

Pawnee Station Inactive CCR Impoundments
Notification of Completion of Physical Closure by CCR Removal

Consistent with 40 CFR § 257.102(h) of the Coal Combustion Residuals (CCR) Rule, PSCo is providing this notification that it has completed physical closure of CCR impoundments by removal of CCR.

Public Service Company of Colorado (PSCo), an Xcel Energy Company, owns and operates Pawnee Station, a coal-fired, steam turbine electric generating station. Between 1980 and 2005, PSCo operated two on-site CCR impoundments, the Bottom Ash Storage Pond (BASP) and the Ash Water Recovery Pond (AWRP). The impoundments were used for management of ash sluice water and temporary storage of bottom ash generated at Pawnee Station, prior to beneficial use or final disposal of in an on-site landfill. Both ponds were constructed with a synthetic liner placed over two feet of compacted clay. Pawnee Station converted to dry handling of bottom ash, and these two impoundments were removed from service in 2005. Both impoundments ceased receiving CCR prior to the corrected effective date of the CCR Rule, October 19, 2015, and therefore met the definition of Inactive CCR Surface Impoundments subject to Closure and Post-Closure Care requirements under §257.100.

Pursuant to section 40 CFR 257.100(c)(1), PSCo prepared a Notification of Intent to initiate closure and placed it into the operating record, posted to Pawnee Station's CCR Website, and notified the state as required by 257.105, 257.106 and 257.107. Per section 257.102(c), PSCo has completed physical removal of the CCR and decontamination of all areas affective by releases from the CCR units, except for ongoing groundwater corrective action, including removal of the CCR and the synthetic liner for landfilling and decontaminated the secondary clay liner in the impoundments. Physical closure of the impoundments was initiated October 6, 2016 and was completed within five years, on April 10, 2017 pursuant to 257.102(f)(ii). Physical closure of the impoundments was completed with oversight by a Qualified Professional Engineer. The physical closure activities and demonstration that constituent concentrations throughout the CCR unit and any areas affected by releases from the CCR unit have been removed are documented in the attached August 2017 CCR Removal Certification. The certification excludes verification that groundwater monitoring concentrations do not exceed the groundwater protection standards established pursuant to 257.95(h) for the constituents listed in Appendix IV of 40 CFR 257. Accordingly, all physical closure and removal were completed, and all decontamination also has been completed, except for completion of groundwater corrective actions. Ongoing groundwater corrective action to meet groundwater protection standards will continue.

August 24, 2017

Xcel Energy
Ms. Jennifer McCarter
1800 Larimer St. Suite 400
Denver, CO 80202

**RE: Xcel Energy Pawnee Station
Bottom Ash Storage Pond and Ash Water Recovery Pond CCR Removal
Certification**

Dear Ms. McCarter,

Xcel Energy contracted HDR Engineering, Inc. to provide oversight and engineer certification of removal of coal combustion residuals (CCR) from the Bottom Ash Storage Pond and Ash Water Recovery Pond (ponds) at the Pawnee Generating Station (Pawnee) under 40 CFR 257 (the CCR Rule). Pursuant to section 257.100(c)(1) of the rule, on December 15, 2015, Public Service Company of Colorado (PSCo), an Xcel Energy Company, posted to its CCR Operating Record a Notification of Intent to Initiate Closure of these inactive ponds through removal of CCR (clean closure option).

GENERAL INFORMATION

Pawnee Station (Site) consists of a 505 megawatt (MW) steam electric generating facility designed to burn Powder River Basin coal located approximately 2.5 miles southwest of the Town of Brush in unincorporated Morgan County, Colorado. The Bottom Ash Storage Pond and Ash Water Recovery Pond are both inactive impoundments as defined in the CCR Rule.

The Bottom Ash Storage Pond was constructed in 1980 and was taken out of service in 2005. Historically, the storage pond accepted influent water that contained sluiced bottom ash from the boiler and cooling water blowdown. Effluent water was sent to the Ash Water Recovery Pond. The Ash Water Recovery Pond was also constructed in 1980 and was taken out of service in 2005. Historically, the recovery pond accepted influent water from the bottom ash pond and effluent water was recirculated to sluice bottom ash from the boiler. Both ponds were lined with a synthetic liner over 2 feet of clay.

The CCR Rule Section 257.102 (c) describes 'closure through removal of CCR' as:

1. Removing and decontaminating all areas affected by releases from the CCR unit;
2. Removal and decontamination are complete when constituent concentrations throughout the CCR unit and any areas affected by releases from the CCR unit have been removed; and
3. Groundwater monitoring concentrations do not exceed the groundwater protection standard established pursuant to Section 257.95(h).

PSCo initiated and completed the physical closure by excavation of ash, the geomembrane liner and visibly impacted clay from the ponds, item 1 above, and performed the soil confirmation sampling of the remaining clay and analytical testing to verify complete removal of areas affected by CCR (clean closure), item 2 above.

PROJECT APPROACH

Establishment of Background Threshold Values

The clay under the synthetic liners at both Bottom Ash Storage and Ash Water Recovery ponds were proposed to remain in place after clean closure. Therefore, the clay was the uppermost soil material under the facility that would be sampled to demonstrate that all waste material was removed. Because the clay material was sourced from off site in 1980, the original source was unavailable for sampling and analysis to determine background concentrations. Therefore, an alternative approach was developed to establish background concentrations for the clay.

Eight locations around the crest of the two ponds were identified as unimpacted locations where clay samples could be collected to represent unimpacted, background clay soil. These locations were well above the pond high water levels, near the liner trench, not in contact with the CCR waste in the ponds, and hydraulically upgradient of the CCR waste. Eight clay samples were collected and analyzed to establish background concentrations of the constituents of interest (COIs). A list of COIs was proposed by Xcel and agreed upon by Colorado Department of Public Health and Environment (CDPHE) upon approval of the Background Soil Sampling Plan (November 10, 2016) for Xcel's compliance with State Waste regulations (Table 1). The list of COIs approved by the CDPHE included all of the CCR Rule Appendix III and IV metals, plus several additional metals. For compliance with the CCR Rule, Radium 226 and 228 were added to the COI list agreed upon by CDPHE.

HDR completed a statistical analysis of the background clay sample results to calculate reference background concentration levels reflective of the naturally occurring variation in each COI. For the purpose of this report, the reference background concentration levels are referred to as background threshold values (BTVs). The statistical method used to produce the BTVs for each COI is the upper tolerance limit (UTL). As recommended by the EPA Unified Guidance, HDR has selected the 95 percent upper tolerance limits (UTL95) to establish the BTVs for each of the COIs in the clay. The summary of the background sampling and results of the background sampling and BTVs calculations are available under separate cover. The clay BTVs are provided in Table 3.

Determination of Confirmation Sampling Size and Spatial Distribution

EPA's ProUCL software was used to calculate an appropriate minimum number of confirmatory samples to be collected that would estimate the mean for each COI of the clay. The equation requires several assumptions about the data expected. The following assumptions were used:

- Normal distribution and an alpha of 0.05.

- Standard deviation was calculated for each COI of the site specific background clay sample results.
- Margin of error (Δ) is similar to a +/- of mean value. This value represents an acceptable error. The margin of error was assumed to be the difference between the estimated mean (assumed using background clay concentrations) and the EPA's 2016 Risk Based Residential Soil Screening Level for each COI.

The minimum number of confirmatory soil samples that needed to be collected was calculated for each of the COIs. Thus a range of sample sizes was calculated due to the number of COIs. Using 1.5 standard deviation of the clay samples concentrations, a range of the minimum number of samples to be collected was calculated between 2 and 26. To provide a comparison, the minimum number of samples to be collected was also calculated using the data from the site background soils (dune sands and sandy silts rather than the background clay). The minimum number of samples to be collected using the site background soils data was compared to the minimum number based on the clay data. To be conservative, the higher of the two numbers of samples was selected. The calculations resulted in a minimum sample size of 26 to be collected from the CCR unit (both the Bottom Ash Storage and Ash Water Recovery ponds).

The Bottom Ash and Ash Water Recover ponds are approximately 13 acres and 1 acre in size, respectively, for a total area of 14 acres. The Ash Water Recovery Pond represents 7 percent of the total area (14 acres) to be clean closed. For the number of samples collected from each pond to be reflective of each pond's total area, 2 samples (7 percent of the 26 total samples to be collected) need to be collected from the Ash Water Recovery Pond and 24 samples from the Bottom Ash Pond. However, to be conservative, Xcel Energy increased the number of samples to be collected from the Ash Water Recover Pond to 5. Therefore, the minimum number of samples calculated as needing to be collected from each pond was 24 from the Bottom Ash Storage and 5 from the Ash Water Recovery pond. As described later, additional samples were collected during sampling in the field, for a total of 26 samples from the Bottom Ash Pond and 5 samples from the Ash Water Recovery Pond. The sample locations for the two ponds were generated using the ESRI GIS random sample generator toolbox. The area of the ponds over which the random sample locations would be distributed was defined as the pond bottoms and half-way up the pond walls to reflect typical pond volume.

Determination of Clean Closure Criteria

After laboratory analysis of the confirmatory samples, a statistical analysis of the confirmatory clay sample results was completed. As recommended by the EPA Unified Guidance, the 95 percent upper confidence limit (UCL95) was calculated for each COI, therefore, establishing one concentration value for each COI to be compared against screening values.

The CCR Rule 40 CFR 257.102 (c) does not define criteria to demonstrate that remaining soil is clean after removal of CCR. Therefore, multiple criteria (screening values) were used for redundant confirmation of clean closure. First, the confirmatory clay concentration (UCL95) for each COI was compared to the 2016 EPA Regional Screening Levels (RSL)

(Table 2; EPA, 2016). Although the site is zoned heavy industrial, to be conservative the EPA RSLs for residential exposure scenarios were used as screening levels to determine whether constituent concentrations in clay confirmation samples warrant further investigation or cleanup. The target hazard quotient (THQ) of 0.1 was used (rather than 1.0) based on the EPA guidance to use THQ=0.1 when looking at multiple COIs. Second, the confirmatory clay concentration (UCL95) for each COI was compared to the clay BTV for each COI. Third, the EPA does not have RBSLs for radionuclides; however the EPA has Preliminary Remediation Goals (PRGs) for Radium 226 and 228 for both residential soils and worker composite soils (EPA, 2014). The PRGs for radium in residential soils are lower than certified laboratory reporting limits; therefore, the composite worker PRG is used for confirmatory soil screening (Table 4).

Evaluation of confirmation sample results to determine whether clean closure was achieved was made in a sequential approach using both regulatory criteria and the site specific BTVs.

- If the confirmatory clay concentration (UCL95) for each COI was equal to or lower than the EPA RSLs (and PRG for radium), then no further action was required.
- If the confirmatory clay concentration (UCL95) exceeded the respective EPA RSLs (PRG for radium) for any COI, the confirmatory concentration (UCL95) for the exceeded COIs were compared to site specific BTV. If the confirmatory concentration for those COIs were equal to or lower than the BTV, then no further action was required.
- If there were exceedances of the EPA RSL (PRG) and the BTV, then further investigation and potentially additional clay excavation would have been required.

The description of pond cleanout, confirmatory soil sampling and screening for each pond is provided below.

POND EXCAVATION AND CONFIRMATION SAMPLE COLLECTION

Excavation of source material from the Bottom Ash Storage and Ash Water Recovery ponds at Pawnee Station was completed between October 6th, 2016 – March 31st, 2017 and March 31st, 2017 – April 10th, 2017, respectively.

The ponds were excavated and all solid waste source material, including the synthetic liners and potentially impacted clay, was removed, leaving the underlying presumed clean clay exposed. Inspections verifying removal were completed by a Colorado registered Professional Engineer. Approximately 190,000 cubic yards of waste material combined was excavated from both ponds using an excavator. No groundwater was encountered during excavation. The visible source material was removed, transported, and disposed on-site in the North CCR Landfill. Synthetic liner material was hauled off-site to an approved disposal location. After the excavation was deemed complete by a visual inspection, confirmatory samples were collected from the clay at the bottom and sides of the ponds for comparison to clean closure criteria. As described above, the minimum number of soil samples to be collected and sample distribution

had been calculated ahead of time. In the field, 26 samples were collected from the Bottom Ash Storage Pond and 5 samples were collected from the Ash Water Recovery Pond. The two additional samples from the Bottom Ash Storage Pond were collected to evaluate whether natural variations in the clay color still met the clean closure criteria. Figure 1 provides the locations of the soil samples. Soil was collected at each location beginning from 2 inches below the surface, and up to 12 inches below the surface to obtain sufficient sample volume. Samples were stored in glass jars, and two jars were collected from each sample location for delivery to two different laboratories for respective analyses. The soil samples were collected by hand utilizing nitrile gloves and plastic trowels, and identified as BAP-# and ARP-# (Figure 1).

The samples were delivered under chain of custody documentation to Test America Laboratories, Inc. in Denver, Colorado for inorganic analysis via EPA Method 6010C with the exception of thallium which was analyzed via EPA Method 6020 in order to achieve the necessary detection limit. Soil samples were also delivered to ALS Laboratory in Ft Collins, Colorado for analysis of Radium 226 by Method 903.1 and Radium 228 by Gamma. Results of the confirmatory soil sample analyses are provided in Tables 1 and 2 and the laboratory reports are attached (Attachment 1).

DISCUSSION OF RESULTS

As previously discussed, per the EPA Unified Guidance, a single concentration was statistically calculated for each COI from the entire confirmatory soil sample set (all 31 samples) using an Upper Confidence Limit of 95%. Therefore, there is one concentration value for each COI for the confirmatory set of samples for comparison against screening levels (Tables 3 and 4). Results are summarized below following the approach outlined above for sequential evaluation of results against multiple criteria.

- The UCL95 concentration for each COI was less than the EPA Residential RSLs and radium PRGs, except for arsenic, cobalt and thallium.
- Therefore, the UCL95 concentration for arsenic, cobalt and thallium was then compared to the calculated BTV. The concentration of each of these COIs was below the respective BTVs.
 - o Arsenic UCL95 concentration 5.5 (mg/kg) below the arsenic BTV of 6.35 mg/kg
 - o Cobalt UCL95 concentration 5.6 mg/kg below the arsenic BTV of 8.17 mg/kg
 - o Thallium UCL95 concentration 0.14 mg/kg equal to thallium BTV of 0.14 mg/kg

The sample analytics do not indicate the presence of CCR impacted soils. Due to the visibly clean excavation and analytical results below the established clean closure criteria, removal of CCR from the Bottom Ash and Ash Water Recovery ponds at Pawnee Station have met the criteria in Section 257.102(c) for removal of CCR and potentially impacted soil (items 1 and 2 in the CCR closure list described above).

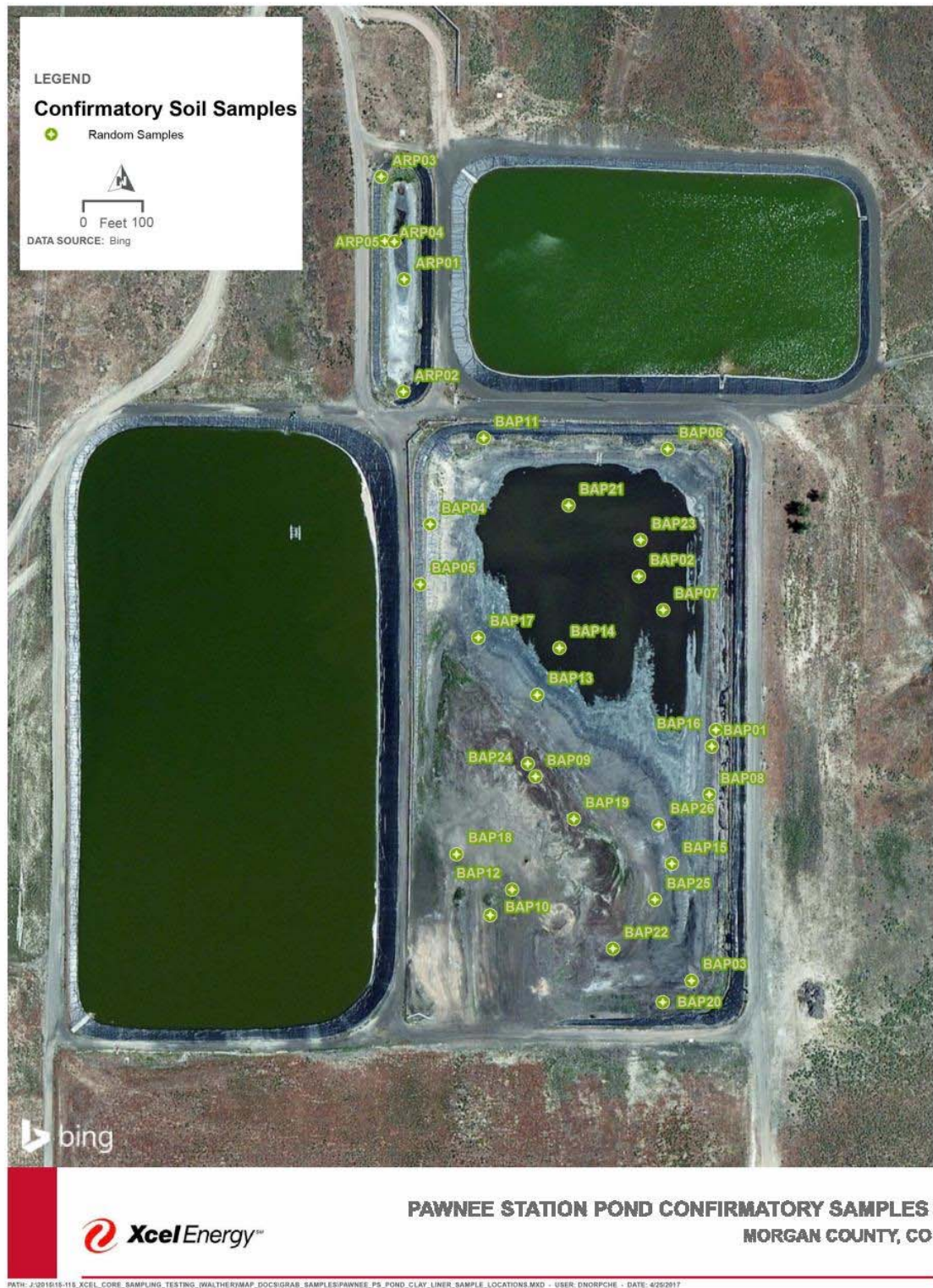


Figure 1. Confirmatory Soil Sample Locations.

Table 1. Confirmatory Soil Sample Concentrations			Constituent																					
Sample I.D.			Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium (III)	Chromium Total	Chromium (VI)	Cobalt	Copper	Fluoride	Lead	Lithium	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Pawnee Bottom Ash and Ash Water Recovery Ponds Soil Confirmatory Sample Lab Result (mg/kg)	ARP01	Clay	ND	4.7	63	0.53	3.4	0.37	12	12	0.21	5	9.2	1.7	9.8	13	0.03	0.31	12	0.33	ND	0.13	17	46
	ARP02	Clay	ND	4.9	69	0.6	4	0.49	15	15	0.26	6.5	9.3	1.8	11	16	0.015	0.28	15	ND	ND	0.13	20	52
	ARP03	Clay	ND	4.5	72	0.53	10	0.36	12	12	0.31	4.9	8	2.6	9.2	13	0.04	0.5	11	0.56	ND	0.11	19	42
	ARP04	Clay	ND	4.6	56	0.53	4.2	0.39	12	12	0.44	5.4	8.2	2.4	9.6	14	0.045	0.33	13	0.26	ND	0.13	18	45
	ARP05	Clay	ND	4.8	64	0.54	5.4	0.41	13	13	0.26	5.6	8.8	2.2	9.4	15	0.088	0.34	13	0.26	ND	0.13	19	47
	BAP01	Clay	ND	5.8	54	0.66	6.3	0.17	16	16	0.2	5.6	11	4.8	11	14	0.029	ND	14	ND	ND	0.13	23	54
	BAP02	Clay	ND	4.7	52	0.45	5.1	0.37	12	12	0.15	4.8	9.2	2.7	11	13	0.047	0.36	13	0.68	ND	0.12	17	48
	BAP03	Clay	ND	6.8	43	0.64	6.4	0.15	16	16	0.25	6.5	9.4	7.4	10	15	0.029	ND	13	ND	ND	0.13	22	51
	BAP04	Clay	ND	4	45	0.43	4.3	0.37	13	13	0.28	5	6.8	2.8	8.5	14	0.028	0.22	12	0.54	ND	0.1	18	42
	BAP05	Clay	ND	5.1	41	0.43	4.2	0.34	11	11	0.27	4.7	7.4	1.8	9.2	13	0.026	0.32	11	0.55	ND	0.11	20	41
	BAP06	Clay	ND	5.1	43	0.63	7.4	0.18	14	14	0.31	5.1	11	5.6	13	16	0.033	ND	14	ND	ND	0.15	17	52
	BAP07	Clay	ND	4.4	37	0.59	4.7	0.16	13	13	0.44	5.1	11	5.6	11	15	0.022	ND	11	ND	ND	0.14	16	49
	BAP08	Clay	ND	5.9	63	0.68	7.4	0.17	16	16	0.15	5.8	11	7.5	11	15	0.026	ND	14	ND	ND	0.18	22	51
	BAP09	Clay	ND	6.3	50	0.61	5.3	0.17	14	15	0.15	5.3	9.6	6.5	10	15	0.031	ND	13	ND	ND	0.13	18	46
	BAP10	Clay	ND	5.1	55	0.63	5.4	0.18	15	15	0.21	5.3	9.3	6.3	10	15	0.026	ND	13	ND	ND	0.14	20	50
	BAP11	Clay	ND	5.6	52	0.59	18	0.56	15	15	0.25	7.9	11	1.7	13	21	0.034	0.45	16	0.77	ND	0.15	21	60
	BAP12	Clay	ND	5.4	65	0.55	6.1	0.13	13	13	0.2	4.8	7.9	5.9	8.7	13	0.017	ND	11	ND	ND	0.13	18	42
	BAP13	Clay	ND	5.7	59	0.66	6.1	0.19	16	16	0.24	5.4	11	6.4	12	15	0.034	ND	14	ND	ND	0.14	21	53
	BAP14	Clay	ND	4.7	58	0.65	5.6	0.16	15	15	0.25	5.6	11	12	12	15	0.029	ND	14	ND	ND	0.15	20	54
	BAP15	Clay	ND	5.5	61	0.64	7.2	0.14	15	15	0.15	5.7	10	5.3	10	15	0.034	ND	14	1.4	ND	0.13	20	51
	BAP16	Clay	ND	5.7	57	0.57	4.9	0.14	14	15	0.7	5.3	8.4	6	9.1	15	0.024	ND	12	ND	ND	0.11	19	47
	BAP17	Clay	0.75	5.1	54	0.61	5	0.16	14	15	0.24	5.2	10	7.1	11	14	0.025	ND	13	ND	ND	0.14	18	50
	BAP18	Clay	ND	4.8	100	0.7	11	0.16	16	16	0.26	6.5	12	12	11	15	0.03	ND	15	ND	ND	0.15	23	53
	BAP19	Clay	ND	5.3	49	0.66	6.1	0.17	16	16	0.25	6.5	10	5	11	15	0.037	ND	14	ND	ND	0.14	21	49
	BAP20	Clay	ND	13		1.4		0.6	36	36	ND	6.8		11	7.1		0.064		25	ND	ND	0.16		
	BAP21	Clay	ND	4.7	52	0.56	4.4	0.4	13	13	0.2	5.3	9.5	1.1	10	14	0.038	0.27	13	0.75	ND	0.13	18	47
	BAP22	Clay	ND	5.2	52	0.65	6.8	0.16	16	16	0.31	5.5	9.6	5.6	10	14	0.029	ND	13	ND	ND	0.14	22	50
	BAP23	Clay	ND	5.5	77	0.57	3.7	0.4	12	12	0.15	5.5	9.6	1.6	11	14	0.041	0.35	13	0.38	ND	0.12	18	50
	BAP24	Clay	ND	5.8	72	0.66	6.3	0.15	16	16	0.23	5.5	9.5	6	10	15	0.031	ND	13	ND	ND	0.14	22	52
	BAP25	Clay	ND	4	50	0.5	5.5	0.42	12	12	0.15	5.7	7.8	1.4	8.2	13	0.036	ND	12	0.83	ND	0.079	17	39
	BAP26	Clay	ND	5.6	46	0.62	5.3	0.49	14	14	0.19	6.5	11	0.92	11	17	0.032	0.18	15	1.9	ND	0.12	19	55

