.77	3978	-220.3	0.2	4	106	2.11	2.64

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	

Photos and Drawings

Site: PGE Topock
Topock, CA

PT8M

Date	10/06/2020	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)	105.9
Water Quality Meter	YSI	Gallons in Well	12.25
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	181.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	172
Water Column in Well	75.10	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/06/2020	EB Time	
Sample Time	09:20	MS/MSD Sample ID	
Sample ID	PT8M-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	10/06/2020

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)
09:03	500	2000	28.6	6.78	8928	-197.8	0.60	12	105.98	4.98	5.85
09:07	500	4000	28.9	6.83	9544	-193.8	0.37	8	105.98	5.33	6.21
09:11	500	6000	30.2	6.85	9798	-187.8	0.23	5	105.98	5.48	6.38
09:15	500	8000	31.3	6.86	10081	-183.5	0.22	5	105.98	5.62	6.54
09:19	500	10000	31.3	6.86	10026	-181-2	0.20	5	105.98	5.6	6.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

PT7S

Date	10/06/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	103.87
Water Quality Meter	YSI	Gallons in Well	7.52
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	150.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	140
Water Column in Well	46.13	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/06/2020	EB Time	
Sample Time	11:21	MS/MSD Sample ID	
Sample ID	PT7S-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	10/06/2020

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)
11:04	500	2000	32.0	7.49	5630	5.1	0.93	2	103.91	2.63	3.22
11:08	500	4000	32.1	7.48	5623	5.2	0.89	2	103.91	2.63	3.22
11:12	500	6000	32.1	7.47	5620	5.7	0.87	2	103.91	2.63	3.22
11:16	500	8000	32.1	7.47	5617	5.3	0.89	2	103.91	2.63	3.22
11:20	500	10000	32.1	7.47	5615	4.7	0.85	2	103.91	2.63	3.22

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

PT7D

Date	10/06/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	104.31
Water Quality Meter	YSI	Gallons in Well	18.38
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	217.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	207
Water Column in Well	112.69	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/06/2020	EB Time	
Sample Time	09:46	MS/MSD Sample ID	
Sample ID	PT7D-1020	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	10/06/2020

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)
09:29	500	2000	30.2	7.16	24100	-128.5	0.14	10	104.35	13.10	14.27
09:33	500	4000	30.3	7.23	24300	-132.2	0.13	9	104.35	13.10	14.27
09:37	500	6000	30.3	7.27	24389	-138.1	0.13	9	104.35	13.10	14.27
09:41	500	8000	30.3	7.31	24400	-138.1	0.12	9	104.35	13.10	14.27
09:45	500	10000	30.2	7.34	24391	-142.5	0.12	9	104.35	13.10	14.27

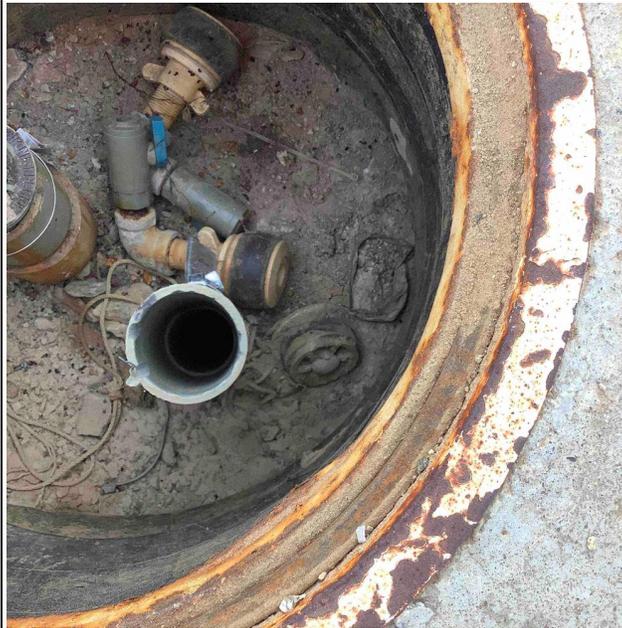
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

PT7M

Date	10/06/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	104.21
Water Quality Meter	YSI	Gallons in Well	13.21
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	81.00	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/06/2020	EB Time	
Sample Time	08:41	MS/MSD Sample ID	
Sample ID	PT7M-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	10/06/2020

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)
08:24	500	2000	30.1	6.90	10371	-103.1	0.22	8	104.25	5.21	6.12
08:28	500	4000	30.3	6.90	10417	-102.8	0.21	7	104.25	5.4	6.12
08:32	500	6000	30.5	6.91	10400	-103.3	0.18	7	104.25	5.24	6.12
08:36	500	8000	30.6	6.90	10364	-103.7	0.17	7	104.25	5.24	6.12
08:40	500	10000	30.6	6.89	10379	-103.6	0.15	7	104.25	5.24	6.12

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

CW-01M

Date	10/08/2020	Sampler	Jb
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 Pounded 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-03M

Date	10/07/2020	Sampler	Jb
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 Pounded 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

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)	
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)	Cumulative 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 Pounded 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-01M

Date	10/07/2020	Sampler	Jb
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	9	Post Sampling Turbidity	
Turbidity		Purge Date	10/07/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI 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 Pounded 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)	
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 Turbidity	3	Double Filter 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 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

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 Pounded 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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

OW-02M

Date	10/08/2020	Sampler	Jb
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-02S

Date	10/08/2020	Sampler	Jb
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 Turbidity	4	Double Filter 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

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)	
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 Turbidity	4	Double Filter 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 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	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-24A

Date	10/05/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	110.52
Water Quality Meter	YSI	Gallons in Well	0.70
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	111.60
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	118
Water Column in Well	1.08	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-752--Q420
Sample Date	10/05/2020	EB Time	15:30
Sample Time	15:02	MS/MSD Sample ID	
Sample ID	MW-24A-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	10/05/2020

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)
14:45	500	2000	31.4	8.19	2077	-80.8	0.53	4	110.57	0.92	1.10
14:49	500	4000	32.9	8.13	2136	-79.9	0.34	3	110.57	0.92	1.19
14:53	500	6000	33.82	8.15	2163	-79.8	0.30	3	110.57	0.92	1.19
14:57	500	8000	34.31	8.20	2186	-80.2	0.27	3	110.57	0.92	1.19
15:01	500	10000	34.8	8.29	2198	-80.3	0.25	3	110.57	0.92	1.19

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-24B

Date	10/05/2020	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)	108.38
Water Quality Meter	YSI	Gallons in Well	61.73
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	203
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	203
Water Column in Well	94.62	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB- 751-Q420
Sample Date	10/05/2020	EB Time	15:30
Sample Time	15:24	MS/MSD Sample ID	
Sample ID	MW-24B-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	10	Post Sampling Turbidity	
		Purge Date	10/05/2020

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)
15:07	500	2000	31.0	7.51	17961	-233.3	0.51	22	108.44	10.51	11.69
15:11	500	4000	31.4	7.54	18189	-243.3	0.33	13	108.44	10.73	11.83
15:15	500	6000	31.6	7.57	18397	-270.1	0.15	10	108.44	10.82	11.91
15:19	500	8000	31.8	7.60	18512	-277.6	0.14	10	108.44	10.9	12.01
15:23	500	10000	31.8	7.62	18650	-282.0	0.09	10	108.44	10.95	12.12

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

MW-67-185

Date	10/06/2020	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)	169.20
Water Quality Meter	YSI	Gallons in Well	2.90
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	187
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	182
Water Column in Well	17.80	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-753-1020
Sample Date	10/06/2020	EB Time	14:44
Sample Time	14:16	MS/MSD Sample ID	
Sample ID	MW-67-185-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	10/06/2020

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)
13:59	300	1200	32.5	7.34	7806	66.8	3.20	8	169.24	4.27	5.08
14:03	300	2400	32.3	7.32	7835	81.8	3.03	8	169.24	4.00	5.1
14:07	300	3600	32.0	7.31	7869	89.1	2.91	5	169.24	4.31	5.12
14:11	300	4800	32.0	7.30	7876	91.2	2.86	5	169.24	4.32	5.12
14:15	300	169.24	32.0	7.29	7889	93.3	2.82	5	169.24	4.32	5.

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-83-180

Date	10/21/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	73.65
Water Quality Meter	YSI	Gallons in Well	17.35
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	180
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	106.35	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/21/2020	EB Time	
Sample Time	12:26	MS/MSD Sample ID	
Sample ID	MW-83-180-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	10/21/2020

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)
12:13	500	1500	29.2	7.79	12430	77.7	0.99	11	73.88	7.11	8.12
12:16	500	3000	29.7	7.76	12616	78.5	0.86	8	73.88	7.19	8.20
12:19	500	4500	29.9	7.77	12644	78.9	0.82	7	73.88	7.20	8.22
12:22	500	6000	30.0	7.78	12657	76.6	0.77	7	73.88	7.20	8.22
12:25	500	7500	30.0	7.78	12654	75.3	0.75	6	73.88	7.21	8.25

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?			X	
Required Actions				

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Action Completed?	X			
Action Completed Date				

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-117

Date	10/20/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	18.25
Water Quality Meter	YSI	Gallons in Well	16.29
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	118.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	107
Water Column in Well	99.86	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-773-Q420
Sample Date	10/20/2020	EB Time	15:50
Sample Time	15:17	MS/MSD Sample ID	
Sample ID	MW-75-117-1020	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter	7	Post Sampling Turbidity	
Turbidity		Purge Date	10/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
15:00	500	2000	28.5	7.56	13756	69.9	0.10	8	18.29	7.37	6.38
15:04	500	4000	28.5	7.56	13775	71.1	0.11	7	18.29	7.37	6.38
15:08	500	6000	28.6	7.57	13797	71.5	0.12	7	18.29	7.37	6.38
15:12	500	8000	28.6	7.57	13813	72.1	0.12	7	18.29	7.37	6.38
15:16	500	10000	28.7	7.57	13817	72.4	0.12	7	18.29	7.37	6.38

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-033

Date	10/19/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	17.96
Water Quality Meter	YSI	Gallons in Well	2.46
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	33
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	15.04	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/19/2020	EB Time	
Sample Time	15:43	MS/MSD Sample ID	
Sample ID	MW-75-033-1020	MS/MSD Sample Time	
Single Filter Turbidity	5	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	10/19/2020

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)
15:30	500	1500	28.0	7.64	7889	67.7	2.68	101	17.99	2.58	3.15
15:33	500	3000	28.1	7.66	7912	70.7	2.72	34	17.99	2.60	3.16
15:36	500	4500	28.1	7.67	7937	69.8	2.77	10	17.99	2.60	3.16
15:39	500	6000	28.2	7.66	7965	72.7	2.70	9	17.99	2.61	3.16
15:42	500	7500	28.2	7.67	7981	77.3	2.80	9	17.99	2.69	3.16

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
Required Actions				
Action Completed?	X			
Action Completed Date				

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-84-057

Date	10/20/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	44.48
Water Quality Meter	YSI	Gallons in Well	2.05
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	57.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	49.5
Water Column in Well	12.53	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/20/2020	EB Time	
Sample Time	11:31	MS/MSD Sample ID	
Sample ID	MW-84-057-1020	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	1	Post Sampling Turbidity	
Turbidity		Purge Date	10/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:14	500	2000	29.8	7.74	2171	101.2	5.18	2	44.52	1.00	1.29
11:18	500	4000	29.8	7.74	2177	101.2	5.19	1	44.52	1.00	1.29
11:22	500	6000	29.8	7.84	2178	101.2	5.07	1	44.52	1.00	1.29
11:26	500	8000	29.8	7.74	2175	101.1	5.09	1	44.52	1.00	1.29
11:30	500	10000	29.8	7.74	2176	101.3	5.11	1	44.52	1.00	1.29

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-84-095

Date	10/20/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	44.39
Water Quality Meter	YSI	Gallons in Well	8.26
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	95.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Water Column in Well	50.61	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/20/2020	EB Time	
Sample Time	10:47	MS/MSD Sample ID	
Sample ID	MW-84-095-1020	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	10/20/2020

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)
10:30	500	2000	29.8	7.37	6907	104.5	1.11	10	44.43	3.42	4.10
10:34	500	4000	29.9	7.40	6917	104.2	1.03	9	44.43	3.42	4.10
10:38	500	6000	30.0	7.41	6923	104.4	1.02	9	44.43	3.42	4.10
10:42	500	8000	30.0	7.42	6928	104.2	1.05	9	44.43	3.42	4.10
10:46	500	10000	30.0	7.42	6933	100.3	1.06	9	44.43	3.42	4.10

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-84-132

Date	10/20/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	45.08
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	134
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	88.92	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/20/2020	EB Time	
Sample Time	10:35	MS/MSD Sample ID	
Sample ID	MW-84-132-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	10/20/2020

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)
10:21	500	1500	30.3	7.59	9973	32.6	0.96	9	45.16	5.56	6.47
10:24	500	3000	30.4	7.59	9902	28.5	0.91	6	45.16	5.52	6.42
10:27	500	4500	30.5	7.59	9864	26.2	0.86	6	45.16	5.50	6.40
10:30	500	6000	30.4	7.59	9812	24.6	0.82	6	45.16	5.47	6.37
10:33	500	7500	30.4	7.59	9784	22.9	0.81	5	45.16	5.46	6.39

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-84-193

Date	10/20/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	44.93
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	194.41
Casing Material	PVC	Odor	none
Water Column in Well	149.48	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/20/2020	EB Sample ID	
Sample Time	09:46	EB Time	
Sample ID	MW-84-193-1020	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	4	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	10/20/2020

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	1500	30.3	7.78	14394	63.3	1.17	10	45.18	8.23	9.30
09:36	500	3000	30.5	7.80	14187	58.6	1.11	7	45.18	8.13	9.18
09:39	500	4500	30.5	7.81	14027	54.4	0.90	5	45.18	8.25	9.11
09:42	500	6000	30.6	7.82	14081	51.3	0.88	5	45.18	8.09	9.15
09:45	500	7500	30.6	7.83	14056	48.4	0.84	4	45.18	8.06	9.13

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	
Erosion Around Wellhead?	X			
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?			X	
Required Actions				
Action Completed?	X			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Action Completed Date				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-87-192

Date	10/20/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.65
Water Quality Meter	YSI	Gallons in Well	16.72
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	193.15
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	182
Water Column in Well	102.50	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/20/2020	EB Time	
Sample Time	14:01	MS/MSD Sample ID	
Sample ID	MW-87-192-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	10/20/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:44	500	2000	29.8	7.44	10225	11.9	0.26	5	90.69	5.21	6.08
13:48	500	4000	30.1	7.44	10305	13.7	0.32	4	90.69	5.21	6.08
13:52	500	6000	30.3	7.45	10361	14.9	0.35	4	90.69	5.21	6.08
13:56	500	8000	30.5	7.45	10440	15.0	0.45	4	90.69	5.21	6.08
14:00	500	10000	30.7	7.50	10557	18.6	0.71	4	90.69	5.21	6.08

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**

MW-87-275

Date	10/20/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.51
Water Quality Meter	YSI	Gallons in Well	30.30
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	276.26
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	265
Water Column in Well	185.75	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/20/2020	EB Time	
Sample Time	13:01	MS/MSD Sample ID	
Sample ID	MW-87-275-1020	MS/MSD Sample Time	
Duplicate Sample ID	MW-926-Q420	Double Filter Turbidity	
Dup Sample Time	13:11	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	10/20/2020
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)
12:44	500	2000	29.7	7.55	12674	99.3	1.17	3	90.55	6.57	7.55
12:48	500	4000	29.88	7.56	12705	98.9	1.11	2	90.55	6.57	7.55
12:52	500	6000	29.9	7.57	12715	98.8	1.12	2	90.55	6.57	7.55
12:56	500	8000	29.9	7.59	12729	98.7	1.11	2	90.55	6.57	7.55
13:00	500	10000	30.0	7.61	12750	98.5	1.09	2	90.55	6.57	7.55

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**

MW-87-109

Date	10/20/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.30
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	111.00
Casing Material	PVC	Odor	none
Water Column in Well	20.71	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/20/2020	EB Sample ID	
Sample Time	12:46	EB Time	
Sample ID	MW-87-109-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	10/20/2020

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)
12:33	100	300	28.6	7.83	2965	33.1	4.47	16	90.37	1.38	1.74
12:36	100	600	28.6	7.82	2694	37.9	4.26	8	90.37	1.38	1.75
12:39	100	900	28.6	7.82	2687	38.9	4.04	7	90.37	1.39	1.75
12:42	100	1200	28.6	7.82	2673	40.4	3.96	7	90.37	1.40	1.82
12:45	100	1500	28.6	7.82	2671	42.7	3.81	6	90.37	1.40	1.82

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	
Required Actions				

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Action Completed?	X			
Action Completed Date				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-87-139

Date	10/20/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.28
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	141.26
Casing Material	PVC	Odor	none
Water Column in Well	50.98	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/20/2020	EB Sample ID	
Sample Time	11:38	EB Time	
Sample ID	MW-87-139-1020	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	6	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	10/20/2020

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)
11:25	100	300	28.3	7.53	5765	-82.1	2.24	10	90.30	3.10	3.78
11:28	100	600	28.5	7.46	5762	-87.0	1.96	7	90.30	3.10	3.74
11:31	100	900	28.5	7.40	5759	-90.3	1.86	7	90.30	3.10	3.74
11:34	100	1200	28.5	7.40	5769	-93.4	1.81	7	90.30	3.10	3.73
11:37	100	1500	28.6	7.41	5742	-94.2	1.80	6	90.30	3.10	3.73

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			
Required Actions				
Action Completed?	X			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Action Completed Date				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-76-218

Date	10/21/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	26.66
Water Quality Meter	YSI	Gallons in Well	31.48
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	219.65
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	213
Water Column in Well	192.99	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/21/2020	EB Time	
Sample Time	10:47	MS/MSD Sample ID	
Sample ID	MW-76-218-1020	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	1	Post Sampling Turbidity	
Turbidity		Purge Date	10/21/2020

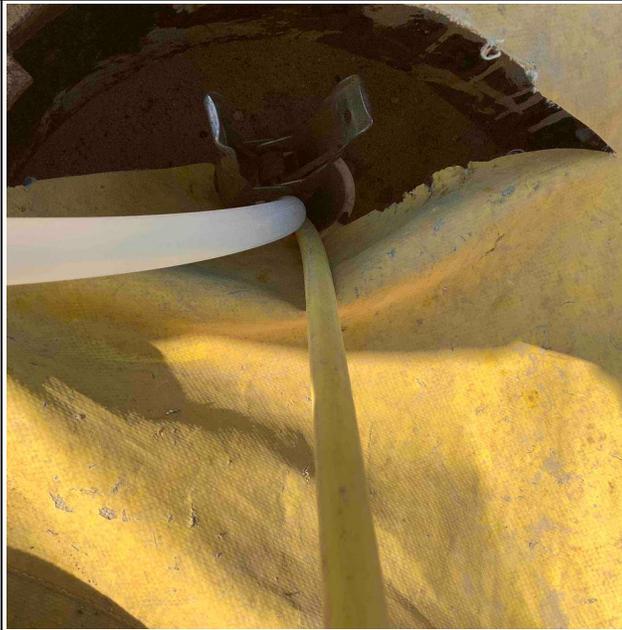
Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:30	500	2000	28.7	8.61	25235	94.1	0.13	2	26.69	13.58	14.77
10:34	500	4000	28.8	8.60	25241	95.8	0.13	1	26.69	13.58	14.77
10:38	500	6000	28.9	8.60	25248	95.7	0.13	1	26.69	13.58	14.77
10:42	500	8000	28.9	8.60	25250		0.13	1	26.69	13.58	14.77
10:46	500	8000	28.9	8.61	25266	95.4	0.13	1	26.69	13.58	14.77

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		
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-76-181

Date	10/21/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	26.88
Water Quality Meter	YSI	Gallons in Well	25.42
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	182.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	176
Water Column in Well	155.83	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/21/2020	EB Time	
Sample Time	11:37	MS/MSD Sample ID	
Sample ID	MW-76-181-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	10/21/2020

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)
11:20	500	2000	28.8	7.66	22091	46.9	0.15	3	26.91	12.25	13.38
11:24	500	4000	28.8	7.65	22106	51.1	0.14	2	26.91	12.25	13.38
11:28	500	6000	28.8	7.65	22118	53.1	0.14	2	26.91	12.25	13.38
11:32	500	8000	28.9	7.64	22160	56.9	0.14	2	26.91	12.25	13.38
11:36	500	10000	28.9	7.63	22179	58.7	0.13	2	26.91	12.25	13.38

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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-76-156

Date	10/21/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	26.57
Water Quality Meter	YSI	Gallons in Well	21.08
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	155.76
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	152
Water Column in Well	129.19	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/21/2020	EB Time	
Sample Time	12:45	MS/MSD Sample ID	
Sample ID	MW-76-156-1020	MS/MSD Sample Time	
Duplicate Sample ID	MW-925-Q420	Double Filter Turbidity	
Dup Sample Time	12:55	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	10/21/2020
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)
12:28	500	2000	29.0	7.64	18667	-5.0	0.12	3	26.60	9.98	11.09
12:32	500	4000	29.0	7.62	18377	-4.1	0.12	2	26.60	9.98	11.09
12:36	500	6000	29.0	7.64	18408	-3.9	0.12	2	26.60	9.98	11.09
12:40	500	8000	29.0	7.65	18428	-2.8	0.12	2	26.60	9.98	11.09
12:44	500	10000	29.0	7.65	18429	-2.1	0.11	2	26.60	9.98	11.09

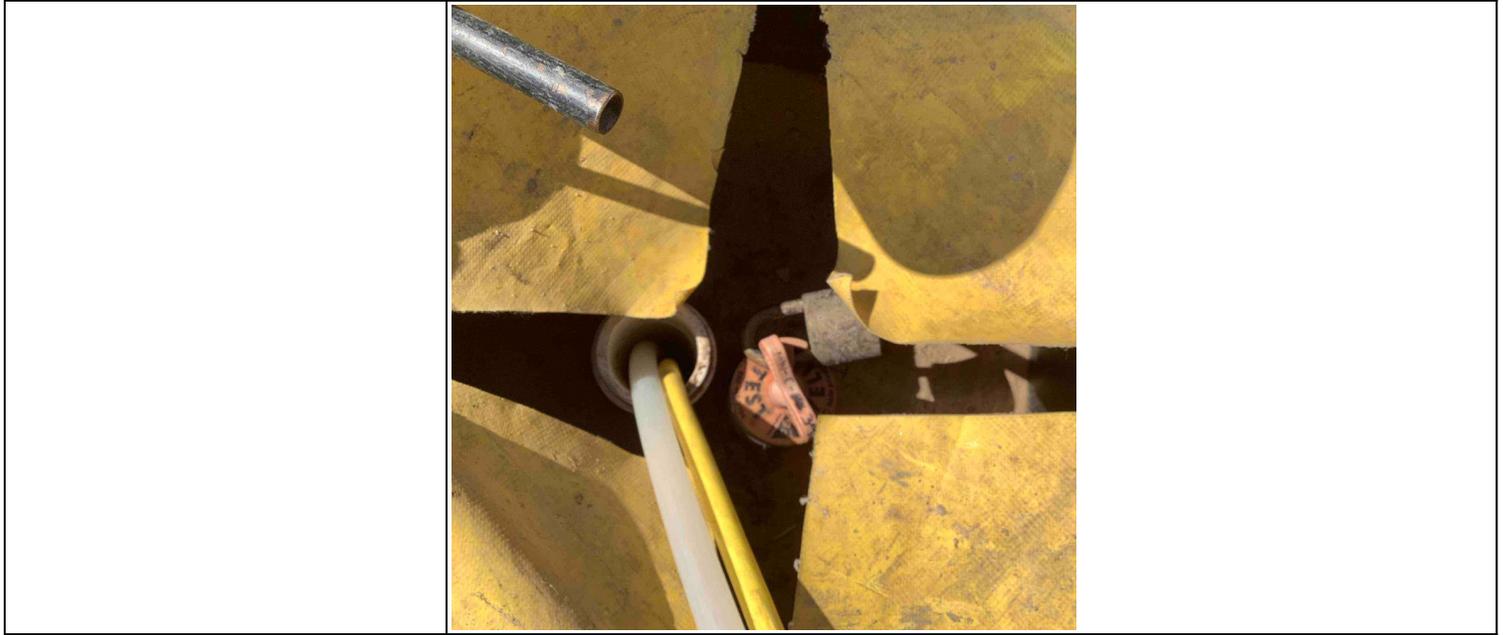
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded Water?		X		
Lock in Place?	X			
Evidence of well subsidence?		X		
Well Labeled on Casing or Pad?	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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-76-039

Date	10/21/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	26.09
Water Quality Meter	YSI	Gallons in Well	1.99
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	38.27
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	34
Water Column in Well	12.19	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-775-Q420'k
Sample Date	10/21/2020	EB Time	14:00
Sample Time	13:31	MS/MSD Sample ID	
Sample ID	MW-76-039-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	10/21/2020

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)
13:14	500	2000	29.2	7.53	3997	14.2	1.97	5	26.12	1.93	2.40
13:18	500	4000	29.3	7.52	4006	15.8	2.04	4	26.12	1.93	2.40
13:22	500	6000	29.4	7.52	4023	17.3	2.07	4	26.12	1.93	2.40
13:26	500	8000	29.3	7.51	4004	19.1	1.98	4	26.12	1.93	2.40
13:30	500	10000	29.3	7.51	4011	21.6	1.98	4	26.12	1.93	2.40

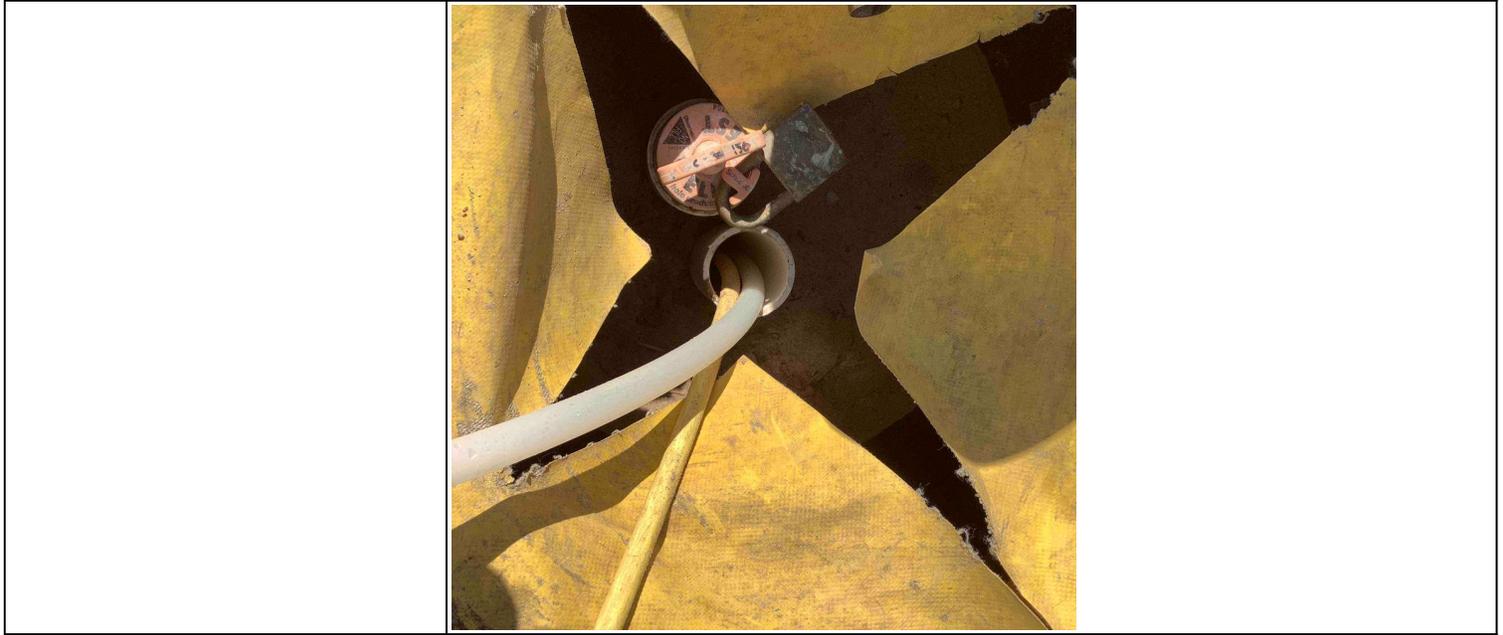
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-75-337

Date	10/20/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	19.84
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	338.50
Casing Material	PVC	Odor	none
Water Column in Well	318.66	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/20/2020	EB Sample ID	EB-772-Q420
Sample Time	15:16	EB Time	16:00
Sample ID	MW-75-337-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	4	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	10/20/2020

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)
15:03	500	1500	28.9	7.81	32446	-88.0	0.66	6	20.03	20.18	21.11
15:06	500	3000	29.0	7.84	32409	-95.8	0.32	5	20.03	20.08	21.11
15:09	500	4500	29.0	7.82	32199	-101.8	0.28	5	20.03	19.96	20.91
15:12	500	6000	29.0	7.79	32092	-108.7	0.19	5	20.03	19.97	20.93
15:15	500	7500	29.1	7.82	32312	-114.8	0.22	4	20.03	20.08	21.01

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	
Required Actions				

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Action Completed?	X			
Action Completed Date				

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-267

Date	10/19/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	17.69
Water Quality Meter	YSI	Gallons in Well	40.93
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	268.58
Casing Material	Stainless Steel	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	258
Water Column in Well	250.89	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/19/2020	EB Time	
Sample Time	14:01	MS/MSD Sample ID	MW-75-267-1020
Sample ID	MW-75-267-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	10/19/2020

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)
13:44	500	2000	29.7	7.30	26755	-167.8	0.22	5	17.73	14.85	15.98
13:48	500	4000	29.4	7.36	26720	-167.8	0.21	4	17.73	14.85	15.98
13:52	500	6000	29.4	7.38	26814	-168.5	0.21	4	17.73	14.85	15.98
13:56	500	6000	29.4	7.40	26999	-159.4	0.21	4	17.73	14.85	15.98
14:00	500	10000	29.5	7.43	27164	-159.8	0.21	4	17.73	14.85	15.98

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-202

Date	10/19/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	17.96
Water Quality Meter	YSI	Gallons in Well	30.40
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	204.31
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	194
Water Column in Well	186.35	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-771-Q420
Sample Date	10/19/2020	EB Time	15:45
Sample Time	15:17	MS/MSD Sample ID	
Sample ID	MW-75-202-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	10/19/2020

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)
15:00	500	2000	28.8	7.60	19985	-74.0	0.13	4	18.00	10.95	12.09
15:04	500	4000	28.9	7.61	20011	-60.0	0.13	3	18.00	10.95	12.09
15:08	500	6000	28.9	7.61	20022	-59.9	0.13	3	18.00	10.95	12.09
15:12	500	8000	28.9	7.62	20051	-58.5	0.13	3	18.00	10.95	12.09
15:16	500	10000	28.9	7.62	20061	-57.8	0.12	3	18.00	10.95	12.09

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-93-050

Date	10/21/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	31
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	51.65
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	20.65	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/21/2020	EB Time	
Sample Time	08:53	MS/MSD Sample ID	
Sample ID	MW-93-050-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	10/21/2020

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)
08:40	500	1500	27.3	7.88	5133	143.2	3.54	10	31.33	2.75	3.33
08:43	500	3000	27.5	7.90	5192	147.3	1.88	6	31.33	2.77	3.33
08:46	500	4500	27.5	7.90	5172	150.2	1.74	6	31.33	2.77	3.33
08:49	500	6000	27.5	7.91	5193	153.7	1.72	5	31.33	2.77	3.34
08:52	500	7500	27.5	7.90	5218	147.8	1.70	5	31.33	2.77	3.34

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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
Required Actions				
Action Completed?	X			
Action Completed Date				

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-93-213

Date	10/21/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	30.5
Water Quality Meter	YSI	Gallons in Well	30.03
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	214.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	210
Water Column in Well	184.08	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/21/2020	EB Time	
Sample Time	09:17	MS/MSD Sample ID	
Sample ID	MW-93-213-1020	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	10/21/2020

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)
09:00	500	2000	26.9	7.62	16407	60.5	0.22	9	30.56	9.22	10.29
09:04	500	4000	26.9	7.62	16408	60.6	0.21	8	30.56	9.22	10.29
09:08	500	6000	26.9	7.63	16413	62.3	0.20	8	30.56	9.22	10.29
09:12	500	8000	26.9	7.63	16423	63.4	0.20	8	30.56	9.22	10.29
09:16	500	10000	27.1	7.63	16437	63.7	0.19	8	30.56	9.22	10.29

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-95-113

Date	10/20/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	96.88
Water Quality Meter	YSI	Gallons in Well	3.41
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	117.74
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	20.86	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/20/2020	EB Time	
Sample Time	08:46	MS/MSD Sample ID	
Sample ID	MW-95-113-1020	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	10/20/2020

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)
08:33	100	300	26.5	7.48	2165	-61.5	3.06	18	96.90	0.83	1.06
08:36	100	600	26.6	7.50	2122	-55.9	3.00	11	96.90	0.84	1.06
08:39	100	900	26.6	7.50	2109	-53.9	2.96	7	96.90	0.83	1.06
08:42	100	1200	26.6	7.50	2098	-51.0	2.91	7	96.90	0.84	1.05
08:45	100	1500	26.6	7.50	2084	-49.7	2.87	6	96.90	0.83	1.06

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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
Required Actions				
Action Completed?	X			
Action Completed Date				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-95-157

Date	10/20/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/20/2020	EB Sample ID	
Sample Time	08:06	EB Time	
Sample ID	MW-95-157-1020	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	10/20/2020

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)
07:53	100	300	26.9	7.18	5683	-126.7	2.14	13	96.88	2.59	3.15
07:56	100	600	26.9	7.16	5622	-121.9	2.08	10	96.88	2.60	3.15
07:59	100	900	26.8	7.15	5647	-117.9	2.00	8	96.88	2.59	3.15
08:02	100	1200	26.9	7.15	5624	-114.5	1.97	7	96.88	2.60	3.14
08:05	100	1500	26.9	7.17	5677	-111.9	1.92	7	96.88	2.58	3.14

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	
Required Actions				

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Action Completed?	X			
Action Completed Date				

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-96-045

Date	10/21/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	28.76
Water Quality Meter	YSI	Gallons in Well	2.95
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	46.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	18.04	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	10/21/2020	EB Time	
Sample Time	14:15	MS/MSD Sample ID	
Sample ID	MW-96-045-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	10/21/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI 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	1500	27.8	7.61	16638	61.1	0.89	1000	28.88	2.33	18.89
13:56	500	3000	27.4	7.55	15810	60.5	0.78	187	28.88	3.16	19.37
13:59	500	4500	27.4	7.51	14911	52.6	0.71	62	28.88	3.27	19.41
14:02	500	6000	27.6	7.47	14264	47.3	0.66	27	28.88	3.30	19.40
14:05	500	7500	27.4	7.45	13892	40.9	0.63	18	28.88	3.30	19.40
14:08	500	9000	27.3	7.48	13427	31.2	0.57	10	28.88	3.30	19.40
14:11	500	10500	27.3	7.50	13388	28.6	0.62	9	28.88	3.30	19.40
14:14	500	12000	27.2	7.50	13117	25.3	0.60	9	28.88	3.30	19.41

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?			X	
Required Actions				
Action Completed?	X			
Action Completed Date				

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-96-217

Date	10/21/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	28.93
Water Quality Meter	YSI	Gallons in Well	30.92
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	218.45
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	189.52	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-774-Q420
Sample Date	10/21/2020	EB Time	16:00
Sample Time	15:15	MS/MSD Sample ID	
Sample ID	MW-96-217-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	10	Post Sampling Turbidity	
		Purge Date	10/21/2020

