



January 27, 2014

UIC Compliance Coordinator  
Nevada Division of Environmental Protection  
Bureau of Water Pollution Control  
901 South Stewart Street, Suite 4001  
Carson City, NV 89701-5249

**Subject: UIC Permit # UNEV94218 – Third and Fourth Quarters 2013**

Dear UIC Compliance Coordinator:

The Nevada Environmental Response Trust (NERT or the Trust) maintains Underground Injection Control (UIC) Permit #UNEV94218 for groundwater remediation at the NERT site in Henderson, Nevada. Note that injection of stabilized Lake Mead water was suspended as of September 16, 2010, due to soil removal activities surrounding the recharge trenches. This soil excavation is described in the NDEP Bureau of Corrective Actions approved RZ-D Excavation Plan for the Tronox Henderson facility dated July 2010, and was completed in November 2011. Resumption of the injection of stabilized Lake Mead water is under evaluation, but currently injection is not occurring.

Please note that ENVIRON, on behalf of the Trust, submitted a permit renewal application (and associated fees) on March 15, 2013 (at least 180 days prior to permit expiration on September 19, 2013). The Trust has not received a response from the NDEP Bureau of Water Pollution Control (BWPC) regarding renewing the UIC permit.

Pursuant to the permit's Part I.A.4 and Table 1 of Attachment A, collection and analysis of samples of Lake Mead water is required on a quarterly basis. Please note that ENVIRON, on behalf of the Trust, submitted a letter to Mr. Russ Land, NDEP BWPC, on March 18, 2013, requesting relief from the quarterly monitoring requirement for stabilized Lake Mead water while not actively injecting. The request was approved by Mr. Land via e-mail dated April 4, 2013. Therefore, collection and analysis of stabilized Lake Mead water samples was not conducted in third or fourth quarter 2013. Collection and analysis of stabilized Lake Mead water samples will not be conducted unless injection resumes.

In addition, Part I.A.4 and Table 1 of Attachment A of the permit require quarterly groundwater monitoring and collection of groundwater elevations. This information is provided in Attachment 1, together with a monitoring well sample information form. The supporting electronic analytical reports are provided on the CD in Attachment 2. Part I.A.4 Attachment A requires monitoring of the injection and the extraction monthly rate averages. This information is included in Attachment 1. Part I.A.4 Attachment A requires preparation of a potentiometric surface map each quarter. Maps were prepared for both subject quarters, based upon water levels measured in the respective quarters and are included in Attachment 3.

Analysis of total and hexavalent chromium, perchlorate, and total dissolved solids is required in the monitoring wells specified in Table 1 of Attachment A. Well M-84 is listed in Table 1, but has been plugged and abandoned. Analytical data for well M-79 is included in place of M-84; however, hexavalent chromium was not analyzed in well M-79 during 3<sup>rd</sup> or 4<sup>th</sup> quarter 2013. Hexavalent chromium analysis will be performed in 1<sup>st</sup> quarter 2014.

Should you have any questions concerning this report, please contact John Pekala at (602) 734-7710 or [jpekala@environcorp.com](mailto:jpekala@environcorp.com). Thank you.

Sincerely,

A handwritten signature in blue ink, appearing to read "John M. Pekala", with a long horizontal line extending to the right.

John M. Pekala, PG  
Senior Manager  
CEM 2347, exp. 9/20/14

Overnight Mail  
Attachments

cc: Greg Lovato, Bureau of Corrective Actions, NDEP  
James Dotchin, Bureau of Corrective Actions, NDEP  
Weiquan Dong, Bureau of Corrective Actions, NDEP  
Nevada Environmental Response Trust  
Tanya O'Neill, Foley and Lardner LLP  
Todd Webster, Envirogen Technologies, Inc.  
Michael Del Vecchio, Envirogen Technologies, Inc.  
Allan J. DeLorme, ENVIRON International Corporation

UIC Permit UNEV 94218 – 3<sup>rd</sup> and 4<sup>th</sup> Q 2013  
CEM Certification

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.



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John M. Pekala  
CEM 2347, expires 9-20-14

# ATTACHMENT 1

## Groundwater Monitoring

### Analytical Information (Analytical reports included on Attachment 2 CD)



Water Levels 2013  
3rd & 4th Q.pdf

**Water Levels – 3<sup>rd</sup> and 4<sup>th</sup> Quarter 2013**



UIC Analytical - 3rd  
& 4th Q 2013.pdf

**Summary of Monitoring Well Information**



Form U230 -  
Monitoring Wells - 3rc

**Sample Information Form for Monitoring Wells**



Nevada Environmental Response Trust  
Henderson, Nevada Facility

UIC PERMIT UNEY94218 MONITORING WELLS  
QUARTERLY GROUNDWATER ELEVATIONS (feet)