Table 2. Radium Confirmatory Soil Sample Concentrations			Constituent	
Sample I.D.			Radium 226	Radium 228
Pawnee Bottom Ash and Ash Water Recovery Ponds Soil Confirmatory Sample Lab Result (pCi/g)	ARP01	Clay	0.52	0.77
	ARP02	Clay	0.66	1.59
	ARP03	Clay	ND	1.03
	ARP04	Clay	0.71	0.97
	ARP05	Clay	ND	1.24
	BAP01	Clay	1	0.99
	BAP02	Clay	0.57	ND
	BAP03	Clay	0.79	1.33
	BAP04	Clay	0.56	ND
	BAP05	Clay	0.8	1.3
	BAP06	Clay	0.7	1.27
	BAP07	Clay	1.81	1.17
	BAP08	Clay	0.59	1.23
	BAP09	Clay	0.66	0.91
	BAP10	Clay	ND	1.74
	BAP11	Clay	0.75	1.22
	BAP12	Clay	0.66	1.27
	BAP13	Clay	1.56	ND
	BAP14	Clay	2.04	ND
	BAP15	Clay	1.88	1.07
	BAP16	Clay	1	1.27
	BAP17	Clay	1.37	0.73
	BAP18	Clay	0.72	0.86
	BAP19	Clay	0.9	1
	BAP20	Clay	1.26	1.1
	BAP21	Clay	0.61	ND
	BAP22	Clay	0.7	1.3
	BAP23	Clay	0.52	0.93
	BAP24	Clay	ND	0.96
	BAP25	Clay	1.07	1.05
	BAP26	Clay	0.63	1.03

Table 3. Confirmatory Soil Sample Set Upper Confidence Limit and Screening Levels		Constituent																					
Screening Limit or Calculated Value		Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium (III)	Chromium Total	Chromium (VI)	Cobalt	Copper	Fluoride	Lead	Lithium	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
BTV (mg/kg)	Clay	2.3	6.352	92.28	0.62	22	0.617	16.86	16.86	0.5	8.168	10	10.545	14.905	18	0.06	0.583	13	2.699	0.59	0.14	23.74	62.18
EPA Regional Screening Levels (RSLs) 2016 (mg/kg)	Residential	3.1	0.68	1500	16	1600	7.1	1200	--	0.3	2.3	310	310	400	16	1.1	39	150	39	39	0.078	39	2300
Confirmatory Sample Set 95% UCL	Clay	--	5.5	61	0.64	6.3	0.37	15	16.60	0.28	5.6	10	6	10.73	15	0.04	0.37	14	0.89	--	0.14	20	51

Table 4. Confirmatory Soil Sample Set Radium Upper Confidence Limit and Screening Levels			Constituent	
Screening Limit or Calculated Value			Radium 226	Radium 228
BTV (pCi/g)		Clay	1.654	1.942
EPA Worker Composite Soil Preliminary Remediation Goals (PRGs) (pCi/g)			3.1	7.5
Confirmatory Sample Set 95% UCL		Clay	1.032	1.156

GROUNDWATER MONITORING

The third requirement for closure of an impoundment through removal of CCR is a demonstration that groundwater monitoring concentrations do not exceed the groundwater protection standard. When the EPA's CCR rule was first issued in April 2015, inactive impoundments were considered exempt from the groundwater monitoring requirement. Effective October 4th, 2016, EPA's Direct Final Rule vacated this exemption resulting in the requirement for installation of a groundwater monitoring system and the development of a groundwater sampling and analysis plan by April 17th, 2019. Groundwater monitoring requirements will be documented separately and are not a part of this report.

CERTIFICATION STATEMENT

I certify that to the best of my knowledge, the visually identifiable CCR material in the Bottom Ash Storage Pond and Ash Water Recovery Pond at Pawnee Station has been removed and, in my professional opinion, that the pond bottom sampling analytic results indicate that impacted soil has been removed pursuant to the requirements of the Federal Coal Combustion Residuals Rule (40 CFR 257, specifically 257.102(c)). This certification does not include verification that groundwater monitoring concentrations do not exceed the groundwater protection standard established pursuant to 257.95(h) for constituents listed in appendix IV of 40 CFR 257.

Sincerely,

HDR Engineering, Inc.



Brian J Brown
Colorado Professional Engineer, # 41644

cc: Marie Vagher, Xcel Energy
Matt Rohr, HDR
Brian Brown, HDR

Enclosures:
Laboratory Report

References

EPA. 2014. USEPA Radionuclide Preliminary Remediation Goals (PRG) Summary Table (TR=1E-6). November 2014. Available at https://epa-prgs.ornl.gov/radionuclides/download/summary_rprg_table_run_pCi_25NOV14.pdf

EPA (US Environmental Protection Agency). 2016. USEPA Regional Screening Levels Summary Table (TR=1E-06, HQ=0.1) May 2016. Available at https://www.epa.gov/sites/production/files/2016-06/documents/master_sl_table_01run_may2016_0.pdf

ATTACHMENT 1

Confirmatory Soil Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-95996-1

Client Project/Site: Pawnee Soil Sampling

Revision: 2

For:

HDR Inc

3321 Bronson Blvd.

Kalamazoo, Michigan 49008

Attn: Molly Reeves



Authorized for release by:

5/3/2017 10:01:34 AM

Stephanie Rothmeyer, Project Manager I

(303)736-0182

stephanie.rothmeyer@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Job ID: 280-95996-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: HDR Inc

Project: Pawnee Soil Sampling

Report Number: 280-95996-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

REVISION 1 CHANGES

The report is revised to correct the units for 6020 to mg/kg.

REVISION 2 CHANGES

The report is revised to report all 6020 results for job 280-96077 without dilution.

RECEIPT

The samples were received on 04/17/2017 and 04/19/2017; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.9° C, 3.3° C, 6.3° C and 8.3° C.

The following samples were received at the laboratory outside the required temperature criteria: BAP03 (280-95996-1), BAP12 (280-95996-2), BAP20 (280-95996-3), BAP22 (280-95996-4), BAP24 (280-95996-5), BAP15 (280-95996-6), BAP08 (280-95996-7), BAP01 (280-95996-8), BAP19 (280-95996-9), BAP18 (280-95996-10), BAP10 (280-95996-11), BAP09 (280-95996-12), BAP16 (280-95996-13), BAP13 (280-95996-14), BAP14 (280-95996-15), BAP17 (280-95996-16), BAP07 (280-95996-17) and BAP06 (280-95996-18). The samples were received on ice at temperatures of 8.3 C and 6.3 C. The samples are considered acceptable since they were collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun. The client was notified on 4/18/17.

One of two 4-oz soil jars for the following sample was received empty: BAP14 (280-95996-15). There was sufficient volume available to perform the requested analyses. The client was notified on 4/18/17.

Please note that the samples requested to be placed on hold are included under SDG 280-96077-2.

TOTAL METALS (ICP)

Samples BAP02 (280-96077-1), BAP04 (280-96077-2), BAP05 (280-96077-3), BAP11 (280-96077-4), BAP21 (280-96077-5), BAP23 (280-96077-6), BAP25 (280-96077-7), BAP26 (280-96077-8), ARP01 (280-96077-9), ARP02 (280-96077-10), ARP03 (280-96077-11), ARP04 (280-96077-12) and ARP05 (280-96077-13) were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 04/21/2017 and analyzed on 04/24/2017.

Vanadium and Zinc were detected in method blank MB 560-138747/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Zinc failed the recovery criteria low for the MS of sample BAP02MS (280-96077-1) in batch 560-138815. Barium and Vanadium failed the recovery criteria high. For the MSD of sample BAP02MSD (280-96077-1) in batch 560-138815, Zinc failed the recovery criteria low. Barium

Case Narrative

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Job ID: 280-95996-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

and Vanadium failed the recovery criteria high. Also, Barium exceeded the RPD limit. The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICP)

Samples BAP03 (280-95996-1), BAP12 (280-95996-2), BAP20 (280-95996-3), BAP22 (280-95996-4), BAP24 (280-95996-5), BAP15 (280-95996-6), BAP08 (280-95996-7), BAP01 (280-95996-8), BAP19 (280-95996-9), BAP18 (280-95996-10), BAP10 (280-95996-11), BAP09 (280-95996-12), BAP16 (280-95996-13), BAP13 (280-95996-14), BAP14 (280-95996-15), BAP17 (280-95996-16), BAP07 (280-95996-17) and BAP06 (280-95996-18) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/21/2017 and analyzed on 04/22/2017 and 04/24/2017.

Barium and Nickel were detected in method blank MB 280-370355/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS

Samples BAP02 (280-96077-1), BAP04 (280-96077-2), BAP05 (280-96077-3), BAP11 (280-96077-4), BAP21 (280-96077-5), BAP23 (280-96077-6), BAP25 (280-96077-7), BAP26 (280-96077-8), ARP01 (280-96077-9), ARP02 (280-96077-10), ARP03 (280-96077-11), ARP04 (280-96077-12) and ARP05 (280-96077-13) were analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 04/21/2017 and analyzed on 05/02/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICPMS)

Samples BAP03 (280-95996-1), BAP12 (280-95996-2), BAP20 (280-95996-3), BAP22 (280-95996-4), BAP24 (280-95996-5), BAP15 (280-95996-6), BAP08 (280-95996-7), BAP01 (280-95996-8), BAP19 (280-95996-9), BAP18 (280-95996-10), BAP10 (280-95996-11), BAP09 (280-95996-12), BAP16 (280-95996-13), BAP13 (280-95996-14), BAP14 (280-95996-15), BAP17 (280-95996-16), BAP07 (280-95996-17) and BAP06 (280-95996-18) were analyzed for metals (ICPMS) in accordance with SW 846 6020A. The samples were prepared on 04/19/2017 and analyzed on 04/20/2017.

Thallium was detected in method blank MB 280-369928/1-A at a level above the method detection limit but below the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Thallium failed the recovery criteria low for the MSD of sample BAP03MSD (280-95996-1) in batch 280-370190. The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Samples BAP03 (280-95996-1), BAP02 (280-96077-1), BAP12 (280-95996-2), BAP04 (280-96077-2), BAP20 (280-95996-3), BAP05 (280-96077-3), BAP22 (280-95996-4), BAP11 (280-96077-4), BAP24 (280-95996-5), BAP21 (280-96077-5), BAP15 (280-95996-6), BAP23 (280-96077-6), BAP08 (280-95996-7), BAP25 (280-96077-7), BAP01 (280-95996-8), BAP26 (280-96077-8), BAP19 (280-95996-9), ARP01 (280-96077-9), BAP18 (280-95996-10), ARP02 (280-96077-10), BAP10 (280-95996-11), ARP03 (280-96077-11), BAP09 (280-95996-12), ARP04 (280-96077-12), BAP16 (280-95996-13), ARP05 (280-96077-13), BAP13 (280-95996-14), BAP14 (280-95996-15), BAP17 (280-95996-16), BAP07 (280-95996-17) and BAP06 (280-95996-18) were analyzed for total mercury (CVAA) in accordance with EPA SW-846 Method 7471A. The samples were prepared and analyzed on 04/19/2017 and 04/24/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Samples BAP03 (280-95996-1), BAP02 (280-96077-1), BAP12 (280-95996-2), BAP04 (280-96077-2), BAP20 (280-95996-3), BAP05 (280-96077-3), BAP22 (280-95996-4), BAP11 (280-96077-4), BAP24 (280-95996-5), BAP21 (280-96077-5), BAP15 (280-95996-6), BAP23

Case Narrative

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Job ID: 280-95996-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

(280-96077-6), BAP08 (280-95996-7), BAP25 (280-96077-7), BAP01 (280-95996-8), BAP26 (280-96077-8), BAP19 (280-95996-9), ARP01 (280-96077-9), BAP18 (280-95996-10), ARP02 (280-96077-10), BAP10 (280-95996-11), ARP03 (280-96077-11), BAP09 (280-95996-12), ARP04 (280-96077-12), BAP16 (280-95996-13), ARP05 (280-96077-13), BAP13 (280-95996-14), BAP14 (280-95996-15), BAP17 (280-95996-16), BAP07 (280-95996-17) and BAP06 (280-95996-18) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 3060A/7196A. The samples were prepared on 04/21/2017 and 04/25/2017 and analyzed on 04/24/2017 and 04/26/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM

Samples BAP03 (280-95996-1), BAP02 (280-96077-1), BAP12 (280-95996-2), BAP04 (280-96077-2), BAP20 (280-95996-3), BAP05 (280-96077-3), BAP22 (280-95996-4), BAP11 (280-96077-4), BAP24 (280-95996-5), BAP21 (280-96077-5), BAP15 (280-95996-6), BAP23 (280-96077-6), BAP08 (280-95996-7), BAP25 (280-96077-7), BAP01 (280-95996-8), BAP26 (280-96077-8), BAP19 (280-95996-9), ARP01 (280-96077-9), BAP18 (280-95996-10), ARP02 (280-96077-10), BAP10 (280-95996-11), ARP03 (280-96077-11), BAP09 (280-95996-12), ARP04 (280-96077-12), BAP16 (280-95996-13), ARP05 (280-96077-13), BAP13 (280-95996-14), BAP14 (280-95996-15), BAP17 (280-95996-16), BAP07 (280-95996-17) and BAP06 (280-95996-18) were analyzed for Trivalent Chromium in accordance with SW-846 7196A_CR3. The samples were analyzed on 04/25/2017 and 04/26/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (28 DAYS)

Samples BAP03 (280-95996-1), BAP12 (280-95996-2), BAP20 (280-95996-3), BAP22 (280-95996-4), BAP24 (280-95996-5), BAP15 (280-95996-6), BAP08 (280-95996-7), BAP01 (280-95996-8), BAP19 (280-95996-9), BAP18 (280-95996-10), BAP10 (280-95996-11), BAP09 (280-95996-12), BAP16 (280-95996-13), BAP13 (280-95996-14), BAP14 (280-95996-15), BAP17 (280-95996-16), BAP07 (280-95996-17) and BAP06 (280-95996-18) were analyzed for anions (28 days) in accordance with 9056A. The samples were leached on 04/20/2017 and analyzed on 04/20/2017 and 04/21/2017.

Sample BAP20 (280-95996-3)[10X] required dilution prior to analysis due to the abundance of non-target analytes. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS BY ION CHROMATOGRAPHY (28 DAYS)

Samples BAP02 (280-96077-1), BAP04 (280-96077-2), BAP05 (280-96077-3), BAP11 (280-96077-4), BAP21 (280-96077-5), BAP23 (280-96077-6), BAP25 (280-96077-7), BAP26 (280-96077-8), ARP01 (280-96077-9), ARP02 (280-96077-10), ARP03 (280-96077-11), ARP04 (280-96077-12) and ARP05 (280-96077-13) were analyzed for Anions by Ion Chromatography (28 days) in accordance with 9056A. The samples were prepared on 04/24/2017 and analyzed on 04/24/2017 and 04/25/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples BAP03 (280-95996-1), BAP02 (280-96077-1), BAP12 (280-95996-2), BAP04 (280-96077-2), BAP20 (280-95996-3), BAP05 (280-96077-3), BAP22 (280-95996-4), BAP11 (280-96077-4), BAP24 (280-95996-5), BAP21 (280-96077-5), BAP15 (280-95996-6), BAP23 (280-96077-6), BAP08 (280-95996-7), BAP25 (280-96077-7), BAP01 (280-95996-8), BAP26 (280-96077-8), BAP19 (280-95996-9), ARP01 (280-96077-9), BAP18 (280-95996-10), ARP02 (280-96077-10), BAP10 (280-95996-11), ARP03 (280-96077-11), BAP09 (280-95996-12), ARP04 (280-96077-12), BAP16 (280-95996-13), ARP05 (280-96077-13), BAP13 (280-95996-14), BAP14 (280-95996-15), BAP17 (280-95996-16), BAP07 (280-95996-17) and BAP06 (280-95996-18) were analyzed for percent solids in accordance with ASTM D2216-90. The samples were analyzed on 04/21/2017 and 04/24/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP03

Lab Sample ID: 280-95996-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	7.4		2.3	0.70	mg/Kg	1		✱	9056A	Soluble
Arsenic	6.8		1.8	0.59	mg/Kg	1		✱	6010C	Total/NA
Barium	43	B	0.88	0.092	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.64		0.44	0.029	mg/Kg	1		✱	6010C	Total/NA
Boron	6.4	J	8.8	0.87	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.15	J	0.44	0.036	mg/Kg	1		✱	6010C	Total/NA
Chromium	16		1.3	0.051	mg/Kg	1		✱	6010C	Total/NA
Cobalt	6.5		0.88	0.088	mg/Kg	1		✱	6010C	Total/NA
Copper	9.4		1.8	0.19	mg/Kg	1		✱	6010C	Total/NA
Lead	10		0.79	0.27	mg/Kg	1		✱	6010C	Total/NA
Lithium	15		4.4	0.80	mg/Kg	1		✱	6010C	Total/NA
Nickel	13	B	3.5	0.12	mg/Kg	1		✱	6010C	Total/NA
Vanadium	22		1.8	0.083	mg/Kg	1		✱	6010C	Total/NA
Zinc	51		2.6	0.35	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.13	F1 B	0.083	0.0029	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.029		0.023	0.0075	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	16		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.25	J	0.44	0.11	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP12

Lab Sample ID: 280-95996-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	5.9		2.1	0.64	mg/Kg	1		✱	9056A	Soluble
Arsenic	5.4		2.2	0.74	mg/Kg	1		✱	6010C	Total/NA
Barium	65	B	1.1	0.12	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.55		0.55	0.037	mg/Kg	1		✱	6010C	Total/NA
Boron	6.1	J	11	1.1	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.13	J	0.55	0.045	mg/Kg	1		✱	6010C	Total/NA
Chromium	13		1.7	0.064	mg/Kg	1		✱	6010C	Total/NA
Cobalt	4.8		1.1	0.11	mg/Kg	1		✱	6010C	Total/NA
Copper	7.9		2.2	0.24	mg/Kg	1		✱	6010C	Total/NA
Lead	8.7		1.0	0.34	mg/Kg	1		✱	6010C	Total/NA
Lithium	13		5.5	1.0	mg/Kg	1		✱	6010C	Total/NA
Nickel	11	B	4.4	0.15	mg/Kg	1		✱	6010C	Total/NA
Vanadium	18		2.2	0.10	mg/Kg	1		✱	6010C	Total/NA
Zinc	42		3.3	0.44	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.13	B	0.088	0.0031	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.017	J	0.020	0.0064	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	13		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.20	J	0.46	0.12	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP20

Lab Sample ID: 280-95996-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	11	J	30	9.0	mg/Kg	10		✱	9056A	Soluble
Arsenic	13		2.7	0.89	mg/Kg	1		✱	6010C	Total/NA
Barium	1900	B	1.3	0.14	mg/Kg	1		✱	6010C	Total/NA
Beryllium	1.4		0.67	0.044	mg/Kg	1		✱	6010C	Total/NA
Boron	240		13	1.3	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.60	J	0.67	0.055	mg/Kg	1		✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP20 (Continued)