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)
14:53	500	1500	27.8	7.83	20111	-17.9	1.86	1000	29.16	3.19	20.18
14:56	500	3000	27.5	7.86	20187	-31.6	1.02	106	29.16	3.20	20.20
14:59	500	4500	27.3	7.91	20172	-42.7	0.77	62	29.16	3.20	20.20
15:02	500	6000	27.3	7.93	20120	-59.9	0.47	31	29.16	3.20	20.20
15:05	500	7500	27.2	7.93	20147	-66.2	0.38	18	29.16	3.20	20.20
15:08	500	9000	27.3	7.93	20196	-71.8	0.31	11	29.16	3.20	20.20
15:11	500	10500	27.3	7.95	20182	-74.3	0.27	10	29.16	3.20	20.20
15:14	500	12000	27.2	7.95	20167	-80.1	0.26	10	29.16	3.20	20.20

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?			X	
Required Actions				
Action Completed?	X			
Action Completed Date				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-99-140

Date	10/22/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	44.29
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	141.48
Casing Material	PVC	Odor	none
Water Column in Well	97.19	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	10/22/2020	EB Sample ID	
Sample Time	09:46	EB Time	
Sample ID	MW-99-140-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	7	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	10/22/2020

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	1500	30.5	7.75	2239	63.6	1.16	37	44.44	1.12	1.44
09:36	500	3000	30.6	7.70	2192	53.8	1.04	22	44.44	1.11	1.42
09:39	500	4500	30.6	7.65	2186	44.8	0.88	10	44.44	1.10	1.42
09:42	500	6000	30.6	7.65	2183	41.9	0.81	10	44.44	1.10	1.42
09:45	500	7500	30.6	7.66	2178	39.6	0.77	9	44.44	1.10	1.42

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			
Required Actions				

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Action Completed?	X			
Action Completed Date				

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-99-060

Date	10/22/2020	Sampler	Garrett graves
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	46.12
Water Quality Meter	YSI	Gallons in Well	2.50
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	61.39
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	15.28	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-776-Q420
Sample Date	10/22/2020	EB Time	11:00
Sample Time	10:38	MS/MSD Sample ID	
Sample ID	MW-99-060-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	10/22/2020

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)
10:25	500	1500	30.6	7.78	2486	52.6	2.19	33	46.37	1.27	1.61
10:28	500	3000	30.7	7.74	2482	51.1	1.87	16	46.37	1.27	1.61
10:31	500	4500	30.7	7.71	2487	50.0	1.76	9	46.37	1.27	1.61
10:34	500	6000	30.8	7.70	2488	48.7	1.74	9	46.37	1.27	1.61
10:37	500	7500	30.8	7.69	2459	47.3	1.72	9	46.37	1.27	1.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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
Required Actions				
Action Completed?	X			
Action Completed Date				

Photos and Drawings

**Site: PGE Topock
Topock, CA**

TW-03D

Date	11/03/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Extraction Port	Casing Volume to Remove	
Purge Volume Units	gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Extraction port	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Sample Date	11/03/2020	Pump Intake Depth (ft bmp)	
Sample Time	10:50	Total Volume to Remove	
Sample ID	TW-03D-Q420	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	4	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/03/2020

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)
10:50	1	5	25.7	7.25	7467	152.8	3.40	4		5.10	5.28

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			

Photos and Drawings

Site: PGE Topock
Topock, CA



Site: PGE Topock
Topock, CA

MW-93-050

Date	11/16/2020	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)	31.66
Water Quality Meter	YSI	Gallons in Well	3.27
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	51.65
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	45
Water Column in Well	19.99	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-785-1120
Sample Date	11/16/2020	EB Time	15:00
Sample Time	13:49	MS/MSD Sample ID	
Sample ID	MW-93-050-Q420	MS/MSD Sample Time	
Single Filter Turbidity	7	Double Filter Turbidity	1
Without Filter Turbidity	22	Post Sampling Turbidity	
		Purge Date	11/16/2020

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)
13:32	500	2000	27.4	7.66	4291	27.9	1.08	84	31.75	2.41	2.75
13:36	500	4000	28.0	7.66	4308	33.5	1.04	42	31.75	2.42	2.76
13:40	500	6000	28.2	7.67	4321	39.2	1.01	24	31.75	2.44	2.77
13:44	500	8000	28.2	7.67	4336	42.1	0.98	22	31.75	2.45	2.78
13:48	500	10000	28.2	7.67	4346	45.8	0.95	22	31.75	2.45	2.78

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-93-213

Date	11/16/2020	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)	31.17
Water Quality Meter	YSI	Gallons in Well	29.92
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	214.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	204
Water Column in Well	183.42	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/16/2020	EB Time	
Sample Time	13:04	MS/MSD Sample ID	
Sample ID	MW-93-213-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	11/16/2020

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)
12:47	500	2000	27.2	7.45	14989	9.8	1.50	11	31.27	8.84	9.59
12:51	500	4000	27.3	7.47	15147	15.2	1.2	9	31.27	8.91	9.69
12:55	500	6000	27.3	7.48	15324	18.2	1.08	6	31.27	8.96	9.8
12:59	500	8000	27.3	7.49	15464	20.1	1.05	6	31.27	9.01	9.89
13:03	500	10000	27.3	7.5	15514	23.1	0.99	5	31.27	9.03	9.93

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-95-113

Date	11/18/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	108
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	11/18/2020	EB Sample ID	
Sample Time	10:37	EB Time	
Sample ID	MW-95-113-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	15	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
10:20	300	1200	26.0	7.37	3688	44.2	2.54	28	97.41	1.81	2.36
10:24	300	2400	26.2	7.40	3680	42.5	2.31	20	97.41	1.81	2.36
10:28	300	3600	26.2	7.42	3666	40.3	2.18	15	97.41	1.77	2.34
10:32	300	4800	26.4	7.43	3661	39.7	2.14	15	97.41	1.77	2.34
10:36	300	6000	26.4	7.44	3657	38.6	2.1	15	97.41	1.77	2.34

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	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-95-157

Date	11/18/2020	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)	97.22
Water Quality Meter	YSI	Gallons in Well	10.49
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	161.49
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	151
Water Column in Well	64.28	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/18/2020	EB Time	
Sample Time	08:44	MS/MSD Sample ID	
Sample ID	MW-95-157-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-927-1120	Double Filter Turbidity	
Dup Sample Time	08:54	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	11/18/2020
Without Filter Turbidity	8		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:27	300	1200	25.6	7.41	5508	84.3	3.14	13	97.36	2.86	3.52
08:31	300	2400	25.7	7.41	5502	81.5	3.01	10	97.36	2.86	3.52
08:35	300	3600	25.8	7.41	5498	78.8	2.89	8	97.36	2.84	3.51
08:39	300	4800	25.8	7.41	5495	76.2	2.84	8	97.36	2.84	3.51
08:43	300	6000	25.8	7.41	5492	74.3	2.80	8	97.36	2.84	3.51

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-70BR-289-245

Date	11/18/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	245
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	11/18/2020	EB Sample ID	
Sample Time	14:30	EB Time	
Sample ID	MW-70BR-289-245-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	24	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
14:13	500	2000	28.4	7.58	16125	21.8	3.18	24	81.71	8.94	9.92
14:17	500	4000	28.4	7.58	16009	14.2	2.68	24	81.71	8.94	9.92
14:21	500	6000	28.3	7.58	15999	12.7	2.57	24	81.71	8.94	9.92
14:25	500	8000	28.3	7.58	15994	11.8	2.53	24	81.71	8.94	9.92
14:29	500	10000	28.3	7.58	15989	11	2.49	24	81.71	8.94	9.92

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	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-70BR-289-261

Date	11/18/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	261
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	11/18/2020	EB Sample ID	
Sample Time	13:50	EB Time	
Sample ID	MW-70BR-289-261-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	20	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
13:33	500	2000	28.3	7.63	16024	30.1	3.29	33	81.71	8.89	9.87
13:37	500	4000	28.3	7.64	16018	24.5	2.91	27	81.71	8.89	9.87
13:41	500	6000	28.3	7.65	16014	20	2.72	20	81.71	8.89	9.87
13:45	500	8000		7.65	16009	17.4	2.68	20	81.71	8.89	9.87
13:49	500	10000	28.3	7.65	16004	15.9	2.64	20	81.71	8.89	9.87

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-70BR-289-279

Date	11/18/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	279
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	11/18/2020	EB Sample ID	
Sample Time	13:14	EB Time	
Sample ID	MW-70BR-289-279-Q420	MS/MSD Sample ID	
Single Filter Turbidity	11	MS/MSD Sample Time	
Without Filter Turbidity	48	Double Filter Turbidity	2
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
12:57	500	2000	27.9	7.58	15122	36.8	3.68	200	81.71	8.79	9.67
13:01	500	4000	28	7.6	16143	27.8	3.21	114	81.71	9	9.94
13:05	500	6000	28.1	7.62	16547	22.9	3.05	48	81.71	9.05	9.98
13:09	500	8000	28.1	7.63	16620	18.4	3	48	81.71	9.1	10.03
13:13	500	10000	28.1	7.64	16661	15.8	2.97	48	81.71	9.14	10.07

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	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-96-045

Date	11/17/2020	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)	29.6
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	40
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	11/17/2020	EB Sample ID	
Sample Time	12:49	EB Time	
Sample ID	MW-96-045-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	10	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	11/17/2020

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)
12:32	500	2000	27.4	7.54	11901	4.2	0.46	24	29.77	7	7.85
12:36	500	4000	27.4	7.54	11645	-3.6	0.39	16	29.77	6.79	7.66
12:40	500	6000	27.4	7.55	11497	-6.1	0.33	11	29.77	6.55	7.5
12:44	500	8000	27.4	7.55	11312	-9.9	0.28	10	29.77	6.4	7.36
12:48	500	10000	27.4	7.55	11134	-13.8	0.25	10	29.77	6.3	7.23

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	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-96-217

Date	11/17/2020	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)	29.74
Water Quality Meter	YSI	Gallons in Well	30.78
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	218.45
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	212
Water Column in Well	188.71	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/17/2020	EB Time	
Sample Time	12:01	MS/MSD Sample ID	
Sample ID	MW-96-217-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	10	Post Sampling Turbidity	
Turbidity		Purge Date	11/17/2020

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	26.8	7.47	15110	-50.1	0.66	27	29.74	8.77	9.81
11:48	500	4000	26.8	7.47	15112	-59.8	0.44	19	29.74	8.77	9.81
11:52	500	6000	26.8	7.47	15117	-64.7	0.35	11	29.74	8.77	9.81
11:56	500	8000	26.8	7.47	15117	-66.8	0.30	10	29.74	8.77	9.81
12:00	500	10000	26.8	7.47	15115	-68.9	0.28	10	29.74	8.77	9.81

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

MW-97-202

Date	11/17/2020	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)	27.46
Water Quality Meter	YSI	Gallons in Well	28.31
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	200.98
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	190
Water Column in Well	173.52	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/17/2020	EB Time	
Sample Time	09:04	MS/MSD Sample ID	
Sample ID	MW-97-202-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	16	Post Sampling Turbidity	
		Purge Date	11/17/2020

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)
08:47	500	2000	26.8	7.37	15246	119.6	0.95	44	27.54	9.01	10.05
08:51	500	4000	27.1	7.37	15422	122.4	0.74	27	27.54	9.08	10.16
08:55	500	6000	27.3	7.38	15687	124.9	0.57	18	27.54	9.13	10.22
08:59	500	8000	27.3	7.38	15722	127.1	0.53	16	27.54	9.17	10.26
09:03	500	10000	27.4	7.38	15843	128.6	0.49	16	27.54	9.21	10.3

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-97-043

Date	11/17/2020	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)	27.18
Water Quality Meter	YSI	Gallons in Well	2.25
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	40.97
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	38
Water Column in Well	13.79	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/17/2020	EB Time	
Sample Time	09:53	MS/MSD Sample ID	
Sample ID	MW-97-043-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	20	Post Sampling Turbidity	
		Purge Date	11/17/2020

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)
09:36	500	2000	28.6	7.67	2801	-44.7	0.88	44	27.27	1.44	1.82
09:40	500	4000	28.6	7.67	2803	-53.8	0.63	31	27.27	1.44	1.82
09:44	500	6000	28.6	7.67	2806	-59.4	0.41	22	27.27	1.44	1.82
09:48	500	8000	28.6	7.67	2809	-60.8	0.36	21	27.27	1.44	1.82
09:52	500	10000	28.6	7.67	2809	-64.8	0.31	20	27.27	1.44	1.82

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-98-077

Date	11/17/2020	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)	46.19
Water Quality Meter	YSI	Gallons in Well	5.68
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	81
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	72
Water Column in Well	34.81	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/17/2020	EB Time	
Sample Time	14:16	MS/MSD Sample ID	
Sample ID	MW-98-077-Q420	MS/MSD Sample Time	
Single Filter Turbidity	9	Double Filter Turbidity	1
Without Filter Turbidity	30	Post Sampling Turbidity	
		Purge Date	11/17/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:59	500	2000	30	7.7	10967	-11.1	0.41	60	46.27	6.18	7.13
14:03	500	4000	30.3	7.71	11094	-14.8	0.36	46	46.27	6.26	7.2
14:07	500	6000	30.5	7.73	11184	-17.1	0.31	33	46.27	6.33	7.26
14:11	500	8000	30.5	7.73	11312	-19.8	0.27	31	46.27	6.38	7.32
14:15	500	10000	30.6	7.74	11438	-22.3	0.23	30	46.27	6.41	7.38

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

MW-98-055

Date	11/17/2020	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)	46.18
Water Quality Meter	YSI	Gallons in Well	2.13
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	59.18
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	53
Water Column in Well	13.00	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/17/2020	EB Time	
Sample Time	15:10	MS/MSD Sample ID	
Sample ID	MW-98-055-Q420	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	18	Post Sampling Turbidity	
		Purge Date	11/17/2020

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)
14:53	500	2000	29.3	7.92	3566	-9	1.04	26	46.3	1.86	2.3
14:57	500	4000	30	7.93	3592	-18.9	0.77	21	46.3	1.87	2.3
15:01	500	6000	30.3	7.94	3601	-26.5	0.66	19	46.3	1.88	2.3
15:05	500	8000	30.3	7.95	3606	-29.1	0.6	18	46.3	1.88	2.3
15:09	500	10000	30.3	7.96	3612	-33.8	0.56	18	46.3	1.88	2.3

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

C-BNS

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	11.2
Comments	2102139.88ft N, 7616945.70 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	10.2
Sample Date	11/18/2020	Total Volume to Remove	
Sample Time	09:38	EB Sample ID	
Sample ID	C-BNS-Q420	EB Time	
Duplicate Sample ID	MW-921-Q420	MS/MSD Sample ID	
Dup Sample Time	09:48	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
09:37	500	2500	17.1	8.68	816	14.8	7.58	2		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR3-D

Date	11/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	8.0
Comments	2106758.27 ft N, 7611720.87 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	7.0
Sample Date	11/19/2020	Total Volume to Remove	
Sample Time	09:42	EB Sample ID	
Sample ID	C-NR3-D-Q420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	2	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/19/2020

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)
09:41	500	2500	17.2	8.64	814	13.3	7.60	2		0.40	0.52

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR4-D

Date	11/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	8.0
Comments	2108623.93 ft N, 7607995.37 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	7
Sample Date	11/19/2020	Total Volume to Remove	
Sample Time	10:17	EB Sample ID	
Sample ID	C-NR4-D-Q420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	1	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/19/2020

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)
10:16	500	2500	17.0	8.61	816	19.4	7.90	1		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R22A-D

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	5.3
Comments	2101640.79 ft N, 7616968.93 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	4.3
Sample Date	11/18/2020	Total Volume to Remove	
Sample Time	09:10	EB Sample ID	
Sample ID	C-R22A-D-Q420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	2	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
09:09	500	2500	17.0	8.66	817	12.6	7.25	2		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R27-D

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	5.1
Comments	2102562.16 ft N, 7616720.34 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	4.1
Sample Date	11/18/2020	Total Volume to Remove	
Sample Time	10:15	EB Sample ID	
Sample ID	C-R27-D-Q420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	2	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
10:14	500	2500	17.3	8.66	814	17.9	7.55	2		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-TAZ-D

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	
Did Well Dewater?	No	Odor	none
Sample Date	11/18/2020	Pump Intake Depth (ft bmp)	10.5
Sample Time	07:41	Total Volume to Remove	
Sample ID	C-TAZ-D-Q420	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	3	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
07:39	500	2500	16.7	8.68	823	2.9	8.20	3		0.41	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

R-19

Date	11/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	4
Comments	2103324.48 ft N, 7616190.95 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	1
Sample Date	11/19/2020	Total Volume to Remove	
Sample Time	08:01	EB Sample ID	
Sample ID	R-19-Q420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	3	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/19/2020

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)
08:00	500	2500	16.8	8.59	817	2.0	5.70	3		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

R-28

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	4
Comments	2103081.10 ft N, 7616322.62 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	1
Sample Date	11/18/2020	Total Volume to Remove	
Sample Time	10:45	EB Sample ID	
Sample ID	R-28-Q420	EB Time	
Duplicate Sample ID	Mw-923-q420	MS/MSD Sample ID	
Dup Sample Time	10:55	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
10:44	500	2500	17.5	8.67	818	18.8	7.78	6		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

R63

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	5
Comments	2100805.88 ft N, 7617351.01 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	1
Sample Date	11/18/2020	Total Volume to Remove	
Sample Time	08:51	EB Sample ID	
Sample ID	R63-Q420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter	8	MS/MSD Sample Time	
Turbidity		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
08:50	500	2500	16.6	8.56	818	11.0	7.08	8		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

RRB

Date	11/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Water Quality Meter	YSI	Casing Volume to Remove	
Sampling Type	Surface water	Depth to Water (ft bmp)	
Comments	2104551.25 ft N, 7615272.77 ft E	Gallons in Well	
Did Well Dewater?	No	Measured Well Depth (ft bmp)	
Sample Date	11/19/2020	Odor	none
Sample Time	08:22	Pump Intake Depth (ft bmp)	
Sample ID	RRB-Q420	Total Volume to Remove	
Single Filter Turbidity	1	EB Sample ID	
Without Filter Turbidity	9	EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/19/2020

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)
08:22			15.0	8.65	818	13.0	5.10	9		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

SW1

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Water Quality Meter	YSI	Casing Volume to Remove	
Sampling Type	Surface water	Depth to Water (ft bmp)	
Comments	2101304.33 ft N, 7616721.61 ft E	Gallons in Well	
Did Well Dewater?	No	Measured Well Depth (ft bmp)	
Sample Date	11/18/2020	Odor	none
Sample Time	12:30	Pump Intake Depth (ft bmp)	
Sample ID	SW1-Q420	Total Volume to Remove	
Single Filter Turbidity	1	EB Sample ID	
Without Filter Turbidity	9	EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
12:30			20.4	8.33	884	29.2	4.69	9		0.44	0.57

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

SW2

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Water Quality Meter	YSI	Casing Volume to Remove	
Sampling Type	Surface water	Depth to Water (ft bmp)	
Comments	2101075.54 ft N, 7616903.93 ft E	Gallons in Well	
Did Well Dewater?	No	Measured Well Depth (ft bmp)	
Sample Date	11/18/2020	Odor	none
Sample Time	13:30	Pump Intake Depth (ft bmp)	
Sample ID	SW2-Q420	Total Volume to Remove	
Single Filter Turbidity	1	EB Sample ID	
Without Filter Turbidity	8	EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
13:30			16.0	8.08	876	31.9	5.30	8		0.43	0.57

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-CON-D

Date	11/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	9.3
Comments	2105630.94 ft N, 7614087.87 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	8.3
Sample Date	11/19/2020	Total Volume to Remove	
Sample Time	08:40	EB Sample ID	
Sample ID	C-CON-D-Q420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	3	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/19/2020

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)
08:39	500	2500	17.0	8.65	816	8.6	6.69	3		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-CON-S

Date	11/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	9.3
Did Well Dewater?	No	Odor	none
Sample Date	11/19/2020	Pump Intake Depth (ft bmp)	3
Sample Time	08:51	Total Volume to Remove	
Sample ID	C-CON-S-Q420	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	4	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/19/2020

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)
08:50	500	2600	17.0	8.65	816	9.8	6.89	4		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-I-3-D

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	11.5
Comments	2101056.44 ft N, 7617741.11 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	10.5
Sample Date	11/18/2020	Total Volume to Remove	
Sample Time	08:19	EB Sample ID	
Sample ID	C-I-3-D-Q420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	1	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
08:18	500	2500	16.8	8.67	818	12.9	6.66	1		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-I-3-S

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	11.5
Did Well Dewater?	No	Odor	none
Sample Date	11/18/2020	Pump Intake Depth (ft bmp)	2
Sample Time	08:30	Total Volume to Remove	
Sample ID	C-I-3-S-Q420	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	4	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
08:29	500	2500	16.8	8.69	816	12.8	6.80	4		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-MAR-D

Date	11/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	5.0
Comments	2102571.35 ft N, 7617735.24 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	4
Sample Date	11/19/2020	Total Volume to Remove	
Sample Time	07:32	EB Sample ID	
Sample ID	C-MAR-D-Q420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	7	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/19/2020

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)
07:31	500	2500	16.4	8.56	841	12.4	5.86	7		0.42	0.55

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-MAR-S

Date	11/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	5.0
Did Well Dewater?	No	Odor	none
Sample Date	11/19/2020	Pump Intake Depth (ft bmp)	1
Sample Time	07:44	Total Volume to Remove	
Sample ID	C-MAR-S-Q420	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	5	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/19/2020

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)
07:43	500	2500	16.6	8.50	830	2.7	5.50	5		0.41	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR1-D

Date	11/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	11.5
Comments	2106029.99 ft N, 7613284.50 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	10.5
Sample Date	11/19/2020	Total Volume to Remove	
Sample Time	09:11	EB Sample ID	
Sample ID	C-NR1-D-Q420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	1	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/19/2020

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)
09:10	500	2500	17.1	8.66	815	10.0	7.22	1		0.40	0.52

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR1-S

Date	11/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	11.5
Did Well Dewater?	No	Odor	none
Sample Date	11/19/2020	Pump Intake Depth (ft bmp)	1
Sample Time	09:22	Total Volume to Remove	
Sample ID	C-NR1-S-Q420	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	3	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/19/2020

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)
09:21	500	2500	17.2	8.66	815	10.8	7.37	3		0.40	0.52

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR3-S

Date	11/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	8.0
Did Well Dewater?	No	Odor	none
Sample Date	11/19/2020	Pump Intake Depth (ft bmp)	1
Sample Time	09:54	Total Volume to Remove	
Sample ID	C-NR3-S-Q420	EB Sample ID	
Duplicate Sample ID	Mw-922-q420	EB Time	
Dup Sample Time	10:04	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	5	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	11/19/2020

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)
09:53	500	2500	17.1	8.64	814	13.5	7.83	5		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-NR4-S

Date	11/19/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	8.0
Did Well Dewater?	No	Odor	none
Sample Date	11/19/2020	Pump Intake Depth (ft bmp)	1
Sample Time	10:28	Total Volume to Remove	
Sample ID	C-NR4-S-Q420	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	5	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/19/2020

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)
10:27	500	2500	17.0	8.58	813	20.2	8.05	5		0.40	0.52

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R22A-S

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	5.3
Did Well Dewater?	No	Odor	none
Sample Date	11/18/2020	Pump Intake Depth (ft bmp)	2.3
Sample Time	09:21	Total Volume to Remove	
Sample ID	C-R22A-S-Q420	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	4	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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	2500	17.0	8.68	818	13.0	7.49	4		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-R27-S

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	5.1
Did Well Dewater?	No	Odor	none
Sample Date	11/18/2020	Pump Intake Depth (ft bmp)	1.1
Sample Time	10:27	Total Volume to Remove	
Sample ID	C-R27-S-Q420	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	7	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
10:26	500	2500	17.3	8.66	814	18.2	7.65	7		0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

**Site: PGE Topock
Topock, CA**

C-TAZ-S

Date	11/18/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	11.5
Comments	2100873.81 ft N, 7618855.20 ft E	Odor	none
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	2
Sample Date	11/18/2020	Total Volume to Remove	
Sample Time	07:58	EB Sample ID	
Sample ID	C-TAZ-S-Q420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	2	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/18/2020

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)
07:57	500	2500	16.6	8.64	820	12.1	7.37	2		0.41	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

Site: PGE Topock
Topock, CA

MW-78-142

Date	12/03/2020	Sampler	Jb
Weather Conditions	Sunny	Color	yellow
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	47.91
Water Quality Meter	YSI	Gallons in Well	15.35
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	142.01
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	132
Water Column in Well	94.10	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	15:06	MS/MSD Sample ID	
Sample ID	MW-78-142-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	12/03/2020

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)
14:49	500	2000	29.2	7.94	11936	13.2	1.85	20	47.95	6.77	7.77
14:53	500	4000	29.2	7.94	11960	14.2	1.94	13	47.95	6.77	7.77
14:57	500	6000	29.3	7.94	11970	14.5	1.95	8	47.95	6.77	7.77
15:01	500	8000	29.3	7.93	11990	14.8	1.96	8	47.95	6.77	7.77
15:05	500	10000	29.3	7.93	11984	15.2	1.97	8	47.95	6.77	7.77

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-78-070

Date	12/03/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	47.45
Water Quality Meter	YSI	Gallons in Well	3.68
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	70.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	60
Water Column in Well	22.55	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-707-1220
Sample Date	12/03/2020	EB Time	16:30
Sample Time	16:06	MS/MSD Sample ID	
Sample ID	MW-78-070-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-931-1220	Double Filter Turbidity	
Dup Sample Time	16:16	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/03/2020
Without Filter Turbidity	7		

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
15:39	500	2000	28.9	8.08	2522	35.6	3.96	13	47.49	1.18	1.50
15:43	500	4000	29.0	8.04	2520	37.2	3.93	7	47.49	1.18	1.50
15:47	500	6000	29.0	8.05	2519	39.2	3.94	7	47.49	1.18	1.50
16:01	500	8000	29.0	8.04	2516	39.0	3.91	7	47.49	1.18	1.50
16:05	500	10000	29.0	8.04	2510	39.9	3.94	7	47.49	1.18	1.50

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-79-104

Date	12/03/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	46.95
Water Quality Meter	YSI	Gallons in Well	8.99
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	102.01
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	97
Water Column in Well	55.06	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	13:50	MS/MSD Sample ID	
Sample ID	MW-79-104-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	12/03/2020

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)
13:33	500	2000	29.4	8.02	8716	30.2	0.89	8	46.99	4.82	5.65
13:37	500	4000	29.5	8.02	8697	29.8	0.87	4	46.99	4.82	5.65
13:41	500	6000	29.5	8.02	8714	29.3	0.86	4	46.99	4.82	5.65
13:45	500	8000	29.5	8.03	8686	29.2	0.87	4	46.99	4.82	5.65
13:49	500	10000	29.5	8.02	8692	29.1	0.86	4	46.99	4.82	5.65

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-79-060

Date	12/03/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	46.94
Water Quality Meter	YSI	Gallons in Well	2.14
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	60.01
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	53
Water Column in Well	13.07	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	13:17	MS/MSD Sample ID	
Sample ID	MW-79-060-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	12/03/2020

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)
13:00	500	2000	29.3	8.05	3223	35.4	2.77	8	46.98	1.67	2.09
13:04	500	4000	29.3	8.04	3220	35.4	2.78	4	46.98	1.67	2.09
13:08	500	6000	29.3	8.04	3220	35.8	2.77	4	46.98	1.67	2.09
13:12	500	8000	29.4	8.03	3210	35.8	2.86	4	46.98	1.67	2.09
13:16	500	10000	29.4	8.03	3217	36.0	2.87	4	46.98	1.67	2.09

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-80-057

Date	12/03/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	49.61
Water Quality Meter	YSI	Gallons in Well	1.22
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	57.02
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	52
Water Column in Well	7.42	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	11:51	MS/MSD Sample ID	
Sample ID	MW-80-057-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-932-1220	Double Filter Turbidity	
Dup Sample Time	12:01	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/03/2020
Without Filter Turbidity	6		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:34	500	2000	29.2	8.12	5331	2.1	2.89	11	49.65	2.87	3.48
11:38	500	4000	29.2	8.12	5343	1.2	2.88	6	49.65	2.87	3.48
11:42	500	6000	29.3	8.11	5336	0.6	2.89	6	49.66	2.87	3.48
11:46	500	8000	29.3	8.11	5318	0.7	2.88	6	49.65	2.87	3.48
11:50	500	10000	29.2	8.11	5320	0.6	2.87	6	49.65	2.87	3.48

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-80-082

Date	12/03/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	49.65
Water Quality Meter	YSI	Gallons in Well	5.28
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	82.02
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	74.50
Water Column in Well	32.37	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	11:11	MS/MSD Sample ID	
Sample ID	MW-80-082-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/03/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:54	500	2000	28.7	7.94	8810	28.7	2.38	10	49.69	4.90	5.73
10:58	500	4000	28.7	7.93	8792	29.0	2.34	5	49.69	4.90	5.73
11:02	500	6000	28.7	7.94	8800	29.2	2.29	5	49.69	4.90	5.73
11:06	500	8000	28.7	7.93	8791	29.4	2.27	5	49.69	4.90	5.73
11:10	500	1000	28.7	7.93	8792	29.5	2.25	5	49.69	4.90	5.73

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-81-043

Date	12/03/2020	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)	24.88
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	44.61
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	38
Water Column in Well	19.73	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-707-Q420
Sample Date	12/03/2020	EB Time	16:44
Sample Time	16:30	MS/MSD Sample ID	
Sample ID	MW-81-043-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	10	Post Sampling Turbidity	
		Purge Date	12/03/2020

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)
16:13	500	2000	26.1	7.56	7040	87.6	1.97	29	25.0	4.06	4.51
16:17	500	4000	26.4	7.54	7061	84.3	1.66	16	25.0	4.06	4.51
16:21	500	6000	26.4	7.53	7053	81.9	1.58	11	25.0	4.06	4.51
16:25	500	8000	26.4	7.53	7072	79.7	1.53	10	25.0	4.06	4.51
16:29	500	10000	25.4	7.53	7090	78.5	1.5	10	25.0	4.06	4.51

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-81-098

Date	12/03/2020	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)	25.30
Water Quality Meter	YSI	Gallons in Well	12.09
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	99.41
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	90
Water Column in Well	74.11	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	15:48	MS/MSD Sample ID	
Sample ID	MW-81-098-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/03/2020

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)
15:31	500	2000	24.4	7.52	8566	-26.2	1.74	44	25.42	5.01	5.48
15:35	500	4000	24.7	7.50	8571	-22.5	1.45	17	25.42	5.01	5.48
15:39	500	6000	24.7	7.49	8574	-20.7	1.40	6	25.42	5.01	5.48
15:43	500	8000	24.7	7.48	8579	-18.6	1.36	6	25.42	5.01	5.48
15:47	500	10000	24.7	7.48	8577	-17.3	1.31	6	25.42	5.01	5.48

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-20-070

Date	12/04/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	4
Purge Volume Units	ml	Depth to Water (ft bmp)	46.34
Water Quality Meter	YSI	Gallons in Well	14.54
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	68.62
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	60
Water Column in Well	22.28	Total Volume to Remove	58.16
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/04/2020	EB Time	
Sample Time	10:53	MS/MSD Sample ID	
Sample ID	MW-20-070-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	12/04/2020

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)
10:36	500	2000	28.3	8.21	2452	27.2	4.33	9	46.38	1.25	1.59
10:40	500	4000	28.4	8.20	2449	27.6	4.32	4	46.38	1.25	1.59
10:44	500	6000	28.5	8.19	2445	27.9	4.36	4	46.38	1.25	1.59
10:48	500	8000	28.5	8.19	2448	28.1	4.36	4	46.34	1.25	1.59
10:52	500	10000	28.7	8.18	2445	28.8	4.32	4	46.38	1.25	1.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-20-100

Date	12/04/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	46.23
Water Quality Meter	YSI	Gallons in Well	34.76
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	99.50
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	94.50
Water Column in Well	53.27	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-710-Q420
Sample Date	12/04/2020	EB Time	12:00
Sample Time	11:41	MS/MSD Sample ID	
Sample ID	MW-20-100-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	12/04/2020

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)
11:24	500	2000	28.5	7.97	2225	32.	3.90	14	46.27	1.13	1.44
11:28	500	4000	28.5	7.95	2227	31.4	3.90	9	46.37	1.13	1.44
11:32	500	6000	28.7	7.94	2232	31.7	3.85	9	46.27	1.13	1.44
11:36	500	8000	28.7	7.94	2229	31.9	3.91	9	46.27	1.13	1.44
11:40	500	10000	28.9	7.93	2230	32.4	3.87	9	46.27	1.12	1.44

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-20-130

Date	12/04/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	47.25
Water Quality Meter	YSI	Gallons in Well	-30.83
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	131..00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	126
Water Column in Well	-47.25	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/04/2020	EB Time	
Sample Time	10:02	MS/MSD Sample ID	
Sample ID	MW-20-130-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-906-Q420	Double Filter Turbidity	
Dup Sample Time	10:12	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/04/2020
Without Filter Turbidity	3		

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)
09:45	500	2000	25.6	7.88	10063	13.6	0.51	8	47.29	5.66	6.53
09:49	500	4000	25.5	7.88	10043	13.5	0.50	3	47.29	5.66	6.53
09:53	500	6000	25.6	7.87	10091	13.8	0.48	3	47.29	5.66	6.53
09:57	500	8000	25.8	7.87	10071	13.7	0.47	3	47.29	5.66	6.53
10:01	500	10000	25.9	7.87	10096	13.8	0.46	3	47.29	5.66	6.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-26

Date	12/03/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	47.78
Water Quality Meter	YSI	Gallons in Well	14.01
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	69.25
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	61.50
Water Column in Well	21.47	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	09:56	MS/MSD Sample ID	
Sample ID	MW-26-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-909-Q420	Double Filter Turbidity	
Dup Sample Time	10:06	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/03/2020
Without Filter Turbidity	8		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:39	500	2000	29.3	7.99	3705	16.2	3.65	13	47.82	1.94	2.41
09:43	500	4000	29.1	7.97	3693	15.8	3.67	8	47.82	1.94	2.41
09:47	500	6000	29.3	7.95	3695	16.5	3.64		47.82	1.94	2.41
09:51	500	8000	29.3	7.95	3693	16.3	3.64	8	47.82	1.94	2.41
09:55	500	10000	29.2	7.95	3690	16.4	3.64	8	47.82	1.94	2.41

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		

**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

MW-27-020

Date	12/03/2020	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)	7.17
Water Quality Meter	YSI	Gallons in Well	2.15
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	20.34
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	15
Water Column in Well	13.17	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-27-020-EB
Sample Date	12/03/2020	EB Time	10:38
Sample Time	11:11	MS/MSD Sample ID	
Sample ID	MW-27-020-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	14	Post Sampling Turbidity	
		Purge Date	12/03/2020

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)
10:54	500	2000	19.4	7.33	1098	85.4	1.99	40	7.30	0.55	0.71
10:58	500	4000	19.7	7.35	1103	81.8	1.64	24	7.30	0.55	0.71
11:02	500	6000	19.7	7.36	1104	79.5	1.38	16	7.30	0.55	0.71
11:06	500	8000	19.7	7.37	1104	77.5	1.33	15	7.30	0.55	0.71
11:10	500	10000	19.7	7.37	1104	76.5	1.29	15	7.30	0.55	0.71

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**

MW-27-060

Date	12/03/2020	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)	7.67
Water Quality Meter	YSI	Gallons in Well	8.56
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	60.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	55
Water Column in Well	52.44	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-27-060-EB
Sample Date	12/03/2020	EB Time	09:00
Sample Time	09:30	MS/MSD Sample ID	
Sample ID	MW-27-060-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	12/03/2020

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)
09:13	500	2000	18.5	7.37	1036	34.5	1.85	8	7.83	0.55	0.72
09:17	500	4000	19.0	7.35	1084	38.3	1.36	5	7.83	0.55	0.72
09:21	500	6000	19.0	7.35	1091	41.7	1.28	4	7.83	0.55	0.72
09:25	500	8000	19.0	7.35	1094	44.5	1.21	3	7.83	0.56	0.72
09:29	500	10000	19.1	7.36	1101	46.2	1.18	3	7.83	0.56	0.73