Date	M-25 TOC: 1759.93 DTW	M-38 TOC: 1759.73 DTW	M-80 TOC: 1746.04 DTW	M-79* TOC: 1742.53 DTW	M-86 TOC: 1744.23 DTW	M-95 TOC: 1694.09 DTW	M-96 TOC: 1693.52 DTW	M-98 TOC: 1731.90 DTW	M-99 TOC: 1730.74 DTW	M-100 TOC: 1730.93 DTW	M-102 TOC: 1740.24 DTW
Nov-04	32.63	1727.48	30.79	1728.94	29.68	1716.37	28.16	1714.37	27.34	1716.89	39.18
Feb-05	31.96	1727.97	30.41	1729.32	27.16	1718.89	27.04	1715.49	26.39	1718.84	37.73
May-05	32.73	1727.2	30.77	1728.96	27.62	1718.43	27.73	1714.8	28.73	1715.5	39.44
Aug-05	30.24	1729.69	30.11	1729.62	27.38	1718.67	26.53	1716	26.18	1718.05	36.51
Nov-05	31.09	1728.84	30.28	1729.45	25.51	1720.54	26.10	1716.43	27.98	1716.25	36.14
Feb-06	30.93	1729.00	30.35	1729.38	25.33	1720.72	25.48	1717.05	29.23	1715	36.48
May-06	31.15	1728.78	30.51	1729.22	24.61	1721.44	25.13	1717.4	29.34	1714.89	36.91
Aug-06	32.06	1727.87	31.65	1728.08	24.97	1721.08	26.12	1716.41	29.24	1714.99	36.91
Nov-06	32.18	1727.75	31.01	1728.72	25.84	1720.21	26.09	1716.44	29.89	1714.34	37.33
Feb-07	32.56	1727.37	31.03	1728.7	27.31	1718.74	26.75	1715.78	30.00	1701.9	37.33
May-07	32.97	1726.96	31.13	1728.6	29.06	1716.99	27.59	1714.94	30.11	1701.97	37.66
Aug-07	33.44	1726.49	31.43	1728.3	31.46	1714.59	29.42	1713.11	32.51	1703.19	38.05
Nov-07	33.97	1725.96	31.54	1728.19	31.90	1714.15	30.05	1712.46	34.13	1710.1	40.67
Feb-08	33.82	1726.11	31.52	1728.21	32.92	1713.13	30.63	1711.9	35.19	1709.04	41.99
May-08	33.64	1726.29	31.46	1728.27	24.91	1716.87	25.66	1716.87	32.33	1711.9	42.05
Aug-08	33.68	1726.25	31.37	1728.36	25.15	1720.9	23.45	1719.08	damaged	plugged & abandoned	1698.19
Nov-08	33.61	1726.32	31.30	1728.43	28.35	1717.7	24.96	1717.57	26.50	1716.03	1698.21
Feb-09	33.52	1726.41	31.19	1728.54	31.58	1714.47	28.33	1714.2	28.33	1714.2	1698.21
May-09	33.56	1726.35	31.37	1728.36	28.98	1717.07	26.73	1715.8	29.77	1716.28	1698.21
Aug-09	33.27	1726.66	30.97	1728.76	26.14	1719.91	23.96	1716.57	26.14	1719.91	1698.21
Nov-09	33.28	1726.65	30.94	1728.79	24.31	1721.74	23.00	1719.53	21.94	1720.59	1698.21
Feb-10	32.48	1727.45	30.92	1728.81	32.28	1722.77	21.78	1720.75	30.66	1711.87	1698.21
May-10	32.98	1726.95	31.05	1728.68	33.94	1722.11	21.94	1720.59	30.66	1711.87	1698.21
Aug-10	33.00	1726.93	31.96	1727.77	32.64	1710.21	32.39	1710.14	12.83	1681.86	1698.21
Nov-10	33.41	1726.52	31.28	1728.45	35.52	1710.53	30.66	1711.87	12.83	1681.86	1698.21
Feb-11	33.56	1726.37	31.32	1728.41	35.84	1710.21	32.39	1710.14	12.83	1681.86	1698.21
May-11	33.62	1726.31	31.48	1728.25	35.98	1710.07	31.53	1711	12.83	1681.86	1698.21
Aug-11	33.68	1726.25	31.45	1728.28	36.07	1709.98	31.53	1711	12.83	1681.86	1698.21
Nov-11	33.75	1726.18	31.53	1728.2	36.22	1709.83	31.65	1710.88	12.83	1681.86	1698.21
Feb-12	33.69	1726.24	31.48	1728.25	36.16	1709.89	31.64	1710.89	12.83	1681.86	1698.21
May-12	30.82	1729.11	29.55	1730.18	33.50	1712.55	30.27	1712.26	12.83	1681.86	1698.21
Aug-12	31.12	1728.81	31.14	1728.59	35.56	1710.49	29.25	1713.28	12.83	1681.86	1698.21
Nov-12	30.70	1729.23	29.96	1729.77	35.19	1710.86	28.19	1713.04	12.83	1681.86	1698.21
Feb-13	30.28	1729.65	29.91	1729.82	35.28	1710.76	29.45	1713.36	12.83	1681.86	1698.21
May-13	30.32	1729.61	29.96	1729.77	35.42	1710.62	28.88	1712.65	12.83	1681.86	1698.21
Aug-13											
Nov-13											

Notes: M-82 is plugged and abandoned. \* M-79 replaced M-86 (plugged and abandoned)

UIC Permit UNEV94218 - 3rd and 4th Quarters 2013 - Monitoring Well Analytical Summary