Lab Sample ID: 280-95996-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chromium	36		2.0	0.078	mg/Kg	1		✱	6010C	Total/NA
Cobalt	6.8		1.3	0.13	mg/Kg	1		✱	6010C	Total/NA
Copper	69		2.7	0.29	mg/Kg	1		✱	6010C	Total/NA
Lead	7.1		1.2	0.41	mg/Kg	1		✱	6010C	Total/NA
Lithium	59		6.7	1.2	mg/Kg	1		✱	6010C	Total/NA
Molybdenum	0.76	J	2.7	0.35	mg/Kg	1		✱	6010C	Total/NA
Nickel	25	B	5.3	0.18	mg/Kg	1		✱	6010C	Total/NA
Vanadium	77		2.7	0.13	mg/Kg	1		✱	6010C	Total/NA
Zinc	92		4.0	0.53	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.16	B	0.12	0.0043	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.064		0.030	0.0098	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	36		2.0	2.0	mg/Kg	1			7196A	Total/NA

Client Sample ID: BAP22

Lab Sample ID: 280-95996-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	5.6		2.2	0.66	mg/Kg	1		✱	9056A	Soluble
Arsenic	5.2		1.6	0.53	mg/Kg	1		✱	6010C	Total/NA
Barium	52	B	0.80	0.083	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.65		0.40	0.026	mg/Kg	1		✱	6010C	Total/NA
Boron	6.8	J	8.0	0.78	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.16	J	0.40	0.033	mg/Kg	1		✱	6010C	Total/NA
Chromium	16		1.2	0.046	mg/Kg	1		✱	6010C	Total/NA
Cobalt	5.5		0.80	0.080	mg/Kg	1		✱	6010C	Total/NA
Copper	9.6		1.6	0.17	mg/Kg	1		✱	6010C	Total/NA
Lead	10		0.72	0.25	mg/Kg	1		✱	6010C	Total/NA
Lithium	14		4.0	0.73	mg/Kg	1		✱	6010C	Total/NA
Nickel	13	B	3.2	0.11	mg/Kg	1		✱	6010C	Total/NA
Vanadium	22		1.6	0.075	mg/Kg	1		✱	6010C	Total/NA
Zinc	50		2.4	0.32	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.14	B	0.090	0.0032	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.029		0.023	0.0074	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	16		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.31	J	0.46	0.12	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP24

Lab Sample ID: 280-95996-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	6.0		2.2	0.65	mg/Kg	1		✱	9056A	Soluble
Arsenic	5.8		2.1	0.68	mg/Kg	1		✱	6010C	Total/NA
Barium	72	B	1.0	0.11	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.66		0.51	0.034	mg/Kg	1		✱	6010C	Total/NA
Boron	6.3	J	10	1.0	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.15	J	0.51	0.042	mg/Kg	1		✱	6010C	Total/NA
Chromium	16		1.5	0.060	mg/Kg	1		✱	6010C	Total/NA
Cobalt	5.5		1.0	0.10	mg/Kg	1		✱	6010C	Total/NA
Copper	9.5		2.1	0.22	mg/Kg	1		✱	6010C	Total/NA
Lead	10		0.92	0.32	mg/Kg	1		✱	6010C	Total/NA
Lithium	15		5.1	0.93	mg/Kg	1		✱	6010C	Total/NA
Nickel	13	B	4.1	0.14	mg/Kg	1		✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP24 (Continued)

Lab Sample ID: 280-95996-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Vanadium	22		2.1	0.097	mg/Kg	1		✱	6010C	Total/NA
Zinc	52		3.1	0.41	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.14	B	0.10	0.0037	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.031		0.023	0.0076	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	16		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.23	J	0.41	0.10	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP15

Lab Sample ID: 280-95996-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	5.3		2.3	0.70	mg/Kg	1		✱	9056A	Soluble
Arsenic	5.5		1.8	0.61	mg/Kg	1		✱	6010C	Total/NA
Barium	61	B	0.92	0.096	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.64		0.46	0.030	mg/Kg	1		✱	6010C	Total/NA
Boron	7.2	J	9.2	0.90	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.14	J	0.46	0.038	mg/Kg	1		✱	6010C	Total/NA
Chromium	15		1.4	0.053	mg/Kg	1		✱	6010C	Total/NA
Cobalt	5.7		0.92	0.092	mg/Kg	1		✱	6010C	Total/NA
Copper	10		1.8	0.20	mg/Kg	1		✱	6010C	Total/NA
Lead	10		0.83	0.29	mg/Kg	1		✱	6010C	Total/NA
Lithium	15		4.6	0.84	mg/Kg	1		✱	6010C	Total/NA
Nickel	14	B	3.7	0.12	mg/Kg	1		✱	6010C	Total/NA
Selenium	1.4		1.4	0.79	mg/Kg	1		✱	6010C	Total/NA
Vanadium	20		1.8	0.087	mg/Kg	1		✱	6010C	Total/NA
Zinc	51		2.8	0.37	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.13	B	0.093	0.0033	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.034		0.024	0.0078	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	15		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.15	J	0.46	0.12	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP08

Lab Sample ID: 280-95996-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	7.5		2.4	0.74	mg/Kg	1		✱	9056A	Soluble
Arsenic	5.9		1.7	0.57	mg/Kg	1		✱	6010C	Total/NA
Barium	63	B	0.86	0.090	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.68		0.43	0.028	mg/Kg	1		✱	6010C	Total/NA
Boron	7.4	J	8.6	0.84	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.17	J	0.43	0.035	mg/Kg	1		✱	6010C	Total/NA
Chromium	16		1.3	0.050	mg/Kg	1		✱	6010C	Total/NA
Cobalt	5.8		0.86	0.086	mg/Kg	1		✱	6010C	Total/NA
Copper	11		1.7	0.19	mg/Kg	1		✱	6010C	Total/NA
Lead	11		0.78	0.27	mg/Kg	1		✱	6010C	Total/NA
Lithium	15		4.3	0.78	mg/Kg	1		✱	6010C	Total/NA
Nickel	14	B	3.4	0.11	mg/Kg	1		✱	6010C	Total/NA
Vanadium	22		1.7	0.081	mg/Kg	1		✱	6010C	Total/NA
Zinc	51		2.6	0.34	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.18	B	0.082	0.0029	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.026		0.025	0.0081	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	16		2.0	2.0	mg/Kg	1			7196A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP08 (Continued)

Lab Sample ID: 280-95996-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.15	J	0.48	0.12	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: BAP01

Lab Sample ID: 280-95996-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	4.8		2.3	0.70	mg/Kg	1	☼	9056A	Soluble
Arsenic	5.8		1.7	0.56	mg/Kg	1	☼	6010C	Total/NA
Barium	54	B	0.85	0.088	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.66		0.42	0.028	mg/Kg	1	☼	6010C	Total/NA
Boron	6.3	J	8.5	0.83	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.17	J	0.42	0.035	mg/Kg	1	☼	6010C	Total/NA
Chromium	16		1.3	0.049	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.6		0.85	0.085	mg/Kg	1	☼	6010C	Total/NA
Copper	11		1.7	0.18	mg/Kg	1	☼	6010C	Total/NA
Lead	11		0.76	0.26	mg/Kg	1	☼	6010C	Total/NA
Lithium	14		4.2	0.77	mg/Kg	1	☼	6010C	Total/NA
Nickel	14	B	3.4	0.11	mg/Kg	1	☼	6010C	Total/NA
Vanadium	23		1.7	0.080	mg/Kg	1	☼	6010C	Total/NA
Zinc	54		2.5	0.34	mg/Kg	1	☼	6010C	Total/NA
Thallium	0.13	B	0.086	0.0030	mg/Kg	1	☼	6020A	Total/NA
Mercury	0.029		0.023	0.0075	mg/Kg	1	☼	7471A	Total/NA
Cr (III)	16		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cr (VI)	0.20	J	0.46	0.12	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: BAP19

Lab Sample ID: 280-95996-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	5.0		2.3	0.68	mg/Kg	1	☼	9056A	Soluble
Arsenic	5.3		2.2	0.74	mg/Kg	1	☼	6010C	Total/NA
Barium	49	B	1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.66		0.56	0.037	mg/Kg	1	☼	6010C	Total/NA
Boron	6.1	J	11	1.1	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.17	J	0.56	0.046	mg/Kg	1	☼	6010C	Total/NA
Chromium	16		1.7	0.064	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.5		1.1	0.11	mg/Kg	1	☼	6010C	Total/NA
Copper	10		2.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Lead	11		1.0	0.34	mg/Kg	1	☼	6010C	Total/NA
Lithium	15		5.6	1.0	mg/Kg	1	☼	6010C	Total/NA
Nickel	14	B	4.4	0.15	mg/Kg	1	☼	6010C	Total/NA
Vanadium	21		2.2	0.10	mg/Kg	1	☼	6010C	Total/NA
Zinc	49		3.3	0.44	mg/Kg	1	☼	6010C	Total/NA
Thallium	0.14	B	0.098	0.0034	mg/Kg	1	☼	6020A	Total/NA
Mercury	0.037		0.025	0.0080	mg/Kg	1	☼	7471A	Total/NA
Cr (III)	16		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cr (VI)	0.25	J	0.44	0.11	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: BAP18

Lab Sample ID: 280-95996-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	12		2.2	0.67	mg/Kg	1	☼	9056A	Soluble

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP18 (Continued)

Lab Sample ID: 280-95996-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	4.8		1.9	0.64	mg/Kg	1		✱	6010C	Total/NA
Barium	100	B	0.96	0.10	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.70		0.48	0.032	mg/Kg	1		✱	6010C	Total/NA
Boron	11		9.6	0.94	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.16	J	0.48	0.039	mg/Kg	1		✱	6010C	Total/NA
Chromium	16		1.4	0.056	mg/Kg	1		✱	6010C	Total/NA
Cobalt	6.5		0.96	0.096	mg/Kg	1		✱	6010C	Total/NA
Copper	12		1.9	0.21	mg/Kg	1		✱	6010C	Total/NA
Lead	11		0.86	0.30	mg/Kg	1		✱	6010C	Total/NA
Lithium	15		4.8	0.87	mg/Kg	1		✱	6010C	Total/NA
Nickel	15	B	3.8	0.13	mg/Kg	1		✱	6010C	Total/NA
Vanadium	23		1.9	0.090	mg/Kg	1		✱	6010C	Total/NA
Zinc	53		2.9	0.38	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.15	B	0.10	0.0036	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.030		0.023	0.0074	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	16		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.26	J	0.47	0.12	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP10

Lab Sample ID: 280-95996-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	6.3		2.2	0.66	mg/Kg	1		✱	9056A	Soluble
Arsenic	5.1		2.0	0.65	mg/Kg	1		✱	6010C	Total/NA
Barium	55	B	0.98	0.10	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.63		0.49	0.032	mg/Kg	1		✱	6010C	Total/NA
Boron	5.4	J	9.8	0.96	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.18	J	0.49	0.040	mg/Kg	1		✱	6010C	Total/NA
Chromium	15		1.5	0.057	mg/Kg	1		✱	6010C	Total/NA
Cobalt	5.3		0.98	0.098	mg/Kg	1		✱	6010C	Total/NA
Copper	9.3		2.0	0.21	mg/Kg	1		✱	6010C	Total/NA
Lead	10		0.88	0.30	mg/Kg	1		✱	6010C	Total/NA
Lithium	15		4.9	0.89	mg/Kg	1		✱	6010C	Total/NA
Nickel	13	B	3.9	0.13	mg/Kg	1		✱	6010C	Total/NA
Vanadium	20		2.0	0.092	mg/Kg	1		✱	6010C	Total/NA
Zinc	50		2.9	0.39	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.14	B	0.12	0.0040	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.026		0.023	0.0076	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	15		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.21	J	0.47	0.12	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP09

Lab Sample ID: 280-95996-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	6.5		2.3	0.69	mg/Kg	1		✱	9056A	Soluble
Arsenic	6.3		2.1	0.71	mg/Kg	1		✱	6010C	Total/NA
Barium	50	B	1.1	0.11	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.61		0.54	0.035	mg/Kg	1		✱	6010C	Total/NA
Boron	5.3	J	11	1.1	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.17	J	0.54	0.044	mg/Kg	1		✱	6010C	Total/NA
Chromium	15		1.6	0.062	mg/Kg	1		✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP09 (Continued)

Lab Sample ID: 280-95996-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Cobalt	5.3		1.1	0.11	mg/Kg	1		✱	6010C	Total/NA
Copper	9.6		2.1	0.23	mg/Kg	1		✱	6010C	Total/NA
Lead	10		0.97	0.33	mg/Kg	1		✱	6010C	Total/NA
Lithium	15		5.4	0.98	mg/Kg	1		✱	6010C	Total/NA
Nickel	13	B	4.3	0.14	mg/Kg	1		✱	6010C	Total/NA
Vanadium	18		2.1	0.10	mg/Kg	1		✱	6010C	Total/NA
Zinc	46		3.2	0.43	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.13	B	0.086	0.0030	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.031		0.022	0.0071	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	14		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.15	J	0.47	0.12	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP16

Lab Sample ID: 280-95996-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	6.0		2.3	0.69	mg/Kg	1		✱	9056A	Soluble
Arsenic	5.7		1.9	0.63	mg/Kg	1		✱	6010C	Total/NA
Barium	57	B	0.94	0.098	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.57		0.47	0.031	mg/Kg	1		✱	6010C	Total/NA
Boron	4.9	J	9.4	0.92	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.14	J	0.47	0.039	mg/Kg	1		✱	6010C	Total/NA
Chromium	15		1.4	0.055	mg/Kg	1		✱	6010C	Total/NA
Cobalt	5.3		0.94	0.094	mg/Kg	1		✱	6010C	Total/NA
Copper	8.4		1.9	0.20	mg/Kg	1		✱	6010C	Total/NA
Lead	9.1		0.85	0.29	mg/Kg	1		✱	6010C	Total/NA
Lithium	15		4.7	0.86	mg/Kg	1		✱	6010C	Total/NA
Nickel	12	B	3.8	0.12	mg/Kg	1		✱	6010C	Total/NA
Vanadium	19		1.9	0.089	mg/Kg	1		✱	6010C	Total/NA
Zinc	47		2.8	0.37	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.11	B	0.092	0.0032	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.024		0.021	0.0069	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	14		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.70		0.46	0.12	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP13

Lab Sample ID: 280-95996-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	6.4		2.4	0.73	mg/Kg	1		✱	9056A	Soluble
Arsenic	5.7		2.0	0.66	mg/Kg	1		✱	6010C	Total/NA
Barium	59	B	0.99	0.10	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.66		0.49	0.033	mg/Kg	1		✱	6010C	Total/NA
Boron	6.1	J	9.9	0.97	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.19	J	0.49	0.040	mg/Kg	1		✱	6010C	Total/NA
Chromium	16		1.5	0.057	mg/Kg	1		✱	6010C	Total/NA
Cobalt	5.4		0.99	0.099	mg/Kg	1		✱	6010C	Total/NA
Copper	11		2.0	0.21	mg/Kg	1		✱	6010C	Total/NA
Lead	12		0.89	0.31	mg/Kg	1		✱	6010C	Total/NA
Lithium	15		4.9	0.90	mg/Kg	1		✱	6010C	Total/NA
Nickel	14	B	3.9	0.13	mg/Kg	1		✱	6010C	Total/NA
Vanadium	21		2.0	0.093	mg/Kg	1		✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP13 (Continued)

Lab Sample ID: 280-95996-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Zinc	53		3.0	0.39	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.14	B	0.10	0.0036	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.034		0.024	0.0080	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	16		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.24	J	0.44	0.11	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP14

Lab Sample ID: 280-95996-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	12		2.3	0.69	mg/Kg	1		✱	9056A	Soluble
Arsenic	4.7		1.9	0.64	mg/Kg	1		✱	6010C	Total/NA
Barium	58	B	0.97	0.10	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.65		0.48	0.032	mg/Kg	1		✱	6010C	Total/NA
Boron	5.6	J	9.7	0.95	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.16	J	0.48	0.040	mg/Kg	1		✱	6010C	Total/NA
Chromium	15		1.5	0.056	mg/Kg	1		✱	6010C	Total/NA
Cobalt	5.6		0.97	0.097	mg/Kg	1		✱	6010C	Total/NA
Copper	11		1.9	0.21	mg/Kg	1		✱	6010C	Total/NA
Lead	12		0.87	0.30	mg/Kg	1		✱	6010C	Total/NA
Lithium	15		4.8	0.88	mg/Kg	1		✱	6010C	Total/NA
Nickel	14	B	3.9	0.13	mg/Kg	1		✱	6010C	Total/NA
Vanadium	20		1.9	0.091	mg/Kg	1		✱	6010C	Total/NA
Zinc	54		2.9	0.38	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.15	B	0.10	0.0036	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.029		0.021	0.0070	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	15		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.25	J	0.46	0.11	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP17

Lab Sample ID: 280-95996-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	7.1		2.3	0.68	mg/Kg	1		✱	9056A	Soluble
Antimony	0.75	J	1.4	0.69	mg/Kg	1		✱	6010C	Total/NA
Arsenic	5.1		1.9	0.62	mg/Kg	1		✱	6010C	Total/NA
Barium	54	B	0.94	0.098	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.61		0.47	0.031	mg/Kg	1		✱	6010C	Total/NA
Boron	5.0	J	9.4	0.92	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.16	J	0.47	0.039	mg/Kg	1		✱	6010C	Total/NA
Chromium	15		1.4	0.055	mg/Kg	1		✱	6010C	Total/NA
Cobalt	5.2		0.94	0.094	mg/Kg	1		✱	6010C	Total/NA
Copper	10		1.9	0.20	mg/Kg	1		✱	6010C	Total/NA
Lead	11		0.85	0.29	mg/Kg	1		✱	6010C	Total/NA
Lithium	14		4.7	0.86	mg/Kg	1		✱	6010C	Total/NA
Nickel	13	B	3.8	0.12	mg/Kg	1		✱	6010C	Total/NA
Vanadium	18		1.9	0.088	mg/Kg	1		✱	6010C	Total/NA
Zinc	50		2.8	0.37	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.14	B	0.081	0.0028	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.025		0.024	0.0077	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	14		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.24	J	0.44	0.11	mg/Kg	1		✱	7196A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP07

Lab Sample ID: 280-95996-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	5.6		2.3	0.69	mg/Kg	1		✱	9056A	Soluble
Arsenic	4.4		1.8	0.59	mg/Kg	1		✱	6010C	Total/NA
Barium	37	B	0.88	0.092	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.59		0.44	0.029	mg/Kg	1		✱	6010C	Total/NA
Boron	4.7	J	8.8	0.86	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.16	J	0.44	0.036	mg/Kg	1		✱	6010C	Total/NA
Chromium	13		1.3	0.051	mg/Kg	1		✱	6010C	Total/NA
Cobalt	5.1		0.88	0.088	mg/Kg	1		✱	6010C	Total/NA
Copper	11		1.8	0.19	mg/Kg	1		✱	6010C	Total/NA
Lead	11		0.79	0.27	mg/Kg	1		✱	6010C	Total/NA
Lithium	15		4.4	0.80	mg/Kg	1		✱	6010C	Total/NA
Nickel	11	B	3.5	0.12	mg/Kg	1		✱	6010C	Total/NA
Vanadium	16		1.8	0.083	mg/Kg	1		✱	6010C	Total/NA
Zinc	49		2.6	0.35	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.14	B	0.089	0.0031	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.022	J	0.024	0.0077	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	13		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.44		0.42	0.11	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP06

Lab Sample ID: 280-95996-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	5.6		2.3	0.68	mg/Kg	1		✱	9056A	Soluble
Arsenic	5.1		2.2	0.73	mg/Kg	1		✱	6010C	Total/NA
Barium	43	B	1.1	0.11	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.63		0.55	0.036	mg/Kg	1		✱	6010C	Total/NA
Boron	7.4	J	11	1.1	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.18	J	0.55	0.045	mg/Kg	1		✱	6010C	Total/NA
Chromium	14		1.6	0.064	mg/Kg	1		✱	6010C	Total/NA
Cobalt	5.1		1.1	0.11	mg/Kg	1		✱	6010C	Total/NA
Copper	11		2.2	0.24	mg/Kg	1		✱	6010C	Total/NA
Lead	13		0.99	0.34	mg/Kg	1		✱	6010C	Total/NA
Lithium	16		5.5	1.0	mg/Kg	1		✱	6010C	Total/NA
Nickel	14	B	4.4	0.14	mg/Kg	1		✱	6010C	Total/NA
Vanadium	17		2.2	0.10	mg/Kg	1		✱	6010C	Total/NA
Zinc	52		3.3	0.44	mg/Kg	1		✱	6010C	Total/NA
Thallium	0.15	B	0.10	0.0035	mg/Kg	1		✱	6020A	Total/NA
Mercury	0.033		0.022	0.0070	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	14		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.31	J	0.46	0.11	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP02

Lab Sample ID: 280-96077-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	2.7		1.2	0.17	mg/Kg	1		✱	9056A	Total/NA
Arsenic	4.7		2.1	0.15	mg/Kg	1		✱	6010B	Total/NA
Barium	52	F1 F2	1.1	0.20	mg/Kg	1		✱	6010B	Total/NA
Beryllium	0.45	J	0.53	0.029	mg/Kg	1		✱	6010B	Total/NA
Boron	5.1	J	11	0.44	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.37	J	0.53	0.038	mg/Kg	1		✱	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP02 (Continued)