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

MW-27-085

Date	12/03/2020	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)	7.70
Water Quality Meter	YSI	Gallons in Well	12.61
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	84.98
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	80
Water Column in Well	77.28	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-27-085-EB
Sample Date	12/03/2020	EB Time	10:00
Sample Time	10:26	MS/MSD Sample ID	
Sample ID	MW-27-085-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	12/03/2020

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)
10:09	500	2000	18.2	7.41	10368	130.6	2.25	33	7.81	6.06	6.63
10:13	500	4000	18.4	7.42	10487	127.3	1.64	16	7.81	6.15	6.71
10:17	500	6000	18.4	7.44	10522	124.7	1.38	6	7.81	6.15	6.73
10:21	500	8000	18.6	7.44	10534	122.4	1.33	6	7.81	6.19	6.74
10:25	500	10000	18.6	7.44	10549	120.4	1.3	6	7.81	6.19	6.74

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

MW-29

Date	12/04/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	30.83
Water Quality Meter	YSI	Gallons in Well	1.63
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	40.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	36
Water Column in Well	9.97	Total Volume to Remove	
Sample Date	12/04/2020	EB Sample ID	
Sample Time	11:24	EB Time	
Sample ID	MW-29-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	8	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	12/04/2020

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)
11:07	500	2000	23.3	7.54	1990	-151.9	0.35	27	30.83	1.02	1.30
11:11	500	4000	23.3	7.54	1998	-153.8	0.37	15	30.83	1.02	1.30
11:15	500	6000	23.3	7.65	2022	-149.7	0.45	9	30.83	1.03	1.31
11:19	500	8000	23.4	7.62	2038	-147.7	0.46	8	30.83	1.03	1.31
11:23	500	10000	23.4	7.62	2032	-146.3	0.48	8	30.83	1.03	1.31

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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-34-055

Date	12/03/2020	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)	7.66
Water Quality Meter	YSI	Gallons in Well	30.89
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	55.0
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	50
Water Column in Well	47.34	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-34-055-EB
Sample Date	12/03/2020	EB Time	14:00
Sample Time	14:27	MS/MSD Sample ID	
Sample ID	MW-34-055-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-911	Double Filter Turbidity	
Dup Sample Time	14:37	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/03/2020
Without Filter Turbidity	15		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cum'l Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:14	500	2000	18.6	7.53	1103	84.8	2.35	48	7.73	0.54	0.72
14:18	500	4000	18.6	7.5	1081	82.1	1.89	31	7.73	0.53	0.7
14:22	500	6000	18.6	7.5	1062	78.9	1.64	15	7.73	0.53	0.69
14:22	500	8000	18.5	7.49	1049	76.7	1.59	15	7.73	0.53	0.68
14:26	500	10000	18.5	7.49	1040	74.9	1.57	15	7.73	0.53	0.67

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-34-080

Date	12/03/2020	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)	7.71
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	80.0
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	75
Water Column in Well	72.29	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-34-080-EB
Sample Date	12/03/2020	EB Time	13:10
Sample Time	13:39	MS/MSD Sample ID	
Sample ID	MW-34-080-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	12/03/2020

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)
13:22	500	2000	18.8	7.41	8030	-6.4	2.11	15	7.8	4.77	5.14
13:26	500	4000	18.8	7.4	8042	-9.5	1.89	11	7.8	4.77	5.14
13:30	500	6000	18.7	7.39	8061	-12.4	1.77	8	7.8	4.8	5.16
13:34	500	8000	18.7	7.38	8078	-15.4	1.74	8	7.8	4.8	5.16
13:38	500	10000	18.7	7.38	8090	-18.1	1.72	8	7.8	4.8	5.17

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-34-100

Date	12/03/2020	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)	7.8
Water Quality Meter	YSI	Gallons in Well	15.04
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	100.0
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	90
Water Column in Well	92.20	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	12:49	MS/MSD Sample ID	
Sample ID	MW-34-100-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-912	Double Filter Turbidity	
Dup Sample Time	12:59	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/03/2020
Without Filter Turbidity	6		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:32	500	2000	19.0	7.33	9212	37.3	1.99	14	7.85	5.3	5.89
12:36	500	4000	18.6	7.3	9224	46.9	1.82	10	7.85	5.3	5.89
12:40	500	6000	18.6	7.29	9238	51.8	1.74	6	7.85	5.3	5.89
12:44	500	8000	18.6	7.28	9254	54.8	1.71	6	7.85	5.3	5.89
12:48	500	10000	18.6	7.27	9260	58.4	1.69	6	7.85	5.3	5.89

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-49-135

Date	12/04/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	3
Purge Volume Units	gal	Depth to Water (ft bmp)	30.20
Water Quality Meter	YSI	Gallons in Well	9.62
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	135.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1.5	Pump Intake Depth (ft bmp)	130
Water Column in Well	104.80	Total Volume to Remove	28.86
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/04/2020	EB Time	
Sample Time	10:47	MS/MSD Sample ID	
Sample ID	MW-49-135-Q420	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	1
Without Filter Turbidity	17	Post Sampling Turbidity	
		Purge Date	12/04/2020

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)
10:21	1	5	22.9	7.73	13875	136.9	2.08	34	30.45	8.03	9.02
10:26	1	10	23.6	7.70	13912	132.7	2.15	25	30.45	8.03	9.02
10:31	1	15	23.7	7.69	13945	130.5	2.17	21	30.45	8.03	9.02
10:36	1	20	23.7	7.65	13932	130.8	2.26	18	30.45	8.03	9.02
10:41	1	25	23.7	7.64	13978	127.0	2.28	17	30.45	8.03	9.02
10:46	1	30	23.7	7.64	13989	125.9	2.29	17	30.45	8.03	9.02

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-49-275

Date	12/04/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	30.68
Water Quality Meter	YSI	Gallons in Well	39.85
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	275.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	265
Water Column in Well	244.32	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/04/2020	EB Time	
Sample Time	09:42	MS/MSD Sample ID	
Sample ID	MW-49-275-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	7	Post Sampling Turbidity	
Turbidity		Purge Date	12/04/2020

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)
09:25	500	2000	23.6	8.23	25280	111.6	0.41	23	30.75	15.42	16.43
09:29	500	4000	23.7	8.25	25338	108.8	0.37	12	30.75	15.44	16.48
09:33	500	6000	23.7	8.25	25327	107.2	0.35	8	30.75	15.44	16.48
09:37	500	8000	23.7	8.25	25325	106.6	0.35	7	30.75	15.44	16.48
09:41	500	10000	23.8	8.25	25325	105.8	0.34	7	30.75	15.44	16.48

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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-49-365

Date	12/04/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	32.16
Water Quality Meter	YSI	Gallons in Well	54.29
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	365.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	356
Water Column in Well	332.85	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/04/2020	EB Time	
Sample Time	08:58	MS/MSD Sample ID	
Sample ID	MW-49-365-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	12/04/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:41	500	2000	22.7	7.36	35736	156.9	0.61	13	32.25	22.56	23.22
08:45	500	4000	22.8	7.40	35791	144.0	0.56	8	32.25	22.61	23.26
08:49	500	6000	22.8	7.41	35701	138.8	0.53	6	32.25	22.57	23.23
08:53	500	8000	22.8	7.41	35765	138.6	0.52	5	32.25	22.58	23.22
08:57	500	10000	22.8	7.41	35768	137.6	0.52	5	32.25	22.58	23.22

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			
Steel Casing Intact?	X			
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

Photos and Drawings

Site: PGE Topock
Topock, CA



Site: PGE Topock
Topock, CA

MW-51

Date	12/03/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	47.22
Water Quality Meter	YSI	Gallons in Well	43.13
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	113.32
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	104.5
Water Column in Well	66.10	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	09:06	MS/MSD Sample ID	
Sample ID	MW-51-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-916-Q420	Double Filter Turbidity	
Dup Sample Time	09:16	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/03/2020
Without Filter Turbidity	4		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:50	500	2000	29.5	8.05	10847	20.6	3.30	8	47.26	6.10	7.05
08:54	500	4000	29.4	8.05	10644	19.9	3.08	4	47.26	6.10	7.05
08:58	500	6000	29.5	8.05	10850	18.5	2.93	4	47.26	6.10	7.05
09:02	500	8000	29.5	8.05	10859	17.0	2.79	4	47.26	6.10	7.05
09:06	500	10000	29.5	8.05	10860	16.7	3.01	4	47.26	6.10	7.05

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-57-050

Date	12/04/2020	Sampler	Matt Trainotti
Weather Conditions	Sunny	Color	
Casing Material	PVC	Casing Volume to Remove	
Casing Diameter (in)	2	Depth to Water (ft bmp)	DRY
Water Column in Well	50.70	Gallons in Well	8.27
Did Well Dewater?	NA	Measured Well Depth (ft bmp)	50.70
		Odor	
		Pump Intake Depth (ft bmp)	
		Total Volume to Remove	
		EB Sample ID	
		EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/04/2020

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)

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	
Remarks				

Photos and Drawings

Site: PGE Topock
Topock, CA

Site: PGE Topock
Topock, CA

MW-57-070

Date	12/04/2020	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)	53.20
Water Quality Meter	YSI	Gallons in Well	2.39
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	67.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	65
Water Column in Well	14.60	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/04/2020	EB Time	
Sample Time	08:51	MS/MSD Sample ID	
Sample ID	MW-57-070-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	10	Post Sampling Turbidity	
Turbidity		Purge Date	12/04/2020

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)
08:34	500	2000	25.6	7.48	2279	191.3	7.35	22	53.36	1.17	1.49
08:38	500	4000	26.1	7.46	2291	186.3	7.01	14	53.36	1.17	1.49
08:42	500	6000	26.1	7.45	2306	182.4	6.84	10	53.36	1.17	1.49
08:46	500	8000	26.3	7.44	2311	180.7	6.80	10	53.36	1.18	1.50
08:50	500	10000	26.3	7.43	2321	177.4	6.76	10	53.36	1.18	1.50

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-57-185

Date	12/04/2020	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)	52.90
Water Quality Meter	YSI	Gallons in Well	48.48
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	185
Casing Material	PVC	Odor	none
Casing Diameter (in)	3	Pump Intake Depth (ft bmp)	150
Water Column in Well	132.10	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/04/2020	EB Time	
Sample Time	09:40	MS/MSD Sample ID	
Sample ID	MW-57-185-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	12/04/2020

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)
09:23	500	2000	23.4	9.03	18319	110.9	4.93	18	53.0	10.52	11.74
09:27	500	4000	23.4	9.05	18321	84.6	4.71	11	53.0	10.52	11.74
09:31	500	6000	23.4	9.06	18322	73.4	4.59	8	53.0	10.52	11.74
09:35	500	8000	23.4	9.06	18324	71.5	4.52	8	53.0	10.52	11.74
09:39	500	10000	23.4	9.07	18324	70.2	4.49	8	53.0	10.52	11.74

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	
Remarks				

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-61-110

Date	12/04/2020	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)	88.35
Water Quality Meter	YSI	Gallons in Well	3.54
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	110.0
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	100
Water Column in Well	21.66	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-709-Q420
Sample Date	12/04/2020	EB Time	11:00
Sample Time	10:37	MS/MSD Sample ID	
Sample ID	MW-61-110-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	12/04/2020

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)
10:20	500	2000	27.5	7.94	17318	64.3	1.71	15	88.41	10.33	11.14
10:24	500	4000	29.4	7.86	17232	60.3	1.47	11	88.41	10.24	11.04
10:28	500	6000	29.7	7.84	17198	58.3	1.33	7	88.41	10.24	11.04
10:32	500	8000	29.8	7.83	17192	55.9	1.26	7	88.41	10.24	11.04
10:36	500	10000	29.8	7.82	17186	52.8	1.24	7	88.41	10.24	11.04

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

MW-62-065

Date	12/04/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	48.75
Water Quality Meter	YSI	Gallons in Well	2.57
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	64.50
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	54.50
Water Column in Well	15.75	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/04/2020	EB Time	
Sample Time	09:01	MS/MSD Sample ID	
Sample ID	MW-62-065-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	12/04/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:44	500	2000	26.3	7.99	6512	24.7	2.34	10	48.79	3.54	5.01
08:48	500	4000	26.3	7.99	6548	24.2	2.20	5	48.79	3.54	4.24
08:52	500	6000	25.4	8.00	6468	24.1	2.45	5	48.79	3.54	4.24
08:56	500	8000	24.8	8.00	6481	24.1	2.52	5	48.79	3.54	4.24
09:00	500	10000	24.2	8.00	6435	24.0	2.47	5	48.79	3.54	4.24

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-65-160

Date	12/03/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	Gauge and Sample	Depth to Water (ft bmp)	140.65
Water Quality Meter	YSI	Gallons in Well	3.21
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	160.31
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	155
Water Column in Well	19.66	Total Volume to Remove	
Sample Date	12/03/2020	EB Sample ID	
Sample Time	10:28	EB Time	
Sample ID	MW-65-160-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	16	Double Filter Turbidity	1
Turbidity		Post Sampling Turbidity	
		Purge Date	12/03/2020

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)
10:11	300	1200	26.4	7.55	4511	112.5	0.37	37	140.76	2.42	2.96
10:15	300	2400	26.7	7.48	4528	115.8	0.31	23	140.76	2.40	2.92
10:19	300	3600	26.7	7.47	4532	116.6	0.29	17	140.76	2.40	2.92
10:23	300	4800	26.7	7.47	4533	117.9	0.27	16	140.76	2.40	2.92
10:27	300	6000	26.7	7.46	4539	120.1	0.25	16	140.76	2.40	2.92

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			

Site: PGE Topock
Topock, CA

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-65-225

Date	12/03/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	140.36
Water Quality Meter	YSI	Gallons in Well	13.81
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	225.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	220
Water Column in Well	84.64	Total Volume to Remove	
Sample Date	12/03/2020	EB Sample ID	
Sample Time	11:08	EB Time	
Sample ID	MW-65-225-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	16	Double Filter Turbidity	1
Turbidity		Post Sampling Turbidity	
		Purge Date	12/03/2020

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)
10:51	500	2000	28.2	7.48	9953	121.3	0.56	37	140.47	5.64	6.55
10:55	500	4000	28.7	7.51	10222	120.6	0.50	21	140.47	5.98	6.92
10:59	500	6000	28.7	7.52	11029	119.7	0.46	17	140.47	6.22	7.15
11:03	500	8000	28.7	7.52	11045	116.8	0.44	16	140.47	6.23	7.16
11:07	500	10000	28.7	7.52	11051	115.4	0.43	16	140.47	6.23	7.16

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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-66-165

Date	12/03/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	brown
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	130.45
Water Quality Meter	YSI	Gallons in Well	5.17
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	162.12
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	152
Water Column in Well	31.68	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	09:20	MS/MSD Sample ID	
Sample ID	MW-66-165-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-939-Q420	Double Filter Turbidity	1
Dup Sample Time	09:30	Post Sampling Turbidity	
Single Filter Turbidity	5	Purge Date	12/03/2020
Without Filter Turbidity	45		

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)
09:03	500	2000	28.2	7.60	3367	104.1	3.76	59	130.56	1.76	2.20
09:07	500	4000	28.7	7.65	3376	107.8	3.71	53	130.56	1.76	2.20
09:11	500	6000	29.1	7.65	3379	115.7	3.68	48	130.56	1.76	2.20
09:15	500	8000	29.2	7.65	3381	117.0	3.65	46	130.56	1.76	2.20
09:19	500	10000	29.2	7.65	3383	117.9	3.63	45	130.56	1.76	2.20

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-66-230

Date	12/03/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	yellow
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	130.90
Water Quality Meter	YSI	Gallons in Well	15.68
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	227.01
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	222
Water Column in Well	96.11	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	08:24	MS/MSD Sample ID	
Sample ID	MW-66-230-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-940-Q420	Double Filter Turbidity	
Dup Sample Time	08:34	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/03/2020
Without Filter Turbidity	5		

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)
08:07	500	2000	26.9	8.06	18733	115.9	1.36	26	131.03	11.08	12.16
08:11	500	4000	27.6	8.03	18790	121.6	1.04	15	131.03	11.08	12.16
08:15	500	6000	27.7	7.96	18801	127.9	0.96	6	131.03	11.10	12.18
08:19	500	8000	27.7	7.93	18812	128.7	0.94	5	131.03	11.10	12.18
08:23	500	10000	27.8	7.93	18823	129.5	0.93	5	131.03	11.10	12.18

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		

**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**

MW-69-195

Date	12/03/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	brown
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	174.81
Water Quality Meter	YSI	Gallons in Well	3.46
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	196.00
Casing Diameter (in)	2	Odor	none
Water Column in Well	21.19	Pump Intake Depth (ft bmp)	186
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/03/2020	EB Sample ID	
Sample Time	12:20	EB Time	
Sample ID	MW-69-195-Q420	MS/MSD Sample ID	
Single Filter Turbidity	3	MS/MSD Sample Time	
Without Filter Turbidity	34	Double Filter Turbidity	1
		Post Sampling Turbidity	
		Purge Date	12/03/2020

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)
12:03	300	1200	26.9	7.78	2650	99.6	0.68	47	174.90	1.37	1.72
12:07	300	2400	26.6	7.75	2671	106.9	0.64	39	174.90	1.37	1.72
12:11	300	3600	26.7	7.74	2679	110.4	0.61	36	174.90	1.37	1.72
12:15	300	4800	26.7	7.74	2684	112.7	0.59	34	174.90	1.38	1.74
12:19	300	6000	26.7	7.73	2685	113.0	0.57	34	174.90	1.38	1.74

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

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-72-080

Date	12/03/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	59.51
Water Quality Meter	YSI	Gallons in Well	3.21
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	79.16
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	70
Water Column in Well	19.65	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	14:30	MS/MSD Sample ID	
Sample ID	MW-72-080-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	12/03/2020

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)
14:13	500	2000	26.4	7.96	16204	177.9	0.79	49	59.60	9.48	10.54
14:17	500	4000	26.7	7.94	16311	160.5	0.68	23	59.60	9.53	10.60
14:21	500	6000	26.8	7.94	16332	153.0	0.65	8	59.60	9.55	10.61
14:25	500	8000	26.8	7.94	16346	149.8	0.64	7	59.60	9.55	10.61
14:29	500	10000	26.8	7.92	16347	147.8	0.63	7	59.60	9.55	10.62

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-72BR-200

Date	12/03/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	59.42
Water Quality Meter	YSI	Gallons in Well	206.37
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	200.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	6	Pump Intake Depth (ft bmp)	152
Water Column in Well	140.58	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	13:48	MS/MSD Sample ID	
Sample ID	MW-72BR-200-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	12/03/2020

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)
13:31	500	2000	26.4	8.28	16414	-150.7	0.39	32	59.58	9.59	10.66
13:35	500	4000	27.1	8.23	16460	-156.9	0.34	19	59.59	9.61	10.68
13:39	500	6000	27.3	8.22	16489	-158.9	0.32	10	59.59	9.61	10.68
13:43	500	8000	27.3	8.21	16501	-159.0	0.31	9	59.59	9.61	10.68
13:47	500	10000	27.3	8.21	16511	-163.3	0.31	9	59.59	9.61	10.68

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-73-080

Date	12/03/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	52.35
Water Quality Meter	YSI	Gallons in Well	4.45
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	79.62
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	70
Water Column in Well	27.28	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/03/2020	EB Time	
Sample Time	15:16	MS/MSD Sample ID	
Sample ID	MW-73-080-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/03/2020

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)
14:59	200	800	26.1	7.58	9654	65.8	0.56	18	52.41	5.41	6.26
15:03	200	1600	26.5	7.61	9668	67.6	0.59	11	52.43	5.40	6.26
15:07	200	2400	26.6	7.63	9640	56.9	0.61	7	52.43	5.40	6.26
15:11	200	3200	26.6	7.64	9645	55.1	0.62	6	52.43	5.40	6.26
15:15	200	4000	26.6	7.64	9647	53.8	0.65	6	52.43	5.40	6.26

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-74-240

Date	12/03/2020	Sampler	_____
Sample Date	12/03/2020	Color	Clear
Sample Time	12:50	Casing Volume to Remove	_____
Sample ID	MW-74-240-Q420	Depth to Water (ft bmp)	_____
Single Filter Turbidity	1	Gallons in Well	_____
Without Filter Turbidity	26	Measured Well Depth (ft bmp)	_____
		Odor	none
		Pump Intake Depth (ft bmp)	_____
		Total Volume to Remove	_____
		EB Sample ID	_____
		EB Time	_____
		MS/MSD Sample ID	_____
		MS/MSD Sample Time	_____
		Double Filter Turbidity	1
		Post Sampling Turbidity	_____
		Purge Date	12/03/2020

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)
12:50			27.9	8.77	824	28.9	0.50	26	215.45	0.40	0.53

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings



**Site: PGE Topock
Topock, CA**

PGE-07BR

Date	12/03/2020	Sampler	
Did Well Dewater?	Yes	Color	black
Sample Date	12/03/2020	Casing Volume to Remove	
Sample Time	16:00	Depth to Water (ft bmp)	
Sample ID	PGE-07BR-Q420	Gallons in Well	
Single Filter Turbidity	9	Measured Well Depth (ft bmp)	
Without Filter Turbidity	93	Odor	none
		Pump Intake Depth (ft bmp)	
		Total Volume to Remove	
		EB Sample ID	
		EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	3
		Post Sampling Turbidity	
		Purge Date	12/03/2020

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)
16:00			30.4	8.74	20602	-179.0	0.02	93		12.20	13.36

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings



**Site: PGE Topock
Topock, CA**

TW-03D

Date	12/03/2020	Sampler	Luke Baumgarte
Weather Conditions	Sunny	Color	Clear
Purge Method	Extraction Port	Casing Volume to Remove	
Purge Volume Units	Gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Extraction port	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	None
Did Well Dewater?	No	Pump Intake Depth (ft bmp)	
Sample Date	12/03/2020	Total Volume to Remove	
Sample Time	08:37	EB Sample ID	
Sample ID	TW-03D-Q420	EB Time	
Single Filter Turbidity	1	MS/MSD Sample ID	
Without Filter Turbidity	2	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/03/2020

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)
08:31	1	5	22.61	7.48	5364	96.4	3.80	2		4.06	4.862

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?			X	
Standing or Poned 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			

Photos and Drawings

Site: PGE Topock
Topock, CA



Site: PGE Topock
Topock, CA

MW-90-031

Date	12/02/2020	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)	5.97
Water Quality Meter	YSI	Gallons in Well	4.09
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	31.0
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	25
Water Column in Well	25.03	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-705-1220
Sample Date	12/02/2020	EB Time	16:30
Sample Time	13:37	MS/MSD Sample ID	
Sample ID	MW-90-031-Q420	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	24	Post Sampling Turbidity	
		Purge Date	12/02/2020

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)
13:20	500	2000	24.2	7.4	14213	-169.6	2.11	55	6.06	8.2	9.12
13:24	500	4000	24.6	7.43	14233	-173.8	1.92	40	6.06	8.2	9.12
13:28	500	6000	24.6	7.43	14228	-175.3	1.74	24	6.06	8.2	9.12
13:32	500	8000	24.6	7.43	14238	-177.7	1.7	24	6.06	8.2	9.12
13:36	500	10000	24.6	7.43	14234	-179.3	1.67	24	6.06	8.2	9.12

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-117

Date	12/01/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	19.05
Water Quality Meter	YSI	Gallons in Well	16.16
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	118.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	107
Water Column in Well	99.06	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/01/2020	EB Time	
Sample Time	12:09	MS/MSD Sample ID	
Sample ID	MW-75-117-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	7	Post Sampling Turbidity	
Turbidity		Purge Date	12/01/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI 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	26.2	8.20	12721	-2.3	0.49	15	19.10	7.34	8.32
11:48	500	4000	26.3	8.18	12832	-1.8	0.45	7	19.10	7.34	8.32
12:02	500	6000	26.3	8.17	12841	-1.4	0.43	7	19.10	7.34	8.32
12:04	500	8000	26.2	8.16	12853	-1.3	0.42	7	19.10	7.34	8.32
12:08	500	10000	26.2	8.15	12870	-0.9	0.41	7	19.10	7.34	8.32

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-033

Date	12/01/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	18.97
Water Quality Meter	YSI	Gallons in Well	2.59
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	34.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	25.50
Water Column in Well	15.83	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/01/2020	EB Time	
Sample Time	12:57	MS/MSD Sample ID	
Sample ID	MW-75-033-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-929-1220	Double Filter Turbidity	
Dup Sample Time	13:07	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/01/2020
Without Filter Turbidity	10		

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)
12:44	500	2000	26.6	8.19	4174	5.0	1.84	37	19.01	2.20	2.71
12:44	500	4000	26.6	8.18	4130	3.8	1.83	20	19.01	2.20	2.71
12:48	500	6000	26.6	8.17	4141	3.4	1.84	11	19.01	2.20	2.71
12:52	500	8000	26.6	8.16	4120	2.7	1.85	10	19.01	2.20	2.71
12:56	500	10000	26.6	8.16	4141	2.9	1.85	10	19.01	2.20	2.71

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-86-140

Date	12/01/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	143.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	130
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/01/2020	EB Sample ID	
Sample Time	14:20	EB Time	
Sample ID	MW-86-140-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	7	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/01/2020

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)
14:03	500	2000	23.2	7.74	17743	-129.8	1.21	30	12.80	10.50	11.58
14:07	500	4000	23.3	7.76	17749	-134.8	0.89	14	12.80	10.50	11.58
14:11	500	6000	23.3	7.77	17747	-136.7	0.44	7	12.80	10.50	11.58
14:15	500	8000	23.2	7.77	17744	-138.4	0.39	7	12.80	10.50	11.58
14:19	500	10000	23.2	7.77	17747	-139.7	0.36	7	12.80	10.50	11.58

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-86-120

Date	12/01/2020	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)	110
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	123.27
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/01/2020	EB Sample ID	
Sample Time	14:59	EB Time	
Sample ID	MW-86-120-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	8	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	12/01/2020

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)
14:42	500	2000	22.4	7.65	13122	-31.9	1.33	44	12.90	7.64	8.49
14:46	500	4000	22.7	7.66	13126	-24.0	0.94	27	12.90	7.64	8.49
14:50	500	6000	22.7	7.67	13119	-21.8	0.58	8	12.90	7.64	8.49
14:54	500	8000	22.6	7.67	13121	-18.8	0.54	8	12.90	7.64	8.49
14:58	500	10000	22.6	7.67	13123	-16.8	0.51	8	12.90	7.64	8.49

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	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-86-066

Date	12/01/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Snap Sampler	Measured Well Depth (ft bmp)	69.25
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	58
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/01/2020	EB Sample ID	
Sample Time	15:36	EB Time	
Sample ID	MW-86-066-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	10	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/01/2020

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)
15:19	500	2000	22.5	7.62	7322	-33.8	1.44	31	12.12	4.08	4.81
15:23	500	4000	22.6	7.64	7411	-38.3	1.02	16	12.12	4.11	4.83
15:27	500	6000	22.6	7.65	7424	-40.4	0.65	10	12.12	4.11	4.83
15:31	500	8000	22.6	7.65	7430	-43.8	0.61	10	12.12	4.11	4.83
15:35	500	10000	22.6	7.65	7436	-46.5	0.59	10	12.12	4.11	4.83

Well Integrity Checklist

Item	Yes	No	NA	Notes
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Photos and Drawings

Site: PGE Topock
Topock, CA

MW-86-030

Date	12/01/2020	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)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	32.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	25
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/01/2020	EB Sample ID	
Sample Time	16:16	EB Time	
Sample ID	MW-86-030-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	7	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	12/01/2020

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)
15:59	500	2000	24.1	7.67	1403	-27.5	1.67	84	12.42	0.71	0.90
16:03	500	4000	24.1	7.68	1408	-30.2	1.21	44	12.42	0.71	0.90
16:07	500	6000	24.3	7.69	1411	-33.6	0.97	7	12.42	0.71	0.90
16:11	500	8000	24.3	7.69	1410	-37.9	0.94	7	12.42	0.71	0.90

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	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-76-218

Date	12/02/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	27.52
Water Quality Meter	Sunny	Gallons in Well	31.24
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	219.05
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	213
Water Column in Well	191.53	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	09:46	MS/MSD Sample ID	
Sample ID	MW-76-218-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	12/02/2020

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)
09:29	500	2000	27.4	8.76	22320	26.9	0.32	7	27.56	13.47	14.54
09:33	500	4000	27.5	8.74	22365	26.4	0.31	4	27.56	13.47	14.54
09:37	500	6000	27.5	8.73	22219	26.0	0.31	4	27.56	13.47	14.54
09:41	500	8000	27.5	8.72	22400	28.4	0.31	4	27.56	13.47	14.54
09:45	500	10000	27.5	8.72	22390	28.4	0.30	4	27.56	13.47	14.54

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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		

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-76-181

Date	12/02/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	27.85
Water Quality Meter	YSI	Gallons in Well	25.26
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	182.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	191
Water Column in Well	154.86	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	08:51	MS/MSD Sample ID	
Sample ID	MW-76-181-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-930-1220	Double Filter Turbidity	
Dup Sample Time	09:01	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/02/2020
Without Filter Turbidity	5		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:34	500	2000	26.2	6.97	19880	92.5	1.09	6	27.89	11.81	12.92
08:38	500	4000	26.2	7.05	19886	84.6	0.94	5	27.89	11.81	12.92
08:42	500	6000	26.1	7.08	19888	83.1	0.90	5	27.85	11.81	12.92
08:46	500	8000	26.1	7.10	19901	81.4	0.89	5	27.89	11.81	12.92
08:50	500	10000	26.2	7.12	19902	79.4	0.85	5	27.89	11.81	12.92

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-76-156

Date	12/02/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	27.53
Water Quality Meter	YSI	Gallons in Well	20.92
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	155.76
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	151
Water Column in Well	128.23	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	10:41	MS/MSD Sample ID	
Sample ID	MW-76-156-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	12/02/2020

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)
10:24	500	2000	27.5	8.25	16330	10.5	0.40	6	27.27	9.53	10.61
10:28	500	4000	27.4	8.24	16349	9.7	0.31	3	27.27	9.53	10.61
10:32	500	6000	27.5	8.23	16370	9.6	0.30	3	27.27	9.53	10.61
10:36	500	8000	27.5	8.23	16390	9.4	0.29	3	27.27	9.53	10.61
10:40	500	10000	27.5	8.22	16404	9.4	0.27	3	27.27	9.53	10.61

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-76-039

Date	12/02/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	27.06
Water Quality Meter	YSI	Gallons in Well	1.84
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	38.29
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	34
Water Column in Well	11.23	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	11:37	MS/MSD Sample ID	MW-76-039-1220
Sample ID	MW-76-039-Q420	MS/MSD Sample Time	11:37
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/02/2020

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)
11:20	500	2000	27.3	8.12	3325	22.3	2.49	10	26.10	1.73	2.15
11:24	500	4000	27.3	8.11	3333	22.4	2.49	6	26.10	1.73	2.15
11:28	500	6000	27.3	8.10	3339	22.5	2.51	6	26.10	1.73	2.15
11:32	500	8000	27.3	8.10	3345	22.4	2.52	6	26.10	1.73	2.15
11:36	500	10000	27.3	8.10	3347	22.5	2.55	6	26.10	1.73	2.15

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-337

Date	12/01/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	20.55
Water Quality Meter	YSI	Gallons in Well	51.86
Casing Material	PVC	Measured Well Depth (ft bmp)	338.50
Casing Diameter (in)	2	Odor	none
Water Column in Well	317.95	Pump Intake Depth (ft bmp)	327
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/01/2020	EB Sample ID	
Sample Time	11:11	EB Time	
Sample ID	MW-75-337-Q420	MS/MSD Sample ID	
Single Filter Turbidity	2	MS/MSD Sample Time	
Without Filter	9	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	12/01/2020

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)
10:54	500	2000	25.0	8.21	29765	-115.5	1.32	9	29.59	18.39	19.33
10:58	500	4000	26.3	8.22	29770	-117.4	0.82	9	20.59	18.39	19.33
11:02	500	6000	26.3	8.23	29774	-118.8	0.89	9	20.55	18.39	19.33
11:06	500	8000	26.4	8.25	29780	-119.4	0.67	9	20.59	18.39	19.33
11:10	500	10000	26.4	8.25	29784	-119.7	0.53	9	20.59	18.39	19.33

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**

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-82-112

Date	12/01/2020	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)	30.48
Water Quality Meter	YSI	Gallons in Well	13.66
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	114.2
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	102
Water Column in Well	83.72	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/01/2020	EB Time	
Sample Time	12:10	MS/MSD Sample ID	
Sample ID	MW-82-112-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	12/01/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:53	500	2000	24.5	7.52	8840	96.1	2.2	21	30.64	4.96	5.66
11:57	500	4000	24.9	7.52	8831	99.4	1.77	12	30.64	4.96	5.66
12:01	500	6000	24.9	7.52	8826	103.2	1.63	8	30.64	4.93	5.65
12:05	500	8000	24.9	7.52	8821	105.8	1.57	8	30.64	4.93	5.65
12:09	500	10000	24.8	7.52	8816	108.6	1.55	8	30.64	4.93	5.64

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-82-168

Date	12/01/2020	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)	30.29
Water Quality Meter	YSI	Gallons in Well	22.76
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	169.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	158
Water Column in Well	139.52	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/01/2020	EB Time	
Sample Time	11:14	MS/MSD Sample ID	
Sample ID	MW-82-168-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/01/2020

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)
10:57	500	2000	24.4	7.46	19534	81.8	2.45	11	30.4	11.22	12.54
11:01	500	4000	24.6	7.5	19612	89.4	2.16	8	30.4	11.28	12.58
11:05	500	6000	24.6	7.5	19643	92.1	2.11	6	30.4	11.3	12.6
11:09	500	8000	24.7	7.51	19665	94.2	2.1	6	30.4	11.3	12.62
11:13	500	10000	24.7	7.51	19678	96.3	2.08	6	30.4	11.3	12.64

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-82-198

Date	12/01/2020	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)	30.16
Water Quality Meter	YSI	Gallons in Well	27.62
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	199.45
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	188
Water Column in Well	169.29	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/01/2020	EB Time	
Sample Time	10:21	MS/MSD Sample ID	
Sample ID	MW-82-198-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	12/01/2020

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)
10:04	500	2000	24.3	7.46	21187	140.2	4.33	14	30.3	12.21	13.64
10:08	500	4000	24.3	7.45	21360	127.5	2.77	10	30.3	12.33	13.74
10:12	500	6000	24.3	7.44	21383	121.4	2.53	8	30.3	12.33	13.74
10:16	500	8000	24.3	7.43	21406	119.6	2.48	8	30.3	12.33	13.74
10:20	500	10000	24.3	7.42	21412	116.7	2.45	8	30.3	12.33	13.74

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

MW-82-046

Date	12/01/2020	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)	30.03
Water Quality Meter	YSI	Gallons in Well	2.89
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	47.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	36
Water Column in Well	17.68	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/01/2020	EB Time	
Sample Time	13:00	MS/MSD Sample ID	
Sample ID	MW-82-046-Q420	MS/MSD Sample Time	
Single Filter Turbidity	5	Double Filter Turbidity	
Without Filter Turbidity	33	Post Sampling Turbidity	
		Purge Date	12/01/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:43	500	2000	24.3	7.42	6349	92.4	2.01	88	30.20	3.54	4.06
12:47	500	4000	24.6	7.41	6388	94.6	1.91	62	30.20	3.56	4.08
12:51	500	6000	24.6	7.4	6406	96.8	1.87	34	30.20	3.59	4.1
12:55	500	8000	24.7	7.39	6411	98.3	1.84	33	30.2	3.6	4.11
12:59	500	10000	24.7	7.39	6418	100.5	1.81	33	30.2	3.6	4.11

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-77-158

Date	12/02/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	26.14
Water Quality Meter	YSI	Gallons in Well	21.86
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	160.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	155
Water Column in Well	133.98	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	14:51	MS/MSD Sample ID	
Sample ID	MW-77-158-Q420	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	12/02/2020