Sample Date	Sample ID	Analyte	Final	Units	MRL/SQL	Units	Method
9/5/2013	M-11	Chromium (total)	2.2	mg/l	0.010	mg/l	E200.7
9/5/2013	M-11	Chromium VI	1,800	ug/l	25	ug/l	E218.6
9/5/2013	M-11	Dissolved Solids (total)	2,400	mg/l	10	mg/l	SM2540C
9/5/2013	M-11	Perchlorate	27,000	ug/l	950	ug/l	E314.0
9/5/2013	M-11	pH	7.91	HF s.u.	0.100	s.u.	SM4500-H+
9/5/2013	M-12A	Chromium (total)	9.0	mg/l	0.010	mg/l	E200.7
9/5/2013	M-12A	Chromium VI	7,700	ug/l	50	ug/l	E218.6
9/5/2013	M-12A	Dissolved Solids (total)	6,400	mg/l	50	mg/l	SM2540C
9/5/2013	M-12A	Perchlorate	170,000	ug/l	9500	ug/l	E314.0
9/5/2013	M-12A	pH	8.01	HF s.u.	0.100	s.u.	SM4500-H+
8/19/2013	M-37	Chromium (total)	0.032	mg/l	0.010	mg/l	E200.7
8/19/2013	M-37	Chromium VI	30	ug/l	0.25	ug/l	E218.6
8/19/2013	M-37	Dissolved Solids (total)	7,500	mg/l	50	mg/l	SM2540C
8/19/2013	M-37	Perchlorate	1,900,000	ug/l	48000	ug/l	E314.0
8/19/2013	M-37	pH	7.41	HF s.u.	0.100	s.u.	SM4500-H+
9/4/2013	M-38	Chromium (total)	19	mg/l	0.010	mg/l	E200.7
9/4/2013	M-38	Chromium VI	19,000	ug/l	250	ug/l	E218.6
9/4/2013	M-38	Dissolved Solids (total)	12,000	mg/l	50	mg/l	SM2540C
9/4/2013	M-38	Perchlorate	990,000	ug/l	48000	ug/l	E314.0
9/4/2013	M-38	pH	7.20	HF s.u.	0.100	s.u.	SM4500-H+
8/21/2013	M-44	Chromium (total)	0.94	mg/l	0.0020	mg/l	E200.7
8/21/2013	M-44	Chromium VI	920	ug/l	2.5	ug/l	E218.6
8/21/2013	M-44	Dissolved Solids (total)	9,100	mg/l	50	mg/l	SM2540C
8/21/2013	M-44	Perchlorate	770,000	ug/l	9500	ug/l	E314.0
8/21/2013	M-44	pH	7.42	HF s.u.	0.100	s.u.	SM4500-H+
8/19/2013	M-79	Chromium (total)	0.36	mg/l	0.010	mg/l	E200.7
8/19/2013	M-79	Dissolved Solids (total)	5,200	mg/l	50	mg/l	SM2540C
8/19/2013	M-79	Perchlorate	430,000	ug/l	9500	ug/l	E314.0
8/19/2013	M-79	pH	7.74	HF s.u.	0.100	s.u.	SM4500-H+
8/20/2013	M-95	Chromium (total)	0.63	mg/l	0.010	mg/l	E200.7
8/20/2013	M-95	Chromium VI	650	ug/l	2.5	ug/l	E218.6
8/20/2013	M-95	Dissolved Solids (total)	6,200	mg/l	50	mg/l	SM2540C
8/20/2013	M-95	Perchlorate	380,000	ug/l	9500	ug/l	E314.0
8/20/2013	M-95	pH	7.76	HF s.u.	0.100	s.u.	SM4500-H+
11/13/2013	M-11	Chromium (total)	1.7	mg/l	0.010	mg/l	E200.7
11/13/2013	M-11	Chromium VI	1,500	ug/l	5.0	ug/l	E218.6
11/13/2013	M-11	Dissolved Solids (total)	2,500	mg/l	10	mg/l	SM2540C
11/13/2013	M-11	Perchlorate	25,000	ug/l	500	ug/l	E314.0
11/13/2013	M-11	pH	7.75	HF s.u.	0.100	s.u.	SM4500-H+
11/13/2013	M-12A	Chromium (total)	8.3	mg/l	0.010	mg/l	E200.7
11/13/2013	M-12A	Chromium VI	8,000	ug/l	25	ug/l	E218.6
11/13/2013	M-12A	Dissolved Solids (total)	6,700	mg/l	50	mg/l	SM2540C
11/13/2013	M-12A	Perchlorate	160,000	ug/l	5000	ug/l	E314.0
11/13/2013	M-12A	pH	7.84	HF s.u.	0.100	s.u.	SM4500-H+
11/12/2013	M-37	Chromium (total)	0.035	mg/l	0.010	mg/l	E200.7
11/12/2013	M-37	Chromium VI	32	ug/l	0.25	ug/l	E218.6
11/12/2013	M-37	Dissolved Solids (total)	6,100	mg/l	50	mg/l	SM2540C
11/12/2013	M-37	Perchlorate	1,300,000	ug/l	25000	ug/l	E314.0
11/12/2013	M-37	pH	6.96	HF s.u.	0.100	s.u.	SM4500-H+
11/14/2013	M-38	Chromium (total)	18	mg/l	0.010	mg/l	E200.7
11/14/2013	M-38	Chromium VI	16,000	ug/l	500	ug/l	E218.6
11/14/2013	M-38	Dissolved Solids (total)	12,000	mg/l	50	mg/l	SM2540C
11/14/2013	M-38	Perchlorate	650,000	ug/l	25000	ug/l	E314.0
11/14/2013	M-38	pH	7.21	HF s.u.	0.100	s.u.	SM4500-H+
11/11/2013	M-44	Chromium (total)	1.2	mg/l	0.010	mg/l	E200.7
11/11/2013	M-44	Chromium VI	910	H ug/l	5.0	ug/l	E218.6
11/11/2013	M-44	Dissolved Solids (total)	9,700	mg/l	50	mg/l	SM2540C
11/11/2013	M-44	Perchlorate	590,000	ug/l	5000	ug/l	E314.0
11/11/2013	M-44	pH	7.26	HF s.u.	0.100	s.u.	SM4500-H+
11/13/2013	M-79	Chromium (total)	0.28	mg/l	0.0020	mg/l	E200.7
11/13/2013	M-79	Dissolved Solids (total)	4,600	mg/l	50	mg/l	SM2540C
11/13/2013	M-79	Perchlorate	390,000	ug/l	5000	ug/l	E314.0
11/13/2013	M-79	pH	7.23	HF s.u.	0.100	s.u.	SM4500-H+
11/11/2013	M-95	Chromium (total)	0.75	mg/l	0.010	mg/l	E200.7
11/11/2013	M-95	Chromium VI	480	ug/l	5.0	ug/l	E218.6
11/11/2013	M-95	Dissolved Solids (total)	6,600	mg/l	50	mg/l	SM2540C
11/11/2013	M-95	Perchlorate	330,000	ug/l	5000	ug/l	E314.0
11/11/2013	M-95	pH	7.35	HF s.u.	0.100	s.u.	SM4500-H+