Lab Sample ID: 280-96077-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chromium	12		1.1	0.14	mg/Kg	1		✱	6010B	Total/NA
Cobalt	4.8		1.1	0.030	mg/Kg	1		✱	6010B	Total/NA
Copper	9.2		2.1	0.21	mg/Kg	1		✱	6010B	Total/NA
Lead	11		0.53	0.16	mg/Kg	1		✱	6010B	Total/NA
Lithium	13		0.53	0.30	mg/Kg	1		✱	6010B	Total/NA
Molybdenum	0.36	J	2.1	0.13	mg/Kg	1		✱	6010B	Total/NA
Nickel	13		2.1	0.13	mg/Kg	1		✱	6010B	Total/NA
Selenium	0.68	J	1.1	0.21	mg/Kg	1		✱	6010B	Total/NA
Vanadium	17	F1 B	1.1	0.053	mg/Kg	1		✱	6010B	Total/NA
Zinc	48	B	2.6	0.60	mg/Kg	1		✱	6010B	Total/NA
Thallium	0.12	J	0.26	0.073	mg/Kg	1		✱	6020	Total/NA
Mercury	0.047	J	0.12	0.011	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	12		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.15	J	0.44	0.11	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP04

Lab Sample ID: 280-96077-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	2.8		1.2	0.17	mg/Kg	1		✱	9056A	Total/NA
Arsenic	4.0		2.1	0.15	mg/Kg	1		✱	6010B	Total/NA
Barium	45		1.0	0.20	mg/Kg	1		✱	6010B	Total/NA
Beryllium	0.43	J	0.52	0.028	mg/Kg	1		✱	6010B	Total/NA
Boron	4.3	J	10	0.43	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.37	J	0.52	0.037	mg/Kg	1		✱	6010B	Total/NA
Chromium	13		1.0	0.14	mg/Kg	1		✱	6010B	Total/NA
Cobalt	5.0		1.0	0.029	mg/Kg	1		✱	6010B	Total/NA
Copper	6.8		2.1	0.21	mg/Kg	1		✱	6010B	Total/NA
Lead	8.5		0.52	0.16	mg/Kg	1		✱	6010B	Total/NA
Lithium	14		0.52	0.29	mg/Kg	1		✱	6010B	Total/NA
Molybdenum	0.22	J	2.1	0.13	mg/Kg	1		✱	6010B	Total/NA
Nickel	12		2.1	0.13	mg/Kg	1		✱	6010B	Total/NA
Selenium	0.54	J	1.0	0.21	mg/Kg	1		✱	6010B	Total/NA
Vanadium	18	B	1.0	0.052	mg/Kg	1		✱	6010B	Total/NA
Zinc	42		2.6	0.59	mg/Kg	1		✱	6010B	Total/NA
Thallium	0.10	J	0.26	0.071	mg/Kg	1		✱	6020	Total/NA
Mercury	0.028	J	0.13	0.012	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	13		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.28	J	0.47	0.12	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP05

Lab Sample ID: 280-96077-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	1.8		1.2	0.17	mg/Kg	1		✱	9056A	Total/NA
Arsenic	5.1		2.2	0.16	mg/Kg	1		✱	6010B	Total/NA
Barium	41		1.1	0.21	mg/Kg	1		✱	6010B	Total/NA
Beryllium	0.43	J	0.56	0.030	mg/Kg	1		✱	6010B	Total/NA
Boron	4.2	J	11	0.47	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.34	J	0.56	0.040	mg/Kg	1		✱	6010B	Total/NA
Chromium	11		1.1	0.15	mg/Kg	1		✱	6010B	Total/NA
Cobalt	4.7		1.1	0.031	mg/Kg	1		✱	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP05 (Continued)

Lab Sample ID: 280-96077-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	7.4		2.2	0.23	mg/Kg	1		✱	6010B	Total/NA
Lead	9.2		0.56	0.17	mg/Kg	1		✱	6010B	Total/NA
Lithium	13		0.56	0.31	mg/Kg	1		✱	6010B	Total/NA
Molybdenum	0.32	J	2.2	0.14	mg/Kg	1		✱	6010B	Total/NA
Nickel	11		2.2	0.14	mg/Kg	1		✱	6010B	Total/NA
Selenium	0.55	J	1.1	0.22	mg/Kg	1		✱	6010B	Total/NA
Vanadium	20	B	1.1	0.056	mg/Kg	1		✱	6010B	Total/NA
Zinc	41		2.8	0.64	mg/Kg	1		✱	6010B	Total/NA
Thallium	0.11	J	0.28	0.077	mg/Kg	1		✱	6020	Total/NA
Mercury	0.026	J	0.13	0.011	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	11		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.27	J	0.47	0.12	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP11

Lab Sample ID: 280-96077-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	1.7		1.4	0.20	mg/Kg	1		✱	9056A	Total/NA
Arsenic	5.6		2.5	0.18	mg/Kg	1		✱	6010B	Total/NA
Barium	52		1.3	0.24	mg/Kg	1		✱	6010B	Total/NA
Beryllium	0.59	J	0.63	0.034	mg/Kg	1		✱	6010B	Total/NA
Boron	18		13	0.52	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.56	J	0.63	0.045	mg/Kg	1		✱	6010B	Total/NA
Chromium	15		1.3	0.17	mg/Kg	1		✱	6010B	Total/NA
Cobalt	7.9		1.3	0.035	mg/Kg	1		✱	6010B	Total/NA
Copper	11		2.5	0.25	mg/Kg	1		✱	6010B	Total/NA
Lead	13		0.63	0.19	mg/Kg	1		✱	6010B	Total/NA
Lithium	21		0.63	0.35	mg/Kg	1		✱	6010B	Total/NA
Molybdenum	0.45	J	2.5	0.16	mg/Kg	1		✱	6010B	Total/NA
Nickel	16		2.5	0.16	mg/Kg	1		✱	6010B	Total/NA
Selenium	0.77	J	1.3	0.25	mg/Kg	1		✱	6010B	Total/NA
Vanadium	21	B	1.3	0.063	mg/Kg	1		✱	6010B	Total/NA
Zinc	60		3.1	0.72	mg/Kg	1		✱	6010B	Total/NA
Thallium	0.15	J	0.31	0.087	mg/Kg	1		✱	6020	Total/NA
Mercury	0.034	J	0.14	0.013	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	15		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.25	J	0.53	0.13	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP21

Lab Sample ID: 280-96077-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	1.1	J	1.2	0.17	mg/Kg	1		✱	9056A	Total/NA
Arsenic	4.7		2.0	0.15	mg/Kg	1		✱	6010B	Total/NA
Barium	52		1.0	0.19	mg/Kg	1		✱	6010B	Total/NA
Beryllium	0.56		0.51	0.027	mg/Kg	1		✱	6010B	Total/NA
Boron	4.4	J	10	0.42	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.40	J	0.51	0.037	mg/Kg	1		✱	6010B	Total/NA
Chromium	13		1.0	0.14	mg/Kg	1		✱	6010B	Total/NA
Cobalt	5.3		1.0	0.029	mg/Kg	1		✱	6010B	Total/NA
Copper	9.5		2.0	0.20	mg/Kg	1		✱	6010B	Total/NA
Lead	10		0.51	0.15	mg/Kg	1		✱	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP21 (Continued)

Lab Sample ID: 280-96077-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	14		0.51	0.29	mg/Kg	1		✱	6010B	Total/NA
Molybdenum	0.27	J	2.0	0.13	mg/Kg	1		✱	6010B	Total/NA
Nickel	13		2.0	0.13	mg/Kg	1		✱	6010B	Total/NA
Selenium	0.75	J	1.0	0.20	mg/Kg	1		✱	6010B	Total/NA
Vanadium	18		1.0	0.051	mg/Kg	1		✱	6010B	Total/NA
Zinc	47		2.5	0.58	mg/Kg	1		✱	6010B	Total/NA
Thallium	0.13	J	0.25	0.070	mg/Kg	1		✱	6020	Total/NA
Mercury	0.038	J	0.13	0.012	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	13		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.20	J	0.43	0.11	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP23

Lab Sample ID: 280-96077-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	1.6		1.2	0.17	mg/Kg	1		✱	9056A	Total/NA
Arsenic	5.5		2.2	0.16	mg/Kg	1		✱	6010B	Total/NA
Barium	77		1.1	0.20	mg/Kg	1		✱	6010B	Total/NA
Beryllium	0.57		0.54	0.029	mg/Kg	1		✱	6010B	Total/NA
Boron	3.7	J	11	0.45	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.40	J	0.54	0.039	mg/Kg	1		✱	6010B	Total/NA
Chromium	12		1.1	0.14	mg/Kg	1		✱	6010B	Total/NA
Cobalt	5.5		1.1	0.030	mg/Kg	1		✱	6010B	Total/NA
Copper	9.6		2.2	0.22	mg/Kg	1		✱	6010B	Total/NA
Lead	11		0.54	0.16	mg/Kg	1		✱	6010B	Total/NA
Lithium	14		0.54	0.30	mg/Kg	1		✱	6010B	Total/NA
Molybdenum	0.35	J	2.2	0.13	mg/Kg	1		✱	6010B	Total/NA
Nickel	13		2.2	0.13	mg/Kg	1		✱	6010B	Total/NA
Selenium	0.38	J	1.1	0.21	mg/Kg	1		✱	6010B	Total/NA
Vanadium	18		1.1	0.054	mg/Kg	1		✱	6010B	Total/NA
Zinc	50		2.7	0.61	mg/Kg	1		✱	6010B	Total/NA
Thallium	0.12	J	0.27	0.074	mg/Kg	1		✱	6020	Total/NA
Mercury	0.041	J	0.12	0.011	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	12		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.15	J	0.43	0.11	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP25

Lab Sample ID: 280-96077-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	1.4		1.2	0.17	mg/Kg	1		✱	9056A	Total/NA
Arsenic	4.0		2.1	0.15	mg/Kg	1		✱	6010B	Total/NA
Barium	50		1.0	0.19	mg/Kg	1		✱	6010B	Total/NA
Beryllium	0.50	J	0.52	0.028	mg/Kg	1		✱	6010B	Total/NA
Boron	5.5	J	10	0.43	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.42	J	0.52	0.037	mg/Kg	1		✱	6010B	Total/NA
Chromium	12		1.0	0.14	mg/Kg	1		✱	6010B	Total/NA
Cobalt	5.7		1.0	0.029	mg/Kg	1		✱	6010B	Total/NA
Copper	7.8		2.1	0.21	mg/Kg	1		✱	6010B	Total/NA
Lead	8.2		0.52	0.16	mg/Kg	1		✱	6010B	Total/NA
Lithium	13		0.52	0.29	mg/Kg	1		✱	6010B	Total/NA
Nickel	12		2.1	0.13	mg/Kg	1		✱	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP25 (Continued)

Lab Sample ID: 280-96077-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Selenium	0.83	J	1.0	0.20	mg/Kg	1		✱	6010B	Total/NA
Vanadium	17		1.0	0.052	mg/Kg	1		✱	6010B	Total/NA
Zinc	39		2.6	0.59	mg/Kg	1		✱	6010B	Total/NA
Thallium	0.079	J	0.26	0.071	mg/Kg	1		✱	6020	Total/NA
Mercury	0.036	J	0.12	0.011	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	12		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.15	J	0.42	0.11	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: BAP26

Lab Sample ID: 280-96077-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	0.92	J	1.4	0.20	mg/Kg	1		✱	9056A	Total/NA
Arsenic	5.6		2.4	0.17	mg/Kg	1		✱	6010B	Total/NA
Barium	46		1.2	0.23	mg/Kg	1		✱	6010B	Total/NA
Beryllium	0.62		0.60	0.032	mg/Kg	1		✱	6010B	Total/NA
Boron	5.3	J	12	0.50	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.49	J	0.60	0.043	mg/Kg	1		✱	6010B	Total/NA
Chromium	14		1.2	0.16	mg/Kg	1		✱	6010B	Total/NA
Cobalt	6.5		1.2	0.034	mg/Kg	1		✱	6010B	Total/NA
Copper	11		2.4	0.24	mg/Kg	1		✱	6010B	Total/NA
Lead	11		0.60	0.18	mg/Kg	1		✱	6010B	Total/NA
Lithium	17		0.60	0.34	mg/Kg	1		✱	6010B	Total/NA
Molybdenum	0.18	J	2.4	0.15	mg/Kg	1		✱	6010B	Total/NA
Nickel	15		2.4	0.15	mg/Kg	1		✱	6010B	Total/NA
Selenium	1.9		1.2	0.24	mg/Kg	1		✱	6010B	Total/NA
Vanadium	19		1.2	0.060	mg/Kg	1		✱	6010B	Total/NA
Zinc	55		3.0	0.68	mg/Kg	1		✱	6010B	Total/NA
Thallium	0.12	J	0.30	0.083	mg/Kg	1		✱	6020	Total/NA
Mercury	0.032	J	0.15	0.013	mg/Kg	1		✱	7471A	Total/NA
Cr (III)	14		2.0	2.0	mg/Kg	1			7196A	Total/NA
Cr (VI)	0.19	J	0.54	0.13	mg/Kg	1		✱	7196A	Total/NA

Client Sample ID: ARP01

Lab Sample ID: 280-96077-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	1.7		1.2	0.17	mg/Kg	1		✱	9056A	Total/NA
Arsenic	4.7		2.1	0.15	mg/Kg	1		✱	6010B	Total/NA
Barium	63		1.0	0.20	mg/Kg	1		✱	6010B	Total/NA
Beryllium	0.53		0.52	0.028	mg/Kg	1		✱	6010B	Total/NA
Boron	3.4	J	10	0.43	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.37	J	0.52	0.037	mg/Kg	1		✱	6010B	Total/NA
Chromium	12		1.0	0.14	mg/Kg	1		✱	6010B	Total/NA
Cobalt	5.0		1.0	0.029	mg/Kg	1		✱	6010B	Total/NA
Copper	9.2		2.1	0.21	mg/Kg	1		✱	6010B	Total/NA
Lead	9.8		0.52	0.16	mg/Kg	1		✱	6010B	Total/NA
Lithium	13		0.52	0.29	mg/Kg	1		✱	6010B	Total/NA
Molybdenum	0.31	J	2.1	0.13	mg/Kg	1		✱	6010B	Total/NA
Nickel	12		2.1	0.13	mg/Kg	1		✱	6010B	Total/NA
Selenium	0.33	J	1.0	0.21	mg/Kg	1		✱	6010B	Total/NA
Vanadium	17		1.0	0.052	mg/Kg	1		✱	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: ARP01 (Continued)

Lab Sample ID: 280-96077-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	46		2.6	0.59	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.13	J	0.26	0.071	mg/Kg	1	☼	6020	Total/NA
Mercury	0.030	J	0.12	0.011	mg/Kg	1	☼	7471A	Total/NA
Cr (III)	12		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cr (VI)	0.21	J	0.45	0.11	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: ARP02

Lab Sample ID: 280-96077-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.8		1.4	0.20	mg/Kg	1	☼	9056A	Total/NA
Arsenic	4.9		2.5	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	69		1.3	0.24	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60	J	0.63	0.034	mg/Kg	1	☼	6010B	Total/NA
Boron	4.0	J	13	0.52	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.49	J	0.63	0.046	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		1.3	0.17	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.5		1.3	0.035	mg/Kg	1	☼	6010B	Total/NA
Copper	9.3		2.5	0.25	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.63	0.19	mg/Kg	1	☼	6010B	Total/NA
Lithium	16		0.63	0.35	mg/Kg	1	☼	6010B	Total/NA
Molybdenum	0.28	J	2.5	0.16	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		2.5	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		1.3	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		3.2	0.72	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.13	J	0.32	0.087	mg/Kg	1	☼	6020	Total/NA
Mercury	0.015	J	0.15	0.014	mg/Kg	1	☼	7471A	Total/NA
Cr (III)	15		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cr (VI)	0.26	J	0.56	0.14	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: ARP03

Lab Sample ID: 280-96077-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.6		1.1	0.16	mg/Kg	1	☼	9056A	Total/NA
Arsenic	4.5		2.1	0.15	mg/Kg	1	☼	6010B	Total/NA
Barium	72		1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.52	0.028	mg/Kg	1	☼	6010B	Total/NA
Boron	10		10	0.43	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36	J	0.52	0.038	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		1.0	0.14	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.9		1.0	0.029	mg/Kg	1	☼	6010B	Total/NA
Copper	8.0		2.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Lead	9.2		0.52	0.16	mg/Kg	1	☼	6010B	Total/NA
Lithium	13		0.52	0.29	mg/Kg	1	☼	6010B	Total/NA
Molybdenum	0.50	J	2.1	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		2.1	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.56	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		1.0	0.052	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		2.6	0.59	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.11	J	0.26	0.072	mg/Kg	1	☼	6020	Total/NA
Mercury	0.040	J	0.13	0.011	mg/Kg	1	☼	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: ARP03 (Continued)

Lab Sample ID: 280-96077-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (III)	12		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cr (VI)	0.31	J	0.45	0.11	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: ARP04

Lab Sample ID: 280-96077-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.4		1.2	0.17	mg/Kg	1	☼	9056A	Total/NA
Arsenic	4.6		1.9	0.14	mg/Kg	1	☼	6010B	Total/NA
Barium	56		0.96	0.18	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.48	0.026	mg/Kg	1	☼	6010B	Total/NA
Boron	4.2	J	9.6	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.39	J	0.48	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.96	0.13	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.4		0.96	0.027	mg/Kg	1	☼	6010B	Total/NA
Copper	8.2		1.9	0.19	mg/Kg	1	☼	6010B	Total/NA
Lead	9.6		0.48	0.15	mg/Kg	1	☼	6010B	Total/NA
Lithium	14		0.48	0.27	mg/Kg	1	☼	6010B	Total/NA
Molybdenum	0.33	J	1.9	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		1.9	0.12	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.26	J	0.96	0.19	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.96	0.048	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		2.4	0.55	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.13	J	0.24	0.066	mg/Kg	1	☼	6020	Total/NA
Mercury	0.045	J	0.12	0.011	mg/Kg	1	☼	7471A	Total/NA
Cr (III)	12		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cr (VI)	0.44	J	0.46	0.12	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: ARP05

Lab Sample ID: 280-96077-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.2		1.2	0.17	mg/Kg	1	☼	9056A	Total/NA
Arsenic	4.8		2.0	0.15	mg/Kg	1	☼	6010B	Total/NA
Barium	64		1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.51	0.028	mg/Kg	1	☼	6010B	Total/NA
Boron	5.4	J	10	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.41	J	0.51	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		1.0	0.14	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.6		1.0	0.029	mg/Kg	1	☼	6010B	Total/NA
Copper	8.8		2.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Lead	9.4		0.51	0.16	mg/Kg	1	☼	6010B	Total/NA
Lithium	15		0.51	0.29	mg/Kg	1	☼	6010B	Total/NA
Molybdenum	0.34	J	2.0	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		2.0	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.26	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		1.0	0.051	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		2.6	0.58	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.13	J	0.26	0.071	mg/Kg	1	☼	6020	Total/NA
Mercury	0.088	J	0.14	0.013	mg/Kg	1	☼	7471A	Total/NA
Cr (III)	13		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cr (VI)	0.26	J	0.45	0.11	mg/Kg	1	☼	7196A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Method Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	TAL SL
9056A	Anions, Ion Chromatography	SW846	TAL HOU
6010B	Metals (ICP)	SW846	TAL CC
6010C	Metals (ICP)	SW846	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL CC
6020A	Metals (ICP/MS)	SW846	TAL DEN
7471A	Mercury (CVAA)	SW846	TAL CC
7471A	Mercury (CVAA)	SW846	TAL DEN
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL DEN
7196A	Chromium, Hexavalent	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL CC
Moisture	Percent Moisture	EPA	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-95996-1	BAP03	Solid	04/17/17 10:00	04/17/17 16:35
280-95996-2	BAP12	Solid	04/17/17 10:21	04/17/17 16:35
280-95996-3	BAP20	Solid	04/17/17 10:29	04/17/17 16:35
280-95996-4	BAP22	Solid	04/17/17 10:45	04/17/17 16:35
280-95996-5	BAP24	Solid	04/17/17 11:05	04/17/17 16:35
280-95996-6	BAP15	Solid	04/17/17 11:43	04/17/17 16:35
280-95996-7	BAP08	Solid	04/17/17 12:05	04/17/17 16:35
280-95996-8	BAP01	Solid	04/17/17 12:17	04/17/17 16:35
280-95996-9	BAP19	Solid	04/17/17 12:34	04/17/17 16:35
280-95996-10	BAP18	Solid	04/17/17 12:45	04/17/17 16:35
280-95996-11	BAP10	Solid	04/17/17 13:02	04/17/17 16:35
280-95996-12	BAP09	Solid	04/17/17 13:10	04/17/17 16:35
280-95996-13	BAP16	Solid	04/17/17 13:18	04/17/17 16:35
280-95996-14	BAP13	Solid	04/17/17 13:28	04/17/17 16:35
280-95996-15	BAP14	Solid	04/17/17 13:35	04/17/17 16:35
280-95996-16	BAP17	Solid	04/17/17 13:54	04/17/17 16:35
280-95996-17	BAP07	Solid	04/17/17 14:10	04/17/17 16:35
280-95996-18	BAP06	Solid	04/17/17 14:15	04/17/17 16:35
280-96077-1	BAP02	Solid	04/17/17 15:25	04/19/17 10:30
280-96077-2	BAP04	Solid	04/17/17 15:37	04/19/17 10:30
280-96077-3	BAP05	Solid	04/17/17 15:07	04/19/17 10:30
280-96077-4	BAP11	Solid	04/17/17 15:48	04/19/17 10:30
280-96077-5	BAP21	Solid	04/17/17 16:12	04/19/17 10:30
280-96077-6	BAP23	Solid	04/17/17 16:00	04/19/17 10:30
280-96077-7	BAP25	Solid	04/17/17 17:00	04/19/17 10:30
280-96077-8	BAP26	Solid	04/17/17 16:45	04/19/17 10:30
280-96077-9	ARP01	Solid	04/17/17 17:54	04/19/17 10:30
280-96077-10	ARP02	Solid	04/17/17 18:00	04/19/17 10:30
280-96077-11	ARP03	Solid	04/17/17 17:35	04/19/17 10:30
280-96077-12	ARP04	Solid	04/17/17 17:42	04/19/17 10:30
280-96077-13	ARP05	Solid	04/17/17 17:47	04/19/17 10:30

