STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

OFFICE USE ONLY
Log No. 119431
Permit No.
Basin 076

Well ID = P-1

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. 70786

1. OWNER Tracy Buond 21st Century Environmental
MAILING ADDRESS 2095 EAST Newland Road. Fernley NV

ADDRESS AT WELL LOCATION 2095 EAST Newland Road Fernley, NV
Subdivision Name: County: Lyon

2. LOCATION SE ¼ SW ¼ Sec 08 T 20 N S R 25 E
PERMIT/WAIVER No. Issued by Water Resources Parcel No.

Latitude 39° 36' 32.97" UTM E ☐ NAD 27
Longitude 119° 12' 03.95" N ☒ NAD 83/WGS 84

3. WORKED PERFORMED
☒ New Well ☐ Replace ☐ Recondition
☐ Deepen ☐ Other

4. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Test
☐ Municipal/Industrial ☒ Monitor ☐ Stock

5. WELL TYPE
☐ Cable ☐ Rotary ☐ RVC
☐ Air ☒ Other Sonic

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
See Attached Form				

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Date started: 10-24-13, 20 13
Date completed: 10-25-13, 20 13

9. WELL CONSTRUCTION
Depth Drilled 47' Feet Depth Cased 37' Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
10"	Inches	0	Feet	47	Feet
	Inches		Feet		Feet
	Inches		Feet		Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
2"	Sch 40	PVC	0	37'

Perforations:
Type of perforation 0.10
Size of perforation Factory Cut
From 27' feet to 37' feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Annular Seal: ☒ Yes ☐ No
☐ Neat Cement to ☐ Pumped ☐ Poured
☒ Cement Grout 0 to 20' ☒ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured

Gravel Pack: ☒ Yes ☐ No 25 to 40' ☐ Pumped ☒ Poured
Type: #8 Sand Mix 2vi 50/50
Bentonite Chips: ☒ Yes ☐ No 20 to 25 ☐ Pumped ☒ Poured
Type: MED- 3/8

7. Water Level
Static water level: feet below land surface
Artesian Flow: G.P.M. P.S.I.
Water Temperature: °F
Quality:

8. WELL TEST DATA
TEST METHOD: ☐ Bailer ☐ Pump ☐ Air Lift

	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
NAD27			
39.60 9246 N			
119.200 0950 W			

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Cascade Drilling LP.
Contractor
Address 1333 W 9th St Upland, CA 91786
Contractor

Nevada contractor's license number issued by the State Contractor's Board 73966
Nevada driller's license number issued by the Division of Water Resources, the on-site driller 2475

Signed [signature]
by driller performing actual drilling on-site or contractor
Date October-25-2013.

(Rev 05-06)

USE ADDITIONAL SHEETS IF NECESSARY

(NSPO 3-08) (O) 627

PROJECT: PSC Fernley Corrective Action	Log of Boring No. P-1
BORING LOCATION: Between PF-8 and PF-4	ELEVATION AND DATUM: Not surveyed
DRILLING CONTRACTOR: Cascade	DATE STARTED: 10/24/13 — DATE COMPLETED: 10/25/13
DRILLING METHOD: Sonic	TOTAL DEPTH: 47 — MEASURING POINT: None
DRILLING EQUIPMENT: Spider II	DEPTH TO WATER FIRST: 27.25 — DEPTH TO FREE WATER ATC:
SAMPLING METHOD: Sonic, 2 ft sample bags	LOGGED BY: Chelsea Jefferson
BOREHOLE DIAMETER: 10" exploratory 10.5" final	HAMMER TYPE/SYSTEM: NA

DEPTH (feet)	SAMPLES: Sample No.	Sample	Blows/6 inches	DESCRIPTION: NAME (USCS Symbol): color, moisture, plasticity, consistency, structure, cementation, reaction with HCl, geologic interpretation	FIELD-ESTIMATED % Gravel: Coarse	Gravel: Fine	Sand: Coarse	Sand: Medium	Sand: Fine	Fines	REMARKS AND / OR TEST RESULTS
				Poorly graded sand (SP) light brownish gray, dry				15	85		
1											
2				Sand coarsening down				15	85		
3								30	70		
4							5	75	20		
5								80	20		
6								45	55		
7								10	85	5	
				Poorly graded sand w/ silt (SP-SM) light grayish brown, moist, non-plastic fines					90	10	
8									90	10	

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BoringLogForm 1.xls

PROJECT:	Log of Boring No. P-1	
BORING LOCATION:	ELEVATION AND DATUM:	
DRILLING CONTRACTOR:	DATE STARTED:	DATE COMPLETED:
DRILLING METHOD:	TOTAL DEPTH:	MEASURING POINT:
DRILLING EQUIPMENT:	DEPTH TO WATER: FIRST	DEPTH TO FREE WATER ATC:
SAMPLING METHOD:	LOGGED BY:	
BOREHOLE DIAMETER:	HAMMER TYPE/SYSTEM:	