Notes:

M-36 damaged in July 2013; data for M-38 included instead.  
M-84 plugged and abandoned; data for M-79 included instead.  
M-100 dry since August 2011.

H = Sample was prepped or analyzed beyond the specified holding time  
HF = Field parameter with a holding time of 15 minutes.

## ATTACHMENT A

**UNEV 94218: Monitoring Report Requirements**

The Permittee shall submit **quarterly reports** on a continuous basis, **whether actively injecting or not**, which contain the following data (please check all information included in the attached report):

The UIC permit number and Attachment A.

The results of the chemical analyses as required by Table 1.

**Table 1**

PARAMETER	FREQUENCY	LOCATION	LIMITATIONS
VOCs, Total Perchlorate, and Profile I Analysis	Quarterly	Lake Mead Water at Discharge Pipe Prior to Injection	State and Federal Drinking Water Standards. Injectate must not degrade the Groundwater Quality
Total and Hexavalent Chromium	Quarterly	M-11, M-12A, M-36, M-37, M-44, M-84, M- 95, and M-100	Monitor and Report
Total Perchlorate, Including NaClO <sub>4</sub> and NH <sub>4</sub> ClO <sub>4</sub>	Quarterly	M-11, M-12A, M-36, M-37, M-44, M-84, M- 95, and M-100	Monitor and Report
TDS	Quarterly	M-11, M-12A, M-36, M-37, M-44, M-84, M- 95, and M-100	Monitor and Report
Injection Rate into Injection trenches and Total Volume injected	Continuously	Discharge Pipe Prior to Injection	100 gpm monthly average. Must be equivalent or less than total extraction rate and volume
Extraction Rate and Total Volume extracted	Continuously	Extraction Wells located Upgradient of Injection Trenches	Cumulative extraction rate must be equivalent or greater than injection rate and volume
Groundwater Elevation and Depth	Quarterly	M-25, M-38, M-80, M-82, M-86, M-95, M-96, M-98, M-99, M-100, and M-102	Monitor and Report

For each month in the reporting period document injection rate (gpm), volume, date, and time injected of Lake Mead water into two injection trenches.

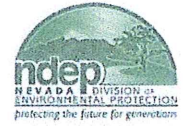
Water level, contour map illustrating groundwater gradient and flow direction.

Summary narrative report of monitoring activities for that reporting period. The report shall include, but not be limited to, any problems encountered with the injection system, the results of any tests performed during that period, and any changes noted to the groundwater. If no injection has occurred, report the non-injection status and the reason the system is not in operation.





**Nevada Division of Environmental Protection  
Bureau of Water Pollution Control  
Underground Injection Control Program  
901 S. Stewart St Ste 4001  
Carson City Nevada 89701  
Ph: 775-687-9418 Fx: 775-687-4684**



## UIC Form U230 – Field Sampling & Monitoring Summary

**This form is to be completed in the field for all UIC water samples to document the sampling location facts and events, and submitted with the sample results.**

**Sample Date:** (mm/dd/yy) 08/19/13 to 09/05/13 and 11/11/13 to 11/13/13

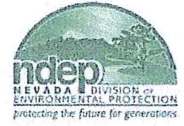
**Complete All Applicable Blanks – Water samples can be rejected if information not provided.**