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 9056A - Anions, Ion Chromatography

Client Sample ID: BAP02

Date Collected: 04/17/17 15:25

Date Received: 04/19/17 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.7		1.2	0.17	mg/Kg	☼	04/24/17 18:13	04/24/17 20:05	1

Lab Sample ID: 280-96077-1

Matrix: Solid

Percent Solids: 82.3

Client Sample ID: BAP04

Date Collected: 04/17/17 15:37

Date Received: 04/19/17 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.8		1.2	0.17	mg/Kg	☼	04/24/17 18:13	04/24/17 21:21	1

Lab Sample ID: 280-96077-2

Matrix: Solid

Percent Solids: 85.2

Client Sample ID: BAP05

Date Collected: 04/17/17 15:07

Date Received: 04/19/17 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.8		1.2	0.17	mg/Kg	☼	04/24/17 18:13	04/24/17 21:46	1

Lab Sample ID: 280-96077-3

Matrix: Solid

Percent Solids: 84.2

Client Sample ID: BAP11

Date Collected: 04/17/17 15:48

Date Received: 04/19/17 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.7		1.4	0.20	mg/Kg	☼	04/24/17 18:13	04/24/17 22:12	1

Lab Sample ID: 280-96077-4

Matrix: Solid

Percent Solids: 71.3

Client Sample ID: BAP21

Date Collected: 04/17/17 16:12

Date Received: 04/19/17 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.1	J	1.2	0.17	mg/Kg	☼	04/24/17 18:13	04/24/17 22:37	1

Lab Sample ID: 280-96077-5

Matrix: Solid

Percent Solids: 85.2

Client Sample ID: BAP23

Date Collected: 04/17/17 16:00

Date Received: 04/19/17 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.6		1.2	0.17	mg/Kg	☼	04/24/17 18:13	04/24/17 23:03	1

Lab Sample ID: 280-96077-6

Matrix: Solid

Percent Solids: 84.7

Client Sample ID: BAP25

Date Collected: 04/17/17 17:00

Date Received: 04/19/17 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.4		1.2	0.17	mg/Kg	☼	04/24/17 18:13	04/25/17 00:19	1

Lab Sample ID: 280-96077-7

Matrix: Solid

Percent Solids: 87.1

Client Sample ID: BAP26

Date Collected: 04/17/17 16:45

Date Received: 04/19/17 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.92	J	1.4	0.20	mg/Kg	☼	04/24/17 18:13	04/25/17 00:44	1

Lab Sample ID: 280-96077-8

Matrix: Solid

Percent Solids: 70.8

Client Sample ID: ARP01

Date Collected: 04/17/17 17:54

Date Received: 04/19/17 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.7		1.2	0.17	mg/Kg	☼	04/24/17 18:13	04/25/17 01:10	1

Lab Sample ID: 280-96077-9

Matrix: Solid

Percent Solids: 85.3

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 9056A - Anions, Ion Chromatography

Client Sample ID: ARP02
Date Collected: 04/17/17 18:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-10
Matrix: Solid
Percent Solids: 70.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.8		1.4	0.20	mg/Kg	☼	04/24/17 18:13	04/25/17 01:35	1

Client Sample ID: ARP03
Date Collected: 04/17/17 17:35
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-11
Matrix: Solid
Percent Solids: 89.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.6		1.1	0.16	mg/Kg	☼	04/24/17 18:13	04/25/17 02:01	1

Client Sample ID: ARP04
Date Collected: 04/17/17 17:42
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-12
Matrix: Solid
Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.4		1.2	0.17	mg/Kg	☼	04/24/17 18:13	04/25/17 02:26	1

Client Sample ID: ARP05
Date Collected: 04/17/17 17:47
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-13
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.2		1.2	0.17	mg/Kg	☼	04/24/17 18:13	04/25/17 02:51	1

Method: 9056A - Anions, Ion Chromatography - Soluble

Client Sample ID: BAP03
Date Collected: 04/17/17 10:00
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-1
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	7.4		2.3	0.70	mg/Kg	☼		04/20/17 17:45	1

Client Sample ID: BAP12
Date Collected: 04/17/17 10:21
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-2
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	5.9		2.1	0.64	mg/Kg	☼		04/20/17 18:45	1

Client Sample ID: BAP20
Date Collected: 04/17/17 10:29
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-3
Matrix: Solid
Percent Solids: 62.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	11	J	30	9.0	mg/Kg	☼		04/20/17 19:05	10

Client Sample ID: BAP22
Date Collected: 04/17/17 10:45
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-4
Matrix: Solid
Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	5.6		2.2	0.66	mg/Kg	☼		04/20/17 19:25	1

Client Sample ID: BAP24
Date Collected: 04/17/17 11:05
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-5
Matrix: Solid
Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	6.0		2.2	0.65	mg/Kg	☼		04/20/17 19:45	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 9056A - Anions, Ion Chromatography - Soluble

Client Sample ID: BAP15
Date Collected: 04/17/17 11:43
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-6
Matrix: Solid
Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	5.3		2.3	0.70	mg/Kg	☼		04/20/17 20:45	1

Client Sample ID: BAP08
Date Collected: 04/17/17 12:05
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-7
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	7.5		2.4	0.74	mg/Kg	☼		04/20/17 21:05	1

Client Sample ID: BAP01
Date Collected: 04/17/17 12:17
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-8
Matrix: Solid
Percent Solids: 82.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	4.8		2.3	0.70	mg/Kg	☼		04/20/17 21:25	1

Client Sample ID: BAP19
Date Collected: 04/17/17 12:34
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-9
Matrix: Solid
Percent Solids: 82.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	5.0		2.3	0.68	mg/Kg	☼		04/20/17 21:45	1

Client Sample ID: BAP18
Date Collected: 04/17/17 12:45
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-10
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	12		2.2	0.67	mg/Kg	☼		04/20/17 22:05	1

Client Sample ID: BAP10
Date Collected: 04/17/17 13:02
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-11
Matrix: Solid
Percent Solids: 84.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	6.3		2.2	0.66	mg/Kg	☼		04/20/17 22:25	1

Client Sample ID: BAP09
Date Collected: 04/17/17 13:10
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-12
Matrix: Solid
Percent Solids: 83.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	6.5		2.3	0.69	mg/Kg	☼		04/20/17 23:25	1

Client Sample ID: BAP16
Date Collected: 04/17/17 13:18
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-13
Matrix: Solid
Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	6.0		2.3	0.69	mg/Kg	☼		04/20/17 23:45	1

Client Sample ID: BAP13
Date Collected: 04/17/17 13:28
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-14
Matrix: Solid
Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	6.4		2.4	0.73	mg/Kg	☼		04/21/17 00:45	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 9056A - Anions, Ion Chromatography - Soluble

Client Sample ID: BAP14
Date Collected: 04/17/17 13:35
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-15
Matrix: Solid
Percent Solids: 83.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	12		2.3	0.69	mg/Kg	☼		04/21/17 01:05	1

Client Sample ID: BAP17
Date Collected: 04/17/17 13:54
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-16
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	7.1		2.3	0.68	mg/Kg	☼		04/21/17 01:25	1

Client Sample ID: BAP07
Date Collected: 04/17/17 14:10
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-17
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	5.6		2.3	0.69	mg/Kg	☼		04/21/17 01:45	1

Client Sample ID: BAP06
Date Collected: 04/17/17 14:15
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-18
Matrix: Solid
Percent Solids: 82.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	5.6		2.3	0.68	mg/Kg	☼		04/21/17 02:05	1

Method: 6010B - Metals (ICP)

Client Sample ID: BAP02
Date Collected: 04/17/17 15:25
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-1
Matrix: Solid
Percent Solids: 82.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.1	0.28	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Arsenic	4.7		2.1	0.15	mg/Kg	☼	04/21/17 14:00	04/24/17 16:42	1
Barium	52	F1 F2	1.1	0.20	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Beryllium	0.45	J	0.53	0.029	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Boron	5.1	J	11	0.44	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Cadmium	0.37	J	0.53	0.038	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Chromium	12		1.1	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Cobalt	4.8		1.1	0.030	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Copper	9.2		2.1	0.21	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Lead	11		0.53	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Lithium	13		0.53	0.30	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Molybdenum	0.36	J	2.1	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Nickel	13		2.1	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Selenium	0.68	J	1.1	0.21	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Silver	ND		0.53	0.12	mg/Kg	☼	04/21/17 14:00	04/24/17 16:42	1
Vanadium	17	F1 B	1.1	0.053	mg/Kg	☼	04/21/17 14:00	04/24/17 13:08	1
Zinc	48	B	2.6	0.60	mg/Kg	☼	04/21/17 14:00	04/24/17 16:42	1

Client Sample ID: BAP04
Date Collected: 04/17/17 15:37
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-2
Matrix: Solid
Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.1	0.28	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Arsenic	4.0		2.1	0.15	mg/Kg	☼	04/21/17 14:00	04/24/17 16:57	1
Barium	45		1.0	0.20	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: BAP04
Date Collected: 04/17/17 15:37
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-2
Matrix: Solid
Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.43	J	0.52	0.028	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Boron	4.3	J	10	0.43	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Cadmium	0.37	J	0.52	0.037	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Chromium	13		1.0	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Cobalt	5.0		1.0	0.029	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Copper	6.8		2.1	0.21	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Lead	8.5		0.52	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Lithium	14		0.52	0.29	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Molybdenum	0.22	J	2.1	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Nickel	12		2.1	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Selenium	0.54	J	1.0	0.21	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Silver	ND		0.52	0.11	mg/Kg	☼	04/21/17 14:00	04/24/17 16:57	1
Vanadium	18	B	1.0	0.052	mg/Kg	☼	04/21/17 14:00	04/24/17 13:23	1
Zinc	42		2.6	0.59	mg/Kg	☼	04/21/17 14:00	04/24/17 16:57	1

Client Sample ID: BAP05
Date Collected: 04/17/17 15:07
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-3
Matrix: Solid
Percent Solids: 84.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.2	0.30	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Arsenic	5.1		2.2	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 17:01	1
Barium	41		1.1	0.21	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Beryllium	0.43	J	0.56	0.030	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Boron	4.2	J	11	0.47	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Cadmium	0.34	J	0.56	0.040	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Chromium	11		1.1	0.15	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Cobalt	4.7		1.1	0.031	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Copper	7.4		2.2	0.23	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Lead	9.2		0.56	0.17	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Lithium	13		0.56	0.31	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Molybdenum	0.32	J	2.2	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Nickel	11		2.2	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Selenium	0.55	J	1.1	0.22	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Silver	ND		0.56	0.12	mg/Kg	☼	04/21/17 14:00	04/24/17 17:01	1
Vanadium	20	B	1.1	0.056	mg/Kg	☼	04/21/17 14:00	04/24/17 13:35	1
Zinc	41		2.8	0.64	mg/Kg	☼	04/21/17 14:00	04/24/17 17:01	1

Client Sample ID: BAP11
Date Collected: 04/17/17 15:48
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-4
Matrix: Solid
Percent Solids: 71.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.5	0.34	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Arsenic	5.6		2.5	0.18	mg/Kg	☼	04/21/17 14:00	04/24/17 17:05	1
Barium	52		1.3	0.24	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Beryllium	0.59	J	0.63	0.034	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Boron	18		13	0.52	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Cadmium	0.56	J	0.63	0.045	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Chromium	15		1.3	0.17	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Cobalt	7.9		1.3	0.035	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Copper	11		2.5	0.25	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: BAP11
Date Collected: 04/17/17 15:48
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-4
Matrix: Solid
Percent Solids: 71.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		0.63	0.19	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Lithium	21		0.63	0.35	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Molybdenum	0.45	J	2.5	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Nickel	16		2.5	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Selenium	0.77	J	1.3	0.25	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Silver	ND		0.63	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 17:05	1
Vanadium	21	B	1.3	0.063	mg/Kg	☼	04/21/17 14:00	04/24/17 13:39	1
Zinc	60		3.1	0.72	mg/Kg	☼	04/21/17 14:00	04/24/17 17:05	1

Client Sample ID: BAP21
Date Collected: 04/17/17 16:12
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-5
Matrix: Solid
Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.27	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Arsenic	4.7		2.0	0.15	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Barium	52		1.0	0.19	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Beryllium	0.56		0.51	0.027	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Boron	4.4	J	10	0.42	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Cadmium	0.40	J	0.51	0.037	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Chromium	13		1.0	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Cobalt	5.3		1.0	0.029	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Copper	9.5		2.0	0.20	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Lead	10		0.51	0.15	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Lithium	14		0.51	0.29	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Molybdenum	0.27	J	2.0	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Nickel	13		2.0	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Selenium	0.75	J	1.0	0.20	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Silver	ND		0.51	0.11	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Vanadium	18		1.0	0.051	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1
Zinc	47		2.5	0.58	mg/Kg	☼	04/21/17 14:00	04/24/17 17:08	1

Client Sample ID: BAP23
Date Collected: 04/17/17 16:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-6
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.2	0.29	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Arsenic	5.5		2.2	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Barium	77		1.1	0.20	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Beryllium	0.57		0.54	0.029	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Boron	3.7	J	11	0.45	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Cadmium	0.40	J	0.54	0.039	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Chromium	12		1.1	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Cobalt	5.5		1.1	0.030	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Copper	9.6		2.2	0.22	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Lead	11		0.54	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Lithium	14		0.54	0.30	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Molybdenum	0.35	J	2.2	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Nickel	13		2.2	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Selenium	0.38	J	1.1	0.21	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Silver	ND		0.54	0.12	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: BAP23
Date Collected: 04/17/17 16:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-6
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	18		1.1	0.054	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1
Zinc	50		2.7	0.61	mg/Kg	☼	04/21/17 14:00	04/24/17 17:12	1

Client Sample ID: BAP25
Date Collected: 04/17/17 17:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-7
Matrix: Solid
Percent Solids: 87.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.1	0.28	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Arsenic	4.0		2.1	0.15	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Barium	50		1.0	0.19	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Beryllium	0.50	J	0.52	0.028	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Boron	5.5	J	10	0.43	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Cadmium	0.42	J	0.52	0.037	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Chromium	12		1.0	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Cobalt	5.7		1.0	0.029	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Copper	7.8		2.1	0.21	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Lead	8.2		0.52	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Lithium	13		0.52	0.29	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Molybdenum	ND		2.1	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Nickel	12		2.1	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Selenium	0.83	J	1.0	0.20	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Silver	ND		0.52	0.11	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Vanadium	17		1.0	0.052	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1
Zinc	39		2.6	0.59	mg/Kg	☼	04/21/17 14:00	04/24/17 17:16	1

Client Sample ID: BAP26
Date Collected: 04/17/17 16:45
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-8
Matrix: Solid
Percent Solids: 70.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.4	0.32	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Arsenic	5.6		2.4	0.17	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Barium	46		1.2	0.23	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Beryllium	0.62		0.60	0.032	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Boron	5.3	J	12	0.50	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Cadmium	0.49	J	0.60	0.043	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Chromium	14		1.2	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Cobalt	6.5		1.2	0.034	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Copper	11		2.4	0.24	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Lead	11		0.60	0.18	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Lithium	17		0.60	0.34	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Molybdenum	0.18	J	2.4	0.15	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Nickel	15		2.4	0.15	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Selenium	1.9		1.2	0.24	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Silver	ND		0.60	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Vanadium	19		1.2	0.060	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1
Zinc	55		3.0	0.68	mg/Kg	☼	04/21/17 14:00	04/24/17 17:28	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010B - Metals (ICP)

Client Sample ID: ARP01
Date Collected: 04/17/17 17:54
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-9
Matrix: Solid
Percent Solids: 85.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.1	0.28	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Arsenic	4.7		2.1	0.15	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Barium	63		1.0	0.20	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Beryllium	0.53		0.52	0.028	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Boron	3.4	J	10	0.43	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Cadmium	0.37	J	0.52	0.037	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Chromium	12		1.0	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Cobalt	5.0		1.0	0.029	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Copper	9.2		2.1	0.21	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Lead	9.8		0.52	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Lithium	13		0.52	0.29	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Molybdenum	0.31	J	2.1	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Nickel	12		2.1	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Selenium	0.33	J	1.0	0.21	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Silver	ND		0.52	0.11	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Vanadium	17		1.0	0.052	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1
Zinc	46		2.6	0.59	mg/Kg	☼	04/21/17 14:00	04/24/17 17:31	1

Client Sample ID: ARP02
Date Collected: 04/17/17 18:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-10
Matrix: Solid
Percent Solids: 70.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.5	0.34	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Arsenic	4.9		2.5	0.18	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Barium	69		1.3	0.24	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Beryllium	0.60	J	0.63	0.034	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Boron	4.0	J	13	0.52	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Cadmium	0.49	J	0.63	0.046	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Chromium	15		1.3	0.17	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Cobalt	6.5		1.3	0.035	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Copper	9.3		2.5	0.25	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Lead	11		0.63	0.19	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Lithium	16		0.63	0.35	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Molybdenum	0.28	J	2.5	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Nickel	15		2.5	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Selenium	ND		1.3	0.25	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Silver	ND		0.63	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Vanadium	20		1.3	0.063	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1
Zinc	52		3.2	0.72	mg/Kg	☼	04/21/17 14:00	04/24/17 17:35	1

Client Sample ID: ARP03
Date Collected: 04/17/17 17:35
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-11
Matrix: Solid
Percent Solids: 89.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.1	0.28	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Arsenic	4.5		2.1	0.15	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Barium	72		1.0	0.20	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Beryllium	0.53		0.52	0.028	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Boron	10		10	0.43	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Cadmium	0.36	J	0.52	0.038	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: ARP03
Date Collected: 04/17/17 17:35
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-11
Matrix: Solid
Percent Solids: 89.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	12		1.0	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Cobalt	4.9		1.0	0.029	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Copper	8.0		2.1	0.21	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Lead	9.2		0.52	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Lithium	13		0.52	0.29	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Molybdenum	0.50	J	2.1	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Nickel	11		2.1	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Selenium	0.56	J	1.0	0.21	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Silver	ND		0.52	0.11	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Vanadium	19		1.0	0.052	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1
Zinc	42		2.6	0.59	mg/Kg	☼	04/21/17 14:00	04/24/17 17:39	1

Client Sample ID: ARP04
Date Collected: 04/17/17 17:42
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-12
Matrix: Solid
Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9	0.26	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Arsenic	4.6		1.9	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Barium	56		0.96	0.18	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Beryllium	0.53		0.48	0.026	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Boron	4.2	J	9.6	0.40	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Cadmium	0.39	J	0.48	0.035	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Chromium	12		0.96	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Cobalt	5.4		0.96	0.027	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Copper	8.2		1.9	0.19	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Lead	9.6		0.48	0.15	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Lithium	14		0.48	0.27	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Molybdenum	0.33	J	1.9	0.12	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Nickel	13		1.9	0.12	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Selenium	0.26	J	0.96	0.19	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Silver	ND		0.48	0.11	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Vanadium	18		0.96	0.048	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1
Zinc	45		2.4	0.55	mg/Kg	☼	04/21/17 14:00	04/24/17 17:43	1

Client Sample ID: ARP05
Date Collected: 04/17/17 17:47
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-13
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.27	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Arsenic	4.8		2.0	0.15	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Barium	64		1.0	0.19	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Beryllium	0.54		0.51	0.028	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Boron	5.4	J	10	0.42	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Cadmium	0.41	J	0.51	0.037	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Chromium	13		1.0	0.14	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Cobalt	5.6		1.0	0.029	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Copper	8.8		2.0	0.21	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Lead	9.4		0.51	0.16	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Lithium	15		0.51	0.29	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Molybdenum	0.34	J	2.0	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: ARP05
Date Collected: 04/17/17 17:47
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-13
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	13		2.0	0.13	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Selenium	0.26	J	1.0	0.20	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Silver	ND		0.51	0.11	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Vanadium	19		1.0	0.051	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1
Zinc	47		2.6	0.58	mg/Kg	☼	04/21/17 14:00	04/24/17 17:47	1

Method: 6010C - Metals (ICP)

Client Sample ID: BAP03
Date Collected: 04/17/17 10:00
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-1
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3	0.65	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Arsenic	6.8		1.8	0.59	mg/Kg	☼	04/21/17 14:30	04/24/17 11:44	1
Barium	43	B	0.88	0.092	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Beryllium	0.64		0.44	0.029	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Boron	6.4	J	8.8	0.87	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Cadmium	0.15	J	0.44	0.036	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Chromium	16		1.3	0.051	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Cobalt	6.5		0.88	0.088	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Copper	9.4		1.8	0.19	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Lead	10		0.79	0.27	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Lithium	15		4.4	0.80	mg/Kg	☼	04/21/17 14:30	04/22/17 17:48	1
Molybdenum	ND		1.8	0.23	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Nickel	13	B	3.5	0.12	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Selenium	ND		1.3	0.76	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Silver	ND		0.88	0.14	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Vanadium	22		1.8	0.083	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1
Zinc	51		2.6	0.35	mg/Kg	☼	04/21/17 14:30	04/22/17 03:16	1

Client Sample ID: BAP12
Date Collected: 04/17/17 10:21
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-2
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7	0.81	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Arsenic	5.4		2.2	0.74	mg/Kg	☼	04/21/17 14:30	04/24/17 11:56	1
Barium	65	B	1.1	0.12	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Beryllium	0.55		0.55	0.037	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Boron	6.1	J	11	1.1	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Cadmium	0.13	J	0.55	0.045	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Chromium	13		1.7	0.064	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Cobalt	4.8		1.1	0.11	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Copper	7.9		2.2	0.24	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Lead	8.7		1.0	0.34	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Lithium	13		5.5	1.0	mg/Kg	☼	04/21/17 14:30	04/22/17 18:00	1
Molybdenum	ND		2.2	0.29	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Nickel	11	B	4.4	0.15	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Selenium	ND		1.7	0.95	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Silver	ND		1.1	0.18	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1
Vanadium	18		2.2	0.10	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010C - Metals (ICP) (Continued)