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)
14:34	500	2000	25.8	8.18	19595	20.1	0.29	6	26.18	11.72	12.80
14:38	500	4000	25.8	8.18	19611	19.4	0.28	3	26.18	11.72	12.80
14:42	500	6000	25.8	8.17	19570	17.9	0.28	3	26.18	11.72	12.80
14:46	500	8000	25.8	8.16	19581	17.1	0.27	3	26.18	11.72	12.80
14:50	500	10000	25.8	8.15	19585	16.5	0.26	3	26.18	11.72	12.80

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-77-187

Date	12/02/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	25.89
Water Quality Meter	YSI	Gallons in Well	26.62
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	189.09
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	184
Water Column in Well	163.20	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	13:51	MS/MSD Sample ID	
Sample ID	MW-77-187-Q420	MS/MSD Sample Time	
Single Filter Turbidity	0	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	12/02/2020

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)
13:34	500	2000	26.0	8.43	22690	4.5	0.35	5	25.93	13.69	14.71
13:38	500	4000	26.1	8.49	22666	3.8	0.32	2	25.93	13.69	14.71
13:42	500	6000	26.1	8.51	22712	3.6	0.31	2	25.93	3.69	14.71
13:46	500	8000	26.1	8.54	22700	3.3	0.31	2	25.93	13.69	14.71
13:50	500	10000	26.313	8.58	22698	2.4	0.30	2	25.93	13.69	14.71

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-75-267

Date	12/01/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	18.45
Water Quality Meter	YSI	Gallons in Well	40.80
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	268.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	263
Water Column in Well	250.13	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/01/2020	EB Time	
Sample Time	08:56	MS/MSD Sample ID	
Sample ID	MW-75-267-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	12/01/2020

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)
08:39	500	2000	26.2	8.10	24530	-49.0	0.97	13	18.49	14.88	15.95
08:43	500	4000	26.5	8.13	24553	-51.2	0.77	4	18.49	14.88	15.95
08:47	500	6000	26.6	8.13	24560	-57.2	0.73	4	18.49	14.88	15.95
08:51	500	8000	26.7	8.18	24573	-58	0.65	4	18.49	14.88	15.95
08:52	500	10000	26.7	8.19	24563	-62.0	0.61	4	18.49	14.88	15.95

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-75-202

Date	12/01/2020	Sampler	Jb
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	18.66
Water Quality Meter	YSI	Gallons in Well	30.29
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	204.31
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	199
Water Column in Well	185.65	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/01/2020	EB Time	
Sample Time	10:01	MS/MSD Sample ID	
Sample ID	MW-75-202-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	12/01/2020

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)
09:54	500	2000	2	8.15	17280	-27.7	0.56	5	18.70	10.15	11.21
09:58	500	4000	263	8.14	17278	-25.8	0.63	4	18.70	10.15	11.21
10:02	500	6000	25.4	8.13	17279	-25.0	0.51	4	18.70	10.15	11.21
10:06	500	8000	25.6	8.13	17320	-24.9	0.48	4	18.70	10.15	11.21
10:10	500	10000	25.5	8.12	17400	-24.5	0.48	4	18.70	10.15	11.21

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-77-102

Date	12/02/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	25.55
Water Quality Meter	YSI	Gallons in Well	12.91
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	104.66
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	99
Water Column in Well	79.11	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	13:06	MS/MSD Sample ID	
Sample ID	MW-77-102-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	12/02/2020

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)
12:49	500	2000	24.6	7.87	8329	21.2	0.60	6	25.59	4.62	5.42
12:53	500	4000	24.6	7.86	8341	19.0	0.56	3	25.59	4.62	5.42
12:57	500	6000	24.6	7.86	8353	17.9	0.55	3	25.59	4.72	5.42
13:01	500	8000	24.7	7.85	8344	16.9	0.53	3	25.59	4.72	5.42
13:05	500	10000	24.8	7.84	8341	16.0	0.54	3	25.59	4.62	5.42

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-77-046

Date	12/02/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	25.09
Water Quality Meter	YSI	Gallons in Well	2.97
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	43.28
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	38
Water Column in Well	18.19	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-706-1220
Sample Date	12/02/2020	EB Time	16:00
Sample Time	15:47	MS/MSD Sample ID	
Sample ID	MW-77-046-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	12/02/2020

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)
15:30	500	2000	25.5	7.83	12465	-51.1	0.31	8	25.13	7.06	8.02
15:34	500	4000	25.6	7.82	12342	-53.3	0.29	4	25.13	7.06	8.02
15:38	500	6000	25.6	7.82	12305	-54.0	0.29	4	25.13	7.06	8.02
15:42	500	8000	25.6	7.82	12265	-54.6	0.29	4	25.13	7.06	8.02
15:46	500	10000	25.6	7.82	12191	-54.2	0.28	4	25.13	7.06	8.02

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

MW-70BR-289

Date	12/02/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	81.94
Water Quality Meter	YSI	Gallons in Well	209.05
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	287.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	277
Water Column in Well	205.06	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	08:57	MS/MSD Sample ID	
Sample ID	MW-70BR-289-Q420	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	1
Without Filter Turbidity	25	Post Sampling Turbidity	
		Purge Date	12/02/2020

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)
08:35	500	2000	25.9	8.90	15961	-30.9	2.01	26	82.03	9.52	10.60
08:39	500	4000	26.3	9.34	16088	-36.8	1.79	117	82.04	9.53	10.65
08:43	500	6000	26.5	8.71	16250	-44.9	1.63	41	82.04	9.56	10.70
08:47	500	8000	26.6	8.65	16280	-46.7	1.54	26	82.04	9.56	10.71
08:51	500	10000	26.6	8.64	16289	-47.8	1.50	25	82.04	9.56	10.71
08:56	500	12000	26.6	8.64	16296	-48.9	1.49	25	82.04	9.56	10.71

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-96-045

Date	12/02/2020	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)	30.14
Water Quality Meter	YSI	Gallons in Well	2.63
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	46.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	40
Water Column in Well	16.07	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	15:55	MS/MSD Sample ID	
Sample ID	MW-96-045-Q420	MS/MSD Sample Time	
Dup Sample Time	16:05	Double Filter Turbidity	
Single Filter Turbidity	5	Post Sampling Turbidity	
Without Filter Turbidity	28	Purge Date	12/02/2020

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)
15:38	500	2000	25.8	7.5	13377	-13.8	0.97	122	30.24	7.55	8.56
15:42	500	4000	26.2	7.5	13388	-15.4	0.71	54	30.24	7.55	8.56
15:46	500	6000	26.4	7.5	13375	-18.1	0.59	28	30.24	7.55	8.56
15:50	500	8000	26.4	7.5	13385	-20.4	0.55	28	30.24	7.55	8.56
15:54	500	10000	26.4	7.5	13380	-21.5	0.53	28	30.24	7.55	8.56

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-96-217

Date	12/02/2020	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)	30.14
Water Quality Meter	YSI	Gallons in Well	30.72
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	218.45
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	207
Water Column in Well	188.31	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/01/2020	EB Time	
Sample Time	15:21	MS/MSD Sample ID	
Sample ID	MW-96-217-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	7	Post Sampling Turbidity	
Turbidity		Purge Date	12/02/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
15:04	500	2000	24.8	7.63	16246	-54.4	1.33	11	30.20	9.28	10.44
15:08	500	4000	25.3	7.61	16241	-59.9	1.08	7	30.20	9.28	10.44
15:12	500	6000	25.3	7.6	16241	-63.4	0.84	7	30.20	9.28	10.44
15:16	500	8000	25.3	7.59	16238	-66.4	0.8	7	30.20	9.28	10.44
15:20	500	10000	25.3	7.59	16238	-69.7	0.78	7	30.20	9.28	10.44

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-09

Date	12/01/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	80.16
Water Quality Meter	YSI	Gallons in Well	5.96
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	89.28
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	84
Water Column in Well	9.13	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-704-1220
Sample Date	12/01/2020	EB Time	15:30
Sample Time	15:07	MS/MSD Sample ID	
Sample ID	MW-09-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/01/2020

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)
14:54	500	2000	29.2	8.08	3292	24.7	3.09	8	18.20	1.72	2.14
14:58	500	4000	29.2	8.09	3275	24.8	3.02	5	80.20	1.72	2.14
14:58	500	6000	29.4	8.07	3254	25.1	2.99	5	80.20	1.72	2.14
15:02	500	8000	29.5	8.07	3243	24.9	2.90	5	80.20	1.72	2.14
15:06	500	10000	29.7	8.08	3227	25.1	2.96	5	80.20	1.72	2.14

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?		X		
Standing or Pounded 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

MW-10

Date	11/30/2020	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)	74.83
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	84
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	11/30/2020	EB Sample ID	EB-703-Q420
Sample Time	15:31	EB Time	16:00
Sample ID	MW-10-Q420	MS/MSD Sample ID	
Duplicate Sample ID	MW-904-Q420	MS/MSD Sample Time	
Dup Sample Time	15:41	Double Filter Turbidity	1
Single Filter Turbidity	15	Post Sampling Turbidity	
Without Filter Turbidity	44	Purge Date	11/30/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
15:14	500	2000	27.6	7.41	2561	47.7	9.78	122	74.93	1.32	1.67
15:18	500	4000	28.2	7.42	2564	48.8	8.99	66	74.93	1.32	1.67
15:22	500	6000	28.3	7.43	2562	49.8	8.76	48	74.93	1.32	1.67
15:26	500	8000	28.3	7.44	2566	50.8	8.7	48	74.93	1.32	1.67
15:30	500	10000	28.4	7.44	2567	52.4	8.66	48	74.93	1.32	1.67

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-24A

Date	12/01/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	111.28
Water Quality Meter	YSI	Gallons in Well	10.33
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	127.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	119
Water Column in Well	15.83	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-704-Q420
Sample Date	12/01/2020	EB Time	16:00
Sample Time	14:32	MS/MSD Sample ID	
Sample ID	MW-24A-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-908-Q420	Double Filter Turbidity	
Dup Sample Time	14:42	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/01/2020
Without Filter Turbidity	5		

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)
14:15	500	2000	28.4	8.52	1665	-28.9	0.44	16	111.37	0.83	1.08
14:19	500	4000	28.7	8.46	1670	-36.0	0.41	9	111.37	0.83	1.08
14:23	500	6000	28.8	8.42	1694	-38.0	0.39	6	111.37	0.83	1.08
14:27	500	8000	28.8	8.41	1690	-40.6	0.37	5	111.37	0.83	1.08
14:31	500	10000	28.8	8.41	1690	-41.7	0.36	5	111.37	0.83	1.08

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-24B

Date	12/01/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	109.11
Water Quality Meter	YSI	Gallons in Well	67.88
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	213.14
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	203
Water Column in Well	104.03	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/01/2020	EB Time	
Sample Time	13:42	MS/MSD Sample ID	
Sample ID	MW-24B-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	12/01/2020

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)
13:23	500	2000	28.9	7.95	20509	-154.0	0.41	31	109.20	12.20	13.33
13:27	500	4000	29.3	7.96	20537	-142.9	0.37	12	109.20	12.20	13.33
13:31	500	6000	29.4	7.92	20545	-140.9	0.35	9	109.20	12.20	13.33
13:36	500	8000	29.4	7.91	20551	-140.1	0.35	8	109.20	12.20	13.33
13:41	500	10000	29.4	7.91	20559	-138.9	0.34	8	109.20	12.20	13.33

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-24BR

Date	12/01/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Extraction Port	Casing Volume to Remove	
Purge Volume Units	gal	Depth to Water (ft bmp)	107.82
Water Quality Meter	YSI	Gallons in Well	214.77
Sampling Type	Volume Purge – Grundfos RF2	Measured Well Depth (ft bmp)	437
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	
Water Column in Well	329.18	Total Volume to Remove	
Did Well Dewater?	Yes	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	13:20	MS/MSD Sample ID	
Sample ID	MW-24BR-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	12/01/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:49	5	20	30.1	8.30	14631	-159.0	0.27	8	142.90	8.43	9.50
12:53	5	40	30.1	8.26	14635	-190.7	0.25	6	185.01	8.43	9.50
12:57	5	60	30.1	8.24	14649	-198.6	0.24	5	220.09	8.43	9.50
13:01	5	80	30.1	8.22	14690	-201.0	0.21	5	242.80	8.44	9.51
13:03	5	115	30.2	8.45	14635	-221.9	0.14	3	156.80	8.46	9.51
13:04	5	95	30.2	8.21	14697	-202.8	0.21	5	265.09	8.44	9.51
13:07	5	135	30.2	8.39	14670	-216.9	0.12	2	195.80	8.46	9.51
13:11	5	155	30.3	8.37	14680	-215.8	0.12	2	219.07	8.46	9.51
13:15	5	175	30.3	8.37	14686	-215.0	0.12	2	219.07	8.46	9.51
13:19	5	195	30.3	8.44	14689	-214.0	0.11	2	234.11	8.46	9.51

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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		

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Steel Casing Intact?			X	
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-33-040

Date	12/02/2020	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)	31.58
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	35
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/02/2020	EB Sample ID	MW-33-040-EB-Q420
Sample Time	12:30	EB Time	12:00
Sample ID	MW-33-040-Q420	MS/MSD Sample ID	
Single Filter Turbidity	5	MS/MSD Sample Time	
Without Filter Turbidity	28	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/02/2020

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)
12:16	500	2000	24.8	7.44	21597	111.4	1.86	101	31.67	12.58	13.84
12:20	500	4000	25.0	7.44	21608	108.7	1.58	55	31.67	12.58	13.84
12:21	500	6000	25.1	7.44	21600	106.5	1.24	28	31.67	12.58	13.84
12:25	500	8000	25.1	7.44	21606	104.9	1.2	28	31.67	12.58	13.84
12:29	500	10000	25.1	7.44	21610	103.4	1.18	28	31.67	12.58	13.84

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-33-090

Date	12/02/2020	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)	33.89
Water Quality Meter	YSI	Gallons in Well	36.68
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	90.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	80
Water Column in Well	56.22	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	11:37	MS/MSD Sample ID	
Sample ID	MW-33-090-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	12/02/2020

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)
11:20	500	2000	24.2	7.41	13485	86.4	1.48	10	33.94	7.77	8.63
11:24	500	4000	24.7	7.40	13449	82.4	1.29	8	33.94	7.75	8.60
11:28	500	6000	24.9	7.40	13412	79.9	1.14	8	33.94	7.73	8.58
11:32	500	8000	24.9	7.40	13398	76.8	1.10	8	33.94	7.7	8.56
11:36	500	10000	24.9	7.40	13388	73.8	1.08	8	33.94	7.7	8.56

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-33-150

Date	12/02/2020	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)	34.1
Water Quality Meter	YSI	Gallons in Well	18.91
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	150.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	140
Water Column in Well	115.90	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	09:08	MS/MSD Sample ID	
Sample ID	MW-33-150-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	9	Post Sampling Turbidity	
Turbidity		Purge Date	12/02/2020

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)
08:51	500	2000	24.4	7.47	16984	89.7	2.39	11	34.14	9.89	10.94
08:55	500	4000	24.6	7.45	16547	88.1	2.12	10	34.14	9.55	10.67
08:59	500	6000	24.7	7.44	16387	86.3	2.01	10	34.14	9.48	10.54
09:03	500	8000	24.7	7.43	16312	83.8	1.96	9	34.14	9.42	10.48
09:07	500	10000	24.7	7.43	16274	81.2	1.92	9	34.14	9.37	10.44

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

MW-33-210

Date	12/02/2020	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)	33.90
Water Quality Meter	YSI	Gallons in Well	28.80
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	210.43
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	200
Water Column in Well	176.53	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	09:58	MS/MSD Sample ID	
Sample ID	MW-33-210-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	12/02/2020

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)
09:41	500	2000	23.8	7.44	19911	106.5	2.87	10	34	11.5	12.74
09:45	500	4000	23.8	7.42	19904	102.4	2.44	8	34	11.5	12.74
09:49	500	6000	23.3	7.41	19894	98.9	1.6	8	34	11.5	12.74
09:53	500	8000	23.3	7.4	19877	97.3	1.54	7	34	11.5	12.74
09:57	500	10000	23.3	7.4	19858	96.3	1.52	7	34	11.5	12.74

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-38D

Date	11/30/2020	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)	70.16
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	173
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	11/30/2020	EB Sample ID	
Sample Time	14:49	EB Time	
Sample ID	MW-38D-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	8	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/30/2020

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)
14:32	500	2000	29	7.42	15691	34.8	4.33	16	70.23	9.18	10
14:36	500	4000	29.4	7.39	15954	46.8	3.55	11	70.23	9.44	10.24
14:40	500	6000	29.8	7.38	15961	49.3	3.21	8	70.23	9.44	10.24
14:44	500	8000	29.8	7.37	15972	51.4	3.15	8	70.23	9.44	10.24
14:48	500	10000	29.8	7.37	15982	53.4	3.11	8	70.23	9.44	10.24

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

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-38S

Date	11/30/2020	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)	70.61
Water Quality Meter	YSI	Gallons in Well	4.47
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	98.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Water Column in Well	27.39	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/30/2020	EB Time	
Sample Time	13:53	MS/MSD Sample ID	
Sample ID	MW-38S-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	11/30/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:36	500	2000	30.7	7.38	1902	26.8	5.37	24	70.75	0.96	1.23
13:40	500	4000	31	7.35	1865	14.2	3.31	14	70.75	0.93	1.2
13:44	500	6000	31.2	7.33	1829	10.5	3.03	8	70.75	0.92	1.18
13:52	500	10000	31.2	7.31	1804	2.4	2.96	8	70.75	0.9	1.17
20:40	500	8000	31.2	7.32	1811	6.8	3	8	70.75	0.92	1.18

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-47-055

Date	11/30/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	29.41
Water Quality Meter	YSI	Gallons in Well	4.46
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	56.74
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	50
Water Column in Well	27.34	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/30/2020	EB Time	
Sample Time	14:41	MS/MSD Sample ID	
Sample ID	MW-47-055-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	11/30/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:24	500	2000	27.7	7.78	5485	16.3	1.36	7	29.45	2.92	3.54
14:28	500	4000	28.1	7.70	5470	16.6	1.31	4	29.45	2.92	3.54
14:32	500	6000	28.1	7.64	5502	16.7	1.20	4	29.45	2.92	3.54
14:36	500	8000	28.1	7.63	5513	17.1	1.21	4	29.45	2.92	3.54
14:40	500	10000	28.1	7.63	5526	17.6	1.20	4	29.45	2.92	3.54

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-47-115

Date	11/30/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	29.75
Water Quality Meter	YSI	Gallons in Well	14.02
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	115.65
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	110
Water Column in Well	85.90	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/30/2020	EB Time	
Sample Time	14:01	MS/MSD Sample ID	
Sample ID	MW-47-115-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	7	Post Sampling Turbidity	
Turbidity		Purge Date	11/30/2020

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)
13:44	500	2000	27.6	7.73	13257	19.1	1.27	10	29.80	7.40	8.41
13:48	500	4000	27.8	7.68	13715	17.4	1.13	7	29.80	7.40	8.41
13:52	500	6000	27.9	7.64	14088	14.1	0.94	7	29.80	7.40	8.41
13:56	500	8000	27.9	7.64	14101	13.2	0.93	7	29.80	7.40	8.41
14:00	500	10000	27.9	7.63	14120	12.9	0.92	7	29.80	7.40	8.41

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-48

Date	11/30/2020	Sampler	_____
		Color	_____
		Casing Volume to Remove	_____
		Depth to Water (ft bmp)	_____
		Gallons in Well	_____
		Measured Well Depth (ft bmp)	_____
		Odor	_____
		Pump Intake Depth (ft bmp)	_____
		Total Volume to Remove	_____
		EB Sample ID	_____
		EB Time	_____
		MS/MSD Sample ID	_____
		MS/MSD Sample Time	_____
		Double Filter Turbidity	_____
		Post Sampling Turbidity	_____
		Purge Date	11/30/2020

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pondered Water?		X		

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-58-065

Date	11/30/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	66.58
Water Quality Meter	YSI	Gallons in Well	0.19
Casing Material	PVC	Measured Well Depth (ft bmp)	67.70
Casing Diameter (in)	2	Odor	
Water Column in Well	1.13	Pump Intake Depth (ft bmp)	
Comments	Insufficient water to purge or sample	Total Volume to Remove	
		EB Sample ID	
		EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	11/30/2020

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)
14:25											

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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			

Photos and Drawings

**Site: PGE Topock
Topock, CA**



**Site: PGE Topock
Topock, CA**

MW-58BR

Date	11/30/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	67.11
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	
Comments	Dedicated QED	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/30/2020	EB Time	
Sample Time	14:53	MS/MSD Sample ID	
Sample ID	MW-58BR-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	11/30/2020

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)
14:36	300	1200	26.9	7.65	7685	114.9	0.30	16	67.17	4.25	5.01
14:40	300	2400	27.0	7.68	7690	110.8	0.26	11	67.17	4.25	5.01
14:44	300	3600	27.0	7.68	7690	110.8	0.25	8	67.17	4.25	5.01
14:48	300	4800	27.0	7.68	7697	110.1	0.23	8	67.17	4.25	5.01
14:52	300	6000	27.0	7.69	7696	110.1	0.23	8	67.17	4.25	5.01

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**

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-62-110

Date	12/01/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Casing Material	PVC	Measured Well Depth (ft bmp)	
Comments	Flute Well	Odor	none
Sample Date	12/02/2020	Pump Intake Depth (ft bmp)	
Sample Time	15:00	Total Volume to Remove	
Sample ID	MW-62-110-Q420	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	2	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/01/2020

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)
08:05	0.5	2	26.7	7.62	12665	-84.1	0.84	5		7.22	8.19
08:07	0.5	6	27.0	7.74	10542	-193.9	0.06	2		5.98	6.88
15:00			27.1	7.78	10538	-195.1	0.06	2		5.97	6.87
15:42	0.5	4	27.1	7.71	10673	-190.9	0.05	2		6.01	6.92

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?			X	
Standing or Poned 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			

Photos and Drawings

**Site: PGE Topock
Topock, CA**



**Site: PGE Topock
Topock, CA**

MW-62-190

Date	12/01/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Casing Material	PVC	Measured Well Depth (ft bmp)	
Comments	Flute Well	Odor	none
Sample Date	12/02/2020	Pump Intake Depth (ft bmp)	
Sample Time	14:50	Total Volume to Remove	
Sample ID	MW-62-190-Q420	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	2	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/01/2020

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)
07:38	0.5	2	26.9	7.66	18497	-88.9	0.91	9		10.52	11.54
07:55	0.5	6	26.1	7.80	18789	-180.9	0.04	2		11.13	12.20
14:50			26.4	7.81	18793	-178.0	0.4	2		11.13	12.20
15:30	0.5	4	27.0	7.76	18933	-177.0	0.05	3		11.17	12.25

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?			X	
Standing or Poned 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			

Photos and Drawings

**Site: PGE Topock
Topock, CA**



**Site: PGE Topock
Topock, CA**

MW-64BR

Date	11/30/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	120.56
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	
Comments	Dedicated QED	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/30/2020	EB Time	
Sample Time	15:58	MS/MSD Sample ID	
Sample ID	MW-64BR-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	11/30/2020

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)
15:29	200	800	23.8	7.21	13978	15.0	3.54	17	120.68	8.09	9.08
15:33	200	1600	23.6	7.24	14003	11.9	2.79	12	120.68	8.10	9.09
15:37	200	2400	23.3	7.29	14004	9.1	2.82	9	120.70	8.10	9.09
15:41	200	3200	23.4	7.35	13966	3.0	2.29	7	120.70	8.06	9.05
15:45	200	4000	23.6	7.38	13933	2.8	1.89	6	120.70	8.06	9.05
15:49	200	4800	23.6	7.41	13956	2.1	1.80	5	120.70	8.08	9.07
15:53	200	5600	23.6	7.41	13973	1.9	1.76	5	120.70	8.08	9.07
15:57	200	6400	23.6	7.40	13945	1.1	1.75	5	120.70	8.08	9.07

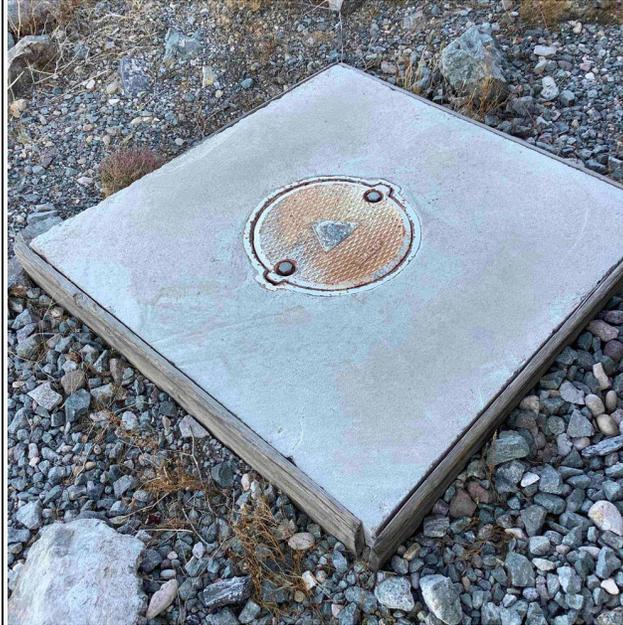
Well Integrity Checklist

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		

**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**

MW-66BR-270

Date	12/01/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	
Purge Method	Extraction Port	Casing Volume to Remove	
Purge Volume Units	gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Extraction port	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	
Comments	Dedicated ES pump	Total Volume to Remove	
		EB Sample ID	
		EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/01/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cum'l Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:06	5	20	29.7	8.89	18214	-116.9	0.23	9		10.70	11.83
09:11	5	40	29.7	8.60	18218	-181.9	0.18	5		10.70	11.83
09:16	5	60	29.7	8.59	18216	-195.9	0.16	4		10.70	11.83
09:19	5	75	29.9	8.56	18256	-195.0	0.13	4		10.70	11.83

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			

Photos and Drawings

**Site: PGE Topock
Topock, CA**



Site: PGE Topock
Topock, CA

MW-67-185

Date	12/02/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	yellow
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	170.06
Water Quality Meter	YSI	Gallons in Well	2.70
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	186.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	180
Water Column in Well	16.53	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	10:16	MS/MSD Sample ID	
Sample ID	MW-67-185-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	12/02/2020

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)
09:57	200	800	24.9	7.54	7257	61.0	0.44	23	170.16	3.97	4.69
10:01	200	1600	25.1	7.51	7290	70.6	0.39	11	170.16	3.98	4.69
10:07	200	2400	25.2	7.50	7297	71.9	0.37	9	170.16	3.98	4.69
10:11	200	3200	25.3	7.50	7298	74.0	0.35	9	170.16	3.98	4.69
10:15	200	4000	25.3	7.48	7295	75.3	0.35	9	170.16	3.98	4.69

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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-67-225

Date	12/02/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	yellow
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	170.10
Water Quality Meter	YSI	Gallons in Well	8.94
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	224.90
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	214
Water Column in Well	54.81	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-705-Q420
Sample Date	12/02/2020	EB Time	15:45
Sample Time	12:14	MS/MSD Sample ID	
Sample ID	MW-67-225-Q420	MS/MSD Sample Time	
Single Filter Turbidity	4	Double Filter Turbidity	1
Without Filter Turbidity	45	Post Sampling Turbidity	
		Purge Date	12/02/2020

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)
11:53	300	1200	28.0	8.85	6448	9.8	0.58	63	170.28	3.52	4.20
11:57	300	2400	28.9	8.71	6480	29.0	0.94	51	170.28	3.52	4.20
12:01	300	3600	29.5	8.68	6501	33.4	1.17	48	170.28	3.52	4.20
12:05	300	4800	29.6	8.65	6514	35.5	1.21	46	170.28	3.52	4.20
12:09	300	6000	29.6	8.64	6511	36.9	1.23	45	170.28	3.52	4.20
12:13	300	7200	29.7	8.64	6514	38.0	1.26	45	170.28	3.52	4.20

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-67-260

Date	12/02/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	170.05
Water Quality Meter	YSI	Gallons in Well	14.66
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	259.90
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	250
Water Column in Well	89.85	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/02/2020	EB Time	
Sample Time	11:10	MS/MSD Sample ID	
Sample ID	MW-67-260-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	12/02/2020

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)
10:53	300	1200	28.9	8.60	13906	-104.9	0.69	17	170.16	8.02	9.04
10:57	300	2400	29.6	8.57	13940	-107.9	0.57	13	170.16	8.02	9.04
11:01	300	3600	29.8	8.55	13956	-110.0	0.55	7	170.16	8.03	9.05
11:05	300	4800	29.8	8.55	14013	-112.7	0.54	7	170.16	8.03	9.05
11:09	300	6000	29.8	8.54	14022	-113.7	0.54	6	170.16	8.03	9.05

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-70-105

Date	11/30/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	81.36
Water Quality Meter	YSI	Gallons in Well	3.86
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	105.02
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	100
Water Column in Well	23.66	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-702-Q420
Sample Date	11/30/2020	EB Time	16:15
Sample Time	14:12	MS/MSD Sample ID	
Sample ID	MW-70-105-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	11/30/2020

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)
13:55	500	2000	29.8	7.96	3406	167.0	2.04	64	81.50	1.77	2.21
13:59	500	4000	29.6	7.90	3410	163.9	2.07	29	81.50	1.77	2.21
14:03	500	6000	29.5	7.89	3415	161.8	2.11	9	81.50	1.77	2.21
14:07	500	8000	29.5	7.89	3413	160.6	2.15	8	81.50	1.77	2.21
14:11	500	10000	29.6	7.89	3417	159.8	2.16	8	81.50	1.77	2.21

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-70BR-225

Date	11/30/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	80.40
Water Quality Meter	YSI	Gallons in Well	147.41
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	225.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	200
Water Column in Well	144.60	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	11/30/2020	EB Time	
Sample Time	13:28	MS/MSD Sample ID	
Sample ID	MW-70BR-225-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	11/30/2020

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)
13:07	500	2000	29.2	7.50	13117	197.0	0.74	57	80.65	7.50	8.52
13:11	500	4000	29.2	7.61	13209	195.1	0.70	30	80.65	7.50	8.52
13:15	500	6000	29.8	7.65	13209	194.7	0.70	15	80.65	7.50	8.52
13:19	500	8000	29.7	7.68	13219	192.8	0.68	9	80.65	7.50	8.52
13:23	500	10000	29.8	7.68	13235	192.9	0.65	8	80.65	7.50	8.52
13:27	500	12000	29.8	7.68	13232	192.8	0.65	8	80.65	7.50	8.52

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-74-240

Date	12/01/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	3
Purge Volume Units	gal	Depth to Water (ft bmp)	215.41
Water Quality Meter	YSI	Gallons in Well	4.09
Sampling Type	Volume Purge – Grundfos RF2	Measured Well Depth (ft bmp)	240.44
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	235
Water Column in Well	25.03	Total Volume to Remove	12.27
		EB Sample ID	
		EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/01/2020

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)
10:21	0.5	2	28.9	8.85	884	-87.9	1.02	19	226.08	0.43	0.57
10:26	0.5	4	29.5	8.75	814	-75.9	0.79	109	232.90	0.40	0.53
10:28	0.5	5									

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			

Photos and Drawings

Site: PGE Topock
Topock, CA



**Site: PGE Topock
Topock, CA**

PGE-07BR

Date	12/01/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	
Purge Method	Extraction Port	Casing Volume to Remove	
Purge Volume Units	gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Volume Purge – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	
		Total Volume to Remove	
		EB Sample ID	
		EB Time	
		MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/01/2020

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)
12:26	5	20	30.4	9.06	20489	-102.9	0.05	32		12.16	13.31
12:31	5	40	30.7	8.89	20491	-157.0	0.03	13		12.15	13.31
12:36	5	60	30.7	8.85	20501	-160.9	0.02	9		12.18	13.33
12:36											
13:43	5	80	30.7	8.79	20670	-170.9	0.02	8		12.20	13.36
13:47	5	100	30.7	8.76	20675	-173.0	0.01	9		12.20	13.36

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

Photos and Drawings



Site: PGE Topock
Topock, CA

TW-04

Date	11/30/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	30.15
Water Quality Meter	YSI	Gallons in Well	146.02
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	253.96
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	230
Water Column in Well	223.81	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-701-Q420
Sample Date	11/30/2020	EB Time	15:56
Sample Time	15:36	MS/MSD Sample ID	
Sample ID	TW-04-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	11/30/2020

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)
15:19	500	2000	26.5	7.96	22050	4.7	1.87	11	30.20	13.25	14.39
15:23	500	4000	26.6	7.96	22041	1.0	1.49	6	30.20	13.25	14.39
15:27	500	6000	26.6	7.97	22035	-0.9	1.41	6	30.20	13.25	14.39
15:31	500	8000	26.6	7.98	22027	-1.0	1.40	6	30.20	13.25	14.39
15:35	500	10000	26.6	7.98	22027	-1.0	1.39	6	30.20	13.25	14.39

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-83-245

Date	12/09/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	75.06
Water Quality Meter	YSI	Gallons in Well	27.72
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	245.00
Casing Diameter (in)	2	Odor	none
Water Column in Well	169.94	Pump Intake Depth (ft bmp)	240
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/09/2020	EB Sample ID	EB-795-1220
Sample Time	14:45	EB Time	15:10
Sample ID	MW-83-245-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	5	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	12/09/2020

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)
14:28	500	2000	29.3	9.77	19920	-12.0	0.36	11	75.10	11.80	12.96
14:32	500	4000	29.3	9.78	20000	-12.0	0.36	5	75.10	11.80	12.96
14:36	500	6000	29.4	9.77	20042	-13.5	0.32	5	75.10	11.80	12.96
14:40	500	8000	29.4	9.79	20048	-13.4	0.29	5	75.10	11.80	12.96
14:44	500	10000	29.6	9.80	20032	-14.3	0.27	5	75.10	11.80	12.96

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-83-90

Date	12/09/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	74.52
Water Quality Meter	YSI	Gallons in Well	2.53
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	90.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	80
Water Column in Well	15.49	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/09/2020	EB Time	
Sample Time	11:51	MS/MSD Sample ID	
Sample ID	MW-83-90-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-933-1220	Double Filter Turbidity	
Dup Sample Time	12:01	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/09/2020
Without Filter Turbidity	4		

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)
11:34	500	2000	29.6	8.06	2303	37.0	3.19	9	74.56	1.17	1.49
11:38	500	4000	29.6	8.05	2300	37.2	3.14	4	74.56	1.17	1.49
11:42	500	6000	29.6	8.04	2300	37.2	3.12	4	74.56	1.17	1.49
11:46	500	8000	29.6	8.05	2303	37.3	3.35	4	74.56	1.17	1.49
11:50	500	10000	29.6	8.06	2294	37.3	3.29	4	74.56	1.17	1.49

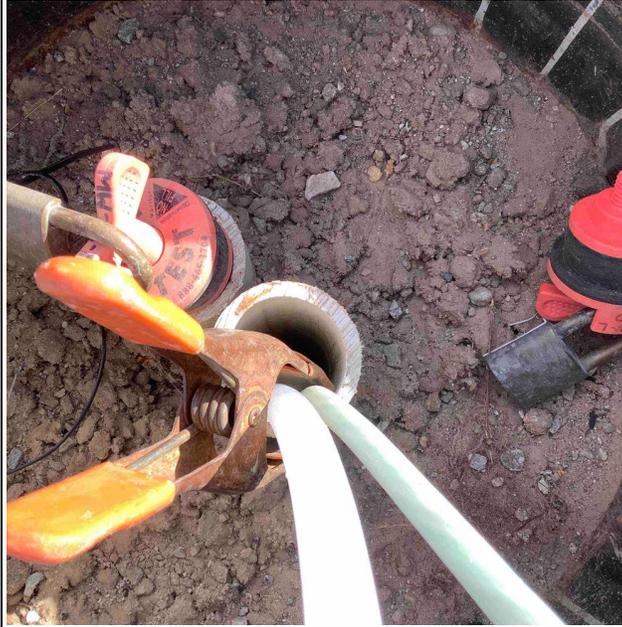
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-83-180