FACILITY AND PERMIT INFORMATION	
Well Name & No.: M-11, M-12A, M-38 (replacement for M-36), M-37, M-44, M-79 (replacement for M-84), M-95, (M-100 dry)	UIC Permit No.: UNEV94218
Is there any well name or identification at the wellhead?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO      If no, label should be placed on or near wellhead
Project/Facility Name: Perchlorate Remediation – Nevada Environmental Response Trust, Henderson, NV	
Well Location (Section/TR or Lat/Long) : Section 12 T22S – R62E	
City/Valley: Henderson, NV	County: Clark
Sample for (circle one): NEW WELL <u>ROUTINE REPORTING</u> Other: _____	
Reporting Frequency: <input checked="" type="checkbox"/> Semi-annually <input type="checkbox"/> Annually <input type="checkbox"/> Other _____	
SAMPLE LOCATION or WELL INFORMATION	
Well / Location Type:	Water/Domestic Well <u>Monitoring</u> Geo-Prod    Geo-Injection    Geo-Observation    Discharge Pipe Oil Water Separator    Holding Tank    Pond    Septic Tank    Other: _____
(Note: If sample location is not a well (e.g. spring, pond, pipeline, tank), please provide all relevant data on sample location in the space below) <b>Non-well location:</b>	
Completion date of well/tank: 1983 to 1995	
Diameter of casing: 2 to 5 inch	Type of Casing: <u>Steel</u> <u>PVC</u> Other: _____
Total depth of well: 27 to 60 feet below ground surface (bgs)	
Bottom depth of cement for last cemented casing string: NA	
Screened or open hole interval (top/bottom depths): shallowest = 5 to 35 feet bgs; deepest = 40 to 50 feet bgs	
STATUS OF WELL / SAMPLE LOCATION	
Condition or Activity of well during past week/month, prior to sampling: operating normally except wells M-36 (damaged) and M-84 (plugged and abandoned)	
Discuss any field conditions the Division should be aware of with regard to this sample: Quarterly samples were taken during normal operations	
Was the well secured upon arrival?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Was there any problems or damage to the well upon arrival	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO, except at M-36
Was well in an artesian condition prior to sampling? :	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
WATER LEVEL – WELL GAUGING	
Last date well/sample location (e.g. tank) gauged (mm/dd/yy) : Q3: 9/5 – 9/16/13; Q4: 11/13 – 12/9/13	Depth to water - last event: See below.
Method used to gauge well/location? :	Cap Tube <u>Tape Measure</u> Other: _____
Measured Water Level :	Q3 DTW: M-11 = 42.29', M-12A = 40.09', M-37 = 29.82', M-38 = 29.89', M-44 = 23.53' , M-79 = 29.42', M-95 = 16.42', M-100 = dry Q4 DTW: M-11 = 42.44', M-12A = 40.82', M-37 = 30.27', M-38 = 30.02' , M-44 = 23.69' , M-79 = 29.92', M-95 = 16.45', M-100 = dry





**Nevada Division of Environmental Protection**  
**Bureau of Water Pollution Control**  
**Underground Injection Control Program**  
 901 S. Stewart St Ste 4001  
 Carson City Nevada 89701  
 Ph: 775-687-9418 Fx: 775-687-4684



**UIC Form U230 – Field Sampling & Monitoring Summary**

SAMPLING INFORMATION			
Date sample collected (mm/dd/yy) :	Q3 = 08/19/13 to 09/05/13; Q4 = 11/11/13 to 11/13/13	Time Sampled :	Daylight hours
Name of Sampler :	Envirogen Technologies, Inc.		
Location sample taken (be specific) "sample port in pipeline 10 feet from wellhead" :	Monitoring well head		
Type of Sample (circle one) :	<input checked="" type="radio"/> Grab <input type="radio"/> Composite    other (specify):		
Collection method (circle one) :	well bailed <input checked="" type="radio"/> water pumped    artesian flow    air/gas lift		
Collection method/ non-well Describe how sample was taken:			
How much fluid (gallons or well volumes) was discharged / purged before collecting sample? :	~ three casing volumes		
<b>Filtering Note:</b> UIC requirements specify water samples shall not be filtered, unless previously approved. If filtration is approved, sample shall be filtered with a 1.0 micron filter, not 0.45 micron. If approved, document date of approval: _____			
Was the sample filtered? :	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO    Perchlorate samples analyzed by EPA Method 314.0 are sterile filtered, per NDEP request; other samples not filtered		
Was conductivity measured during discharge to establish stabilized conditions?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
Was decontamination procedures (reference O & M?) followed during sampling of multiple wells	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO    NA		
<b>FIELD MEASUREMENTS</b> See attached table			
pH : S. Conductivity : Temperature :			
What UIC Sample List is required:	UIC List 1	UIC List 2	UIC List 3    Other**: Cr, Cr +6, perchlorate, TDS
** Other constituent listed must have prior UIC approval before using			
Were any holding times exceeded? pH, Cr +6	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
In Final sample documentation, ensure all results are reported with appropriate units. If measurements are below detection limits, indicate detection limit value. <b>DO NOT REPORT VALUES AS NON-DETECT OR ND, INSTEAD REPORT as &lt;(Detection Limit Value)&gt;</b>			
FORM PREPARATION			
Project Manager: John Pekala			
Company: ENVIRON International Corp.			
Telephone No.: 602-734-7710	eMail Address: jpekala@environcorp.com		
Signature:	Date: 1/27/14		
Qualified Sample Person: Michele Brown			
Company: Envirogen Technologies, Inc.			
Telephone No.: 702-467-6299	eMail Address: mbrown2@envirogen.com		
Signature:	Date: 1-15-14		