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ 6 inches		DESCRIPTION NAME (USCS Symbol): color, moisture, plasticity, consistency, structure, cementation, reaction with HCl, geologic interpretation.	FIELD-ESTIMATED %: Gravel Coarse	Gravel Fine	Sand Coarse	Sand Medium	Sand Fine	Fines	REMARKS AND / OR TEST RESULTS
					SP-SM Cont.					90	10	
9												
10					mica flecks							
11												
12					Silty sand (SM) light grayish brown, moist non-plastic fines					85	15	
13					Poorly graded sand w/ silt (SP-SM) light grayish brown, moist, non-plastic fines					90	10	
14												
15												
16												
					Silty sand (SM) light grayish brown, moist non-plastic fines					80	20	
17												

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PROJECT:	Log of Boring No. P-1	
BORING LOCATION:	ELEVATION AND DATUM:	
DRILLING CONTRACTOR:	DATE STARTED:	DATE COMPLETED:
DRILLING METHOD:	TOTAL DEPTH:	MEASURING POINT:
DRILLING EQUIPMENT:	DEPTH TO WATER: FIRST	DEPTH TO FREE WATER ATC:
SAMPLING METHOD:	LOGGED BY:	
BOREHOLE DIAMETER:	HAMMER TYPE/SYSTEM:	

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ 6 inches		DESCRIPTION NAME (USCS Symbol): color, moisture, plasticity, consistency, structure, cementation, reaction with HCl, geologic interpretation.	FIELD-ESTIMATED %: Gravel Coarse	Gravel Fine	Sand Coarse	Sand Medium	Sand Fine	Fines	REMARKS AND / OR TEST RESULTS
					Poorly graded sand w/ silt (SP-SM) light grayish brown, moist non-plastic fines.					90	10	
18												
19					Clay (CL) soft, medium plasticity, grayish brown						100	
20												
21												
22					Mottling - orangish brown							
23												
24												
25												

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PROJECT:

Log of Boring No.

DEPTH (feet)	SAMPLES: Sample No.	Sample	Blows/ 6 inches	DESCRIPTION: NAME (USCS Symbol): color, moisture, plasticity, consistency, structure cementation reaction with HCl, geologic interpretation.	FIELD-ESTIMATED % Gravel: Coarse	Gravel: Fine	Sand: Coarse	Sand: Medium	Sand: Fine	Fines	REMARKS AND / OR TEST RESULTS
				Clay (CL) cont.							
26											
27				Silty sand lens							
				Silty sand (SM) grayish brown, wet, non-plastic fines					80	20	Collected for grain size analysis (27.25-28)
28				Clay (CL) Soft, medium plasticity moist grayish brown					85	15	
29				Orangish brown mottling					90	10	
30									85	15	
				lenses (1-2") of sandy clay sand > 15%							
31											
				Silty sand (SM) grayish brown, wet non-plastic fines					60	40	
									75	25	
32									85	15	Clay blobs (like drop stones) obs'd
				Orangish brown mottling							
33											
				Poorly graded sand with silt (SP-SM) wet, grayish brown, non-plastic fines					90	10	
34											

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Geomatrix

BoringLogform 3.xls

PROJECT:

Log of Boring No.

DEPTH (feet)	SAMPLES: Sample No	Sample	Blows/ 6 inches	DESCRIPTION: NAME (USCS Symbol): color, moisture, plasticity, consistency, structure, cementation, reaction with HCl, geologic interpretation.	FIELD-ESTIMATED % Gravel: Coarse	Gravel: Fine	Sand: Coarse	Sand: Medium	Sand: Fine	Fines	REMARKS AND / OR TEST RESULTS
				Poorly graded sand w/ silt (SP-SM) cont.					90	10	Mottling
36				Silty sand (SM) grayish brown, wet, non-plastic fines.					80	15	lenses of sandy clay
37				Sandy clay (CL) Medium plasticity, moist, grayish brown					25	75	lenses of silty sand - wet @ 37
38				Sandy clay / silty sand bedding to 39.25							
39				Sandy clay predominates					15	85	
40											
41									75	25	
42				Silty sand (SM) grayish brown, wet, non-plastic fines					~~80~~	~~20~~	
43				Sandy clay lens 2"					80 / 70	20 / 30	Silt continues clay blobs obs.
44									80	20	grain size collected 43-44
									80	20	
									70	30	

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PROJECT:	Log of Boring No. P-1	
BORING LOCATION:	ELEVATION AND DATUM:	
DRILLING CONTRACTOR:	DATE STARTED:	DATE COMPLETED:
DRILLING METHOD:	TOTAL DEPTH:	MEASURING POINT:
DRILLING EQUIPMENT:	DEPTH TO WATER: FIRST	DEPTH TO FREE WATER ATC:
SAMPLING METHOD:	LOGGED BY:	
BOREHOLE DIAMETER:	HAMMER TYPE/SYSTEM:	

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ 6 inches		DESCRIPTION: NAME (USCS Symbol): color, moisture, plasticity, consistency, structure, cementation, reaction with HCl, geologic interpretation.	FIELD-ESTIMATED % Gravel: Coarse	Gravel: Fine	Sand: Coarse	Sand: Medium	Sand: Fine	Fines	REMARKS AND / OR TEST RESULTS
45					Silty sand (SM) cont.					80	20	
										~~65~~	~~35~~	
										65	35	
46					Clay (CL) soft medium plasticity grayish brown moist				5-10		95	
47												

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