Date	12/09/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	74.49
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	180.0
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	
Water Column in Well	105.51	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/09/2020	EB Time	
Sample Time	12:45	MS/MSD Sample ID	
Sample ID	MW-83-180-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	12/09/2020

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)
12:28	500	2000	28.8	7.87	11674	27.6	0.70	6	74.83	6.60	7.57
12:32	500	4000	28.8	7.94	11658	24.4	0.67	3	74.83	6.60	7.57
12:36	500	6000	28.9	7.96	11676	23.0	0.66	3	74.83	6.60	7.57
12:40	500	8000	28.9	8.00	11672	22.0	0.65	3	74.83	6.60	7.57
12:44	500	10000	28.9	8.01	11666	21.3	0.64	3	74.83	6.60	7.57

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-83-225

Date	12/09/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	75.17
Water Quality Meter	YSI	Gallons in Well	24.44
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	225
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	215
Water Column in Well	149.83	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/09/2020	EB Time	
Sample Time	13:35	MS/MSD Sample ID	
Sample ID	MW-83-225-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/09/2020

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	29.4	8.35	16079	8.2	0.36	11	75.21	9.34	10.44
13:22	500	4000	29.5	8.35	16086	8.2	0.35	6	75.21	9.34	10.44
13:26	500	6000	29.5	8.34	16042	8.1	0.34	6	75.21	9.34	10.44
13:30	500	8000	29.5	8.33	16094	8.2	0.34	6	75.21	9.34	10.44
13:34	500	10000	29.5	8.36	16088	8.3	0.35	6	75.21	9.34	10.44

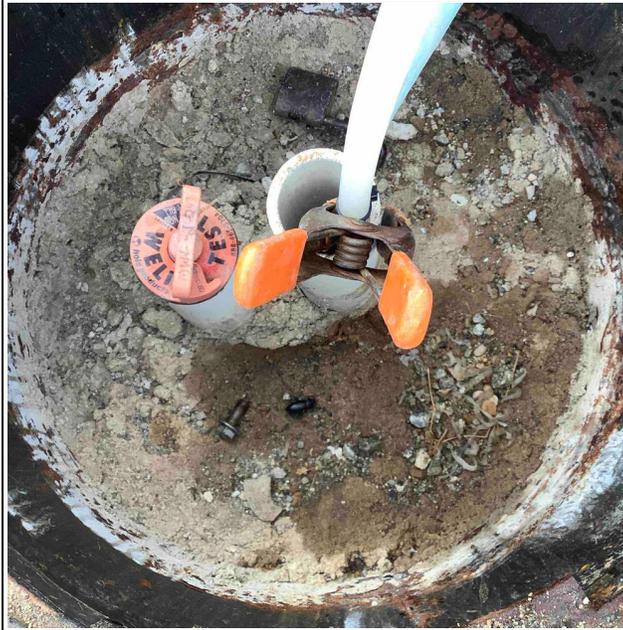
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-85-129

Date	12/09/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	115.63
Water Quality Meter	YSI	Gallons in Well	2.19
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	129.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	121.50
Water Column in Well	13.38	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/09/2020	EB Time	
Sample Time	08:33	MS/MSD Sample ID	
Sample ID	MW-85-129-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	12/09/2020

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)
08:16	500	2000	29.9	6.99	2129	158.8	4.39	8	115.68	1.07	1.35
08:20	500	4000	30.0	7.03	2089	151.6	4.34	4	115.68	1.07	1.35
08:24	500	6000	30.0	7.06	2126	147.7	4.34	4	115.68	1.07	1.35
08:28	500	8000	30.1	7.09	2119	143.5	4.29	4	115.68	1.07	1.35
08:32	500	8000	30.0	7.10	2110	142.4	4.30	4	115.68	1.07	1.35

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-85-217

Date	12/09/2020	Sampler	JB
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	115.70
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	
Did Well Dewater?	No	Odor	none
Sample Date	12/09/2020	Pump Intake Depth (ft bmp)	
Sample Time	09:16	Total Volume to Remove	
Sample ID	MW-85-217-Q420	EB Sample ID	
Single Filter Turbidity	1	EB Time	
Without Filter Turbidity	5	MS/MSD Sample ID	
		MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/09/2020

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)
09:03	500	2000	29.1	3.13	12849	340.4	0.69	10	115.75	7.	8.35
09:06	500	4000	29.2	3.60	12846	320.4	0.59	5	115.75	7.33	8.35
09:09	500	6000	29.2	3.63	12842	313.2	0.59	5	115.75	7.33	8.35
09:12	500	8000	29.3	3.62	12833	314.3	0.57	5	115.75	7.33	8.35
09:15	500	10000	29.3	3.61	12827	312.2	0.56	5	115.75	7.33	8.35

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-85-237

Date	12/09/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	114.83
Water Quality Meter	YSI	Gallons in Well	19.85
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	236.50
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	231.50
Water Column in Well	121.67	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/09/2020	EB Time	
Sample Time	10:26	MS/MSD Sample ID	
Sample ID	MW-85-237-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/09/2020

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)
10:09	500	2000	29.5	7.91	17625	24.4	0.56	12	114.88	10.32	11.45
10:13	500	4000	29.5	7.92	17569	23.1	0.55	6	114.88	10.32	11.45
10:17	500	6000	29.6	7.92	17555	22.3	0.54	6	114.88	10.32	11.45
10:21	500	8000	29.6	7.93	17531	21.0	0.53	6	114.88	10.32	11.45
10:25	500	10000	29.7	7.94	17504	20.3	0.52	6	114.88	10.32	11.45

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-10D

Date	12/10/2020	Sampler	Jb
Weather Conditions	Sunny	Color	
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	67.28
Water Quality Meter	YSI	Gallons in Well	9.82
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	127.45
Casing Material	PVC	Odor	
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	115.50
Water Column in Well	60.17	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-797-1220
Sample Date	12/10/2020	EB Time	14:30
Sample Time	14:01	MS/MSD Sample ID	
Sample ID	MW-10D-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	12/10/2020

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)
13:44	500	2000	29.4	6.89	4120	69.6	1.36	9	67.32	2.16	2.67
13:48	500	4000	29.4	6.90	4121	68.4	1.37	4	67.32	2.16	2.68
13:52	500	6000	29.5	6.90	4107	67.8	1.34	4	67.32	2.16	2.68
13:56	500	8000	29.5	6.91	4120	67.3	1.33	4	67.32	2.16	2.67
14:00	500	10000	29.5	6.90	4123	66.8	1.31	4	67.32	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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Action Completed?			X	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-89-183

Date	12/10/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	131.19
Water Quality Meter	YSI	Gallons in Well	8.46
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	183.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	173.00
Water Column in Well	51.81	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	10:51	MS/MSD Sample ID	
Sample ID	MW-89-183-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	7	Post Sampling Turbidity	
Turbidity		Purge Date	12/10/2020

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)
10:34	500	2000	30.4	8.12	7276	24.4	2.73	13	131.23	3.98	4.72
10:38	500	4000	30.4	8.12	7269	24.9	2.69	7	131.23	3.98	4.72
10:42	500	6000	30.4	8.11	7280	25.0	2.67	7	131.23	3.98	4.72
10:46	500	8000	30.4	8.11	7277	24.6	2.57	7	131.23	3.98	4.72
10:50	500	10000	30.5	8.12	7301	22.7	2.65	7	131.23	3.98	4.72

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-89-273

Date	12/10/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	131.25
Water Quality Meter	YSI	Gallons in Well	23.13
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	273.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	263
Water Column in Well	141.75	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	10:06	MS/MSD Sample ID	
Sample ID	MW-89-273-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/10/2020

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)
09:49	500	2000	30.0	8.19	7481	35.1	3.66	12	131.29	4.09	4.85
09:53	500	4000	30.0	8.19	7476	34.3	3.65	6	131.29	4.09	4.85
09:57	500	6000	30.1	8.20	7480	34.1	3.64	6	131.29	4.09	4.85
10:01	500	8000	30.1	8.20	7471	34.4	3.63	6	131.29	4.08	4.85
10:05	500	10000	30.1	8.20	7465	33.2	3.62	6	131.29	4.09	4.86

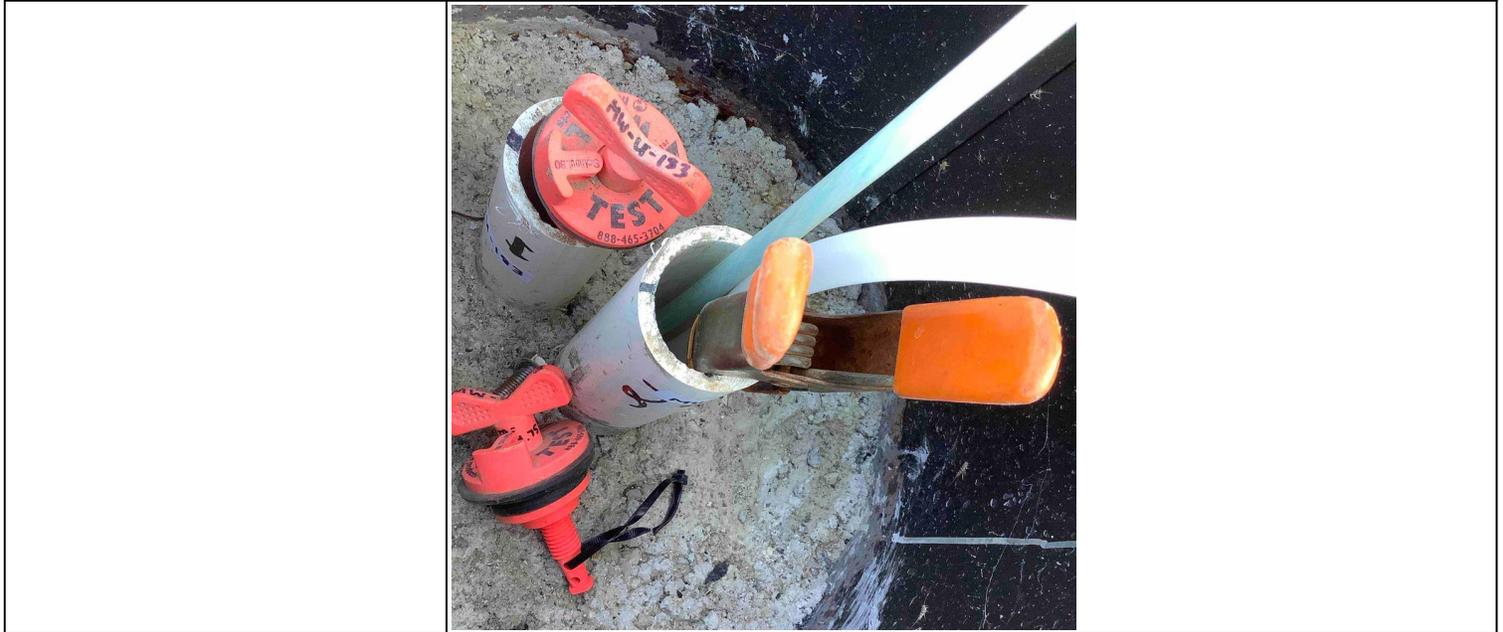
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-84-057

Date	12/10/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	45.33
Water Quality Meter	YSI	Gallons in Well	2.19
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	58.73
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	49.5
Water Column in Well	13.40	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-718-q420
Sample Date	12/10/2020	EB Time	14:20
Sample Time	14:12	MS/MSD Sample ID	
Sample ID	MW-84-057-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	12/10/2020

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)
13:51	500	2000	29.2	7.95	1850	19.9	6.29	27	45.36	0.93	1.20
13:55	500	4000	29.6	7.93	1848	22.6	6.30	15	45.36	0.93	1.20
13:59	500	6000	29.8	7.91	1848	24.9	6.41	9	45.36	0.93	1.20
14:03	500	8000	30.0	7.89	1845	26.3	6.41	7	45.36	0.93	1.20
14:07	500	10000	30.1	7.88	1846	28.0	6.43	7	45.36	0.93	1.20
14:11	500	12000	30.0	7.87	1845	29.6	6.46	7	45.36	0.93	1.20

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-84-095

Date	12/10/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	45.22
Water Quality Meter	YSI	Gallons in Well	7.87
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	93.44
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Water Column in Well	48.22	Total Volume to Remove	0.00
Sample Date	12/10/2020	EB Sample ID	
Sample ID	MW-84-095-Q420	EB Time	
Duplicate Sample ID	Mw-934-1220	MS/MSD Sample ID	
Dup Sample Time	13:33	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	35	Post Sampling Turbidity	
		Purge Date	12/10/2020

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)
13:02	500	2000	29.5	7.62	6028	8.2	1.80	121	45.24	3.24	3.91
13:06	500	4000	29.6	7.62	5835	5.1	1.75	59	45.24	3.15	3.79
13:10	500	6000	29.6	7.60	5742	2.1	1.69	37	45.24	3.08	3.73
13:14	500	8000	29.7	7.59	5765	0.1	1.66	35	45.24	3.09	3.75
13:18	500	10000	29.8	7.59	5726	-1.5	1.65	35	45.24	3.08	3.71
13:22	500	12000	29.8	7.58	5699	-2.2	1.64	35	45.24	3.07	3.70

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-84-132

Date	12/10/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	45.83
Water Quality Meter	YSI	Gallons in Well	14.39
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	134.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	122
Water Column in Well	88.17	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	12:38	MS/MSD Sample ID	
Sample ID	MW-84-132-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	12/10/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:17	500	2000	28.6	7.53	8929	12.5	1.82	33	45.85	4.98	5.83
12:21	500	4000	29.3	7.59	9917	7.0	1.75	12	45.85	5.55	6.46
12:25	500	6000	29.6	7.63	10012	1.6	1.59	6	45.85	5.58	6.50
12:29	500	8000	29.7	7.65	10041	-2.8	1.49	2	45.85	5.60	6.50
12:33	500	10000	29.8	7.66	10013	-4.6	1.46	2	45.85	5.60	6.51
12:37	500	12000	29.9	7.66	10022	-6.6	1.45	2	45.85	5.60	6.50

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-84-193

Date	12/10/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	45.72
Water Quality Meter	YSI	Gallons in Well	24.26
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	194.41
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	183
Water Column in Well	148.69	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	11:57	MS/MSD Sample ID	
Sample ID	MW-84-193-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	12/10/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:36	500	2000	28.7	7.54	13345	5.6	0.81	17	45.79	7.68	8.71
11:40	500	4000	29.3	7.67	13810	-0.5	1.26	11	45.79	7.86	8.95
11:44	500	6000	29.6	7.80	13668	-5.7	1.34	5	45.79	7.82	8.86
11:48	500	8000	29.7	7.83	13590	-8.4	1.36	4	45.79	7.81	8.85
11:52	500	10000	29.9	7.84	13551	-10.4	1.37	4	45.79	7.74	8.79
11:56	500	12000	30.0	7.85	13519	-12.2	1.38	4	45.79	7.73	8.78

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-92-102

Date	12/08/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	7.61
Water Quality Meter	YSI	Gallons in Well	16.08
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	106.16
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	97
Water Column in Well	98.55	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	08:24	MS/MSD Sample ID	
Sample ID	MW-92-102-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	12/08/2020

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)
08:07	300	1200	22.5	8.59	3670	-117.9	0.20	31	7.75	1.93	2.39
08:11	300	2400	23.8	8.62	3740	-98.7	0.16	14	7.75	1.97	2.42
08:15	300	3600	23.9	8.64	3756	-90.8	0.12	7	7.75	1.98	2.43
08:19	300	4800	23.9	8.64	3776	-88.9	0.11	6	7.75	1.98	2.43
08:23	300	6000	23.9	8.64	3787	-88.7	0.11	6	7.75	1.98	2.43

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-92-122

Date	12/08/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	8.11
Water Quality Meter	YSI	Gallons in Well	19.24
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	126.05
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	117
Water Column in Well	117.94	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	07:34	MS/MSD Sample ID	
Sample ID	MW-92-122-Q420	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	1
Without Filter Turbidity	15	Post Sampling Turbidity	
		Purge Date	12/08/2020

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)
07:17	300	1200	21.4	8.07	15065	-68.9	0.93	47	8.26	8.79	9.80
07:21	300	2400	21.3	8.11	14701	-98.0	0.70	39	8.26	8.65	9.64
07:25	300	3600	21.1	8.12	14801	-106.8	0.65	16	8.26	8.70	9.75
07:29	300	4800	21.1	8.12	14896	-112.6	0.63	15	8.26	8.70	9.75
07:33	300	6000	21.1	8.12	14904	-114.0	0.63	15	8.26	8.70	9.75

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-92-072

Date	12/08/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	7.21
Water Quality Meter	YSI	Gallons in Well	11.15
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	75.52
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	67
Water Column in Well	68.31	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	09:04	MS/MSD Sample ID	
Sample ID	MW-92-072-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/08/2020

Field Parameters

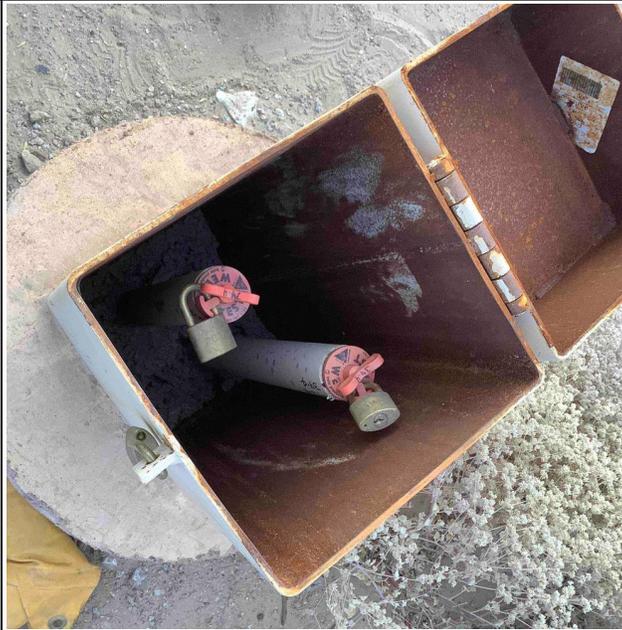
Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:47	300	1200	25.1	8.54	2387	-16.9	0.22	23	7.29	1.22	1.54
08:51	300	2400	25.3	8.52	2390	-22.9	0.17	11	7.29	1.22	1.54
08:55	300	3600	25.4	8.52	2380	-26.9	0.15	6	7.29	1.22	1.54
08:59	300	4800	25.4	8.51	2387	-28.9	0.14	5	7.29	1.22	1.54
09:03	300	6000	25.5	8.51	2389	-29.6	0.12	5	7.29	1.22	1.54

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-92-037

Date	12/08/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	7.25
Water Quality Meter	YSI	Gallons in Well	5.44
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	40.60
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	32
Water Column in Well	33.35	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	09:50	MS/MSD Sample ID	
Sample ID	MW-92-037-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/08/2020

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)
09:33	300	1200	25.9	8.62	1755	-83.2	0.71	9	7.30	0.87	1.13
09:37	300	2400	26.0	8.60	1735	-115.8	0.65	8	7.30	0.87	1.12
09:41	300	3600	26.1	8.57	1732	-126.2	0.54	7	7.30	0.87	1.12
09:45	300	4800	26.1	8.56	1729	-131.5	0.48	6	7.30	0.87	1.12
09:49	300	6000	26.1	8.56	1732	-126.4	0.47	6	7.30	0.87	1.12

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-91-045

Date	12/08/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	11.28
Water Quality Meter	YSI	Gallons in Well	5.76
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	46.57
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	40
Water Column in Well	35.29	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	07:35	MS/MSD Sample ID	
Sample ID	MW-91-045-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/08/2020

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)
07:18	500	2000	24.9	7.23	1938	130.4	0.71	12	11.32	0.98	1.26
07:22	500	4000	24.8	7.26	1943	125.0	0.69	6	11.32	0.98	1.26
07:26	500	6000	24.8	7.28	1945	121.7	0.66	6	11.32	0.98	1.26
07:30	500	8000	24.9	7.30	1948	118.4	0.65	6	11.32	0.99	1.26
07:34	500	10000	24.9	7.32	1952	113.7	0.69	6	11.32	0.98	1.26

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-91-120

Date	12/08/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	11.09
Water Quality Meter	YSI	Gallons in Well	18.13
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	122.21
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	115
Water Column in Well	111.12	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	08:11	MS/MSD Sample ID	
Sample ID	MW-91-120-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	12/08/2020

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)
07:54	500	2000	24.5	7.40	10074	67.7	0.42	9	11.13	5.67	6.57
07:58	500	4000	24.5	7.43	10076	64.6	0.40	6	11.13	5.67	6.57
08:02	500	6000	24.5	7.44	10092	63.2	0.40	6	11.13	5.67	6.57
08:06	500	8000	24.5	7.45	10100	62.3	0.39	6	11.13	5.67	6.57
08:10	500	10000	24.5	7.46	10128	61.1	0.38	6	11.13	5.67	6.57

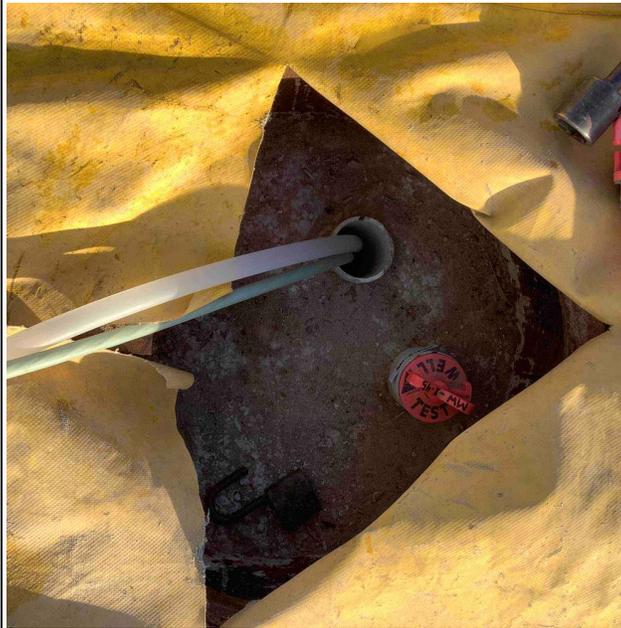
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-91-170

Date	12/08/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	10.6.2
Water Quality Meter	YSI	Gallons in Well	28.17
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	172.71
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	165
Water Column in Well	172.71	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	08:51	MS/MSD Sample ID	
Sample ID	MW-91-170-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	12/08/2020

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)
08:34	500	2000	24.1	7.67	12224	-6.3	0.33	8	10.66	7.00	7.96
08:38	500	4000	24.1	7.66	12240	-5.2	0.32	4	10.66	7.00	7.96
08:42	500	6000	24.1	7.66	12250	-4.3	0.32	4	10.66	7.00	7.96
08:46	500	8000	24.1	7.65	12254	-3.3	0.31	4	10.66	7.00	7.96
08:50	500	10000	24.1	7.66	12258	-2.3	0.31	4	10.66	7.00	7.96

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

MW-91-320

Date	12/08/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	12.58
Water Quality Meter	YSI	Gallons in Well	50.41
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	321.59
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	315
Water Column in Well	309.01	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	09:51	MS/MSD Sample ID	
Sample ID	MW-91-320-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	12/08/2020

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)
09:34	500	2000	24.4	7.91	31100	-159.4	0.34	6	12.62	19.26	20.15
09:38	500	4000	24.4	7.93	31153	-158.8	0.33	3	12.62	19.26	20.15
09:42	500	6000	24.5	7.96	31281	-158.1	0.32	3	12.62	19.26	20.15
09:46	500	8000	24.5	7.96	31360	-157.8	0.31	3	12.62	19.26	20.15
09:50	500	10000	24.5	7.97	31406	-157.6	0.30	3	12.62	19.26	20.15

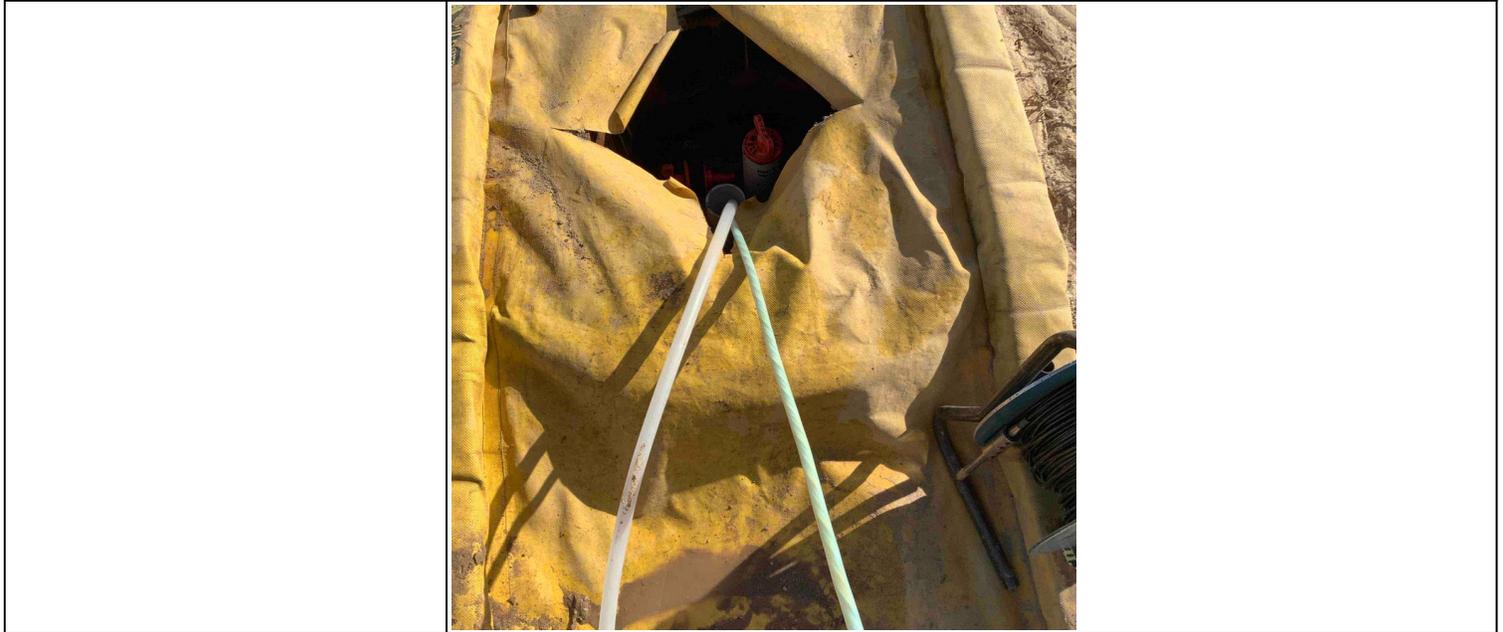
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-88-107

Date	12/10/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	90.32
Water Quality Meter	YSI	Gallons in Well	2.73
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	107.0
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	102
Water Column in Well	16.69	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	08:34	MS/MSD Sample ID	
Sample ID	MW-88-107-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	12/10/2020

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)
08:17	500	2000	29.4	8.54	1872	23.6	3.57	11	90.28	0.94	1.20
08:21	500	4000	29.6	8.52	1853	23.6	3.59	8	90.28	0.93	1.20
08:25	500	6000	29.5	8.52	1829	24.5	3.89	8	90.28	0.92	1.20
08:29	500	8000	29.6	8.51	1823	25.6	3.86	8	90.28	0.92	1.20
08:33	500	10000	29.6	8.50	1818	26.5	3.78	8	90.28	0.92	1.20

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-11D

Date	12/10/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	66.84
Water Quality Meter	YSI	Gallons in Well	10.93
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	133.85
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	127
Water Column in Well	67.01	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	12:12	MS/MSD Sample ID	
Sample ID	MW-11D-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/10/2020

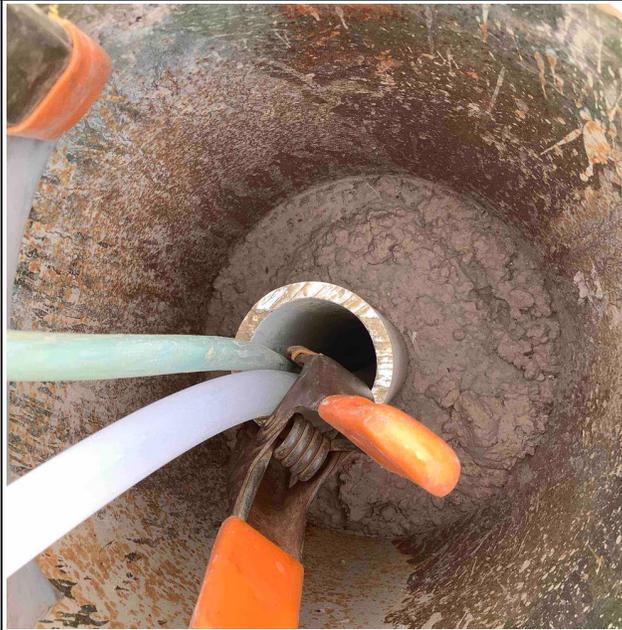
Field Parameters

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)
11:55	500	2000	29.9	3.36	5903	371.5	2.65	11	66.88	3.18	3.82
11:59	500	4000	29.9	3.33	5881	337.3	2.62	5	66.88	3.18	3.82
12:03	500	6000	29.9	3.33	5871	331.3	2.67	5	66.88	3.18	3.82
12:07	500	8000	30.0	3.32	5863	332.4	2.66	5	68.88	3.18	3.82
12:11	500	10000	30.0	3.31	5858	333.2	2.57	5	66.88	3.18	3.82

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-93-050

Date	12/09/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	32.22
Water Quality Meter	YSI	Gallons in Well	3.17
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	51.65
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	46
Water Column in Well	19.43	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-796-1220
Sample Date	12/09/2020	EB Time	15:54
Sample Time	15:40	MS/MSD Sample ID	
Sample ID	MW-93-050-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	12/09/2020

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)
15:19	500	2000	27.4	7.84	4235	-13.1	1.99	93	32.32	2.26	2.76
15:23	500	4000	27.9	7.77	4465	-14.4	1.71	25	32.32	2.39	2.91
15:27	500	6000	28.1	7.71	4623	-17.5	1.45	16	32.32	2.46	3.01
15:31	500	8000	28.2	7.69	4686	-19.3	1.35	9	32.32	2.48	3.04
15:35	500	10000	28.3	7.68	4672	-20.3	1.36	9	32.32	2.48	3.03
15:39	500	12000	28.3	7.66	4653	-21.1	1.40	9	32.32	2.47	3.01

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-93-213

Date	12/09/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	31.51
Water Quality Meter	YSI	Gallons in Well	29.87
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	214.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	209
Water Column in Well	183.08	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/09/2020	EB Time	
Sample Time	14:57	MS/MSD Sample ID	
Sample ID	MW-93-213-Q420	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter	15	Post Sampling Turbidity	
Turbidity		Purge Date	12/09/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:36	500	2000	26.3	7.70	16135	-17.1	0.53	101	31.72	9.36	10.45
14:40	500	4000	26.5	7.72	16040	-25.6	0.44	79	31.73	9.34	10.43
14:44	500	6000	26.7	7.75	16029	-35.3	0.32	23	31.73	9.34	10.43
14:48	500	8000	26.8	7.75	16018	-44.5	0.30	16	31.73	9.32	10.37
14:52	500	10000	26.8	7.74	15981	-48.0	0.30	15	31.73	9.32	10.37
14:56	500	12000	26.9	7.74	15910	-50.9	0.28	15	31.73	9.32	10.38

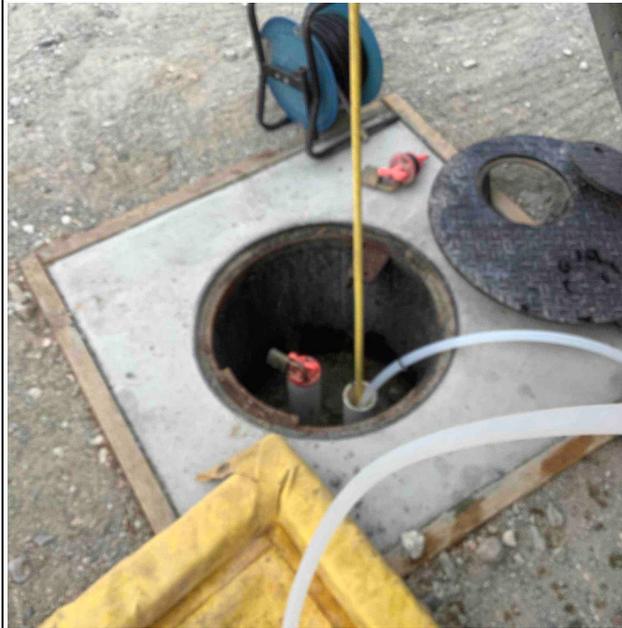
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-97-202

Date	12/10/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	27.41
Water Quality Meter	YSI	Gallons in Well	28.23
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	200.48
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	195
Water Column in Well	173.07	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	08:23	MS/MSD Sample ID	
Sample ID	MW-97-202-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	12/10/2020

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)
08:02	500	2000	26.8	7.59	18457	-85.0	0.44	30	27.82	10.90	12.00
08:06	500	4000	27.3	7.61	18601	-88.3	0.30	7	27.82	10.97	12.09
08:10	500	6000	27.6	7.62	18704	-93.5	0.25	3	27.82	11.02	12.15
08:14	500	8000	27.8	7.62	18759	-97.5	0.21	3	27.82	11.08	12.18
08:18	500	10000	28.0	7.62	18826	-98.4	.20	3	27.82	11.13	12.25
08:22	500	12000	28.0	7.63	18844	-100.2	0.19	3	27.82	11.14	12.27

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-97-043

Date	12/10/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	grey
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	27.60
Water Quality Meter	YSI	Gallons in Well	2.35
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	41.97
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	36
Water Column in Well	14.37	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	09:12	MS/MSD Sample ID	
Sample ID	MW-97-043-Q420	MS/MSD Sample Time	
Single Filter Turbidity	9	Double Filter Turbidity	2
Without Filter Turbidity	40	Post Sampling Turbidity	
		Purge Date	12/10/2020

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)
08:43	500	2000	28.2	8.04	3266	-48.0	0.17	678	27.88	1.70	2.12
08:47	500	4000	28.3	8.03	3276	-56.6	0.15	182	27.88	1.70	2.13
08:51	500	6000	28.3	8.02	3288	-69.2	0.14	56	27.88	1.71	2.13
08:55	500	8000	28.6	8.00	3316	-92.5	0.13	44	27.88	1.72	2.15
08:59	500	10000	28.5	7.99	3318	-93.3	0.12	42	27.88	1.72	2.15
09:03	500	12000	28.6	7.98	3331	-109.2	0.13	41	27.88	1.73	2.16
09:07	500	14000	28.5	7.97	3335	-116.0	0.13	40	27.88	1.74	2.17
09:11	500	16000	28.5	7.97	3342	-121.9	0.13	40	27.88	1.74	2.17

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-11

Date	12/10/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	66.68
Water Quality Meter	YSI	Gallons in Well	10.33
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	82.50
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	72.50
Water Column in Well	15.82	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	13:01	MS/MSD Sample ID	
Sample ID	MW-11-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/10/2020

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)
12:44	500	2000	30.3	6.38	2473	121.3	4.60	11	66.72	1.25	1.60
12:48	500	4000	30.2	6.29	2454	120.6	4.67	5	66.72	1.25	1.60
12:52	500	6000	30.2	6.39	2461	120.1	4.76	5	66.72	1.25	1.60
12:56	500	8000	30.3	6.40	2453	119.7	4.77	5	66.72	1.25	1.60
13:00	500	10000	30.3	6.41	2458	118.3	4.79	5	66.72	1.25	1.60