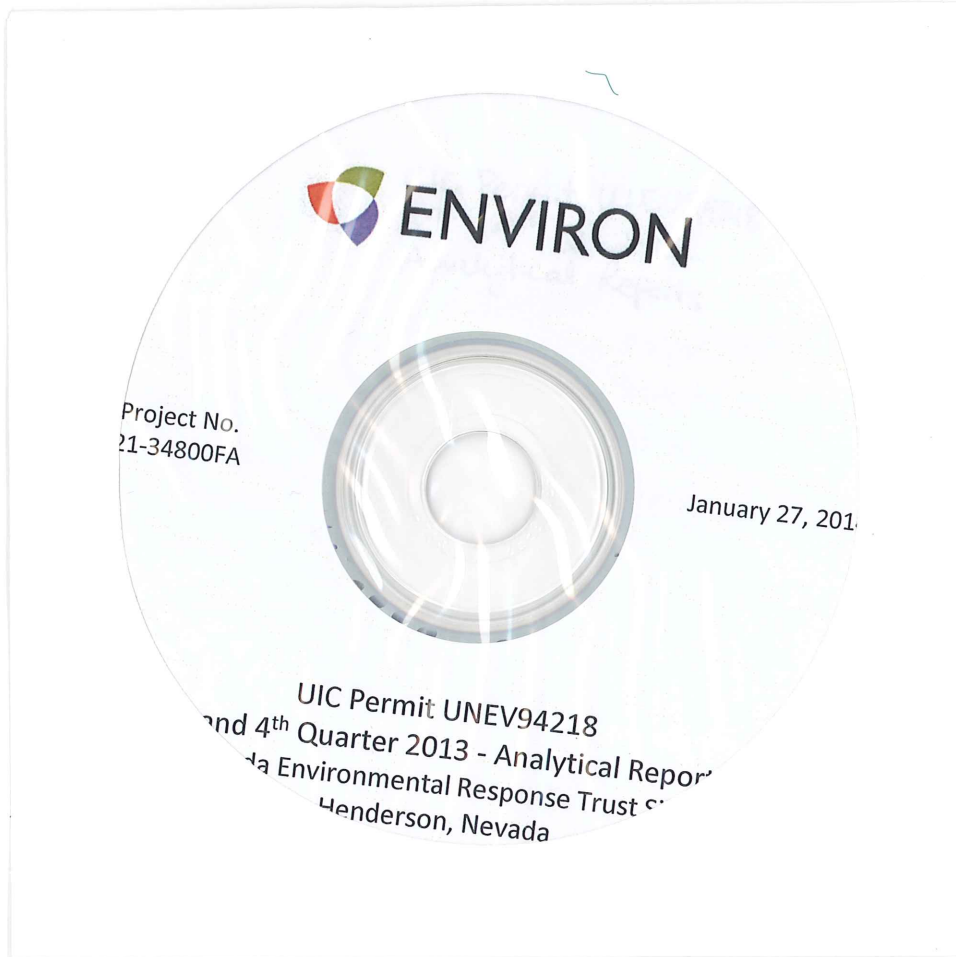
**Nevada Environmental Response Trust  
Henderson, Nevada Facility**

**UIC PERMIT UNEV94218  
EXTRACTION AND INJECTION RATES (gpm)**

MONTH	EXTRACTION RATE	INJECTION RATE		
	from Interceptor Well Field (IWF)	(gpm)		
	(gpm)	Monthly Average	Daily High	Daily Low
July 2013	66.2	0	0	0
August 2013	65.6	0	0	0
September 2013	66.7	0	0	0
October 2013	66.7	0	0	0
November 2013	66.2	0	0	0
December 2013	71.3	0	0	0



## ATTACHMENT 2



### Supporting Electronic Analytical Reports UIC Permit UNEV 94218 Report – 3<sup>rd</sup> and 4<sup>th</sup> Q 2013

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein, exceptions and corresponding justifications are provided below.