Client Sample ID: BAP12
Date Collected: 04/17/17 10:21
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-2
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	42		3.3	0.44	mg/Kg	☼	04/21/17 14:30	04/22/17 03:28	1

Client Sample ID: BAP20
Date Collected: 04/17/17 10:29
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-3
Matrix: Solid
Percent Solids: 62.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.98	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Arsenic	13		2.7	0.89	mg/Kg	☼	04/21/17 14:30	04/24/17 11:59	1
Barium	1900	B	1.3	0.14	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Beryllium	1.4		0.67	0.044	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Boron	240		13	1.3	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Cadmium	0.60	J	0.67	0.055	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Chromium	36		2.0	0.078	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Cobalt	6.8		1.3	0.13	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Copper	69		2.7	0.29	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Lead	7.1		1.2	0.41	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Lithium	59		6.7	1.2	mg/Kg	☼	04/21/17 14:30	04/22/17 18:02	1
Molybdenum	0.76	J	2.7	0.35	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Nickel	25	B	5.3	0.18	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Selenium	ND		2.0	1.1	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Silver	ND		1.3	0.21	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Vanadium	77		2.7	0.13	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1
Zinc	92		4.0	0.53	mg/Kg	☼	04/21/17 14:30	04/22/17 03:30	1

Client Sample ID: BAP22
Date Collected: 04/17/17 10:45
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-4
Matrix: Solid
Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.2	0.59	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Arsenic	5.2		1.6	0.53	mg/Kg	☼	04/21/17 14:30	04/24/17 12:12	1
Barium	52	B	0.80	0.083	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Beryllium	0.65		0.40	0.026	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Boron	6.8	J	8.0	0.78	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Cadmium	0.16	J	0.40	0.033	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Chromium	16		1.2	0.046	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Cobalt	5.5		0.80	0.080	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Copper	9.6		1.6	0.17	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Lead	10		0.72	0.25	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Lithium	14		4.0	0.73	mg/Kg	☼	04/21/17 14:30	04/22/17 18:16	1
Molybdenum	ND		1.6	0.21	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Nickel	13	B	3.2	0.11	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Selenium	ND		1.2	0.69	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Silver	ND		0.80	0.13	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Vanadium	22		1.6	0.075	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1
Zinc	50		2.4	0.32	mg/Kg	☼	04/21/17 14:30	04/22/17 03:33	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010C - Metals (ICP)

Client Sample ID: BAP24
Date Collected: 04/17/17 11:05
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-5
Matrix: Solid
Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5	0.75	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Arsenic	5.8		2.1	0.68	mg/Kg	☼	04/21/17 14:30	04/24/17 12:15	1
Barium	72	B	1.0	0.11	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Beryllium	0.66		0.51	0.034	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Boron	6.3	J	10	1.0	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Cadmium	0.15	J	0.51	0.042	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Chromium	16		1.5	0.060	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Cobalt	5.5		1.0	0.10	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Copper	9.5		2.1	0.22	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Lead	10		0.92	0.32	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Lithium	15		5.1	0.93	mg/Kg	☼	04/21/17 14:30	04/22/17 18:18	1
Molybdenum	ND		2.1	0.27	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Nickel	13	B	4.1	0.14	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Selenium	ND		1.5	0.88	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Silver	ND		1.0	0.16	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Vanadium	22		2.1	0.097	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1
Zinc	52		3.1	0.41	mg/Kg	☼	04/21/17 14:30	04/22/17 03:46	1

Client Sample ID: BAP15
Date Collected: 04/17/17 11:43
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-6
Matrix: Solid
Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4	0.67	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Arsenic	5.5		1.8	0.61	mg/Kg	☼	04/21/17 14:30	04/24/17 12:17	1
Barium	61	B	0.92	0.096	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Beryllium	0.64		0.46	0.030	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Boron	7.2	J	9.2	0.90	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Cadmium	0.14	J	0.46	0.038	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Chromium	15		1.4	0.053	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Cobalt	5.7		0.92	0.092	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Copper	10		1.8	0.20	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Lead	10		0.83	0.29	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Lithium	15		4.6	0.84	mg/Kg	☼	04/21/17 14:30	04/22/17 18:21	1
Molybdenum	ND		1.8	0.24	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Nickel	14	B	3.7	0.12	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Selenium	1.4		1.4	0.79	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Silver	ND		0.92	0.15	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Vanadium	20		1.8	0.087	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1
Zinc	51		2.8	0.37	mg/Kg	☼	04/21/17 14:30	04/22/17 03:48	1

Client Sample ID: BAP08
Date Collected: 04/17/17 12:05
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-7
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3	0.63	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Arsenic	5.9		1.7	0.57	mg/Kg	☼	04/21/17 14:30	04/24/17 12:20	1
Barium	63	B	0.86	0.090	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Beryllium	0.68		0.43	0.028	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Boron	7.4	J	8.6	0.84	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Cadmium	0.17	J	0.43	0.035	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010C - Metals (ICP) (Continued)

Client Sample ID: BAP08
Date Collected: 04/17/17 12:05
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-7
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	16		1.3	0.050	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Cobalt	5.8		0.86	0.086	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Copper	11		1.7	0.19	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Lead	11		0.78	0.27	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Lithium	15		4.3	0.78	mg/Kg	☼	04/21/17 14:30	04/22/17 18:23	1
Molybdenum	ND		1.7	0.22	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Nickel	14	B	3.4	0.11	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Selenium	ND		1.3	0.74	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Silver	ND		0.86	0.14	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Vanadium	22		1.7	0.081	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1
Zinc	51		2.6	0.34	mg/Kg	☼	04/21/17 14:30	04/22/17 03:51	1

Client Sample ID: BAP01
Date Collected: 04/17/17 12:17
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-8
Matrix: Solid
Percent Solids: 82.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3	0.62	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Arsenic	5.8		1.7	0.56	mg/Kg	☼	04/21/17 14:30	04/24/17 12:22	1
Barium	54	B	0.85	0.088	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Beryllium	0.66		0.42	0.028	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Boron	6.3	J	8.5	0.83	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Cadmium	0.17	J	0.42	0.035	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Chromium	16		1.3	0.049	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Cobalt	5.6		0.85	0.085	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Copper	11		1.7	0.18	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Lead	11		0.76	0.26	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Lithium	14		4.2	0.77	mg/Kg	☼	04/21/17 14:30	04/22/17 18:26	1
Molybdenum	ND		1.7	0.22	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Nickel	14	B	3.4	0.11	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Selenium	ND		1.3	0.73	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Silver	ND		0.85	0.14	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Vanadium	23		1.7	0.080	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1
Zinc	54		2.5	0.34	mg/Kg	☼	04/21/17 14:30	04/22/17 03:53	1

Client Sample ID: BAP19
Date Collected: 04/17/17 12:34
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-9
Matrix: Solid
Percent Solids: 82.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7	0.81	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Arsenic	5.3		2.2	0.74	mg/Kg	☼	04/21/17 14:30	04/24/17 12:25	1
Barium	49	B	1.1	0.12	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Beryllium	0.66		0.56	0.037	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Boron	6.1	J	11	1.1	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Cadmium	0.17	J	0.56	0.046	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Chromium	16		1.7	0.064	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Cobalt	6.5		1.1	0.11	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Copper	10		2.2	0.24	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Lead	11		1.0	0.34	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Lithium	15		5.6	1.0	mg/Kg	☼	04/21/17 14:30	04/22/17 18:28	1
Molybdenum	ND		2.2	0.29	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010C - Metals (ICP) (Continued)

Client Sample ID: BAP19
Date Collected: 04/17/17 12:34
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-9
Matrix: Solid
Percent Solids: 82.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	14	B	4.4	0.15	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Selenium	ND		1.7	0.96	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Silver	ND		1.1	0.18	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Vanadium	21		2.2	0.10	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1
Zinc	49		3.3	0.44	mg/Kg	☼	04/21/17 14:30	04/22/17 03:56	1

Client Sample ID: BAP18
Date Collected: 04/17/17 12:45
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-10
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4	0.70	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Arsenic	4.8		1.9	0.64	mg/Kg	☼	04/21/17 14:30	04/24/17 12:27	1
Barium	100	B	0.96	0.10	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Beryllium	0.70		0.48	0.032	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Boron	11		9.6	0.94	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Cadmium	0.16	J	0.48	0.039	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Chromium	16		1.4	0.056	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Cobalt	6.5		0.96	0.096	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Copper	12		1.9	0.21	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Lead	11		0.86	0.30	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Lithium	15		4.8	0.87	mg/Kg	☼	04/21/17 14:30	04/22/17 18:31	1
Molybdenum	ND		1.9	0.25	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Nickel	15	B	3.8	0.13	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Selenium	ND		1.4	0.82	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Silver	ND		0.96	0.15	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Vanadium	23		1.9	0.090	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1
Zinc	53		2.9	0.38	mg/Kg	☼	04/21/17 14:30	04/22/17 03:58	1

Client Sample ID: BAP10
Date Collected: 04/17/17 13:02
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-11
Matrix: Solid
Percent Solids: 84.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5	0.72	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Arsenic	5.1		2.0	0.65	mg/Kg	☼	04/21/17 14:30	04/24/17 12:30	1
Barium	55	B	0.98	0.10	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Beryllium	0.63		0.49	0.032	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Boron	5.4	J	9.8	0.96	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Cadmium	0.18	J	0.49	0.040	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Chromium	15		1.5	0.057	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Cobalt	5.3		0.98	0.098	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Copper	9.3		2.0	0.21	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Lead	10		0.88	0.30	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Lithium	15		4.9	0.89	mg/Kg	☼	04/21/17 14:30	04/22/17 18:33	1
Molybdenum	ND		2.0	0.26	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Nickel	13	B	3.9	0.13	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Selenium	ND		1.5	0.85	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Silver	ND		0.98	0.16	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Vanadium	20		2.0	0.092	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1
Zinc	50		2.9	0.39	mg/Kg	☼	04/21/17 14:30	04/22/17 04:01	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010C - Metals (ICP)

Client Sample ID: BAP09
Date Collected: 04/17/17 13:10
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-12
Matrix: Solid
Percent Solids: 83.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.79	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Arsenic	6.3		2.1	0.71	mg/Kg	☼	04/21/17 14:30	04/24/17 12:58	1
Barium	50	B	1.1	0.11	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Beryllium	0.61		0.54	0.035	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Boron	5.3	J	11	1.1	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Cadmium	0.17	J	0.54	0.044	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Chromium	15		1.6	0.062	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Cobalt	5.3		1.1	0.11	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Copper	9.6		2.1	0.23	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Lead	10		0.97	0.33	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Lithium	15		5.4	0.98	mg/Kg	☼	04/21/17 14:30	04/22/17 18:46	1
Molybdenum	ND		2.1	0.28	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Nickel	13	B	4.3	0.14	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Selenium	ND		1.6	0.92	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Silver	ND		1.1	0.17	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Vanadium	18		2.1	0.10	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1
Zinc	46		3.2	0.43	mg/Kg	☼	04/21/17 14:30	04/22/17 04:03	1

Client Sample ID: BAP16
Date Collected: 04/17/17 13:18
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-13
Matrix: Solid
Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4	0.69	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Arsenic	5.7		1.9	0.63	mg/Kg	☼	04/21/17 14:30	04/24/17 13:01	1
Barium	57	B	0.94	0.098	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Beryllium	0.57		0.47	0.031	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Boron	4.9	J	9.4	0.92	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Cadmium	0.14	J	0.47	0.039	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Chromium	15		1.4	0.055	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Cobalt	5.3		0.94	0.094	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Copper	8.4		1.9	0.20	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Lead	9.1		0.85	0.29	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Lithium	15		4.7	0.86	mg/Kg	☼	04/21/17 14:30	04/22/17 18:49	1
Molybdenum	ND		1.9	0.24	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Nickel	12	B	3.8	0.12	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Selenium	ND		1.4	0.81	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Silver	ND		0.94	0.15	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Vanadium	19		1.9	0.089	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1
Zinc	47		2.8	0.37	mg/Kg	☼	04/21/17 14:30	04/22/17 04:06	1

Client Sample ID: BAP13
Date Collected: 04/17/17 13:28
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-14
Matrix: Solid
Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5	0.72	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Arsenic	5.7		2.0	0.66	mg/Kg	☼	04/21/17 14:30	04/24/17 13:03	1
Barium	59	B	0.99	0.10	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Beryllium	0.66		0.49	0.033	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Boron	6.1	J	9.9	0.97	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Cadmium	0.19	J	0.49	0.040	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010C - Metals (ICP) (Continued)

Client Sample ID: BAP13
Date Collected: 04/17/17 13:28
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-14
Matrix: Solid
Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	16		1.5	0.057	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Cobalt	5.4		0.99	0.099	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Copper	11		2.0	0.21	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Lead	12		0.89	0.31	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Lithium	15		4.9	0.90	mg/Kg	☼	04/21/17 14:30	04/22/17 18:51	1
Molybdenum	ND		2.0	0.26	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Nickel	14	B	3.9	0.13	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Selenium	ND		1.5	0.85	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Silver	ND		0.99	0.16	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Vanadium	21		2.0	0.093	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1
Zinc	53		3.0	0.39	mg/Kg	☼	04/21/17 14:30	04/22/17 04:08	1

Client Sample ID: BAP14
Date Collected: 04/17/17 13:35
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-15
Matrix: Solid
Percent Solids: 83.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5	0.71	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Arsenic	4.7		1.9	0.64	mg/Kg	☼	04/21/17 14:30	04/24/17 13:06	1
Barium	58	B	0.97	0.10	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Beryllium	0.65		0.48	0.032	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Boron	5.6	J	9.7	0.95	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Cadmium	0.16	J	0.48	0.040	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Chromium	15		1.5	0.056	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Cobalt	5.6		0.97	0.097	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Copper	11		1.9	0.21	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Lead	12		0.87	0.30	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Lithium	15		4.8	0.88	mg/Kg	☼	04/21/17 14:30	04/22/17 18:54	1
Molybdenum	ND		1.9	0.25	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Nickel	14	B	3.9	0.13	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Selenium	ND		1.5	0.83	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Silver	ND		0.97	0.15	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Vanadium	20		1.9	0.091	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1
Zinc	54		2.9	0.38	mg/Kg	☼	04/21/17 14:30	04/22/17 04:21	1

Client Sample ID: BAP17
Date Collected: 04/17/17 13:54
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-16
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.75	J	1.4	0.69	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Arsenic	5.1		1.9	0.62	mg/Kg	☼	04/21/17 14:30	04/24/17 13:08	1
Barium	54	B	0.94	0.098	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Beryllium	0.61		0.47	0.031	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Boron	5.0	J	9.4	0.92	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Cadmium	0.16	J	0.47	0.039	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Chromium	15		1.4	0.055	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Cobalt	5.2		0.94	0.094	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Copper	10		1.9	0.20	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Lead	11		0.85	0.29	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Lithium	14		4.7	0.86	mg/Kg	☼	04/21/17 14:30	04/22/17 18:56	1
Molybdenum	ND		1.9	0.24	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010C - Metals (ICP) (Continued)

Client Sample ID: BAP17
Date Collected: 04/17/17 13:54
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-16
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	13	B	3.8	0.12	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Selenium	ND		1.4	0.81	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Silver	ND		0.94	0.15	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Vanadium	18		1.9	0.088	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1
Zinc	50		2.8	0.37	mg/Kg	☼	04/21/17 14:30	04/22/17 04:24	1

Client Sample ID: BAP07
Date Collected: 04/17/17 14:10
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-17
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3	0.65	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Arsenic	4.4		1.8	0.59	mg/Kg	☼	04/21/17 14:30	04/24/17 13:11	1
Barium	37	B	0.88	0.092	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Beryllium	0.59		0.44	0.029	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Boron	4.7	J	8.8	0.86	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Cadmium	0.16	J	0.44	0.036	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Chromium	13		1.3	0.051	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Cobalt	5.1		0.88	0.088	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Copper	11		1.8	0.19	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Lead	11		0.79	0.27	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Lithium	15		4.4	0.80	mg/Kg	☼	04/21/17 14:30	04/22/17 18:59	1
Molybdenum	ND		1.8	0.23	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Nickel	11	B	3.5	0.12	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Selenium	ND		1.3	0.76	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Silver	ND		0.88	0.14	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Vanadium	16		1.8	0.083	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1
Zinc	49		2.6	0.35	mg/Kg	☼	04/21/17 14:30	04/22/17 04:26	1

Client Sample ID: BAP06
Date Collected: 04/17/17 14:15
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-18
Matrix: Solid
Percent Solids: 82.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.80	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Arsenic	5.1		2.2	0.73	mg/Kg	☼	04/21/17 14:30	04/24/17 13:13	1
Barium	43	B	1.1	0.11	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Beryllium	0.63		0.55	0.036	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Boron	7.4	J	11	1.1	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Cadmium	0.18	J	0.55	0.045	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Chromium	14		1.6	0.064	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Cobalt	5.1		1.1	0.11	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Copper	11		2.2	0.24	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Lead	13		0.99	0.34	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Lithium	16		5.5	1.0	mg/Kg	☼	04/21/17 14:30	04/22/17 19:01	1
Molybdenum	ND		2.2	0.29	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Nickel	14	B	4.4	0.14	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Selenium	ND		1.6	0.94	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Silver	ND		1.1	0.18	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Vanadium	17		2.2	0.10	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1
Zinc	52		3.3	0.44	mg/Kg	☼	04/21/17 14:30	04/22/17 04:29	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: BAP03
Date Collected: 04/17/17 10:00
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-1
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.13	F1 B	0.083	0.0029	mg/Kg	☼	04/19/17 14:15	04/20/17 02:40	1

Client Sample ID: BAP12
Date Collected: 04/17/17 10:21
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-2
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.13	B	0.088	0.0031	mg/Kg	☼	04/19/17 14:15	04/20/17 03:00	1

Client Sample ID: BAP20
Date Collected: 04/17/17 10:29
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-3
Matrix: Solid
Percent Solids: 62.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.16	B	0.12	0.0043	mg/Kg	☼	04/19/17 14:15	04/20/17 03:16	1

Client Sample ID: BAP22
Date Collected: 04/17/17 10:45
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-4
Matrix: Solid
Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.14	B	0.090	0.0032	mg/Kg	☼	04/19/17 14:15	04/20/17 03:20	1

Client Sample ID: BAP24
Date Collected: 04/17/17 11:05
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-5
Matrix: Solid
Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.14	B	0.10	0.0037	mg/Kg	☼	04/19/17 14:15	04/20/17 03:24	1

Client Sample ID: BAP15
Date Collected: 04/17/17 11:43
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-6
Matrix: Solid
Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.13	B	0.093	0.0033	mg/Kg	☼	04/19/17 14:15	04/20/17 03:28	1

Client Sample ID: BAP08
Date Collected: 04/17/17 12:05
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-7
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.18	B	0.082	0.0029	mg/Kg	☼	04/19/17 14:15	04/20/17 03:33	1

Client Sample ID: BAP01
Date Collected: 04/17/17 12:17
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-8
Matrix: Solid
Percent Solids: 82.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.13	B	0.086	0.0030	mg/Kg	☼	04/19/17 14:15	04/20/17 03:37	1

Client Sample ID: BAP19
Date Collected: 04/17/17 12:34
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-9
Matrix: Solid
Percent Solids: 82.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.14	B	0.098	0.0034	mg/Kg	☼	04/19/17 14:15	04/20/17 03:41	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: BAP18
Date Collected: 04/17/17 12:45
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-10
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.15	B	0.10	0.0036	mg/Kg	☼	04/19/17 14:15	04/20/17 03:45	1

Client Sample ID: BAP10
Date Collected: 04/17/17 13:02
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-11
Matrix: Solid
Percent Solids: 84.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.14	B	0.12	0.0040	mg/Kg	☼	04/19/17 14:15	04/20/17 04:01	1

Client Sample ID: BAP09
Date Collected: 04/17/17 13:10
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-12
Matrix: Solid
Percent Solids: 83.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.13	B	0.086	0.0030	mg/Kg	☼	04/19/17 14:15	04/20/17 04:06	1

Client Sample ID: BAP16
Date Collected: 04/17/17 13:18
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-13
Matrix: Solid
Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.11	B	0.092	0.0032	mg/Kg	☼	04/19/17 14:15	04/20/17 04:10	1

Client Sample ID: BAP13
Date Collected: 04/17/17 13:28
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-14
Matrix: Solid
Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.14	B	0.10	0.0036	mg/Kg	☼	04/19/17 14:15	04/20/17 04:14	1

Client Sample ID: BAP14
Date Collected: 04/17/17 13:35
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-15
Matrix: Solid
Percent Solids: 83.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.15	B	0.10	0.0036	mg/Kg	☼	04/19/17 14:15	04/20/17 04:18	1

Client Sample ID: BAP17
Date Collected: 04/17/17 13:54
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-16
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.14	B	0.081	0.0028	mg/Kg	☼	04/19/17 14:15	04/20/17 04:22	1

Client Sample ID: BAP07
Date Collected: 04/17/17 14:10
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-17
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.14	B	0.089	0.0031	mg/Kg	☼	04/19/17 14:15	04/20/17 04:26	1

Client Sample ID: BAP06
Date Collected: 04/17/17 14:15
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-18
Matrix: Solid
Percent Solids: 82.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.15	B	0.10	0.0035	mg/Kg	☼	04/19/17 14:15	04/20/17 04:30	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: BAP02
Date Collected: 04/17/17 15:25
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-1
Matrix: Solid
Percent Solids: 82.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.12	J	0.26	0.073	mg/Kg	☼	04/21/17 14:00	05/02/17 14:03	1

Client Sample ID: BAP04
Date Collected: 04/17/17 15:37
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-2
Matrix: Solid
Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.10	J	0.26	0.071	mg/Kg	☼	04/21/17 14:00	05/02/17 14:56	1