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-14

Date	12/10/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	115.18
Water Quality Meter	YSI	Gallons in Well	12.22
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	133.90
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	121
Water Column in Well	18.72	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	11:28	MS/MSD Sample ID	
Sample ID	MW-14-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/10/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:11	500	2000	29.2	7.68	3348	101.5	5.86	36	115.28	1.74	2.17
11:15	500	4000	29.5	7.67	3358	103.9	5.75	16	115.28	1.74	2.18
11:19	500	6000	29.6	7.65	3360	104.7	5.71	7	115.28	1.74	2.17
11:23	500	8000	29.6	7.65	3367	105.6	5.69	6	115.28	1.74	2.17
11:27	500	10000	29.6	7.65	3369	105.5	5.65	6	115.28	1.74	2.17

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-15

Date	12/10/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	184.93
Water Quality Meter	YSI	Gallons in Well	10.16
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	200.50
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	190.50
Water Column in Well	15.57	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	08:24	MS/MSD Sample ID	
Sample ID	MW-15-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	1	Post Sampling Turbidity	
		Purge Date	12/10/2020

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)
08:07	300	1200	25.8	7.76	2214	151.8	5.21	1	184.99	1.12	1.43
08:11	300	2400	26.3	7.60	2210	152.3	5.12	1	184.99	1.14	1.43
08:15	300	3600	26.6	7.55	2290	156.9	5.20	1	184.99	1.19	1.51
08:19	300	4800	26.7	7.53	2286	157.6	5.27	1	184.99	1.19	1.51
08:23	300	6000	26.7	7.52	2298	160.7	5.32	1	184.99	1.19	1.51

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-16

Date	12/10/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	199.91
Water Quality Meter	YSI	Gallons in Well	11.81
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	218.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	208
Water Column in Well	18.10	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-717-Q420
Sample Date	12/10/2020	EB Time	15:00
Sample Time	14:30	MS/MSD Sample ID	
Sample ID	MW-16-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/10/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:13	500	2000	26.8	8.18	1145	94.7	4.58	15	200.06	0.57	0.74
14:17	500	4000	27.3	8.05	1153	100.7	4.36	8	200.06	0.57	0.74
14:21	500	6000	27.5	8.03	1154	103.6	4.30	6	200.06	0.57	0.74
14:25	500	8000	27.6	8.02	1160	102.6	4.27	5	200.06	0.57	0.74
14:29	500	10000	27.6	8.02	1161	104.5	4.25	5	200.06	0.57	0.74

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-17

Date	12/10/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	132.92
Water Quality Meter	YSI	Gallons in Well	13.38
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	153.41
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	143
Water Column in Well	20.50	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	13:18	MS/MSD Sample ID	
Sample ID	MW-17-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/10/2020

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)
13:01	500	2000	28.5	8.18	1289	100.4	3.34	17	133.04	0.64	0.83
13:05	500	4000	29.0	8.01	1296	98.6	3.27	11	133.04	0.64	0.83
13:09	500	6000	29.0	7.96	1298	96.6	3.18	7	133.04	0.64	0.83
13:13	500	8000	29.1	7.93	1303	93.7	3.15	6	133.04	0.64	0.83
13:17	500	10000	29.1	7.92	1304	92.5	3.13	6	133.04	0.64	0.83

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-18

Date	12/10/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	86.81
Water Quality Meter	YSI	Gallons in Well	11.21
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	103.99
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	95
Water Column in Well	17.18	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	12:22	MS/MSD Sample ID	
Sample ID	MW-18-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/10/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:05	500	2000	28.9	7.89	1648	108.9	0.32	21	86.85	0.82	1.07
12:09	500	4000	29.1	7.84	1655	104.6	0.29	13	86.85	0.82	1.07
12:13	500	6000	29.1	7.83	1658	101.9	0.27	7	86.85	0.82	1.07
12:17	500	8000	29.2	7.83	1661	100.8	0.26	6	86.85	0.82	1.07
12:21	500	10000	29.2	7.83	1665	100.3	0.26	6	86.85	0.82	1.07

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-19

Date	12/07/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	45.57
Water Quality Meter	YSI	Gallons in Well	12.95
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	65.40
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	56
Water Column in Well	19.84	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/07/2020	EB Time	
Sample Time	14:01	MS/MSD Sample ID	
Sample ID	MW-19-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/07/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:44	500	2000	28.9	8.10	2202	-63.5	3.64	11	45.61	1.12	1.12
13:48	500	4000	29.9	8.09	2206	-62.7	3.78	6	45.61	1.12	1.43
13:52	500	6000	28.9	8.09	2201	-61.7	3.79	6	45.61	1.12	1.43
13:56	500	8000	28.9	8.07	2201	-60.0	3.88	6	45.61	1.12	1.43
14:00	500	10000	28.9	8.06	2200	-59.7	3.84	6	45.61	1.12	1.43

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-22

Date	12/08/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	4.28
Water Quality Meter	YSI	Gallons in Well	0.91
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	9.80
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	8
Water Column in Well	5.53	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	07:55	MS/MSD Sample ID	
Sample ID	MW-22-Q420	MS/MSD Sample Time	
Duplicate Sample ID	Mw-907-q420	Double Filter Turbidity	
Dup Sample Time	08:05	Post Sampling Turbidity	
Single Filter Turbidity	4	Purge Date	12/08/2020
Without Filter Turbidity	33		

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)
07:34	200	800	23.7	7.09	17899	-74.8	0.54	121	4.33	10.86	11.99
07:38	200	1600	23.8	6.92	20702	-91.6	0.38	62	4.33	12.46	13.54
07:42	200	2400	24.1	6.85	21739	-96.8	0.30	40	4.33	13.07	14.13
07:46	200	3200	24.1	6.81	22757	-100.0	0.27	37	4.33	13.73	14.79
07:50	200	4000	24.1	6.79	23183	-102.9	0.23	34	4.33	14.02	15.03
07:54	200	4800	24.3	6.78	23104	-104.0	0.21	33	4.33	13.97	15.05

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-23-060

Date	12/08/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	49.23
Water Quality Meter	YSI	Gallons in Well	1.76
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	60.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	55
Water Column in Well	10.78	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	13:20	MS/MSD Sample ID	
Sample ID	MW-23-060-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/08/2020

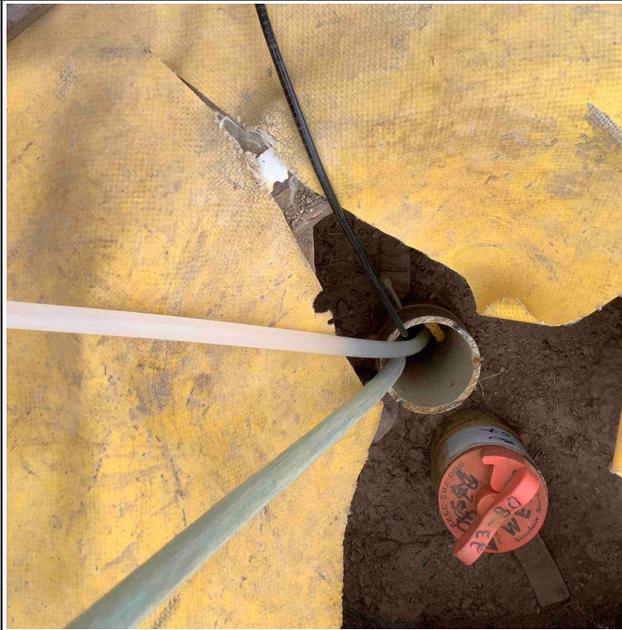
Field Parameters

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)
13:03	500	2000	27.2	9.11	17302	57.1	2.47	10	49.26	10.15	11.24
13:07	500	4000	27.4	9.11	17301	57.4	2.49	5	49.26	10.15	11.24
13:11	500	6000	27.7	9.10	17334	57.9	2.50	5	49.23	10.15	11.24
13:15	500	8000	27.7	9.10	17350	58.0	2.53	5	49.26	10.15	11.24
13:19	500	10000	27.7	9.11	17357	58.9	2.54	4	49.26	10.15	11.24

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-23-080

Date	12/08/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	49.35
Water Quality Meter	YSI	Gallons in Well	5.00
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	80.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	78
Water Column in Well	30.65	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	12:31	MS/MSD Sample ID	
Sample ID	MW-23-080-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/08/2020

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)
12:24	500	2000	25.7	9.79	17929	2.9	1.67	12	49.39	10.56	11.64
12:28	500	4000	25.8	9.83	17935	7.7	1.37	6	49.38	10.56	11.64
12:30	500	10000	25.8	9.87	17954	14.3	1.16	6	49.38	10.56	11.64
12:32	500	8000	25.8	9.84	17921	9.6	1.33	6	49.38	10.56	11.64
12:36	500	8000	25.8	9.86	17946	13.0	1.23	6	49.38	10.56	11.65

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-25

Date	12/07/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	88.09
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	106.35
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	94.50
Water Column in Well	18.26	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-713-Q420
Sample Date	12/07/2020	EB Time	15:30
Sample Time	14:57	MS/MSD Sample ID	
Sample ID	MW-25-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/07/2020

Field Parameters

Time	Flow Rate (ml/min or gal/ min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:40	500	2000	29.5	7.94	2090	-24.4	4.15	10	88.13	1.0*	1.35
14:44	500	4000	30.0	7.94	2076	-25.3	4.09	5	88.13	1.05	1.35
14:48	500	6000	30.1	7.94	2075	-25.2	4.10	5	88.09	1.05	1.35
14:52	500	8000	30.3	7.94	2065	-25.0	4.07	5	89.13	1.05	1.35
14:56	500	10000	30.4	7.94	2062	-24.9	4.07	5	88.13	1.05	1.35

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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-30-030

Date	12/07/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	14.30
Water Quality Meter	YSI	Gallons in Well	1.74
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	24.93
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	21
Water Column in Well	10.63	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Mw-30-030-eb-q420
Sample Date	12/07/2020	EB Time	12:53
Sample Time	13:21	MS/MSD Sample ID	
Sample ID	MW-30-030-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	12/07/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:00	500	2000	25.3	7.89	7534	18.8	0.37	29	14.52	4.14	0.40.88
13:04	500	4000	25.4	7.88	7350	-12.5	0.35	38	14.52	4.04	4.77
13:08	500	6000	25.6	7.87	7516	-57.1	0.31	21	14.52	4.14	4.89
13:12	500	8000	25.6	7.87	7683	-81.7	0.30	7	14.52	4.25	5.01
13:16	500	10000	25.7	7.86	7852	-90.3	0.21	7	14.52	4.34	5.10
13:20	500	12000	25.7	7.86	7880	-97.4	0.19	7	14.52	4.35	5.12

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?	X			
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-30-050

Date	12/07/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	15.48
Water Quality Meter	YSI	Gallons in Well	22.60
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	50.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	45
Water Column in Well	34.63	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/07/2020	EB Time	
Sample Time	12:36	MS/MSD Sample ID	
Sample ID	MW-30-050-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	1	Post Sampling Turbidity	
Turbidity		Purge Date	12/07/2020

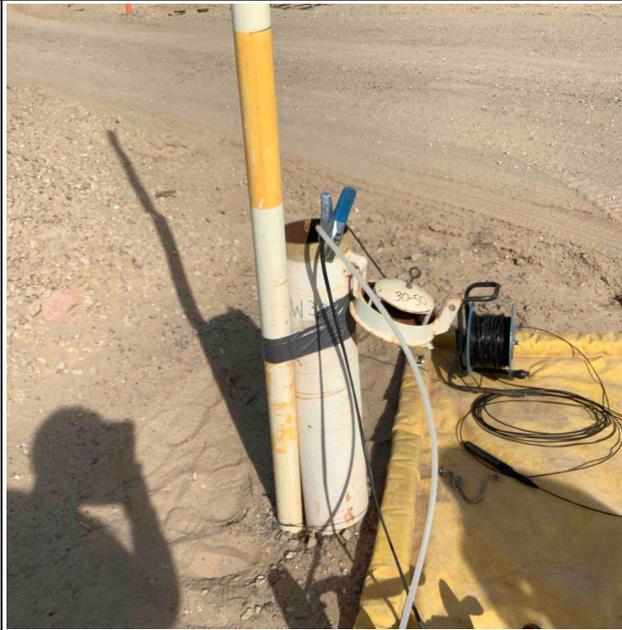
Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:19	500	2000	22.5	7.90	1018	18.4	0.22	2	15.10	0.50	0.66
12:23	500	4000	22.4	7.88	1017	13.9	0.19	1	15.10	0.50	0.66
12:27	500	6000	22.3	7.86	1017	10.2	0.16	1	15.10	0.50	0.66
12:31	500	8000	22.2	7.85	1017	5.0	0.15	1	15.10	0.50	0.66
12:35	500	10000	22.1	7.84	1016	2.0	0.14	1	15.10	0.50	0.66

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-31-060

Date	12/07/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	40.97
Water Quality Meter	YSI	Gallons in Well	13.48
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	61.62
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	51.50
Water Column in Well	20.65	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/07/2020	EB Time	
Sample Time	13:19	MS/MSD Sample ID	
Sample ID	MW-31-060-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/07/2020

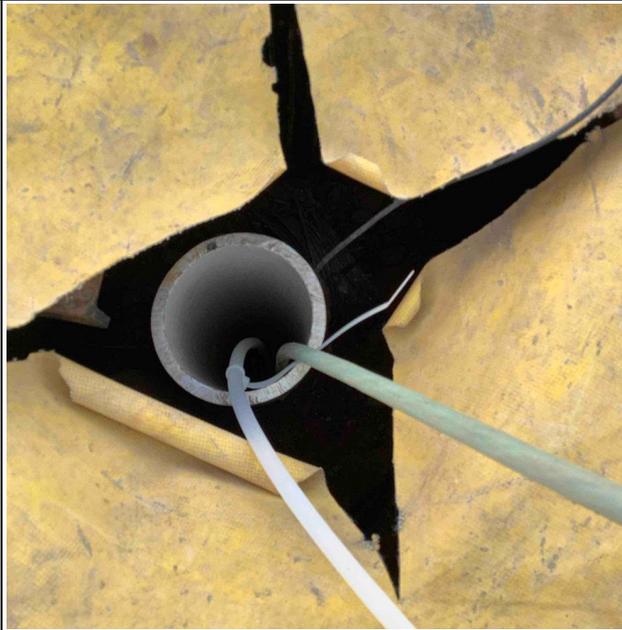
Field Parameters

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)
13:02	500	2000	28.8	8.25	3100	-31.0	3.18	10	41.01	1.60	2.01
13:06	500	4000	28.9	8.24	3102	-30.4	3.17	5	41.01	1.60	2.01
13:10	500	6000	28.9	8.23	3117	-30.0	3.19	5	41.01	1.60	2.01
13:14	500	8000	28.9	8.22	3111	-29.5	3.16	5	41.01	1.60	2.01
13:18	500	10000	28.9	8.22	3118	-29.4	3.17	5	41.01	1.60	2.01

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-31-135

Date	12/07/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	42.44
Water Quality Meter	YSI	Gallons in Well	14.78
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	133.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	123
Water Column in Well	90.56	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/07/2020	EB Time	
Sample Time	12:27	MS/MSD Sample ID	
Sample ID	MW-31-135-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/07/2020

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)
12:10	500	2000	28.4	8.14	12280	-52.9	0.61	12	42.48	7.03	8.02
12:14	500	4000	28.5	8.08	12420	-52.2	0.59	6	42.48	7.03	8.02
12:18	500	6000	28.5	8.14	12501	-52.1	0.57	6	42.48	7.03	8.02
12:22	500	8000	28.6	8.14	12513	-51.3	0.56	6	42.48	7.03	8.02
12:26	500	10000	28.6	8.15	12544	-50.1	0.55	6	42.48	7.03	8.02

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-32-020

Date	12/07/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	7.86
Water Quality Meter	YSI	Gallons in Well	1.86
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	19.23
Casing Diameter (in)	2	Odor	none
Water Column in Well	11.38	Pump Intake Depth (ft bmp)	15
Did Well Dewater?	No	Total Volume to Remove	0.00
Sample Date	12/07/2020	EB Sample ID	Mw-32-020-eb-q420
Sample Time	15:10	EB Time	14:44
Sample ID	MW-32-020-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	12/07/2020

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)
14:53	500	2000	26.5	7.30	23185	-133.2	0.32	7	7.93	13.98	15.08
14:57	500	4000	26.5	7.27	23403	-140.0	0.21	4	7.93	14.13	15.22
15:01	500	6000	26.5	7.24	23504	-148.9	0.16	3	7.93	14.18	15.27
15:05	500	8000	26.5	7.23	23390	-151.1	0.17	3	7.93	14.11	15.20
15:09	500	10000	26.5	7.22	23519	-153.8	0.11	3	7.93	14.21	15.28

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-32-035

Date	12/07/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	8.11
Water Quality Meter	YSI	Gallons in Well	18.85
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	37.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	32
Water Column in Well	28.89	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Mw-32-035-eb-q420
Sample Date	12/07/2020	EB Time	14:34
Sample Time	14:19	MS/MSD Sample ID	
Sample ID	MW-32-035-Q420	MS/MSD Sample Time	
Duplicate Sample ID	Mw-32-035-eb-q420	Double Filter Turbidity	
Dup Sample Time	14:29	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/07/2020
Without Filter Turbidity	12		

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)
14:02	500	2000	25.1	7.20	9207	-110.3	0.26	21	8.22	5.15	5.99
14:06	500	4000	25.0	7.14	9248	-134.9	0.25	13	8.22	5.17	6.01
14:10	500	6000	25.0	7.14	9153	-146.5	0.17	12	8.22	5.11	5.94
14:14	500	8000	25.0	7.14	9033	-153.7	0.22	12	8.22	5.03	5.86
14:18	500	10000	24.9	7.15	8912	-158.0	0.17	12	8.22	4.97	5.79

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-35-060

Date	12/08/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	27.96
Water Quality Meter	YSI	Gallons in Well	4.78
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	57.26
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	51
Water Column in Well	29.30	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-714-Q420
Sample Date	12/08/2020	EB Time	14:00
Sample Time	13:07	MS/MSD Sample ID	
Sample ID	MW-35-060-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-913-Q420	Double Filter Turbidity	
Dup Sample Time	13:17	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/08/2020
Without Filter Turbidity	6		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:50	500	2000	26.5	7.63	7454	45.6	0.50	34	28.00	4.09	4.70
12:54	500	4000	27.1	7.60	7329	26.2	0.48	17	28.00	4.01	4.70
12:58	500	6000	27.1	7.60	7280	25.0	0.47	7	28.00	3.97	4.71
13:02	500	8000	27.1	7.60	7210	25.3	0.47	7	28.00	3.94	4.70
13:06	500	10000	27.2	7.60	7189	26.6	0.47	6	28.00	3.91	4.70

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-35-135

Date	12/08/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	27.30
Water Quality Meter	YSI	Gallons in Well	20.74
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	154.42
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	126
Water Column in Well	127.12	Total Volume to Remove	
Sample Date	12/08/2020	EB Sample ID	
Sample Time	12:26	EB Time	
Sample ID	MW-35-135-Q420	MS/MSD Sample ID	
Duplicate Sample ID	MW-914-Q420	MS/MSD Sample Time	
Dup Sample Time	12:36	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	7	Purge Date	12/08/2020

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)
12:11	500	2000	26.9	7.84	11541	25.6	0.54	29	27.40	6.65	7.51
12:13	500	4000	26.9	7.86	11526	21.0	0.49	13	27.40	6.55	7.49
12:17	500	6000	26.9	7.86	11514	18.7	0.46	8	27.40	6.53	7.48
12:21	500	8000	26.9	7.86	11511	17.8	0.44	7	27.40	6.53	7.48
12:25	500	10000	26.9	7.86	11612	17.0	0.44	7	27.40	6.53	7.48

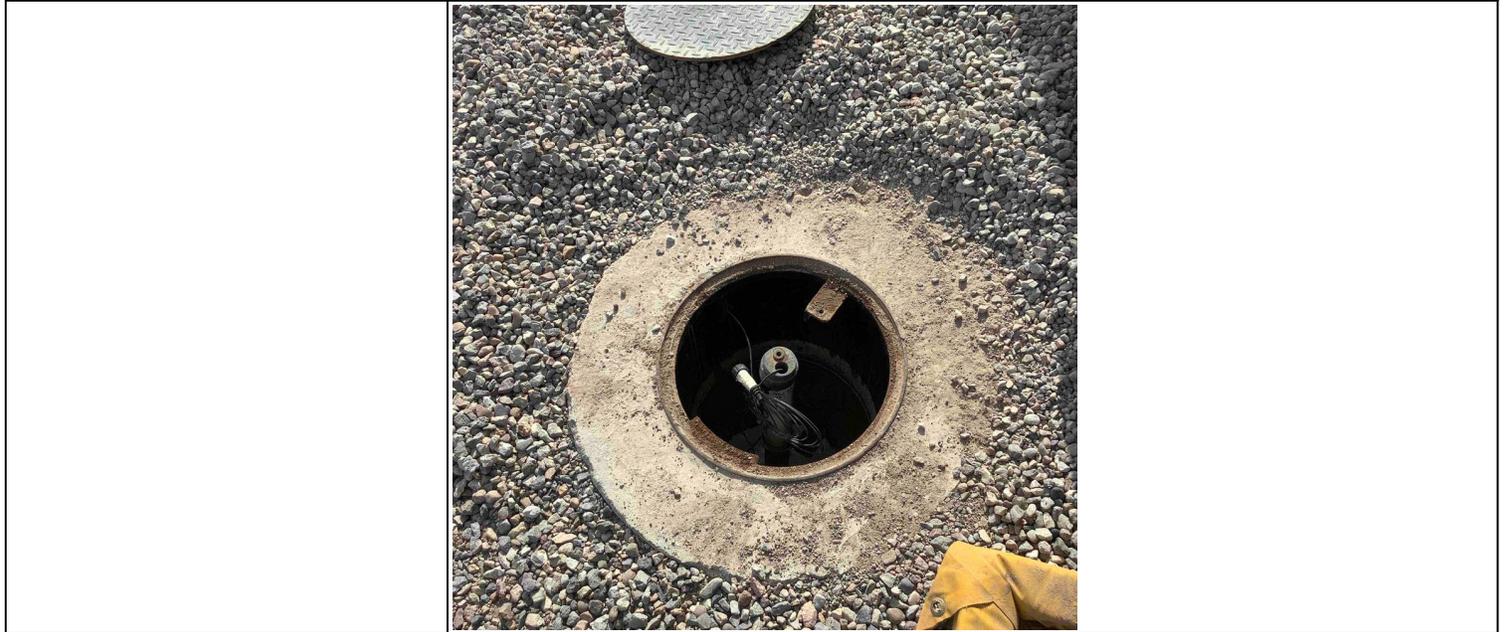
Well Integrity Checklist

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-37D

Date	12/10/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	31.42
Water Quality Meter	YSI	Gallons in Well	31.71
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	225.82
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	190
Water Column in Well	194.40	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	10:25	MS/MSD Sample ID	
Sample ID	MW-37D-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	12/10/2020

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)
10:04	500	2000	28.1	7.77	13093	16.4	1.63	8	31.46	7.42	8.42
10:08	500	4000	28.3	7.83	13039	8.0	1.51	8	31.46	7.50	8.50
10:12	500	6000	28.4	7.87	13083	2.0	1.44	4	31.46	7.49	8.49
10:16	500	8000	28.5	7.88	13079	-3.2	1.42	3	31.46	7.49	8.49
10:20	500	10000	28.6	7.88	13094	-6.1	1.39	2	31.46	7.52	8.52
10:24	500	12000	28.6	7.89	13111	-9.9	1.36	2	31.46	7.52	8.52

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-37S

Date	12/10/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	31.50
Water Quality Meter	YSI	Gallons in Well	9.05
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	86.93
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	74
Water Column in Well	55.44	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	11:06	MS/MSD Sample ID	
Sample ID	MW-37S-Q420	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter	23	Post Sampling Turbidity	
Turbidity		Purge Date	12/10/2020

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)
10:45	500	2000	28.1	7.77	7708	8.6	2.05	29	31.53	4.25	5.03
10:49	500	4000	28.8	7.76	7686	-0.4	1.33	28	31.53	4.22	4.99
10:53	500	6000	29.0	7.74	7666	-7.1	1.22	24	31.53	4.21	4.98
10:57	500	8000	29.0	7.73	7666	-10.2	1.19	23	31.53	4.21	4.99
11:01	500	10000	29.1	7.72	7670	-12.3	1.18	22	31.53	4.21	4.97
11:05	500	12000	29.1	7.73	7650	-13.9	1.19	23	31.53	4.20	4.97

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-40D

Date	12/10/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	110.91
Water Quality Meter	YSI	Gallons in Well	24.32
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	260
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	250
Water Column in Well	149.09	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	10:28	MS/MSD Sample ID	
Sample ID	MW-40D-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	12/10/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:11	500	2000	29.6	7.50	15585	18.9	0.20	27	110.99	9.04	10.12
10:15	500	4000	29.8	7.53	15597	26.9	0.16	15	110.99	9.03	10.14
10:19	500	6000	29.8	7.54	15609	30.4	0.14	8	110.99	9.03	10.15
10:23	500	8000	29.8	7.54	15610	32.8	0.13	7	110.99	9.04	10.15
10:27	500	10000	29.8	7.54	15613	33.9	0.11	7	110.99	9.04	10.15

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-40S

Date	12/10/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	110.38
Water Quality Meter	YSI	Gallons in Well	3.78
Sampling Type	Hydrasleeve	Measured Well Depth (ft bmp)	133.51
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	125
Water Column in Well	23.13	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/10/2020	EB Time	
Sample Time	09:30	MS/MSD Sample ID	
Sample ID	MW-40S-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	1
Without Filter Turbidity	25	Post Sampling Turbidity	
		Purge Date	12/10/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:30			22.6	7.63	3846	131.9	3.53	24	110.38	2.03	2.50

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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			

Photos and Drawings

Site: PGE Topock
Topock, CA



Site: PGE Topock
Topock, CA

MW-43-025

Date	12/08/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	9.39
Water Quality Meter	YSI	Gallons in Well	2.87
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	26.94
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	20
Water Column in Well	17.55	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Mw-43-025-eb-q420
Sample Date	12/08/2020	EB Time	13:58
Sample Time	14:22	MS/MSD Sample ID	
Sample ID	MW-43-025-Q420	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter Turbidity	15	Post Sampling Turbidity	
		Purge Date	12/08/2020

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)
14:05	500	2000	22.3	7.61	1930	-125.7	0.26	36	9.44	0.99	1.26
14:09	500	4000	22.3	7.58	1939	-133.4	0.21	28	9.44	0.99	1.26
14:13	500	6000	22.3	7.56	1935	-140.8	0.17	16	9.44	0.99	1.25
14:17	500	8000	22.3	7.54	1937	-150.8	0.16	15	9.44	0.99	1.26
14:21	500	10000	22.3	7.52	1939	-156.0	0.15	15	9.44	0.99	1.26

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-43-075

Date	12/08/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	9.60
Water Quality Meter	YSI	Gallons in Well	11.07
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	77.41
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	70
Water Column in Well	67.81	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Mw-43-075-eb-q420
Sample Date	12/08/2020	EB Time	13:20
Sample Time	13:45	MS/MSD Sample ID	
Sample ID	MW-43-075-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	12/08/2020

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)
13:28	500	2000	21.5	7.48	9899	-50.8	0.44	4	9.66	5.58	6.42
13:32	500	4000	21.7	7.48	9808	-119.9	0.29	2.50	9.68	5.55	6.4025
13:36	500	6000	21.7	7.49	9970	-133.8	0.26	2.40	9.69	5.64	6.5
13:40	500	8000	21.7	7.50	10179	-140.6	0.24	2.65	9.69	5.79	6.8250
13:44	500	10000	21.6	7.50	10484	-144.0	0.24	2.68	9.69	5.95	6.6755

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

MW-43-090

Date	12/08/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	9.78
Water Quality Meter	YSI	Gallons in Well	15.16
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	102.69
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	85
Water Column in Well	92.91	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Mw-43-090-eb-q420
Sample Date	12/08/2020	EB Time	12:42
Sample Time	13:13	MS/MSD Sample ID	
Sample ID	MW-43-090-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	12/08/2020

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)
12:56	500	2000	22.0	7.74	16957	-26.8	0.83	20	9.86	9.98	11.01
13:00	500	4000	22.1	7.70	17032	-31.2	0.62	11	9.86	10.04	11.08
13:04	500	6000	22.2	7.65	17366	-36.0	0.56	8	9.86	10.26	11.30
13:08	500	8000	21.9	7.61	17780	-41.4	0.45	8	9.86	10.53	11.57
13:12	500	10000	22.0	7.59	17898	-46.3	0.31	8	9.86	10.66	11.64

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-50-095

Date	12/07/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	42.22
Water Quality Meter	YSI	Gallons in Well	8.82
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	96.28
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	90
Water Column in Well	54.06	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/07/2020	EB Time	
Sample Time	14:10	MS/MSD Sample ID	
Sample ID	MW-50-095-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	12/07/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
13:53	500	2000	28.1	7.94	5946	84.9	0.36	41	42.28	3.25	3.93
13:57	500	4000	28.1	7.90	6269	80.6	0.43	19	42.28	3.48	4.16
14:01	500	6000	28.1	7.88	6436	76.8	0.45	9	42.28	3.49	4.17
14:05	500	8000	28.2	7.87	6456	75.8	0.46	8	42.29	3.49	4.17
14:09	500	10000	28.2	7.87	6470	74.0	0.48	8	42.28	3.49	4.17

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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-50-200

Date	12/07/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	42.68
Water Quality Meter	YSI	Gallons in Well	25.66
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	200.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	195
Water Column in Well	157.32	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-711-Q420
Sample Date	12/07/2020	EB Time	15:30
Sample Time	14:48	MS/MSD Sample ID	
Sample ID	MW-50-200-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-915-Q420	Double Filter Turbidity	
Dup Sample Time	14:58	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/07/2020
Without Filter Turbidity	8		

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:31	500	2000	28.9	7.77	20786	84.9	0.50	44	42.76	12.49	13.53
14:35	500	4000	28.9	7.80	20857	82.5	0.46	21	42.76	12.41	13.54
14:39	500	6000	28.9	7.81	20832	79.5	0.43	9	42.76	12.41	13.56
14:43	500	8000	28.9	7.81	20827	77.0	0.42	8	42.76	12.40	13.56
14:47	500	10000	28.9	7.81	20821	76.5	0.40	8	42.76	12.40	13.56

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-52D

Date	12/08/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	11.99
Water Quality Meter	YSI	Gallons in Well	3.06
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	87.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	86
Water Column in Well	75.01	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	09:43	MS/MSD Sample ID	
Sample ID	MW-52D-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	1	Post Sampling Turbidity	
		Purge Date	12/08/2020

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)
09:22	200	1000	20.0	7.09	21796	-52.6	1.08	2	12.04	13.11	14.13
09:27	200	2000	19.6	7.19	21772	-73.6	1.14	1	12.04	13.14	14.18
09:32	200	3000	19.7	7.28	21774	-85.9	1.21	1	12.04	13.14	14.14
09:37	200	4000	19.7	7.38	21783	-94.4	1.07	1	12.04	13.16	14.15
09:42	200	5000	19.8	7.45	21823	-100.7	1.09	1	12.04	13.16	14.11

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-52M

Date	12/08/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	11.31
Water Quality Meter	YSI	Gallons in Well	2.32
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	68.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	67
Water Column in Well	56.69	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	09:02	MS/MSD Sample ID	
Sample ID	MW-52M-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	12/08/2020

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)
08:41	200	1000	19.5	7.00	16689	-82.9	0.90	5	11.37	9.74	10.84
08:46	200	2000	19.4	7.22	16296	-95.1	0.72	4	11.38	9.81	10.81
08:51	200	3000	19.4	7.37	16382	-105.3	0.66	3	11.39	9.79	10.81
08:56	200	4000	19.4	7.41	16446	-107.3	0.60	3	11.39	9.73	10.81
09:01	500	5000	19.4	7.45	16513	-110.5	0.63	3	11.39	9.61	10.80

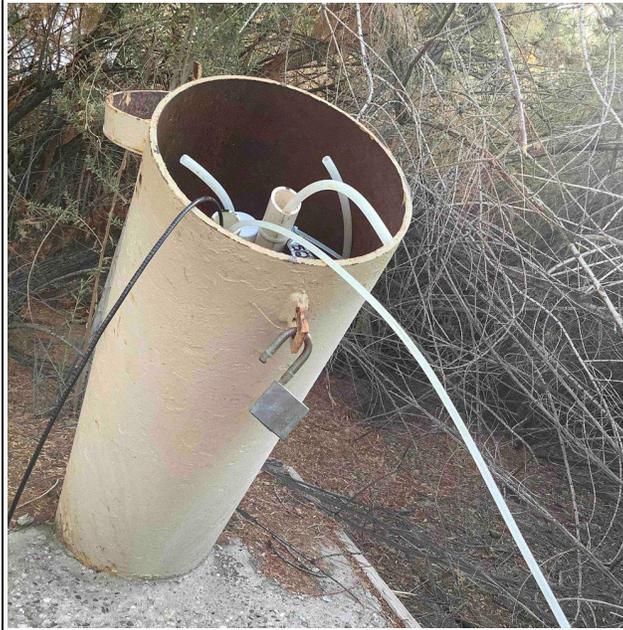
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-52S

Date	12/08/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	brown
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	11.99
Water Quality Meter	YSI	Gallons in Well	1.55
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	50.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	48
Water Column in Well	38.01	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	11:25	MS/MSD Sample ID	
Sample ID	MW-52S-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	12/08/2020

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)
11:08	300	1200	21.6	7.08	16519	-74.3	0.52	3	12.10	9.88	10.89
11:12	300	2400	21.7	7.11	16663	-80.8	0.48	3	12.10	9.88	10.89
11:16	300	3600	21.8	7.13	16717	-83.6	0.44	3	12.10	9.88	10.89
11:20	300	4800	22.0	7.16	16789	-91.9	0.40	3	12.10	9.88	10.89
11:24	300	6000	22.0	7.20	17202	-96.6	0.38	3	12.10	9.88	10.89

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-53D

Date	12/08/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	10.50
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	125.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	124
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/08/2020	EB Sample ID	
Sample Time	10:32	EB Time	
Sample ID	MW-53D-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	1	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/08/2020

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)
10:15	500	2000	19.7	7.68	26689	-80.5	0.47	1	17.16	16.39	17.34
10:19	500	4000	19.6	7.74	26692	-83.1	0.49	1	17.16	16.39	17.35
10:23	500	6000	19.6	7.77	26699	-96.5	0.49	1	17.16	16.40	17.35
10:27	500	8000	19.6	7.83	26707	-101.3	0.45	1	17.16	16.41	17.36
10:31	500	10000	19.5	7.85	26703	-107.3	0.39	1	17.16	16.40	17.35

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

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-53M

Date	12/08/2020	Sampler	Reggie
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	16.50
Water Quality Meter	YSI	Gallons in Well	3.41
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	100.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	98
Water Column in Well	83.50	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/08/2020	EB Time	
Sample Time	12:16	MS/MSD Sample ID	
Sample ID	MW-53M-Q420	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	12/08/2020

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)
11:50	500	2500	19.6	7.82	12262	-51.7	0.70	27	16.60	8.63	9.6460
11:55	500	5000	19.5	7.81	15583	-71.1	0.51	16	16.60	9.46	10.6080
12:00	500	7500	19.5	7.85	16596	-83.9	0.38	15	16.60	9.90	10.9525
12:05	500	10000	19.4	7.86	18948	-105.9	0.32	6	16.60	10.68	11.7455
12:10	500	12500	19.4	7.96	19436	-107.2	0.25	6	16.60	11.56	12.5320
12:15	500	15000	19.4	7.98	19884	-107.2	0.23	6	16.60	11.56	12.53

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?			X	
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-54-085

Date	12/09/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	12.15
Water Quality Meter	YSI	Gallons in Well	12.21
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	87.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	82
Water Column in Well	74.85	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-54-085-EB-Q420
Sample Date	12/09/2020	EB Time	08:40
Sample Time	09:06	MS/MSD Sample ID	
Sample ID	MW-54-085-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	12/09/2020