John M. Pekala, CEM 2347 exp 9-20-14

1/27/2014

Date

## ATTACHMENT 3

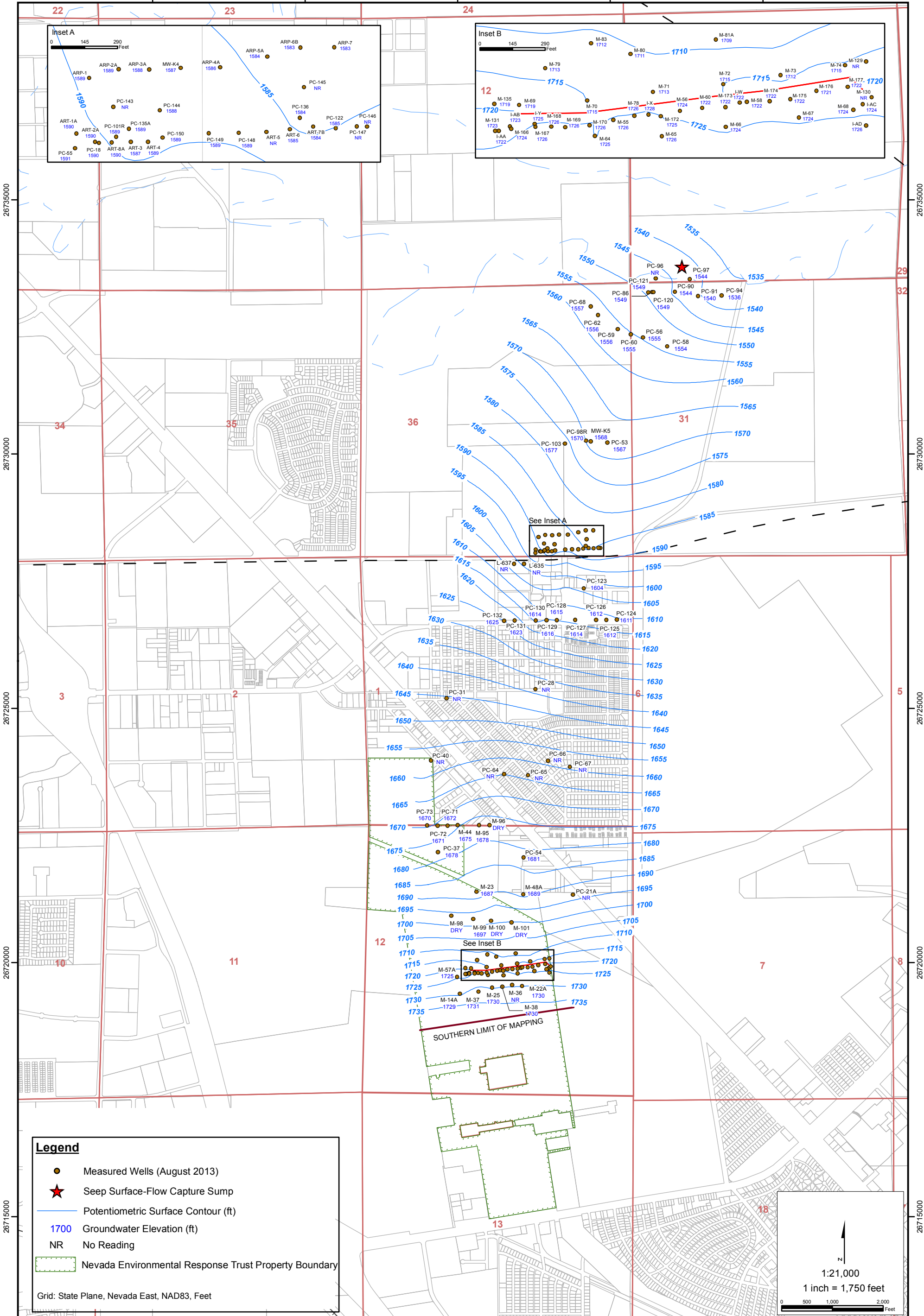
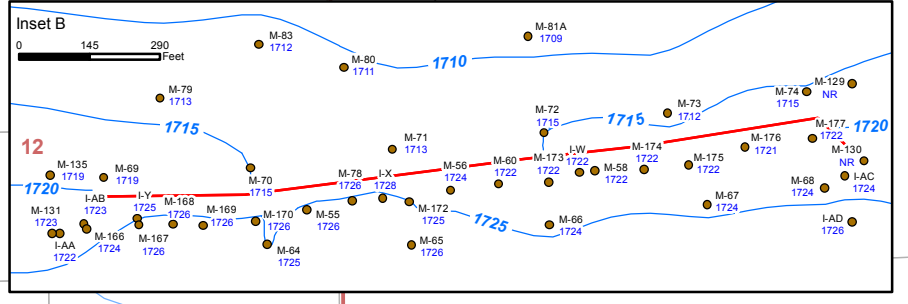
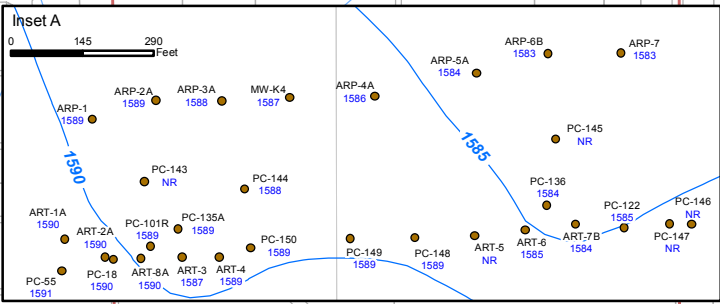


2013Q3 UIC Permit  
Pot Surf Map Alluvium



2013Q4 UIC Permit  
Pot Surf Map Alluvium

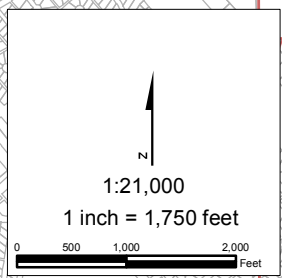
### Potentiometric Surface Maps



**Legend**

- Measured Wells (August 2013)
- ★ Seep Surface-Flow Capture Sump
- Potentiometric Surface Contour (ft)
- 1700 Groundwater Elevation (ft)
- NR No Reading
- ▭ Nevada Environmental Response Trust Property Boundary