Client Sample ID: BAP05
Date Collected: 04/17/17 15:07
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-3
Matrix: Solid
Percent Solids: 84.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.11	J	0.28	0.077	mg/Kg	☼	04/21/17 14:00	05/02/17 15:01	1

Client Sample ID: BAP11
Date Collected: 04/17/17 15:48
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-4
Matrix: Solid
Percent Solids: 71.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.15	J	0.31	0.087	mg/Kg	☼	04/21/17 14:00	05/02/17 15:07	1

Client Sample ID: BAP21
Date Collected: 04/17/17 16:12
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-5
Matrix: Solid
Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.13	J	0.25	0.070	mg/Kg	☼	04/21/17 14:00	05/02/17 15:13	1

Client Sample ID: BAP23
Date Collected: 04/17/17 16:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-6
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.12	J	0.27	0.074	mg/Kg	☼	04/21/17 14:00	05/02/17 15:18	1

Client Sample ID: BAP25
Date Collected: 04/17/17 17:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-7
Matrix: Solid
Percent Solids: 87.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.079	J	0.26	0.071	mg/Kg	☼	04/21/17 14:00	05/02/17 15:23	1

Client Sample ID: BAP26
Date Collected: 04/17/17 16:45
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-8
Matrix: Solid
Percent Solids: 70.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.12	J	0.30	0.083	mg/Kg	☼	04/21/17 14:00	05/02/17 15:29	1

Client Sample ID: ARP01
Date Collected: 04/17/17 17:54
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-9
Matrix: Solid
Percent Solids: 85.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.13	J	0.26	0.071	mg/Kg	☼	04/21/17 14:00	05/02/17 15:34	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: ARP02
Date Collected: 04/17/17 18:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-10
Matrix: Solid
Percent Solids: 70.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.13	J	0.32	0.087	mg/Kg	☼	04/21/17 14:00	05/02/17 15:40	1

Client Sample ID: ARP03
Date Collected: 04/17/17 17:35
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-11
Matrix: Solid
Percent Solids: 89.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.11	J	0.26	0.072	mg/Kg	☼	04/21/17 14:00	05/02/17 15:45	1

Client Sample ID: ARP04
Date Collected: 04/17/17 17:42
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-12
Matrix: Solid
Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.13	J	0.24	0.066	mg/Kg	☼	04/21/17 14:00	05/02/17 16:22	1

Client Sample ID: ARP05
Date Collected: 04/17/17 17:47
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-13
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.13	J	0.26	0.071	mg/Kg	☼	04/21/17 14:00	05/02/17 16:27	1

Method: 7471A - Mercury (CVAA)

Client Sample ID: BAP03
Date Collected: 04/17/17 10:00
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-1
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.023	0.0075	mg/Kg	☼	04/19/17 12:39	04/19/17 17:20	1

Client Sample ID: BAP12
Date Collected: 04/17/17 10:21
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-2
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.020	0.0064	mg/Kg	☼	04/19/17 12:39	04/19/17 17:22	1

Client Sample ID: BAP20
Date Collected: 04/17/17 10:29
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-3
Matrix: Solid
Percent Solids: 62.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064		0.030	0.0098	mg/Kg	☼	04/19/17 12:39	04/19/17 17:24	1

Client Sample ID: BAP22
Date Collected: 04/17/17 10:45
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-4
Matrix: Solid
Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.023	0.0074	mg/Kg	☼	04/19/17 12:39	04/19/17 17:26	1

Client Sample ID: BAP24
Date Collected: 04/17/17 11:05
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-5
Matrix: Solid
Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.023	0.0076	mg/Kg	☼	04/19/17 12:39	04/19/17 17:29	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 7471A - Mercury (CVAA)

Client Sample ID: BAP15
Date Collected: 04/17/17 11:43
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-6
Matrix: Solid
Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.024	0.0078	mg/Kg	☼	04/19/17 12:39	04/19/17 17:31	1

Client Sample ID: BAP08
Date Collected: 04/17/17 12:05
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-7
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.025	0.0081	mg/Kg	☼	04/19/17 12:39	04/19/17 17:33	1

Client Sample ID: BAP01
Date Collected: 04/17/17 12:17
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-8
Matrix: Solid
Percent Solids: 82.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.023	0.0075	mg/Kg	☼	04/19/17 12:39	04/19/17 17:40	1

Client Sample ID: BAP19
Date Collected: 04/17/17 12:34
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-9
Matrix: Solid
Percent Solids: 82.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.025	0.0080	mg/Kg	☼	04/19/17 12:39	04/19/17 17:43	1

Client Sample ID: BAP18
Date Collected: 04/17/17 12:45
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-10
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.023	0.0074	mg/Kg	☼	04/19/17 12:39	04/19/17 17:45	1

Client Sample ID: BAP10
Date Collected: 04/17/17 13:02
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-11
Matrix: Solid
Percent Solids: 84.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.023	0.0076	mg/Kg	☼	04/19/17 12:39	04/19/17 17:47	1

Client Sample ID: BAP09
Date Collected: 04/17/17 13:10
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-12
Matrix: Solid
Percent Solids: 83.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.022	0.0071	mg/Kg	☼	04/19/17 12:39	04/19/17 17:49	1

Client Sample ID: BAP16
Date Collected: 04/17/17 13:18
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-13
Matrix: Solid
Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.021	0.0069	mg/Kg	☼	04/19/17 12:39	04/19/17 17:56	1

Client Sample ID: BAP13
Date Collected: 04/17/17 13:28
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-14
Matrix: Solid
Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.024	0.0080	mg/Kg	☼	04/19/17 12:39	04/19/17 17:58	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 7471A - Mercury (CVAA)

Client Sample ID: BAP14
Date Collected: 04/17/17 13:35
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-15
Matrix: Solid
Percent Solids: 83.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.021	0.0070	mg/Kg	☼	04/19/17 12:39	04/19/17 18:01	1

Client Sample ID: BAP17
Date Collected: 04/17/17 13:54
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-16
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.024	0.0077	mg/Kg	☼	04/19/17 12:39	04/19/17 18:03	1

Client Sample ID: BAP07
Date Collected: 04/17/17 14:10
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-17
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	J	0.024	0.0077	mg/Kg	☼	04/19/17 12:39	04/19/17 18:05	1

Client Sample ID: BAP06
Date Collected: 04/17/17 14:15
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-18
Matrix: Solid
Percent Solids: 82.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.022	0.0070	mg/Kg	☼	04/19/17 12:39	04/19/17 18:07	1

Client Sample ID: BAP02
Date Collected: 04/17/17 15:25
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-1
Matrix: Solid
Percent Solids: 82.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047	J	0.12	0.011	mg/Kg	☼	04/24/17 10:30	04/24/17 13:50	1

Client Sample ID: BAP04
Date Collected: 04/17/17 15:37
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-2
Matrix: Solid
Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028	J	0.13	0.012	mg/Kg	☼	04/24/17 10:30	04/24/17 13:55	1

Client Sample ID: BAP05
Date Collected: 04/17/17 15:07
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-3
Matrix: Solid
Percent Solids: 84.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026	J	0.13	0.011	mg/Kg	☼	04/24/17 10:30	04/24/17 13:57	1

Client Sample ID: BAP11
Date Collected: 04/17/17 15:48
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-4
Matrix: Solid
Percent Solids: 71.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034	J	0.14	0.013	mg/Kg	☼	04/24/17 10:30	04/24/17 13:59	1

Client Sample ID: BAP21
Date Collected: 04/17/17 16:12
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-5
Matrix: Solid
Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	J	0.13	0.012	mg/Kg	☼	04/24/17 10:30	04/24/17 14:01	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 7471A - Mercury (CVAA)

Client Sample ID: BAP23
Date Collected: 04/17/17 16:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-6
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041	J	0.12	0.011	mg/Kg	☼	04/24/17 10:30	04/24/17 14:03	1

Client Sample ID: BAP25
Date Collected: 04/17/17 17:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-7
Matrix: Solid
Percent Solids: 87.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036	J	0.12	0.011	mg/Kg	☼	04/24/17 10:30	04/24/17 14:05	1

Client Sample ID: BAP26
Date Collected: 04/17/17 16:45
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-8
Matrix: Solid
Percent Solids: 70.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032	J	0.15	0.013	mg/Kg	☼	04/24/17 10:30	04/24/17 14:07	1

Client Sample ID: ARP01
Date Collected: 04/17/17 17:54
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-9
Matrix: Solid
Percent Solids: 85.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030	J	0.12	0.011	mg/Kg	☼	04/24/17 10:30	04/24/17 14:09	1

Client Sample ID: ARP02
Date Collected: 04/17/17 18:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-10
Matrix: Solid
Percent Solids: 70.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.15	0.014	mg/Kg	☼	04/24/17 10:30	04/24/17 14:11	1

Client Sample ID: ARP03
Date Collected: 04/17/17 17:35
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-11
Matrix: Solid
Percent Solids: 89.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	J	0.13	0.011	mg/Kg	☼	04/24/17 10:30	04/24/17 14:16	1

Client Sample ID: ARP04
Date Collected: 04/17/17 17:42
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-12
Matrix: Solid
Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045	J	0.12	0.011	mg/Kg	☼	04/24/17 10:30	04/24/17 14:18	1

Client Sample ID: ARP05
Date Collected: 04/17/17 17:47
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-13
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088	J	0.14	0.013	mg/Kg	☼	04/24/17 10:30	04/24/17 14:20	1

General Chemistry

Client Sample ID: BAP03
Date Collected: 04/17/17 10:00
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-1
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	16		2.0	2.0	mg/Kg			04/25/17 15:01	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

General Chemistry (Continued)

Client Sample ID: BAP03
Date Collected: 04/17/17 10:00
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-1
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.25	J	0.44	0.11	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	15.2		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	84.8		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP12
Date Collected: 04/17/17 10:21
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-2
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	13		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.20	J	0.46	0.12	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	14.1		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	85.9		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP20
Date Collected: 04/17/17 10:29
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-3
Matrix: Solid
Percent Solids: 62.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	36		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	ND		0.59	0.15	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	37.2		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	62.8		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP22
Date Collected: 04/17/17 10:45
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-4
Matrix: Solid
Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	16		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.31	J	0.46	0.12	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	15.7		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	84.3		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP24
Date Collected: 04/17/17 11:05
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-5
Matrix: Solid
Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	16		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.23	J	0.41	0.10	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	14.5		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	85.5		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP15
Date Collected: 04/17/17 11:43
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-6
Matrix: Solid
Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	15		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.15	J	0.46	0.12	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	15.4		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	84.6		0.1	0.1	%			04/24/17 18:33	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

General Chemistry

Client Sample ID: BAP08
Date Collected: 04/17/17 12:05
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-7
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	16		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.15	J	0.48	0.12	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	18.3		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	81.7		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP01
Date Collected: 04/17/17 12:17
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-8
Matrix: Solid
Percent Solids: 82.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	16		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.20	J	0.46	0.12	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	17.7		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	82.3		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP19
Date Collected: 04/17/17 12:34
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-9
Matrix: Solid
Percent Solids: 82.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	16		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.25	J	0.44	0.11	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	17.2		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	82.8		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP18
Date Collected: 04/17/17 12:45
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-10
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	16		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.26	J	0.47	0.12	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	18.3		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	81.7		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP10
Date Collected: 04/17/17 13:02
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-11
Matrix: Solid
Percent Solids: 84.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	15		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.21	J	0.47	0.12	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	15.5		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	84.5		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP09
Date Collected: 04/17/17 13:10
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-12
Matrix: Solid
Percent Solids: 83.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	14		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.15	J	0.47	0.12	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	16.9		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	83.1		0.1	0.1	%			04/24/17 18:33	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

General Chemistry

Client Sample ID: BAP16
Date Collected: 04/17/17 13:18
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-13
Matrix: Solid
Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	14		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.70		0.46	0.12	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	15.3		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	84.7		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP13
Date Collected: 04/17/17 13:28
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-14
Matrix: Solid
Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	16		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.24	J	0.44	0.11	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	18.2		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	81.8		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP14
Date Collected: 04/17/17 13:35
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-15
Matrix: Solid
Percent Solids: 83.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	15		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.25	J	0.46	0.11	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	16.4		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	83.6		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP17
Date Collected: 04/17/17 13:54
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-16
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	14		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.24	J	0.44	0.11	mg/Kg	☼	04/21/17 07:52	04/24/17 06:38	1
Percent Moisture	17.0		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	83.0		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP07
Date Collected: 04/17/17 14:10
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-17
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	13		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.44		0.42	0.11	mg/Kg	☼	04/21/17 07:52	04/24/17 06:39	1
Percent Moisture	15.2		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	84.8		0.1	0.1	%			04/24/17 18:33	1

Client Sample ID: BAP06
Date Collected: 04/17/17 14:15
Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-18
Matrix: Solid
Percent Solids: 82.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	14		2.0	2.0	mg/Kg			04/25/17 15:01	1
Cr (VI)	0.31	J	0.46	0.11	mg/Kg	☼	04/21/17 07:52	04/24/17 06:39	1
Percent Moisture	17.4		0.1	0.1	%			04/24/17 18:33	1
Percent Solids	82.6		0.1	0.1	%			04/24/17 18:33	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

General Chemistry

Client Sample ID: BAP02
Date Collected: 04/17/17 15:25
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-1
Matrix: Solid
Percent Solids: 82.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	12		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.15	J	0.44	0.11	mg/Kg	☼	04/25/17 08:44	04/26/17 07:42	1
Percent Moisture	17.7		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	82.3		0.1	0.1	%			04/21/17 10:54	1

Client Sample ID: BAP04
Date Collected: 04/17/17 15:37
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-2
Matrix: Solid
Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	13		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.28	J	0.47	0.12	mg/Kg	☼	04/25/17 08:44	04/26/17 07:42	1
Percent Moisture	14.8		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	85.2		0.1	0.1	%			04/21/17 10:54	1

Client Sample ID: BAP05
Date Collected: 04/17/17 15:07
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-3
Matrix: Solid
Percent Solids: 84.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	11		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.27	J	0.47	0.12	mg/Kg	☼	04/25/17 08:44	04/26/17 07:42	1
Percent Moisture	15.8		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	84.2		0.1	0.1	%			04/21/17 10:54	1

Client Sample ID: BAP11
Date Collected: 04/17/17 15:48
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-4
Matrix: Solid
Percent Solids: 71.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	15		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.25	J	0.53	0.13	mg/Kg	☼	04/25/17 08:44	04/26/17 07:42	1
Percent Moisture	28.7		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	71.3		0.1	0.1	%			04/21/17 10:54	1

Client Sample ID: BAP21
Date Collected: 04/17/17 16:12
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-5
Matrix: Solid
Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	13		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.20	J	0.43	0.11	mg/Kg	☼	04/25/17 08:44	04/26/17 07:42	1
Percent Moisture	14.8		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	85.2		0.1	0.1	%			04/21/17 10:54	1

Client Sample ID: BAP23
Date Collected: 04/17/17 16:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-6
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	12		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.15	J	0.43	0.11	mg/Kg	☼	04/25/17 08:44	04/26/17 07:42	1
Percent Moisture	15.3		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	84.7		0.1	0.1	%			04/21/17 10:54	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

General Chemistry

Client Sample ID: BAP25
Date Collected: 04/17/17 17:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-7
Matrix: Solid
Percent Solids: 87.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	12		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.15	J	0.42	0.11	mg/Kg	☼	04/25/17 08:44	04/26/17 07:42	1
Percent Moisture	12.9		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	87.1		0.1	0.1	%			04/21/17 10:54	1

Client Sample ID: BAP26
Date Collected: 04/17/17 16:45
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-8
Matrix: Solid
Percent Solids: 70.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	14		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.19	J	0.54	0.13	mg/Kg	☼	04/25/17 08:44	04/26/17 07:42	1
Percent Moisture	29.2		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	70.8		0.1	0.1	%			04/21/17 10:54	1

Client Sample ID: ARP01
Date Collected: 04/17/17 17:54
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-9
Matrix: Solid
Percent Solids: 85.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	12		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.21	J	0.45	0.11	mg/Kg	☼	04/25/17 08:44	04/26/17 07:42	1
Percent Moisture	14.7		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	85.3		0.1	0.1	%			04/21/17 10:54	1

Client Sample ID: ARP02
Date Collected: 04/17/17 18:00
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-10
Matrix: Solid
Percent Solids: 70.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	15		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.26	J	0.56	0.14	mg/Kg	☼	04/25/17 08:44	04/26/17 07:42	1
Percent Moisture	29.2		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	70.8		0.1	0.1	%			04/21/17 10:54	1

Client Sample ID: ARP03
Date Collected: 04/17/17 17:35
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-11
Matrix: Solid
Percent Solids: 89.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	12		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.31	J	0.45	0.11	mg/Kg	☼	04/25/17 08:44	04/26/17 07:42	1
Percent Moisture	10.5		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	89.5		0.1	0.1	%			04/21/17 10:54	1

Client Sample ID: ARP04
Date Collected: 04/17/17 17:42
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-12
Matrix: Solid
Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	12		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.44	J	0.46	0.12	mg/Kg	☼	04/25/17 08:44	04/26/17 07:42	1
Percent Moisture	16.3		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	83.7		0.1	0.1	%			04/21/17 10:54	1

TestAmerica Denver

Client Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

General Chemistry

Client Sample ID: ARP05
Date Collected: 04/17/17 17:47
Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-13
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	13		2.0	2.0	mg/Kg			04/26/17 12:45	1
Cr (VI)	0.26	J	0.45	0.11	mg/Kg	⚠	04/25/17 08:44	04/26/17 07:44	1
Percent Moisture	17.0		0.1	0.1	%			04/21/17 10:54	1
Percent Solids	83.0		0.1	0.1	%			04/21/17 10:54	1

QC Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 160-305207/1-A
Matrix: Solid
Analysis Batch: 305190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		1.0	0.14	mg/Kg		04/24/17 18:13	04/24/17 19:14	1

Lab Sample ID: LCS 160-305207/2-A
Matrix: Solid
Analysis Batch: 305190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 305207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	9.84		mg/Kg		98	80 - 120

Lab Sample ID: 280-96077-1 MS
Matrix: Solid
Analysis Batch: 305190

Client Sample ID: BAP02
Prep Type: Total/NA
Prep Batch: 305207

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.7		24.1	26.3		mg/Kg	☼	98	80 - 123

Lab Sample ID: 280-96077-1 MSD
Matrix: Solid
Analysis Batch: 305190

Client Sample ID: BAP02
Prep Type: Total/NA
Prep Batch: 305207

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	2.7		24.4	25.4		mg/Kg	☼	93	80 - 123	4	15

Lab Sample ID: MB 600-211175/1-A
Matrix: Solid
Analysis Batch: 211203

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		2.0	0.60	mg/Kg			04/20/17 17:05	1

Lab Sample ID: LCS 600-211175/2-A
Matrix: Solid
Analysis Batch: 211203

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	75.0	76.2		mg/Kg		102	90 - 110

Lab Sample ID: 280-95996-1 MS
Matrix: Solid
Analysis Batch: 211203

Client Sample ID: BAP03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	7.4		22.2	29.6		mg/Kg	☼	100	80 - 120

Lab Sample ID: 280-95996-1 MSD
Matrix: Solid
Analysis Batch: 211203

Client Sample ID: BAP03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	7.4		22.2	25.4		mg/Kg	☼	81	80 - 120	15	20

TestAmerica Denver

QC Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Lab Sample ID: 280-95996-11 MS
Matrix: Solid
Analysis Batch: 211203

Client Sample ID: BAP10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	6.3		21.7	23.9		mg/Kg	✱	81	80 - 120

Lab Sample ID: 280-95996-11 MSD
Matrix: Solid
Analysis Batch: 211203

Client Sample ID: BAP10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	6.3		21.8	25.0		mg/Kg	✱	86	80 - 120	5	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 560-138747/1-A
Matrix: Solid
Analysis Batch: 138789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 138747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.27	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Barium	ND		1.0	0.19	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Beryllium	ND		0.50	0.027	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Boron	ND		10	0.41	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Cadmium	ND		0.50	0.036	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Chromium	ND		1.0	0.13	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Cobalt	ND		1.0	0.028	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Copper	ND		2.0	0.20	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Lead	ND		0.50	0.15	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Lithium	ND		0.50	0.28	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Molybdenum	ND		2.0	0.13	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Nickel	ND		2.0	0.12	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Selenium	ND		1.0	0.20	mg/Kg		04/21/17 14:00	04/24/17 13:00	1
Vanadium	0.0915	J	1.0	0.050	mg/Kg		04/21/17 14:00	04/24/17 13:00	1

Lab Sample ID: MB 560-138747/1-A
Matrix: Solid
Analysis Batch: 138843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 138747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.15	mg/Kg		04/21/17 14:00	04/25/17 13:48	1
Silver	ND		0.50	0.11	mg/Kg		04/21/17 14:00	04/25/17 13:48	1
Zinc	0.917	J	2.5	0.57	mg/Kg		04/21/17 14:00	04/25/17 13:48	1

Lab Sample ID: LCS 560-138747/2-A
Matrix: Solid
Analysis Batch: 138789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	12.5	12.8		mg/Kg		103	80 - 120
Barium	12.5	13.2		mg/Kg		106	80 - 120
Beryllium	12.5	13.0		mg/Kg		104	80 - 120
Boron	12.5	12.1		mg/Kg		97	80 - 120
Cadmium	12.5	13.2		mg/Kg		106	80 - 120
Chromium	12.5	13.7		mg/Kg		110	80 - 120

TestAmerica Denver

QC Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 560-138747/2-A
Matrix: Solid
Analysis Batch: 138789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138747
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cobalt	12.5	13.3		mg/Kg		106	80 - 120
Copper	12.5	12.5		mg/Kg		100	80 - 120
Lead	12.5	12.9		mg/Kg		103	80 - 120
Lithium	12.5	13.3		mg/Kg		106	80 - 120
Molybdenum	12.5	13.6		mg/Kg		109	80 - 120
Nickel	12.5	13.3		mg/Kg		106	80 - 120
Selenium	12.5	10.8		mg/Kg		87	80 - 120
Vanadium	12.5	14.1		mg/Kg		113	80 - 120