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)
08:49	500	2000	26.9	7.82	9199	-17.8	0.21	6	12.20	5.31	6.21
08:53	500	4000	27.0	7.78	9645	-27.8	0.17	4	12.20	5.50	6.38
08:57	500	6000	27.0	7.76	9857	-31.9	0.16	2	12.20	5.53	6.42
09:01	500	8000	27.1	7.76	9908	-33.4	0.15	2	12.20	5.57	6.45
09:05	500	10000	27.1	7.75	9914	-35.4	0.14	2	12.20	5.56	6.44

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-54-140

Date	12/09/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	11.75
Water Quality Meter	YSI	Gallons in Well	20.92
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	140.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	133
Water Column in Well	128.25	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-54-140-EB-Q420
Sample Date	12/09/2020	EB Time	07:50
Sample Time	08:22	MS/MSD Sample ID	
Sample ID	MW-54-140-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/09/2020

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)
08:05	500	2000	25.8	7.82	12805	-72.9	0.49	26	12.80	7.39	8.39
08:09	500	4000	26.1	7.96	12957	-79.8	0.22	10	12.80	7.44	8.44
08:13	500	6000	26.4	7.99	12987	-82.7	0.19	6	12.80	7.44	8.43
08:17	500	8000	26.4	7.98	12970	-86.7	0.17	5	12.80	7.43	8.43
08:21	500	10000	26.4	7.98	12951	-87.9	0.16	5	12.80	7.42	8.41

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			
Well Casing Intact?	X			
Photo Taken?	X			

Photos and Drawings

Site: PGE Topock
Topock, CA



Site: PGE Topock
Topock, CA

MW-54-195

Date	12/09/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	12.59
Water Quality Meter	YSI	Gallons in Well	29.76
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	195.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	190.00
Water Column in Well	182.41	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-54-195-EB-Q420
Sample Date	12/09/2020	EB Time	07:00
Sample Time	07:36	MS/MSD Sample ID	
Sample ID	MW-54-195-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	1	Post Sampling Turbidity	
		Purge Date	12/09/2020

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)
07:19	500	2000	25.5	8.25	19244	-175.0	0.27	2	12.59	11.41	12.50
07:23	500	4000	25.6	8.27	19235	-181.3	0.26	1	12.59	11.39	12.50
07:27	500	6000	25.6	8.29	19252	-187.5	0.25	1	12.59	11.41	12.49
07:31	500	8000	25.6	8.31	19270	-192.5	0.25	1	12.59	11.40	12.50
07:35	500	10000	25.6	8.30	19249	-190.2	0.24	1	12.59	11.40	12.50

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-55-045

Date	12/09/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	10.32
Water Quality Meter	YSI	Gallons in Well	6.39
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	49.45
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	42
Water Column in Well	39.13	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Mw-55-045-eb-q420
Sample Date	12/09/2020	EB Time	08:55
Sample Time	09:23	MS/MSD Sample ID	
Sample ID	MW-55-045-Q420	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	28	Post Sampling Turbidity	
		Purge Date	12/09/2020

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)
09:02	500	2000	26.9	8.10	1370	-45.9	0.25	109	10.38	0.68	0.89
09:06	500	4000	27.3	8.03	1363	-51.7	0.17	55	10.39	0.68	0.88
09:10	500	6000	27.3	8.00	1364	-57.4	0.14	30	10.40	0.68	0.88
09:14	500	8000	27.5	7.98	1366	-61.4	0.12	28	10.40	0.68	0.88
09:18	500	10000	27.6	7.95	1367	-65.7	0.11	28	10.40	0.68	0.89
09:22	500	12000	27.8	7.94	1366	-67.0	0.10	28	10.40	0.68	0.89

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-55-120

Date	12/09/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	10.23
Water Quality Meter	YSI	Gallons in Well	17.98
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	120.46
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	113
Water Column in Well	110.23	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/09/2020	EB Time	
Sample Time	08:42	MS/MSD Sample ID	
Sample ID	MW-55-120-Q420	MS/MSD Sample Time	
		Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/09/2020

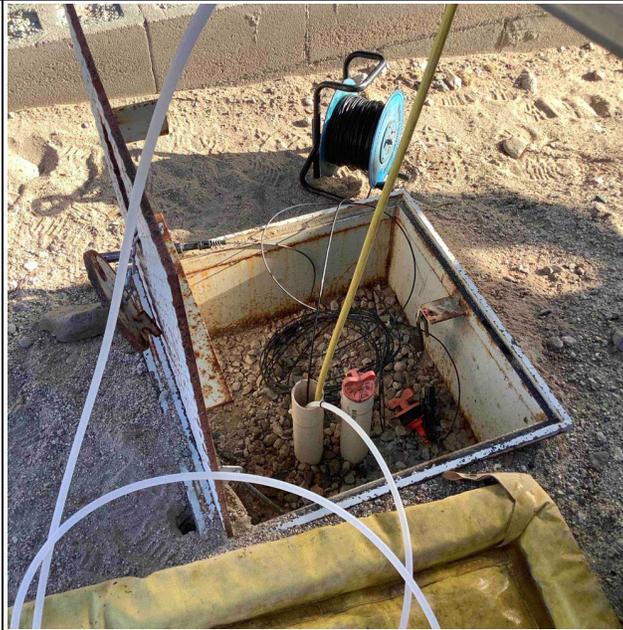
Field Parameters

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)
08:25	500	2000	26.4	8.24	7203	-19.1	1.99	17	10.30	3.94	4.68
08:29	500	4000	26.7	8.24	7421	-21.7	1.68	11	10.33	4.07	4.82
08:33	500	6000	27.1	8.25	7505	-25.1	1.58	9	10.36	4.12	4.88
08:37	500	8000	27.1	8.25	7490	-33.0	1.50	9	10.38	4.11	4.85
08:41	500	10000	27.2	8.25	7474	-34.6	1.48	9	10.39	4.10	4.85

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	

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-56D

Date	12/09/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	11.09
Water Quality Meter	YSI	Gallons in Well	3.88
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	106.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	104.5
Water Column in Well	94.91	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/09/2020	EB Time	
Sample Time	11:11	MS/MSD Sample ID	
Sample ID	MW-56D-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	12/09/2020

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)
10:54	200	800	23.9	7.30	22115	-42.7	4.67	5	11.14	13.35	14.41
10:58	200	1600	23.3	7.21	22280	-48.0	4.81	5	11.14	13.48	14.51
11:02	200	2400	23.1	7.19	22388	-44.4	5.08	5	11.14	13.28	14.55
11:06	200	3200	22.7	7.20	22554	-40.8	5.31	5	11.14	13.55	14.56
11:10	200	4000	22.6	7.23	22608	-38.4	5.61	5	11.14	13.66	14.70

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

MW-56M

Date	12/09/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	16.00
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	74.5
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/09/2020	EB Sample ID	
Sample Time	10:29	EB Time	
Sample ID	MW-56M-Q420	MS/MSD Sample ID	
Duplicate Sample ID	Mw-924-q420	MS/MSD Sample Time	
Dup Sample Time	10:39	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	3	Purge Date	12/09/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cumulative Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:12	200	800	23.7	7.26	13930	6.3	5.04	3	11.20	7.94	8.93
10:16	200	1600	23.5	7.27	14082	7.0	6.39	3	11.20	7.93	8.91
10:20	200	2400	23.3	7.28	14172	7.6	6.75	3	11.20	7.97	8.89
10:24	200	3200	23.3	7.28	14448	8.0	6.85	3	11.20	8.44	9.24
10:28	200	4000	23.2	7.30	14860	8.5	6.89	3	11.20	8.66	9.89

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-56S

Date	12/09/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	11.02
Water Quality Meter	YSI	Gallons in Well	1.02
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	36.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	34.5
Water Column in Well	24.98	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/09/2020	EB Time	
Sample Time	11:41	MS/MSD Sample ID	
Sample ID	MW-56S-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	1	Post Sampling Turbidity	
		Purge Date	12/09/2020

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)
11:24	200	800	22.8	7.32	6303	-87.0	1.22	1	11.08	3.43	4.08
11:28	200	1600	23.2	7.27	6210	-95.8	1.16	1	11.08	3.38	4.03
11:32	200	2400	23.5	7.25	6222	-101.4	1.04	1	11.08	3.39	4.04
11:36	200	3200	23.5	7.24	6228	-103.8	0.96	1	11.08	3.39	4.04
11:40	200	4000	23.5	7.23	6230	-105.1	0.90	1	11.08	3.39	4.04

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-59-100

Date	12/08/2020	Sampler	Jb
Weather Conditions	Sunny	Color	yellow
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	85.76
Water Quality Meter	YSI	Gallons in Well	2.33
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	100.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	95
Water Column in Well	14.24	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-716-Q420
Sample Date	12/08/2020	EB Time	15:20
Sample Time	14:50	MS/MSD Sample ID	
Sample ID	MW-59-100-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-917-Q420	Double Filter Turbidity	
Dup Sample Time	15:00	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/08/2020
Without Filter Turbidity	5		

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)
14:33	500	2000	29.9	6.91	10530	115.4	3.59	10	85.80	5.90	6.83
14:37	500	4000	29.9	6.96	10399	109.9	3.59	5	85.80	5.90	6.83
14:41	500	6000	30.0	6.99	10217	107.3	3.71	5	85.80	5.90	6.83
14:45	500	8000	29.9	7.02	10205	105.8	3.68	5	85.80	5.90	6.83
14:49	500	10000	30.0	7.03	10243	103.3	3.65	5	85.89	5.90	6.83

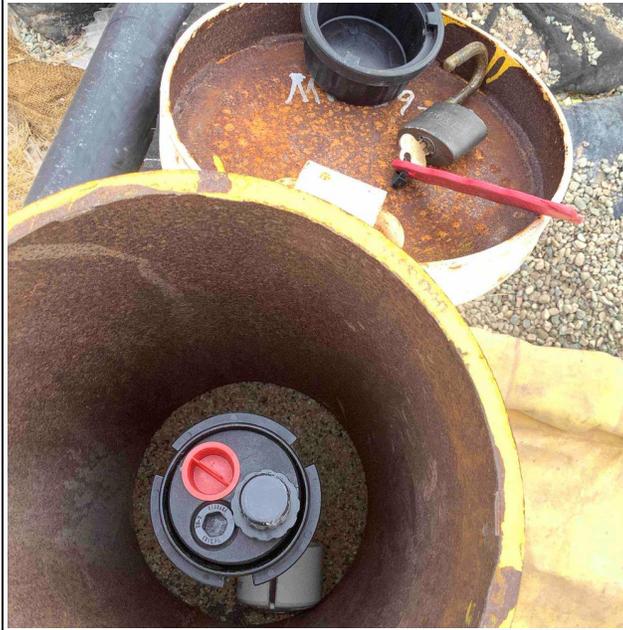
Well Integrity Checklist

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	

**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

MW-63-065

Date	12/07/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	50.78
Water Quality Meter	YSI	Gallons in Well	2.05
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	63.30
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	58
Water Column in Well	12.52	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/07/2020	EB Time	
Sample Time	13:20	MS/MSD Sample ID	
Sample ID	MW-63-065-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	12/07/2020

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)
13:03	500	2000	26.3	7.39	7262	52.7	0.11	51	50.78	3.99	4.72
13:07	500	4000	26.6	7.41	7251	55.8	0.34	17	50.79	3.97	4.71
13:11	500	6000	26.8	7.42	7251	56.0	0.35	8	50.79	3.97	4.71
13:15	500	8000	26.8	7.42	7255	56.9	0.35	7	50.79	3.97	4.71
13:19	500	10000	26.8	7.42	7256	57.0	0.38	7	50.79	3.97	4.71

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings



Site: PGE Topock
Topock, CA

PGE-08

Date	12/09/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Extraction Port	Casing Volume to Remove	3
Purge Volume Units	gal	Depth to Water (ft bmp)	142.97
Water Quality Meter	YSI	Gallons in Well	615.12
Sampling Type	Volume Purge – Grundfos RF2	Measured Well Depth (ft bmp)	562.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	6	Pump Intake Depth (ft bmp)	
Water Column in Well	419.03	Total Volume to Remove	1,845.37
Comments	Dedicated QED	EB Sample ID	
Did Well Dewater?	No	EB Time	
Sample Date	12/09/2020	MS/MSD Sample ID	
Sample Time	16:04	MS/MSD Sample Time	
Sample ID	PGE-08-Q420	Double Filter Turbidity	
Single Filter Turbidity	1	Post Sampling Turbidity	
Without Filter Turbidity	2	Purge Date	12/09/2020

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)
12:33	8	240	27.4	8.67	20325	-195.9	0.89	8	202.36	12.09	13.20
13:03	8	480	27.4	8.56	19433	-175.9	0.21	5	202.43	11.50	12.61
13:33	8	720	28.5	8.38	19811	-126.8	0.35	4	202.50	11.75	12.88
14:03	8	960	28.9	7.98	20025	-56.0	0.18	2	202.53	11.92	13.04
14:33	8	1200	29.0	7.93	20051	-41.9	0.22	2	202.60	11.93	13.05
15:03	8	1440	29.0	7.89	20110	-38.3	0.23	2	202.65	11.93	13.05
15:33	8	1680	29.1	7.86	20123	-36.9	0.25	2	202.66	11.93	13.05
16:03	8	1920	29.1	7.86	20145	-35.3	0.26	2	202.70	11.93	13.05

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	

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

Photos and Drawings



Site: PGE Topock
Topock, CA

TW-05

Date	12/07/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	42.16
Water Quality Meter	YSI	Gallons in Well	70.36
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	150.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	130
Water Column in Well	107.84	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/07/2020	EB Time	
Sample Time	12:28	MS/MSD Sample ID	
Sample ID	TW-05-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/07/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
12:11	500	2000	28.3	7.79	16539	89.0	0.30	37	42.21	9.65	10.74
12:15	500	4000	28.5	7.81	16522	85.8	0.35	13	42.21	9.63	10.74
12:19	500	6000	28.4	7.79	16524	86.7	0.28	7	42.21	9.63	10.75
12:23	500	8000	28.5	7.78	16520	85.8	0.26	6	42.21	9.63	10.75
12:27	500	10000	28.5	7.78	16520	84.7	0.26	6	42.21	9.63	10.75

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-39-040

Date	12/11/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	14.82
Water Quality Meter	YSI	Gallons in Well	0.98
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	38.82
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	35
Water Column in Well	24.00	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/11/2020	EB Time	
Sample Time	10:30	MS/MSD Sample ID	
Sample ID	MW-39-040-Q420	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	1
Without Filter Turbidity	36	Post Sampling Turbidity	
		Purge Date	12/11/2020

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)
10:09	500	2000	20.6	8.35	1118	-175.9	0.23	145	14.90	0.55	0.72
10:13	500	4000	20.6	8.17	1116	-157.9	0.15	63	14.90	0.56	0.72
10:17	500	6000	20.6	8.13	1117	-180.5	0.13	45	14.90	0.56	0.72
10:21	500	8000	20.6	8.12	1120	-182.7	0.13	38	14.90	0.56	0.72
10:25	500	10000	20.6	8.12	1115	-186.0	0.11	36	14.90	0.56	0.72
10:29	500	12000	20.6	8.11	1120	-187.9	0.11	36	14.90	0.56	0.72

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-39-050

Date	12/11/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	14.71
Water Quality Meter	YSI	Gallons in Well	1.62
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	54.41
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	49
Water Column in Well	39.70	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/11/2020	EB Time	
Sample Time	09:16	MS/MSD Sample ID	
Sample ID	MW-39-050-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/11/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:59	500	2000	20.4	7.92	1018	17.4	0.29	15	14.80	0.50	0.66
09:03	500	4000	20.5	7.90	1014	11.9	0.26	9	14.80	0.50	0.66
09:07	500	6000	20.5	7.90	1014	6.8	0.25	6	14.80	0.50	0.66
09:11	500	8000	20.5	7.88	1012	7.0	0.22	5	14.80	0.50	0.66
09:15	500	10000	20.5	7.88	1012	7.5	0.21	5	14.80	0.50	0.66

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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-39-060

Date	12/11/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	14.91
Water Quality Meter	YSI	Gallons in Well	2.02
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	64.35
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	54
Water Column in Well	49.44	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/11/2020	EB Time	
Sample Time	08:04	MS/MSD Sample ID	
Sample ID	MW-39-060-Q420	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	1
Without Filter Turbidity	39	Post Sampling Turbidity	
		Purge Date	12/11/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
07:39	500	2000	20.2	7.95	1058	28.9	0.55	122	14.98	0.52	0.68
07:43	500	4000	20.4	7.94	1060	26.7	0.52	89	14.98	0.52	0.68
07:47	500	6000	20.4	7.90	1065	25.8	0.49	57	14.98	0.52	0.68
07:51	500	8000	20.4	7.88	1068	24.7	0.47	44	14.98	0.52	0.68
07:55	500	10000	20.3	7.86	1071	22.9	0.46	41	14.98	0.52	0.68
07:59	500	12000	20.3	7.86	1072	21.7	0.46	39	14.98	0.52	0.68
08:03	500	14000	20.3	7.86	10.71	20.9	0.45	39	14.98	0.52	0.68

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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

MW-39-070

Date	12/11/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	15.55
Water Quality Meter	YSI	Gallons in Well	2.29
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	71.54
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	65.00
Water Column in Well	56.00	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/11/2020	EB Time	
Sample Time	09:55	MS/MSD Sample ID	
Sample ID	MW-39-070-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	12/11/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:38	500	2000	20.3	7.87	2087	56.8	0.23	18	15.60	1.07	1.36
09:42	500	4000	20.4	7.86	2088	49.7	0.20	9	15.60	1.07	1.36
09:46	500	6000	20.3	7.86	2092	48.6	0.20	6	15.60	1.07	1.36
09:50	500	8000	20.4	7.86	2089	47.6	0.20	5	15.60	1.07	1.36
09:54	500	10000	20.3	7.86	2093	46.9	0.19	5	15.60	1.07	1.36

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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-39-080

Date	12/11/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	15.40
Water Quality Meter	YSI	Gallons in Well	2.73
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	82.35
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	75
Water Column in Well	66.95	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/11/2020	EB Time	
Sample Time	08:42	MS/MSD Sample ID	
Sample ID	MW-39-080-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	12/11/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:25	500	2000	20.7	7.82	4398	-102.7	0.35	11	15.45	2.01	2.54
08:29	500	4000	20.4	7.79	4990	-89.0	0.31	6	15.45	2.72	3.28
08:33	500	6000	20.3	7.72	5322	-58.9	0.28	4	15.45	2.89	3.48
08:37	500	8000	20.3	7.72	5418	-54.9	0.26	3	15.45	2.95	3.54
08:41	500	10000	20.3	7.72	5486	-52.8	0.25	3	15.45	2.97	3.56

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-44-070

Date	12/11/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	18.60
Water Quality Meter	YSI	Gallons in Well	8.66
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	71.66
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	66
Water Column in Well	53.06	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-720-q420
Sample Date	12/11/2020	EB Time	09:46
Sample Time	09:36	MS/MSD Sample ID	
Sample ID	MW-44-070-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	12/11/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:15	500	2000	20.0	7.71	1858	-23.6	0.19	51	18.64	0.94	1.20
09:19	500	4000	19.9	7.68	1731	-28.9	0.16	17	18.64	0.88	1.13
09:23	500	6000	19.9	7.67	1740	-34.6	0.15	10	18.64	0.88	1.12
09:27	500	8000	19.9	7.68	1744	-38.5	0.14	8	18.64	0.88	1.13
09:31	500	10000	20.0	7.67	1742	-42.3	0.12	8	18.64	0.89	1.13
09:35	500	12000	20.0	7.66	1765	-45.9	0.11	8	18.64	0.91	1.15

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-44-115

Date	12/11/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	19.16
Water Quality Meter	YSI	Gallons in Well	15.80
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	115.97
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	110
Water Column in Well	96.81	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/11/2020	EB Time	
Sample Time	08:52	MS/MSD Sample ID	
Sample ID	MW-44-115-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	1	Post Sampling Turbidity	
		Purge Date	12/11/2020

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)
08:31	500	2000	19.8	7.87	11436	-31.6	0.23	2	19.18	8.53	7.42
08:35	500	4000	19.9	7.89	11393	-34.9	0.19	2	19.18	6.51	7.40
08:39	500	6000	20.0	7.89	11253	-38.7	0.16	1	19.18	6.42	7.31
08:43	500	8000	20.0	7.88	11130	-42.4	0.14	1	19.18	6.34	7.22
08:47	500	10000	20.1	7.87	10984	-44.9	0.12	1	19.18	6.25	7.13
08:51	500	12000	20.1	7.86	10918	-46.3	0.11	1	19.18	6.21	7.09

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-44-125

Date	12/11/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	18.82
Water Quality Meter	YSI	Gallons in Well	17.32
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	125.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	120.5
Water Column in Well	106.18	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/11/2020	EB Time	
Sample Time	08:12	MS/MSD Sample ID	
Sample ID	MW-44-125-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	12/11/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
07:51	500	2000	19.4	7.92	1697	-18.5	0.41	14	18.86	0.87	1.11
07:55	500	4000	20.0	7.84	1716	-19.8	0.33	11	18.86	0.88	1.12
07:59	500	6000	20.0	7.75	1718	-21.3	0.29	6	18.86	0.87	1.11
08:03	500	8000	20.1	7.76	1669	-24.4	0.27	6	18.86	0.84	1.07
08:07	500	10000	20.0	7.74	1679	-27.0	0.26	6	18.86	0.85	1.09
08:11	500	12000	20.1	7.73	1686	-30.3	0.25	6	18.86	0.86	1.09

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

OW-03D

Date	12/11/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	102.40
Water Quality Meter	YSI	Gallons in Well	27.98
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	273.91
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	262
Water Column in Well	171.52	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/11/2020	EB Time	
Sample Time	08:07	MS/MSD Sample ID	
Sample ID	OW-03D-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/11/2020

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)
07:50	500	2000	28.6	8.23	10190	21.0	0.75	9	102.45	5.74	6.67
07:54	500	4000	28.7	8.25	10312	20.3	0.71	5	102.45	5.74	6.67
07:58	500	6000	28.7	8.25	10322	19.8	0.69	5	102.45	5.74	6.67
08:02	500	8000	28.7	8.27	10355	19.0	0.68	5	102.45	5.74	6.67
08:06	500	10000	28.7	8.28	10379	18.4	0.67	5	102.45	5.74	6.67

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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-03M

Date	12/11/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	102.67
Water Quality Meter	YSI	Gallons in Well	16.52
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	203.95
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	190
Water Column in Well	101.28	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/11/2020	EB Time	
Sample Time	08:46	MS/MSD Sample ID	
Sample ID	OW-03M-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	4	Post Sampling Turbidity	
		Purge Date	12/11/2020

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)
08:29	500	2000	29.0	8.37	6588	25.1	0.86	8	102.72	3.59	4.29
08:33	500	4000	29.0	8.38	6635	24.4	0.83	4	102.72	3.59	4.29
08:37	500	6000	29.2	8.37	6603	24.1	0.81	4	102.72	3.59	4.29
08:41	500	8000	29.3	8.37	6589	23.1	0.78	4	102.72	3.59	4.29
08:45	500	10000	29.3	8.38	6606	22.3	0.77	4	102.72	3.59	4.29

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

OW-03S

Date	12/11/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	102.64
Water Quality Meter	YSI	Gallons in Well	2.85
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	120.10
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	106.00
Water Column in Well	17.46	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-721-Q420
Sample Date	12/11/2020	EB Time	10:30
Sample Time	10:11	MS/MSD Sample ID	
Sample ID	OW-03S-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/11/2020

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)
09:54	500	2000	29.9	6.40	1466	150.00	3.87	11	102.69	0.73	0.94
09:58	500	4000	29.8	6.47	1468	145.2	3.86	6	102.69	0.73	0.94
10:02	500	6000	30.0	6.55	1460	141.2	3.86	6	102.69	0.73	0.94
10:06	500	8000	30.0	6.60	1464	138.2	3.86	6	102.69	0.73	0.94
10:10	500	10000	29.9	6.67	1464	133.7	3.82	6	102.69	0.73	0.94

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-87-192

Date	12/17/2020	Sampler	Jb
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	91.55
Water Quality Meter	YSI	Gallons in Well	16.58
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	193.15
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	182.00
Water Column in Well	101.61	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-727-Q420
Sample Date	12/17/2020	EB Time	11:30
Sample Time	10:57	MS/MSD Sample ID	
Sample ID	MW-87-192-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/17/2020

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	29.5	8.09	9120	4.9	1.24	9	91.59	5.06	5.91
10:44	500	4000	29.6	8.09	9099	5.3	1.22	5	91.59	5.06	5.90
10:48	500	6000	29.6	8.08	9072	5.7	1.23	5	91.59	5.06	5.90
10:52	500	8000	29.6	8.08	9106	6.1	1.23	5	91.59	5.06	5.90
10:56	500	10000	29.5	8.08	9068	6.4	1.22	5	91.59	5.06	5.90

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-87-275

Date	12/17/2020	Sampler	Jb
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	91.32
Water Quality Meter	YSI	Gallons in Well	30.16
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	276.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	265.00
Water Column in Well	184.88	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/17/2020	EB Time	
Sample Time	10:06	MS/MSD Sample ID	
Sample ID	MW-87-275-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	6	Post Sampling Turbidity	
Turbidity		Purge Date	12/17/2020

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)
09:45	500	2000	29.5	7.80	11176	90.1	1.45	12	91.36	6.30	7.26
09:49	500	4000	29.5	7.79	11174	90.3	1.41	6	91.36	6.30	7.26
09:53	500	6000	29.5	7.79	11170	91.1	1.37	6	91.36	6.30	7.27
10:01	500	8000	29.5	7.78	11169	92.3	1.34	6	91.36	6.30	7.26
10:05	500	10000	29.5	7.78	11167	92.9	1.31	6	91.36	6.30	7.26

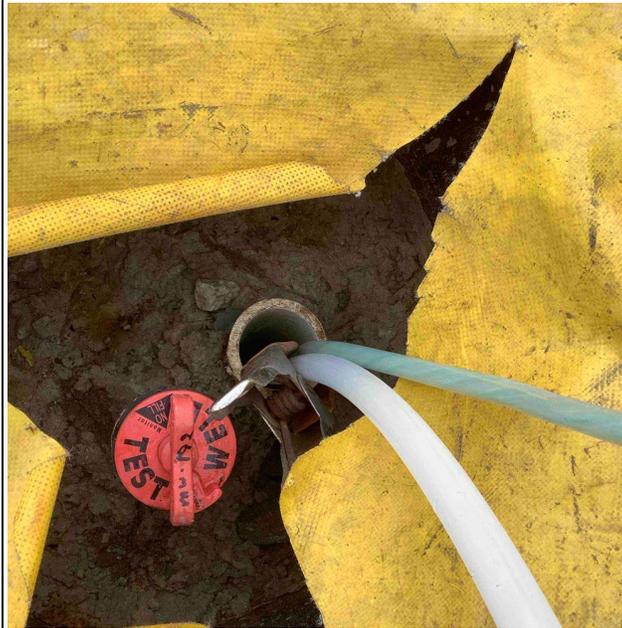
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-87-109

Date	12/17/2020	Sampler	Nara Tep
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	91.34
Water Quality Meter	YSI	Gallons in Well	3.13
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	110.53
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	101
Water Column in Well	19.19	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/17/2020	EB Time	
Sample Time	09:26	MS/MSD Sample ID	
Sample ID	MW-87-109-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	12/17/2020

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)
09:09	300	1200	24.6	7.83	2571	169.0	4.99	35	91.40	1.32	1.67
09:13	300	2400	24.7	7.83	2557	174.0	4.78	21	91.40	1.32	1.65
09:17	300	3600	24.7	7.81	2548	173.1	4.65	10	91.40	1.32	1.65
09:21	300	4800	24.7	7.81	2542	172.6	4.61	9	91.40	1.32	1.65
09:25	300	6000	24.7	7.80	2541	170.5	4.58	9	91.40	1.32	1.65

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-87-139

Date	12/17/2020	Sampler	Nara Tep
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	91.30
Water Quality Meter	YSI	Gallons in Well	8.08
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	140.82
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	135
Water Column in Well	49.52	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/17/2020	EB Time	
Sample Time	10:24	MS/MSD Sample ID	
Sample ID	MW-87-139-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	12/17/2020

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)
10:07	200	800	23.0	7.59	7468	96.8	1.60	22	91.33	4.11	4.85
10:11	200	1600	23.5	7.55	7477	94.8	1.65	13	91.33	4.11	4.85
10:15	200	2400	23.7	7.54	7481	93.4	1.67	8	91.33	4.12	4.88
10:19	200	3200	23.7	7.54	7484	92.6	1.68	7	91.33	4.12	4.89
10:23	200	4000	23.7	7.54	7486	91.5	1.70	7	91.33	4.12	4.89

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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-94-030

Date	12/16/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	11.23
Water Quality Meter	YSI	Gallons in Well	3.50
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	32.64
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	27
Water Column in Well	21.41	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-725-q420
Sample Date	12/16/2020	EB Time	12:51
Sample Time	12:41	MS/MSD Sample ID	
Sample ID	MW-94-030-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	12/16/2020

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)
12:20	500	2000	31.5	7.74	1381	13.7	3.50	56	11.30	0.68	0.89
12:24	500	4000	31.1	7.75	1381	14.3	3.61	23	11.30	0.68	0.89
12:28	500	6000	31.6	7.74	1382	15.0	3.70	17	11.30	0.68	0.89
12:32	500	8000	31.7	7.74	1383	16.1	3.76	7	11.30	0.68	0.89
12:36	500	10000	31.7	7.75	1379	16.6	3.81	7	11.30	0.68	0.89
12:40	500	12000	31.6	7.75	1377	16.8	3.87	7	11.30	0.68	0.89

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-94-100

Date	12/16/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	11.02
Water Quality Meter	YSI	Gallons in Well	14.89
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	102.26
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	92
Water Column in Well	91.25	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/16/2020	EB Time	
Sample Time	12:01	MS/MSD Sample ID	
Sample ID	MW-94-100-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	19	Post Sampling Turbidity	
		Purge Date	12/16/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:40	500	2000	35.6	7.88	1569	-2.8	2.37	344	11.11	0.78	1.02
11:44	500	4000	35.2	7.87	1567	-2.8	2.17	65	11.11	0.78	1.02
11:48	500	6000	35.2	7.86	1564	-3.1	2.08	28	11.11	0.77	1.01
11:52	500	8000	35.1	7.86	1562	-3.0	2.08	19	11.11	0.77	1.01
11:56	500	10000	35.5	7.85	1567	-2.5	2.17	19	11.11	0.77	1.01
12:00	500	12000	35.6	7.85	1551	-2.2	2.26	19	11.11	0.76	1.00

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-94-175

Date	12/16/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	9.82
Water Quality Meter	YSI	Gallons in Well	27.29
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	177.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	167
Water Column in Well	167.30	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/16/2020	EB Time	
Sample Time	11:16	MS/MSD Sample ID	
Sample ID	MW-94-175-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	12/16/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
10:55	500	2000	33.8	8.02	1056	-24.5	1.96	73	9.90	0.51	0.68
10:59	500	4000	33.7	8.02	1057	-24.5	1.99	39	9.90	0.51	0.68
11:03	500	6000	34.4	8.00	1058	-23.2	1.97	25	9.90	0.51	0.68
11:07	500	8000	34.7	7.99	1056	-20.1	1.99	8	9.90	0.51	0.68
11:11	500	10000	34.1	8.00	1053	-19.4	2.03	8	9.90	0.51	0.68
11:15	500	12000	34.1	8.00	1053	-19.0	2.04	8	9.90	0.51	0.68

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

**Site: PGE Topock
Topock, CA**

MW-95-113

Date	12/15/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	grey
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	97.85
Water Quality Meter	YSI	Gallons in Well	3.25
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	117.74
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	107
Water Column in Well	19.89	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-724-q420
Sample Date	12/15/2020	EB Time	13:24
Sample Time	13:14	MS/MSD Sample ID	
Sample ID	MW-95-113-Q420	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	37	Post Sampling Turbidity	
		Purge Date	12/15/2020

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)
12:53	500	2000	23.3	7.80	1453	9.9	2.75	55	97.90	0.71	0.91
12:57	500	4000	24.1	7.68	1367	7.3	2.00	33	97.90	0.68	0.88
13:01	500	6000	24.2	7.66	1360	6.9	1.75	30	97.90	0.68	0.88
13:05	500	8000	24.3	7.65	1358	5.8	1.68	33	97.90	0.68	0.88
13:09	500	10000	24.3	7.64	1355	4.4	1.60	35	97.90	0.68	0.88
13:13	500	12000	24.4	7.64	1359	3.9	1.55	37	97.90	0.68	0.89

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-95-157

Date	12/15/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	97.77
Water Quality Meter	YSI	Gallons in Well	10.40
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	161.49
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	151
Water Column in Well	63.73	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/15/2020	EB Time	
Sample Time	12:17	MS/MSD Sample ID	
Sample ID	MW-95-157-Q420	MS/MSD Sample Time	
Single Filter Turbidity	2	Double Filter Turbidity	
Without Filter Turbidity	20	Post Sampling Turbidity	
		Purge Date	12/15/2020

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)
12:00	500	2000	23.1	7.35	5345	8.7	3.46	33	97.80	2.84	3.42
12:04	500	4000	23.6	7.39	5496	12.5	3.31	22	97.80	2.97	3.57
12:08	500	6000	23.8	7.43	5588	14.8	3.80	20	97.80	3.00	3.59
12:12	500	8000	23.9	7.45	5603	16.0	4.00	20	97.80	3.03	3.62
12:16	500	10000	23.9	7.46	5611	18.3	4.02	20	97.80	3.03	3.63

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-98-077

Date	12/14/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	46.65
Water Quality Meter	YSI	Gallons in Well	5.61
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	81.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	76
Water Column in Well	34.35	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/14/2020	EB Time	
Sample Time	12:19	MS/MSD Sample ID	
Sample ID	MW-98-077-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	12/14/2020

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	28.4	6.25	12971	156.0	0.94	45	46.68	7.42	8.45
12:02	500	4000	29.0	6.57	13182	142.3	0.88	22	46.68	7.54	8.56
12:06	500	6000	29.2	6.84	13018	122.2	0.78	11	46.68	7.44	8.46
12:10	500	8000	29.1	7.03	12849	102.1	0.68	6	46.68	7.35	8.37
12:14	500	10000	29.1	7.09	12857	94.9	0.65	6	46.68	7.34	8.34
12:18	500	12000	29.1	7.13	12830	88.0	0.63	6	46.68	7.32	8.33

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-98-055

Date	12/14/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	46.74
Water Quality Meter	YSI	Gallons in Well	2.03
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	59.18
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	53
Water Column in Well	12.44	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/14/2020	EB Time	
Sample Time	12:58	MS/MSD Sample ID	
Sample ID	MW-98-055-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	12/14/2020

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)
12:37	500	2000	28.9	7.56	3924	20.4	0.54	13	46.77	2.06	2.54
12:41	500	4000	29.1	7.62	3935	12.5	0.63	3	46.77	2.07	2.56
12:45	500	6000	29.5	7.64	3939	9.6	0.61	2	46.77	2.07	2.56
12:49	500	8000	29.7	7.69	3948	7.1	0.60	2	46.77	2.07	2.56
12:53	500	10000	29.9	7.71	3951	-1.1	0.59	2	46.77	2.07	2.56
12:57	500	12000	29.9	7.73	3957	-4.0	0.60	2	46.77	2.08	2.57

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-12

Date	12/14/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	green
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	29.01
Water Quality Meter	YSI	Gallons in Well	13.64
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	49.91
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	39
Water Column in Well	20.90	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-719-Q420
Sample Date	12/14/2020	EB Time	14:30
Sample Time	14:10	MS/MSD Sample ID	
Sample ID	MW-12-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-905-Q420	Double Filter Turbidity	
Dup Sample Time	14:20	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/14/2020
Without Filter Turbidity	7		