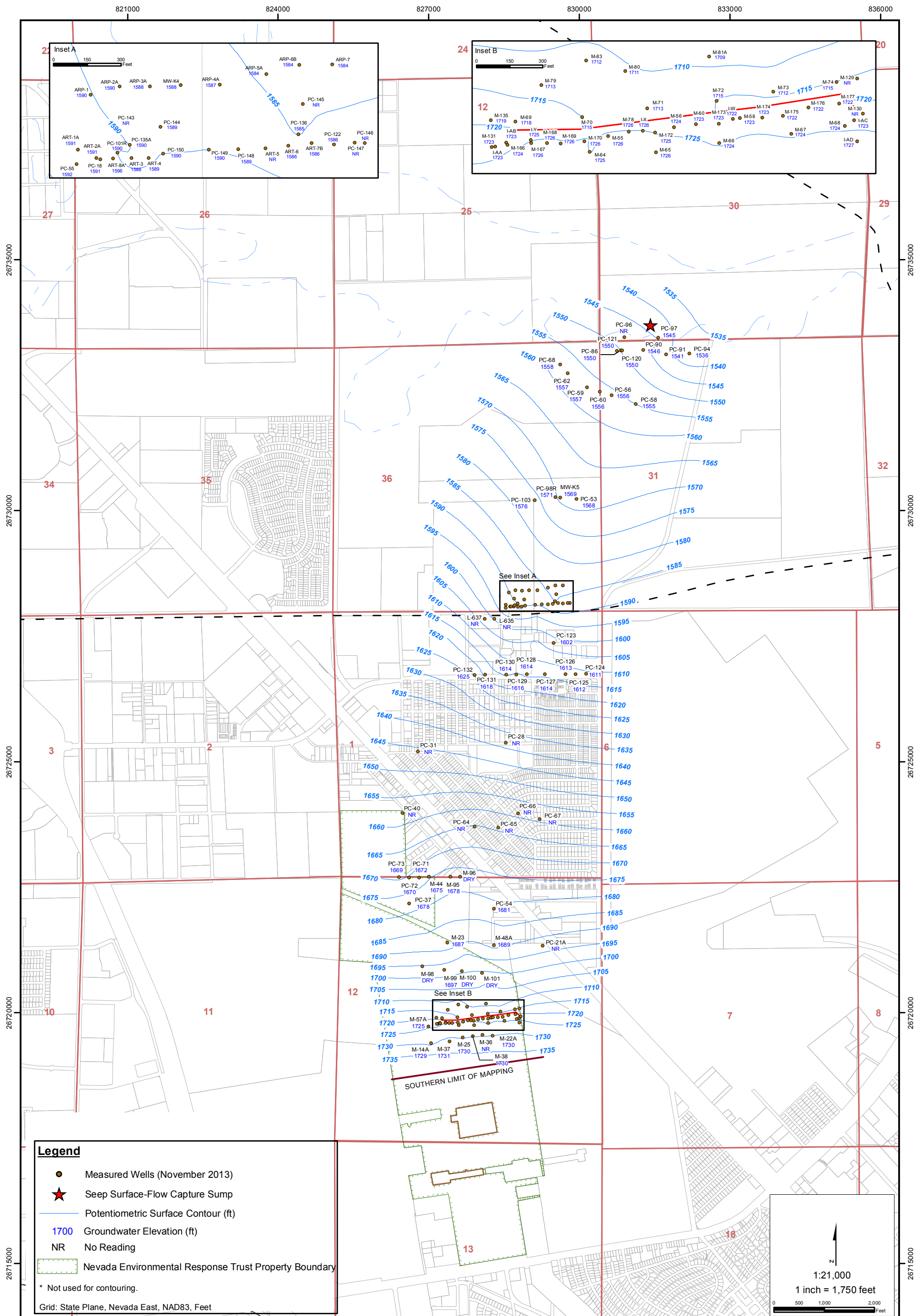
Grid: State Plane, Nevada East, NAD83, Feet



**POTENTIOMETRIC SURFACE MAP- QUARternary ALLUVIUM AQUIFER (THIRD QUARTER 2013)**  
 UIC Permit #UNEV94218 Report  
 Nevada Environmental Response Trust (NERT)  
 Henderson, Nevada

Figure  
**1**

Drafter: AS      Date: 1/27/2014      Contract Number: 21-32100FA      Approved by:      Revised: AS



**Legend**

- Measured Wells (November 2013)
- ★ Seep Surface-Flow Capture Sump
- Potentiometric Surface Contour (ft)
- 1700 Groundwater Elevation (ft)
- NR No Reading
- ▭ Nevada Environmental Response Trust Property Boundary

\* Not used for contouring.

Grid: State Plane, Nevada East, NAD83, Feet

**POTENTIOMETRIC SURFACE MAP- QUARTERNARY ALLUVIUM AQUIFER (FOURTH QUARTER 2013)**  
 UIC Permit #UNEV94218 Report  
 Nevada Environmental Response Trust (NERT)  
 Henderson, Nevada

Figure  
**2**

Drafter: AS      Date: 12/5/2013      Contract Number: 21-32100FA      Approved by:      Revised: AS