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	27.9	8.07	6572	85.9	3.00	26	29.10	3.58	4.27
13:57	500	4000	27.8	7.93	6685	88.2	2.93	14	29.10	3.61	4.30
14:01	500	6000	27.8	7.91	6638	85.8	2.87	8	29.10	3.61	4.30
14:05	500	8000	28.0	7.90	6650	84.7	2.85	7	29.10	3.62	4.32
14:09	500	10000	28.0	7.90	6654	84.0	2.84	7	29.10	3.62	4.32

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		

**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

MW-13

Date	12/14/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	30.29
Water Quality Meter	YSI	Gallons in Well	12.21
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	49.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	38.5
Water Column in Well	18.71	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Eb-722-q420
Sample Date	12/14/2020	EB Time	14:00
Sample Time	13:52	MS/MSD Sample ID	
Sample ID	MW-13-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	12/14/2020

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)
13:31	500	2000	26.9	7.73	2738	35.8	5.22	9	30.34	1.41	1.77
13:35	500	4000	29.7	7.63	2748	42.0	5.14	8	30.34	1.41	1.78
13:39	500	6000	29.5	7.59	2733	45.9	5.28	7	30.34	1.40	1.77
13:43	500	8000	29.4	7.57	2733	47.3	5.27	7	30.34	1.40	1.77
13:47	500	10000	29.6	7.55	2737	48.3	5.19	7	30.34	1.40	1.77
13:51	500	12000	29.5	7.54	2733	48.8	5.24	7	30.34	1.40	1.77

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-21

Date	12/14/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	3
Purge Volume Units	gal	Depth to Water (ft bmp)	50.71
Water Quality Meter	YSI	Gallons in Well	4.94
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	58.27
Casing Material	PVC	Odor	none
Casing Diameter (in)	4	Pump Intake Depth (ft bmp)	57
Water Column in Well	7.57	Total Volume to Remove	14.82
Did Well Dewater?	Yes	EB Sample ID	MW-21-EB-Q420
Sample Date	12/15/2020	EB Time	14:00
Sample Time	14:15	MS/MSD Sample ID	
Sample ID	MW-21-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	1
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	12/14/2020

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)
11:55	0.5	2	27.8	7.41	13690	100.9	2.09	17	53.11	8.08	9.10
11:59	0.5	4	28.1	7.43	14051	106.9	1.96	13	55.23	8.10	9.13
12:01	0.5	5	28.3	7.43	14063	108.5	1.92	12	56.24	8.10	9.13
12:03											
14:15			23.9	7.49	14075	111.9	1.89	7	52.07	8.15	9.15

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-28-025

Date	12/15/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	13.42
Water Quality Meter	YSI	Gallons in Well	1.31
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	21.40
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	18
Water Column in Well	7.98	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-28-025-EB-Q420
Sample Date	12/15/2020	EB Time	10:45
Sample Time	11:16	MS/MSD Sample ID	
Sample ID	MW-28-025-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/15/2020

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)
10:59	500	2000	22.2	7.66	1208	54.8	2.13	27	13.50	0.60	0.78
11:03	500	4000	22.4	7.60	1212	57.1	1.90	11	13.50	0.61	0.79
11:07	500	6000	22.5	7.58	1215	48.2	1.86	6	13.50	0.61	0.79
11:11	500	8000	22.5	7.57	1216	44.5	1.83	5	13.50	0.61	0.79
11:15	500	10000	22.5	7.58	1215	42.9	1.80	5	13.50	0.61	0.79

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-28-090

Date	12/15/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	14.22
Water Quality Meter	YSI	Gallons in Well	13.65
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	97.85
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	80
Water Column in Well	83.63	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	MW-28-090-EB-Q420
Sample Date	12/15/2020	EB Time	09:55
Sample Time	10:24	MS/MSD Sample ID	
Sample ID	MW-28-090-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	12/15/2020

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)
10:07	500	2000	19.0	7.53	4927	-57.9	0.20	36	14.30	2.66	3.20
10:11	500	4000	19.5	7.49	5500	-72.0	0.17	17	14.30	3.12	3.77
10:15	500	6000	19.6	7.47	6930	-67.0	0.15	9	14.30	3.85	4.54
10:19	500	8000	19.6	7.47	7011	-62.8	0.14	8	14.30	3.88	4.58
10:23	500	10000	19.6	7.47	7029	-61.2	0.14	8	14.30	3.89	4.59

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	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			

Photos and Drawings

**Site: PGE Topock
Topock, CA**



**Site: PGE Topock
Topock, CA**

MW-36-020

Date	12/15/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	15.84
Water Quality Meter	YSI	Gallons in Well	0.28
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	22.57
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	16
Water Column in Well	6.73	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/15/2020	EB Time	
Sample Time	08:41	MS/MSD Sample ID	
Sample ID	MW-36-020-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	12/15/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cuml Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:20	200	800	21.1	7.36	7100	46.3	1.22	22	15.92	3.91	4.60
08:24	200	1600	21.2	7.38	6900	-9.5	0.94	4	15.92	3.79	4.47
08:28	200	2400	21.3	7.38	6889	-35.3	0.82	3	15.92	3.76	4.44
08:32	200	3200	21.3	7.39	6840	-49.4	0.74	3	15.92	3.76	4.44
08:36	200	4000	21.4	7.39	6838	-51.3	0.66	3	15.92	3.76	4.44
08:40	200	4800	21.4	7.39	6848	-53.5	0.60	3	15.92	3.76	4.45

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-36-040

Date	12/15/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	16.37
Water Quality Meter	YSI	Gallons in Well	1.08
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	42.62
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	35
Water Column in Well	26.25	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/15/2020	EB Time	
Sample Time	10:21	MS/MSD Sample ID	
Sample ID	MW-36-040-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/15/2020

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)
10:04	200	800	20.8	8.05	1078	-41.5	0.33	7	16.40	0.53	0.70
10:08	200	1600	20.7	8.02	1075	54.5	0.20	5	16.40	0.53	0.69
10:12	200	2400	20.7	8.03	1076	-81.7	0.19	5	16.40	0.53	0.70
10:16	200	3200	20.7	8.04	1076	-83.3	0.19	5	16.40	0.53	0.70
10:20	200	4000	20.8	8.05	1077	-85.4	0.18	5	16.40	0.53	0.70

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

MW-36-050

Date	12/15/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	16.42
Water Quality Meter	YSI	Gallons in Well	1.50
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	53.11
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	48.5
Water Column in Well	36.69	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/15/2020	EB Time	
Sample Time	10:53	MS/MSD Sample ID	
Sample ID	MW-36-050-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	12/15/2020

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)
10:36	200	800	20.4	7.82	1003	-97.3	0.53	10	16.45	0.50	0.65
10:40	200	1600	20.2	7.79	1003	-96.8	0.33	7	16.45	0.50	0.65
10:44	200	2400	20.1	7.79	1006	-98.5	0.21	6	16.45	0.50	0.65
10:48	200	3200	20.1	7.78	1005	-100.0	0.18	6	16.45	0.50	0.65
10:52	200	4000	20.1	7.78	1005	-102.5	0.15	6	16.45	0.50	0.65

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

MW-36-070

Date	12/15/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	15.92
Water Quality Meter	YSI	Gallons in Well	2.31
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	72.38
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	65
Water Column in Well	56.46	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/15/2020	EB Time	
Sample Time	09:11	MS/MSD Sample ID	
Sample ID	MW-36-070-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	2	Post Sampling Turbidity	
Turbidity		Purge Date	12/15/2020

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	200	800	20.9	7.85	1201	-89.2	2.67	4	15.96	0.60	0.78
08:58	200	1600	20.6	7.80	1026	-82.5	1.46	3	15.96	0.51	0.66
09:02	200	2400	20.4	7.79	1021	-81.6	1.08	2	15.96	0.51	0.66
09:06	200	3200	20.3	7.78	1020	-81.3	0.85	2	15.96	0.51	0.66
09:10	200	4000	20.2	7.78	1019	-81.1	0.80	2	15.96	0.51	0.66

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-36-090

Date	12/15/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	17.19
Water Quality Meter	YSI	Gallons in Well	3.11
Sampling Type	Low Flow –Peristaltic Pump	Measured Well Depth (ft bmp)	93.38
Casing Material	PVC	Odor	none
Casing Diameter (in)	1	Pump Intake Depth (ft bmp)	85
Water Column in Well	76.19	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/15/2020	EB Time	
Sample Time	09:50	MS/MSD Sample ID	
Sample ID	MW-36-090-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	4	Post Sampling Turbidity	
Turbidity		Purge Date	12/15/2020

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	200	800	20.2	7.69	3414	-74.4	0.24	6	17.22	1.80	2.21
09:37	200	1600	20.0	7.69	3415	-78.6	0.20	4	17.22	1.80	2.21
09:41	200	2400	20.0	7.69	3430	-84.7	0.15	4	17.22	1.81	2.22
09:45	200	3200	20.1	7.70	3433	-86.0	0.13	4	17.23	1.81	2.22
09:49	200	4000	20.1	7.70	3435	-88.1	0.11	4	17.22	1.81	2.22

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

MW-36-100

Date	12/15/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	16.76
Water Quality Meter	YSI	Gallons in Well	15.20
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	109.89
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	93
Water Column in Well	93.13	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/15/2020	EB Time	
Sample Time	08:30	MS/MSD Sample ID	
Sample ID	MW-36-100-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	8	Post Sampling Turbidity	
Turbidity		Purge Date	12/15/2020

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)
08:15	500	2000	20.8	7.56	7610	-48.0	0.56	137	16.85	4.15	4.94
08:19	500	4000	20.6	7.51	7587	-41.3	0.51	26	16.85	4.13	4.91
08:21	500	6000	20.5	7.46	7551	-35.7	0.47	9	16.85	4.12	4.89
08:25	500	8000	20.5	7.45	7543	-30.6	0.45	8	16.85	4.12	4.89
08:29	500	10000	20.5	7.45	7541	-29.7	0.44	8	16.85	4.12	4.89

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-38D

Date	12/14/2020	Sampler	Jb
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	70.49
Water Quality Meter	YSI	Gallons in Well	18.36
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	183.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	173.00
Water Column in Well	112.51	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/14/2020	EB Time	
Sample Time	12:27	MS/MSD Sample ID	
Sample ID	MW-38D-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	9	Post Sampling Turbidity	
		Purge Date	12/14/2020

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)
12:10	500	2000	30.0	8.11	16710	-22.1	0.93	15	70.53	9.84	10.97
12:14	500	4000	29.9	8.13	17245	-22.0	0.98	9	70.53	9.84	10.97
12:18	500	6000	30.1	8.12	17410	-22.2	0.90	9	70.53	9.84	10.97
12:22	500	8000	30.2	8.12	17731	-22.4	0.85	9	70.53	9.84	10.97
12:26	500	10000	30.2	8.11	17821	-22.5	0.81	9	70.53	9.84	10.97
13:25			28.2	8.26	18049	-54.9	2.56	10	71.25	10.63	11.74

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-39-100

Date	12/15/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	15.58
Water Quality Meter	YSI	Gallons in Well	16.48
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	116.58
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	90
Water Column in Well	101.00	Total Volume to Remove	
Sample Date	12/15/2020	EB Sample ID	
Sample Time	09:22	EB Time	
Sample ID	MW-39-100-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter	8	Double Filter Turbidity	
Turbidity		Post Sampling Turbidity	
		Purge Date	12/15/2020

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)
09:05	500	2000	21.2	7.34	12689	96.8	1.24	58	15.65	7.40	8.38
09:09	500	4000	21.2	7.34	12890	95.4	0.81	20	15.65	7.45	8.41
09:13	500	6000	21.4	7.32	13067	92.4	0.55	9	15.65	7.49	8.53
09:17	500	8000	21.4	7.32	13160	91.7	0.51	8	15.65	7.51	8.56
09:21	500	10000	21.5	7.32	13169	91.0	0.50	8	15.65	7.51	8.56

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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-41D

Date	12/17/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	24.46
Water Quality Meter	YSI	Gallons in Well	46.74
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	311.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	281
Water Column in Well	286.54	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/17/2020	EB Time	
Sample Time	08:24	MS/MSD Sample ID	
Sample ID	MW-41D-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	12/17/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:07	500	2000	28.4	7.68	21750	216.6	0.24	15	24.51	13.02	14.18
08:11	500	4000	28.4	7.71	21797	211.8	0.22	9	24.51	13.05	14.17
08:15	500	6000	28.1	7.73	21771	207.9	0.22	5	24.51	13.05	14.19
08:19	500	8000	28.2	7.73	21804	205.9	0.20	5	24.51	13.05	14.17
08:23	500	10000	28.2	7.74	21807	204.7	0.18	5	24.51	13.05	14.17

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-41M

Date	12/17/2020	Sampler	Jb
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	24..26
Water Quality Meter	YSI	Gallons in Well	31.00
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)	180
Water Column in Well	190.00	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/17/2020	EB Time	
Sample Time	08:17	MS/MSD Sample ID	
Sample ID	MW-41M-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	7	Post Sampling Turbidity	
		Purge Date	12/17/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
08:00	500	2000	28.9	7.93	14772	0.0	0.83	14	24.69	8,53	9.60
08:04	500	4000	28.9	7.94	14770	-0.4	0.78	7	24.69	8.53	9.60
08:08	500	6000	28.9	7.94	14775	-0.6	0.75	7	24.69	8.53	9.60
08:12	500	8000	28.9	7.95	14771	-0.7	0.73	7	24.69	8.53	9.60
08:16	500	10000	28.9	7.95	14773	-0.9	0.72	7	24.69	8,53	9.60

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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-41S

Date	12/17/2020	Sampler	Jb
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	25.26
Water Quality Meter	YSI	Gallons in Well	5.67
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	60.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	50
Water Column in Well	34.74	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/17/2020	EB Time	
Sample Time	09:02	MS/MSD Sample ID	
Sample ID	MW-41S-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	5	Post Sampling Turbidity	
		Purge Date	12/17/2020

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)
08:45	500	2000	28.1	8.09	7045	18.1	3.70	10	25.30	3.84	4.58
08:49	500	4000	28.1	8.09	7039	18.6	3.67	5	25.30	3.84	4.58
08:53	500	6000	28.1	8.10	7037	18.6	3.70	5	25.30	3.84	4.58
08:57	500	8000	28.1	8.10	7041	19.0	3.70	5	25.30	3.84	4.58
09:01	500	10000	28.1	8.10	7040	18.8	3.69	5	25.30	3.84	4.58

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-42-030

Date	12/16/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	10.52
Water Quality Meter	YSI	Gallons in Well	3.34
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	30.98
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	19.5
Water Column in Well	20.46	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/16/2020	EB Time	
Sample Time	09:55	MS/MSD Sample ID	
Sample ID	MW-42-030-Q420	MS/MSD Sample Time	
Single Filter Turbidity	3	Double Filter Turbidity	
Without Filter Turbidity	39	Post Sampling Turbidity	
		Purge Date	12/16/2020

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)
09:38	500	2000	22.3	7.95	3696	-71.0	0.10	62	10.60	1.95	2.39
09:42	500	4000	22.3	7.94	3467	-100.7	0.08	43	10.60	1.85	2.28
09:46	500	6000	22.3	7.95	3467	-104.1	0.07	40	10.60	1.83	2.28
09:50	500	8000	22.3	7.94	3450	-107.0	0.07	38	10.60	1.82	2.24
09:54	500	10000	22.3	7.95	3433	-109.8	0.06	39	10.60	1.81	2.23

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-42-055

Date	12/16/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	10.58
Water Quality Meter	YSI	Gallons in Well	7.28
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	55.19
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	47.5
Water Column in Well	44.61	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Mw-42-055-eb-q420
Sample Date	12/16/2020	EB Time	09:00
Sample Time	09:27	MS/MSD Sample ID	
Sample ID	MW-42-055-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	3	Post Sampling Turbidity	
		Purge Date	12/16/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
09:10	500	2000	20.7	7.88	1079	-0.6	0.24	4	11.05	0.54	0.70
09:14	500	4000	20.7	7.82	1079	-15.0	0.12	3	11.05	0.54	0.70
09:18	500	6000	20.7	7.82	1078	-32.6	0.09	3	11.05	0.54	0.70
09:22	500	8000	20.7	7.81	10.78	-34.3	0.08	3	11.05	0.54	0.70
09:26	500	10000	20.8	7.81	1077	-36.6	0.08	3	11.05	0.54	0.70

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-42-065

Date	12/16/2020	Sampler	Reggie
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	0
Purge Volume Units	ml	Depth to Water (ft bmp)	10.13
Water Quality Meter	YSI	Gallons in Well	11.98
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	83.54
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	61
Water Column in Well	73.42	Total Volume to Remove	0.00
Did Well Dewater?	No	EB Sample ID	Mw-42-065-eb-q420
Sample Date	12/16/2020	EB Time	08:20
Sample Time	08:51	MS/MSD Sample ID	
Sample ID	MW-42-065-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	6	Post Sampling Turbidity	
		Purge Date	12/16/2020

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)
08:30	500	2000	19.8	7.83	2303	32.1	0.52	9	10.20	1.20	1.51
08:34	500	4000	19.6	7.76	2556	28.1	0.46	7	10.20	1.33	1.67
08:38	500	6000	20.4	7.64	3090	16.5	0.24	6	10.20	1.62	2.01
08:42	500	8000	20.5	7.59	3445	-0.4	0.19	6	10.20	1.80	2.21
08:46	500	10000	20.6	7.57	3542	-1.8	0.19	6	10.20	1.88	2.30
08:50	500	12000	20.6	7.56	3572	-3.1	0.18	6	10.20	1.89	2.32

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?		X		
Action Completed?			X	

Photos and Drawings

Site: PGE Topock
Topock, CA

MW-46-175

Date	12/15/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	29.52
Water Quality Meter	YSI	Gallons in Well	23.93
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	176.20
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	170
Water Column in Well	146.68	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-723-Q420
Sample Date	12/15/2020	EB Time	15:00
Sample Time	13:12	MS/MSD Sample ID	
Sample ID	MW-46-175-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter Turbidity	2	Post Sampling Turbidity	
		Purge Date	12/15/2020

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)
12:55	500	2000	19.6	8.50	18718	109.3	0.39	13	29.61	11.14	12.18
12:59	500	4000	20.4	8.52	18765	106.8	0.26	7	29.61	11.16	12.20
13:03	500	6000	20.7	8.52	18770	102.3	0.24	3	29.61	11.16	12.20
13:07	500	8000	20.8	8.53	18781	99.8	0.23	2	29.61	11.16	12.20
13:11	500	10000	20.8	8.53	18788	97.8	0.23	2	29.61	11.17	12.21

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-46-205

Date	12/15/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	29.66
Water Quality Meter	YSI	Gallons in Well	30.84
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	218.70
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	201
Water Column in Well	189.04	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/15/2020	EB Time	
Sample Time	12:18	MS/MSD Sample ID	
Sample ID	MW-46-205-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	5	Post Sampling Turbidity	
Turbidity		Purge Date	12/15/2020

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)
12:01	500	2000	19.6	8.46	21382	102.9	0.87	9	29.75	12.87	13.90
12:05	500	4000	20.3	8.47	21441	100.7	0.65	6	29.75	12.90	13.93
12:09	500	6000	20.7	8.49	21467	98.5	0.54	5	29.75	12.90	13.93
12:13	500	8000	20.8	8.50	21469	95.8	0.51	5	29.75	12.90	13.94
12:17	500	10000	20.8	8.50	21477	92.9	0.50	5	29.75	12.91	13.94

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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**

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-48

Date	12/14/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	3
Purge Volume Units	gal	Depth to Water (ft bmp)	31.56
Water Quality Meter	YSI	Gallons in Well	17.01
Sampling Type	Grab Sample	Measured Well Depth (ft bmp)	135.82
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	132
Water Column in Well	104.26	Total Volume to Remove	51.03
Did Well Dewater?	Yes	EB Sample ID	
Sample Date	12/16/2020	EB Time	
Sample Time	15:15	MS/MSD Sample ID	
Sample ID	MW-48-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	1
Without Filter Turbidity	8	Post Sampling Turbidity	
		Purge Date	12/14/2020

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)
13:07	1	4	25.6	7.81	18910	95.9	2.54	15	68.56	11.23	12.29
13:11	1	8	26.9	7.77	18875	97.7	2.28	22	96.88	11.19	12.27
13:15	1	12	27.0	7.73	18760	104.9	2.40	18	120.11	11.10	12.18
13:19	1	16	27.5	7.72	18789	106.0	2.43	37	133.01	11.10	12.19
13:21	1	18									
15:15			22.1	7.68	18677	96.9	1.91	8	50.11	11.09	12.15

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			

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-60BR-245

Date	12/17/2020	Sampler	Nara Tep
Weather Conditions	Cloudy	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	99.62
Water Quality Meter	YSI	Gallons in Well	148.21
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	245.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	175
Water Column in Well	145.38	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	EB-798-1220
Sample Date	12/17/2020	EB Time	12:00
Sample Time	11:48	MS/MSD Sample ID	
Sample ID	MW-60BR-245-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	
Without Filter	3	Post Sampling Turbidity	
Turbidity		Purge Date	12/17/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	CumI Vol Purged	Temp (C)	pH	Conductivit (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
11:27	300	1200	26.2	8.07	18097	175.9	1.12	15	99.79	10.67	11.76
11:31	300	2400	27.1	8.11	18101	160.8	0.87	8	99.82	10.67	11.77
11:35	300	3600	27.3	8.12	18122	127.9	0.75	5	99.82	10.68	11.77
11:39	300	4800	27.3	8.12	18135	117.9	0.68	3	99.83	10.67	11.78
11:43	300	6000	27.4	8.13	18139	112.7	0.65	3	99.83	10.68	11.78
11:47	300	7200	27.4	8.13	18144	110.3	0.64	3	99.83	10.68	11.78

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			

Site: PGE Topock
Topock, CA

Item	Yes	No	NA	Notes
Photo Taken?	X			

Photos and Drawings



**Site: PGE Topock
Topock, CA**

MW-66BR-270

Date	12/16/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Volume Purge – Grundfos RF2	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	6	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/16/2020	EB Sample ID	
Sample Time	14:30	EB Time	
Sample ID	MW-66BR-270-Q420	MS/MSD Sample ID	
Duplicate Sample ID	MW-938-Q420	MS/MSD Sample Time	
Dup Sample Time	14:40	Double Filter Turbidity	1
Single Filter Turbidity	3	Post Sampling Turbidity	
Without Filter Turbidity	32	Purge Date	12/16/2020

Field Parameters

Time	Flow Rate (ml/min or gal/min)	Cum'l Vol Purged	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Salinity (ppt)	TDS (g/L)
14:30			27.5	8.11	18256	-139.0	0.05	32		10.76	11.86

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Poned 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			

Photos and Drawings

**Site: PGE Topock
Topock, CA**



**Site: PGE Topock
Topock, CA**

MW-68-180

Date	12/16/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	yellow
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	165.42
Water Quality Meter	YSI	Gallons in Well	2.37
Sampling Type	Low Flow – QED Bladder Pump	Measured Well Depth (ft bmp)	179.91
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	172
Water Column in Well	14.50	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/16/2020	EB Time	
Sample Time	10:18	MS/MSD Sample ID	
Sample ID	MW-68-180-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-939-Q420	Double Filter Turbidity	
Dup Sample Time	10:28	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/16/2020
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)
10:01	300	1200	26.3	7.53	6007	103.8	5.40	17	165.50	3.25	3.90
10:05	300	2400	26.5	7.55	5862	111.8	5.11	12	165.50	3.17	3.77
10:09	300	3600	26.6	7.55	5823	114.0	4.93	9	165.50	3.16	3.75
10:13	300	4800	26.8	7.55	5820	115.7	4.90	8	165.50	3.16	3.75
10:17	300	6000	26.8	7.56	5818	117.1	4.88	8	165.50	3.15	3.74

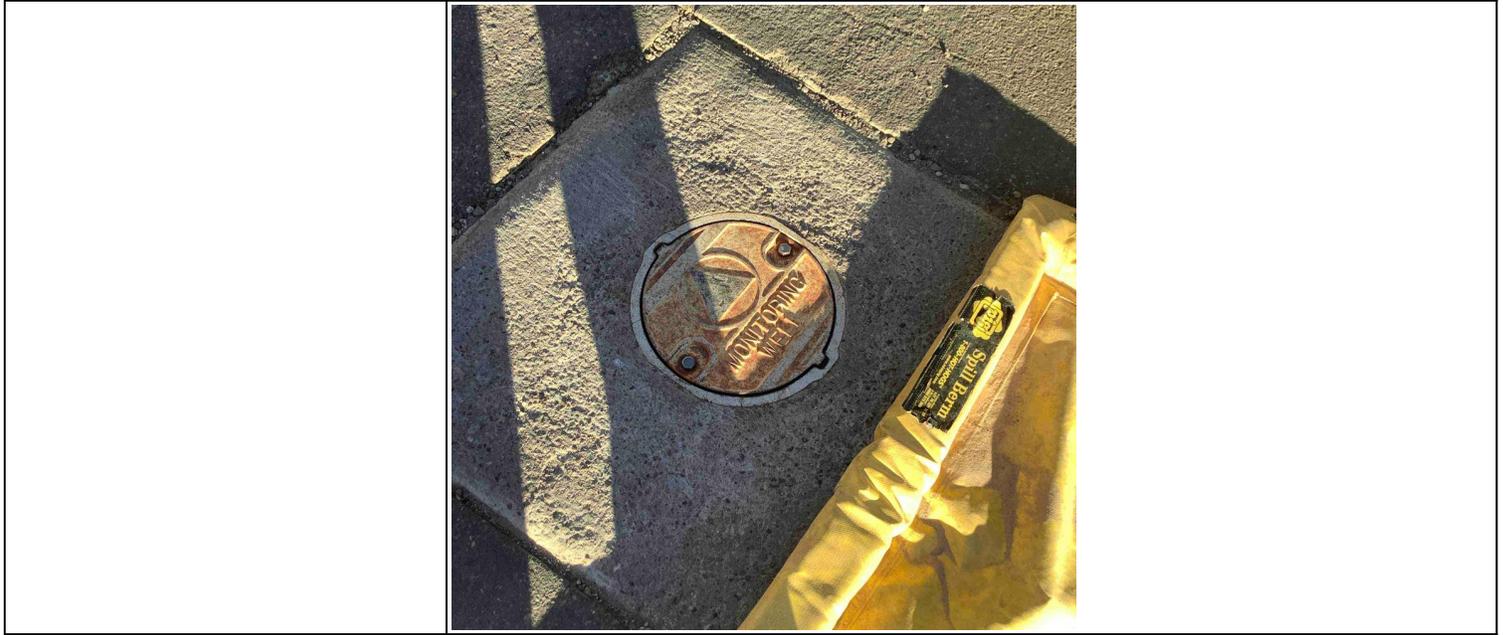
Well Integrity Checklist

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		

**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

MW-68-240

Date	12/16/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	165.51
Water Quality Meter	YSI	Gallons in Well	12.16
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	240.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	230
Water Column in Well	74.50	Total Volume to Remove	
Did Well Dewater?	No	EB Sample ID	
Sample Date	12/16/2020	EB Time	
Sample Time	12:34	MS/MSD Sample ID	
Sample ID	MW-68-240-Q420	MS/MSD Sample Time	
Duplicate Sample ID	MW-940-Q420	Double Filter Turbidity	
Dup Sample Time	12:44	Post Sampling Turbidity	
Single Filter Turbidity	1	Purge Date	12/16/2020
Without Filter Turbidity	6		

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)
12:17	500	2000	28.9	7.25	17198	156.9	0.21	15	165.60	10.08	11.16
12:21	500	4000	29.8	7.34	17150	146.0	0.17	9	165.60	10.04	11.13
12:25	500	6000	30.1	7.36	17134	145.8	0.16	7	165.60	10.02	11.13
12:29	500	8000	30.3	7.36	17108	142.7	0.13	6	165.60	10.01	11.12
12:33	500	10000	30.3	7.35	17105	141.7	0.12	6	165.60	10.01	11.13

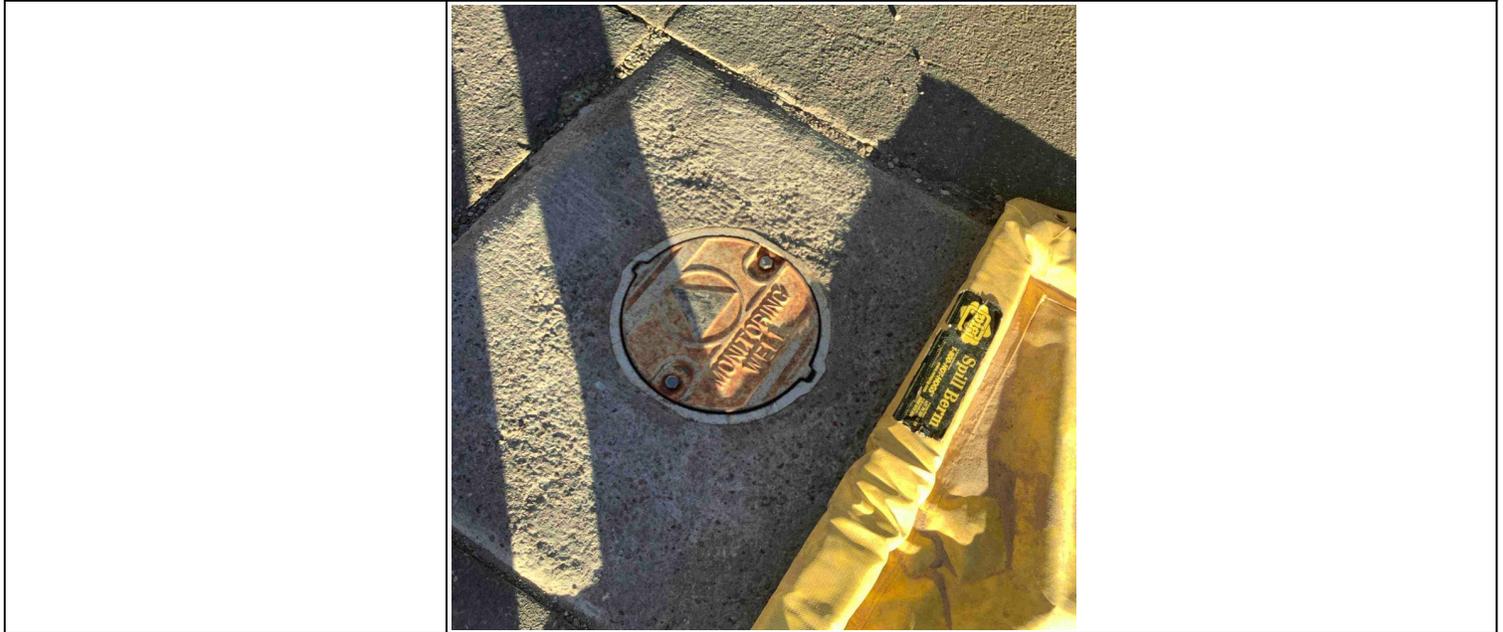
Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?	X			
Standing or Pounded 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

MW-68BR-280

Date	12/16/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	ml	Depth to Water (ft bmp)	164.03
Water Quality Meter	YSI	Gallons in Well	118.23
Sampling Type	Low Flow – Grundfos RF2	Measured Well Depth (ft bmp)	280.00
Casing Material	PVC	Odor	none
Casing Diameter (in)	5	Pump Intake Depth (ft bmp)	
Water Column in Well	115.97	Total Volume to Remove	
Comments	Dedicated QED	EB Sample ID	EB-726-Q420
Did Well Dewater?	No	EB Time	15:30
Sample Date	12/16/2020	MS/MSD Sample ID	
Sample Time	08:50	MS/MSD Sample Time	
Sample ID	MW-68BR-280-Q420	Double Filter Turbidity	
Duplicate Sample ID	MW-941-Q420	Post Sampling Turbidity	
Dup Sample Time	09:00	Purge Date	12/16/2020
Single Filter Turbidity	1		
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)
08:05	2	20	28.6	8.43	21906	-75.9	1.46	5	194.80	13.18	14.26
08:15	2	40	29.7	8.56	21849	-74.0	0.89	4	224.90	13.12	14.28
08:27	2	64	29.9	8.60	21994	-69.0	0.81	4	232.56	13.21	14.26
08:33	200	800	27.1	8.65	22204	-77.8	0.65	3	229.11	13.12	14.22
08:37	200	1600	27.3	8.65	22170	-80.9	0.63	3	229.11	13.19	14.25
08:41	200	2400	27.3	8.65	22167	-83.9	0.62	3	229.11	13.19	14.25
08:45	200	3200	27.3	8.65	22155	-84.9	0.62	2	229.11	13.19	14.25
08:49	200	4000	27.3	8.64	22151	-86.0	0.60	2	229.11	13.19	14.24

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		

**Site: PGE Topock
Topock, CA**

Item	Yes	No	NA	Notes
Steel Casing Intact?			X	
PVC Cap Present?	X			
Standing Water in Annulus?		X		
Well Casing Intact?	X			
Photo Taken?	X			

Photos and Drawings



Site: PGE Topock
Topock, CA

MW-71-035

Date	12/14/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	3
Purge Volume Units	gal	Depth to Water (ft bmp)	28.75
Water Quality Meter	YSI	Gallons in Well	1.11
Sampling Type	Grab Sample	Measured Well Depth (ft bmp)	35.51
Casing Material	PVC	Odor	none
Casing Diameter (in)	2	Pump Intake Depth (ft bmp)	34
Water Column in Well	6.76	Total Volume to Remove	3.33
Did Well Dewater?	Yes	EB Sample ID	
Sample Date	12/15/2020	EB Time	
Sample Time	14:40	MS/MSD Sample ID	
Sample ID	MW-71-035-Q420	MS/MSD Sample Time	
Single Filter Turbidity	1	Double Filter Turbidity	1
Without Filter Turbidity	17	Post Sampling Turbidity	
		Purge Date	12/14/2020

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)
12:35	0.25	1	26.7	7.21	17353	46.6	1.08	21	31.22	10.20	11.28
12:39	0.25	2	27.5	7.14	17580	55.8	1.32	87	33.76	10.21	11.29
12:39											
14:40			24.3	7.20	17408	67.9	1.78	17	29.89	10.25	11.31

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			

Photos and Drawings

Site: PGE Topock
Topock, CA



**Site: PGE Topock
Topock, CA**

PM-03

Date	12/14/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Low Flow	Casing Volume to Remove	
Purge Volume Units	gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Extraction port	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	6	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/14/2020	EB Sample ID	
Sample Time	09:45	EB Time	
Sample ID	PM-03-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	2	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/14/2020

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)
09:45	1	5	28.8	7.99	1334	88.0	3.46	2		0.66	0.87

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?			X	
Standing or Poned 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			

Photos and Drawings

**Site: PGE Topock
Topock, CA**



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Topock, CA**

PM-04

Date	12/14/2020	Sampler	Nara Tep
Weather Conditions	Sunny	Color	Clear
Purge Method	Extraction Port	Casing Volume to Remove	
Purge Volume Units	gal	Depth to Water (ft bmp)	
Water Quality Meter	YSI	Gallons in Well	
Sampling Type	Extraction port	Measured Well Depth (ft bmp)	
Casing Material	PVC	Odor	none
Casing Diameter (in)	6	Pump Intake Depth (ft bmp)	
Did Well Dewater?	No	Total Volume to Remove	
Sample Date	12/14/2020	EB Sample ID	
Sample Time	10:10	EB Time	
Sample ID	PM-04-Q420	MS/MSD Sample ID	
Single Filter Turbidity	1	MS/MSD Sample Time	
Without Filter Turbidity	2	Double Filter Turbidity	
		Post Sampling Turbidity	
		Purge Date	12/14/2020

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)
10:10	1	5	28.6	7.63	2631	97.3	2.15	2		1.35	1.71

Well Integrity Checklist

Item	Yes	No	NA	Notes
Date				
Time				
Survey Mark Present?			X	
Standing or Poned 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			

Photos and Drawings

Site: PGE Topock
Topock, CA