Lab Sample ID: LCS 560-138747/2-A
Matrix: Solid
Analysis Batch: 138815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138747
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	12.5	12.5		mg/Kg		100	80 - 120
Silver	12.5	12.7		mg/Kg		102	80 - 120
Zinc	12.5	13.3		mg/Kg		107	80 - 120

Lab Sample ID: 280-96077-1 MS
Matrix: Solid
Analysis Batch: 138789

Client Sample ID: BAP02
Prep Type: Total/NA
Prep Batch: 138747
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	ND		14.3	11.5		mg/Kg	✱	81	75 - 125
Barium	52	F1 F2	14.3	82.5	F1	mg/Kg	✱	210	75 - 125
Beryllium	0.45	J	14.3	13.5		mg/Kg	✱	91	75 - 125
Boron	5.1	J	14.3	19.4		mg/Kg	✱	100	75 - 125
Cadmium	0.37	J	14.3	14.4		mg/Kg	✱	98	75 - 125
Chromium	12		14.3	28.1		mg/Kg	✱	115	75 - 125
Cobalt	4.8		14.3	18.7		mg/Kg	✱	97	75 - 125
Copper	9.2		14.3	21.9		mg/Kg	✱	89	75 - 125
Lead	11		14.3	22.4		mg/Kg	✱	82	75 - 125
Lithium	13		14.3	29.6		mg/Kg	✱	114	75 - 125
Molybdenum	0.36	J	14.3	13.3		mg/Kg	✱	90	75 - 125
Nickel	13		14.3	25.5		mg/Kg	✱	91	75 - 125
Selenium	0.68	J	14.3	12.0		mg/Kg	✱	79	75 - 125
Vanadium	17	F1 B	14.3	36.9	F1	mg/Kg	✱	136	75 - 125

Lab Sample ID: 280-96077-1 MS
Matrix: Solid
Analysis Batch: 138815

Client Sample ID: BAP02
Prep Type: Total/NA
Prep Batch: 138747
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	4.7		14.3	17.7		mg/Kg	✱	91	75 - 125
Silver	ND		14.3	13.4		mg/Kg	✱	94	75 - 125
Zinc	48	B	14.3	58.8	F1	mg/Kg	✱	73	75 - 125

TestAmerica Denver

QC Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-96077-1 MSD
Matrix: Solid
Analysis Batch: 138789

Client Sample ID: BAP02
Prep Type: Total/NA
Prep Batch: 138747

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	ND		13.2	10.4		mg/Kg	✱	79	75 - 125	10	20
Barium	52	F1 F2	13.2	114	F1 F2	mg/Kg	✱	464	75 - 125	32	20
Beryllium	0.45	J	13.2	12.4		mg/Kg	✱	90	75 - 125	9	20
Boron	5.1	J	13.2	21.5		mg/Kg	✱	124	75 - 125	10	20
Cadmium	0.37	J	13.2	13.2		mg/Kg	✱	98	75 - 125	8	20
Chromium	12		13.2	26.1		mg/Kg	✱	110	75 - 125	7	20
Cobalt	4.8		13.2	16.5		mg/Kg	✱	89	75 - 125	13	20
Copper	9.2		13.2	20.2		mg/Kg	✱	84	75 - 125	8	20
Lead	11		13.2	20.5		mg/Kg	✱	75	75 - 125	9	20
Lithium	13		13.2	27.8		mg/Kg	✱	111	75 - 125	6	20
Molybdenum	0.36	J	13.2	12.2		mg/Kg	✱	90	75 - 125	8	20
Nickel	13		13.2	24.0		mg/Kg	✱	87	75 - 125	6	20
Selenium	0.68	J	13.2	11.1		mg/Kg	✱	79	75 - 125	8	20
Vanadium	17	F1 B	13.2	34.3	F1	mg/Kg	✱	128	75 - 125	7	20

Lab Sample ID: 280-96077-1 MSD
Matrix: Solid
Analysis Batch: 138815

Client Sample ID: BAP02
Prep Type: Total/NA
Prep Batch: 138747

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	4.7		13.2	16.2		mg/Kg	✱	88	75 - 125	9	20
Silver	ND		13.2	12.2		mg/Kg	✱	92	75 - 125	10	20
Zinc	48	B	13.2	56.1	F1	mg/Kg	✱	59	75 - 125	5	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 280-370355/1-A
Matrix: Solid
Analysis Batch: 370500

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 370355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5	0.73	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Barium	0.158	J	1.0	0.10	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Beryllium	ND		0.50	0.033	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Boron	ND		10	0.98	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Cadmium	ND		0.50	0.041	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Chromium	ND		1.5	0.058	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Cobalt	ND		1.0	0.10	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Copper	ND		2.0	0.22	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Lead	ND		0.90	0.31	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Molybdenum	ND		2.0	0.26	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Nickel	0.162	J	4.0	0.13	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Selenium	ND		1.5	0.86	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Silver	ND		1.0	0.16	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Vanadium	ND		2.0	0.094	mg/Kg		04/21/17 14:30	04/22/17 03:11	1
Zinc	ND		3.0	0.40	mg/Kg		04/21/17 14:30	04/22/17 03:11	1

TestAmerica Denver

QC Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 280-370355/1-A
Matrix: Solid
Analysis Batch: 370560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 370355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		5.0	0.91	mg/Kg		04/21/17 14:30	04/22/17 17:43	1

Lab Sample ID: MB 280-370355/1-A
Matrix: Solid
Analysis Batch: 370741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 370355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.67	mg/Kg		04/21/17 14:30	04/24/17 11:39	1

Lab Sample ID: LCS 280-370355/2-A
Matrix: Solid
Analysis Batch: 370500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.4		mg/Kg		99	82 - 110
Barium	200	203		mg/Kg		102	87 - 112
Beryllium	5.00	5.04		mg/Kg		101	84 - 114
Boron	100	95.0		mg/Kg		95	80 - 120
Cadmium	10.0	10.3		mg/Kg		103	87 - 110
Chromium	20.0	20.5		mg/Kg		103	84 - 114
Cobalt	50.0	48.3		mg/Kg		97	87 - 110
Copper	25.0	23.3		mg/Kg		93	88 - 110
Lead	50.0	48.0		mg/Kg		96	86 - 110
Molybdenum	100	99.7		mg/Kg		100	86 - 110
Nickel	50.0	48.0		mg/Kg		96	87 - 110
Selenium	200	199		mg/Kg		100	83 - 110
Silver	5.00	4.73		mg/Kg		95	87 - 114
Vanadium	50.0	45.0		mg/Kg		90	88 - 110
Zinc	50.0	46.6		mg/Kg		93	76 - 114

Lab Sample ID: LCS 280-370355/2-A
Matrix: Solid
Analysis Batch: 370560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	100	97.9		mg/Kg		98	90 - 110

Lab Sample ID: LCS 280-370355/2-A
Matrix: Solid
Analysis Batch: 370741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	100		mg/Kg		100	85 - 110

TestAmerica Denver

QC Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 280-95996-1 MS

Matrix: Solid

Analysis Batch: 370500

Client Sample ID: BAP03

Prep Type: Total/NA

Prep Batch: 370355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	ND		44.0	15.3		mg/Kg	☼	35	20 - 200
Barium	43	B	176	197		mg/Kg	☼	87	52 - 159
Beryllium	0.64		4.40	4.42		mg/Kg	☼	86	72 - 105
Boron	6.4	J	87.9	76.6		mg/Kg	☼	80	80 - 120
Cadmium	0.15	J	8.79	7.67		mg/Kg	☼	86	40 - 130
Chromium	16		17.6	37.0		mg/Kg	☼	121	70 - 200
Cobalt	6.5		44.0	39.7		mg/Kg	☼	75	72 - 106
Copper	9.4		22.0	27.8		mg/Kg	☼	84	37 - 187
Lead	10		44.0	43.6		mg/Kg	☼	75	70 - 200
Molybdenum	ND		87.9	67.5		mg/Kg	☼	77	75 - 103
Nickel	13	B	44.0	46.2		mg/Kg	☼	76	61 - 126
Selenium	ND		176	146		mg/Kg	☼	83	76 - 104
Silver	ND		4.40	3.47		mg/Kg	☼	79	75 - 141
Vanadium	22		44.0	72.7		mg/Kg	☼	114	50 - 169
Zinc	51		44.0	88.6		mg/Kg	☼	86	70 - 200

Lab Sample ID: 280-95996-1 MS

Matrix: Solid

Analysis Batch: 370560

Client Sample ID: BAP03

Prep Type: Total/NA

Prep Batch: 370355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lithium	15		87.9	93.1		mg/Kg	☼	89	84 - 109

Lab Sample ID: 280-95996-1 MS

Matrix: Solid

Analysis Batch: 370741

Client Sample ID: BAP03

Prep Type: Total/NA

Prep Batch: 370355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	6.8		87.9	82.4		mg/Kg	☼	86	76 - 111

Lab Sample ID: 280-95996-1 MSD

Matrix: Solid

Analysis Batch: 370500

Client Sample ID: BAP03

Prep Type: Total/NA

Prep Batch: 370355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	ND		42.4	15.3		mg/Kg	☼	36	20 - 200	0	20
Barium	43	B	170	216		mg/Kg	☼	102	52 - 159	9	20
Beryllium	0.64		4.24	4.36		mg/Kg	☼	88	72 - 105	1	20
Boron	6.4	J	84.8	77.1		mg/Kg	☼	83	80 - 120	1	20
Cadmium	0.15	J	8.48	7.67		mg/Kg	☼	89	40 - 130	0	20
Chromium	16		17.0	37.5		mg/Kg	☼	128	70 - 200	1	20
Cobalt	6.5		42.4	38.5		mg/Kg	☼	75	72 - 106	3	20
Copper	9.4		21.2	27.0		mg/Kg	☼	83	37 - 187	3	20
Lead	10		42.4	42.6		mg/Kg	☼	76	70 - 200	2	20
Molybdenum	ND		84.8	67.4		mg/Kg	☼	80	75 - 103	0	20
Nickel	13	B	42.4	46.0		mg/Kg	☼	78	61 - 126	0	20
Selenium	ND		170	144		mg/Kg	☼	85	76 - 104	1	20
Silver	ND		4.24	3.42		mg/Kg	☼	81	75 - 141	2	20
Vanadium	22		42.4	71.9		mg/Kg	☼	117	50 - 169	1	20

TestAmerica Denver

QC Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 280-95996-1 MSD
Matrix: Solid
Analysis Batch: 370500

Client Sample ID: BAP03
Prep Type: Total/NA
Prep Batch: 370355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	51		42.4	83.4		mg/Kg	☼	77	70 - 200	6	20

Lab Sample ID: 280-95996-1 MSD
Matrix: Solid
Analysis Batch: 370560

Client Sample ID: BAP03
Prep Type: Total/NA
Prep Batch: 370355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	15		84.8	89.9		mg/Kg	☼	89	84 - 109	4	20

Lab Sample ID: 280-95996-1 MSD
Matrix: Solid
Analysis Batch: 370741

Client Sample ID: BAP03
Prep Type: Total/NA
Prep Batch: 370355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.8		84.8	76.3		mg/Kg	☼	82	76 - 111	8	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 560-138745/1-A
Matrix: Solid
Analysis Batch: 139096

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 138745

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.25	0.069	mg/Kg		04/21/17 14:00	05/02/17 13:58	1

Lab Sample ID: LCS 560-138745/2-A
Matrix: Solid
Analysis Batch: 139096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	5.00	5.23		mg/Kg		105	80 - 120

Lab Sample ID: 280-96077-1 MS
Matrix: Solid
Analysis Batch: 139096

Client Sample ID: BAP02
Prep Type: Total/NA
Prep Batch: 138745

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.12	J	5.72	5.91		mg/Kg	☼	101	75 - 125

Lab Sample ID: 280-96077-1 MSD
Matrix: Solid
Analysis Batch: 139096

Client Sample ID: BAP02
Prep Type: Total/NA
Prep Batch: 138745

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	0.12	J	5.28	5.33		mg/Kg	☼	99	75 - 125	10	20

TestAmerica Denver

QC Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 280-369928/1-A
Matrix: Solid
Analysis Batch: 370190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.00650	J	0.10	0.0035	mg/Kg		04/19/17 14:15	04/20/17 02:32	1

Lab Sample ID: LCS 280-369928/2-A
Matrix: Solid
Analysis Batch: 370190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	20.0	20.4		mg/Kg		102	84 - 124

Lab Sample ID: 280-95996-1 MS
Matrix: Solid
Analysis Batch: 370190

Client Sample ID: BAP03
Prep Type: Total/NA
Prep Batch: 369928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.13	F1 B	18.6	15.8		mg/Kg	✱	84	84 - 124

Lab Sample ID: 280-95996-1 MSD
Matrix: Solid
Analysis Batch: 370190

Client Sample ID: BAP03
Prep Type: Total/NA
Prep Batch: 369928

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Thallium	0.13	F1 B	19.3	16.1	F1	mg/Kg	✱	83	84 - 124	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 560-138774/4-A
Matrix: Solid
Analysis Batch: 138786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 138774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.12	0.011	mg/Kg		04/24/17 10:30	04/24/17 13:40	1

Lab Sample ID: LCS 560-138774/5-A
Matrix: Solid
Analysis Batch: 138786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.250	0.241		mg/Kg		96	80 - 120

Lab Sample ID: 280-96077-1 MS
Matrix: Solid
Analysis Batch: 138786

Client Sample ID: BAP02
Prep Type: Total/NA
Prep Batch: 138774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.047	J	0.258	0.291		mg/Kg	✱	95	80 - 120

TestAmerica Denver

QC Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 280-96077-1 MSD
Matrix: Solid
Analysis Batch: 138786

Client Sample ID: BAP02
Prep Type: Total/NA
Prep Batch: 138774

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.047	J	0.258	0.285		mg/Kg	☼	93	80 - 120	2	20

Lab Sample ID: MB 280-369989/1-A
Matrix: Solid
Analysis Batch: 370168

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369989

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0055	mg/Kg		04/19/17 12:39	04/19/17 17:00	1

Lab Sample ID: LCS 280-369989/2-A
Matrix: Solid
Analysis Batch: 370168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.442		mg/Kg		106	87 - 111

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 160-304595/1-A
Matrix: Solid
Analysis Batch: 304792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.39	0.098	mg/Kg		04/21/17 07:52	04/24/17 06:38	1

Lab Sample ID: LCS 160-304595/2-A
Matrix: Solid
Analysis Batch: 304792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	46.6	44.9		mg/Kg		96	80 - 120

Lab Sample ID: 280-95996-1 MS
Matrix: Solid
Analysis Batch: 304792

Client Sample ID: BAP03
Prep Type: Total/NA
Prep Batch: 304595

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.25	J	10.7	10.5		mg/Kg	☼	96	75 - 125

Lab Sample ID: 280-95996-1 DU
Matrix: Solid
Analysis Batch: 304792

Client Sample ID: BAP03
Prep Type: Total/NA
Prep Batch: 304595

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.25	J	0.257	J	mg/Kg	☼	4	30

TestAmerica Denver

QC Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: MB 160-305237/1-A
Matrix: Solid
Analysis Batch: 305548

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.38	0.095	mg/Kg		04/25/17 08:44	04/26/17 07:42	1

Lab Sample ID: LCS 160-305237/6-A
Matrix: Solid
Analysis Batch: 305548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 305237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	46.6	41.1		mg/Kg		88	80 - 120

Lab Sample ID: 280-96077-1 MS
Matrix: Solid
Analysis Batch: 305548

Client Sample ID: BAP02
Prep Type: Total/NA
Prep Batch: 305237

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.15	J	11.1	9.65		mg/Kg	✱	86	75 - 125

Lab Sample ID: 280-96077-1 DU
Matrix: Solid
Analysis Batch: 305548

Client Sample ID: BAP02
Prep Type: Total/NA
Prep Batch: 305237

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cr (VI)	0.15	J	ND		mg/Kg	✱	NC	30

Method: 7196A - Chromium, Trivalent (Colorimetric)

Lab Sample ID: MB 280-370860/1
Matrix: Solid
Analysis Batch: 370860

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	ND		2.0	2.0	mg/Kg			04/25/17 15:01	1

Lab Sample ID: MB 280-371051/1
Matrix: Solid
Analysis Batch: 371051

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	ND		2.0	2.0	mg/Kg			04/26/17 12:45	1

Method: Moisture - Percent Moisture

Lab Sample ID: 280-96077-1 DU
Matrix: Solid
Analysis Batch: 138740

Client Sample ID: BAP02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	17.7		19.2		%		8	40
Percent Solids	82.3		80.8		%		2	40

TestAmerica Denver

QC Sample Results

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 280-95996-18 DU
Matrix: Solid
Analysis Batch: 370665

Client Sample ID: BAP06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	17.4		17.3		%		0.4	20
Percent Solids	82.6		82.7		%		0.09	20

QC Association Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

HPLC/IC

Leach Batch: 211175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Soluble	Solid	DI Leach	
280-95996-2	BAP12	Soluble	Solid	DI Leach	
280-95996-3	BAP20	Soluble	Solid	DI Leach	
280-95996-4	BAP22	Soluble	Solid	DI Leach	
280-95996-5	BAP24	Soluble	Solid	DI Leach	
280-95996-6	BAP15	Soluble	Solid	DI Leach	
280-95996-7	BAP08	Soluble	Solid	DI Leach	
280-95996-8	BAP01	Soluble	Solid	DI Leach	
280-95996-9	BAP19	Soluble	Solid	DI Leach	
280-95996-10	BAP18	Soluble	Solid	DI Leach	
280-95996-11	BAP10	Soluble	Solid	DI Leach	
280-95996-12	BAP09	Soluble	Solid	DI Leach	
280-95996-13	BAP16	Soluble	Solid	DI Leach	
280-95996-14	BAP13	Soluble	Solid	DI Leach	
280-95996-15	BAP14	Soluble	Solid	DI Leach	
280-95996-16	BAP17	Soluble	Solid	DI Leach	
280-95996-17	BAP07	Soluble	Solid	DI Leach	
280-95996-18	BAP06	Soluble	Solid	DI Leach	
MB 600-211175/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-211175/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
280-95996-1 MS	BAP03	Soluble	Solid	DI Leach	
280-95996-1 MSD	BAP03	Soluble	Solid	DI Leach	
280-95996-11 MS	BAP10	Soluble	Solid	DI Leach	
280-95996-11 MSD	BAP10	Soluble	Solid	DI Leach	

Analysis Batch: 211203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Soluble	Solid	9056A	211175
280-95996-2	BAP12	Soluble	Solid	9056A	211175
280-95996-3	BAP20	Soluble	Solid	9056A	211175
280-95996-4	BAP22	Soluble	Solid	9056A	211175
280-95996-5	BAP24	Soluble	Solid	9056A	211175
280-95996-6	BAP15	Soluble	Solid	9056A	211175
280-95996-7	BAP08	Soluble	Solid	9056A	211175
280-95996-8	BAP01	Soluble	Solid	9056A	211175
280-95996-9	BAP19	Soluble	Solid	9056A	211175
280-95996-10	BAP18	Soluble	Solid	9056A	211175
280-95996-11	BAP10	Soluble	Solid	9056A	211175
280-95996-12	BAP09	Soluble	Solid	9056A	211175
280-95996-13	BAP16	Soluble	Solid	9056A	211175
280-95996-14	BAP13	Soluble	Solid	9056A	211175
280-95996-15	BAP14	Soluble	Solid	9056A	211175
280-95996-16	BAP17	Soluble	Solid	9056A	211175
280-95996-17	BAP07	Soluble	Solid	9056A	211175
280-95996-18	BAP06	Soluble	Solid	9056A	211175
MB 600-211175/1-A	Method Blank	Soluble	Solid	9056A	211175
LCS 600-211175/2-A	Lab Control Sample	Soluble	Solid	9056A	211175
280-95996-1 MS	BAP03	Soluble	Solid	9056A	211175
280-95996-1 MSD	BAP03	Soluble	Solid	9056A	211175
280-95996-11 MS	BAP10	Soluble	Solid	9056A	211175
280-95996-11 MSD	BAP10	Soluble	Solid	9056A	211175

TestAmerica Denver

QC Association Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Analysis Batch: 305190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	9056A	305207
280-96077-2	BAP04	Total/NA	Solid	9056A	305207
280-96077-3	BAP05	Total/NA	Solid	9056A	305207
280-96077-4	BAP11	Total/NA	Solid	9056A	305207
280-96077-5	BAP21	Total/NA	Solid	9056A	305207
280-96077-6	BAP23	Total/NA	Solid	9056A	305207
280-96077-7	BAP25	Total/NA	Solid	9056A	305207
280-96077-8	BAP26	Total/NA	Solid	9056A	305207
280-96077-9	ARP01	Total/NA	Solid	9056A	305207
280-96077-10	ARP02	Total/NA	Solid	9056A	305207
280-96077-11	ARP03	Total/NA	Solid	9056A	305207
280-96077-12	ARP04	Total/NA	Solid	9056A	305207
280-96077-13	ARP05	Total/NA	Solid	9056A	305207
MB 160-305207/1-A	Method Blank	Total/NA	Solid	9056A	305207
LCS 160-305207/2-A	Lab Control Sample	Total/NA	Solid	9056A	305207
280-96077-1 MS	BAP02	Total/NA	Solid	9056A	305207
280-96077-1 MSD	BAP02	Total/NA	Solid	9056A	305207

Prep Batch: 305207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	DILeach_Prep	
280-96077-2	BAP04	Total/NA	Solid	DILeach_Prep	
280-96077-3	BAP05	Total/NA	Solid	DILeach_Prep	
280-96077-4	BAP11	Total/NA	Solid	DILeach_Prep	
280-96077-5	BAP21	Total/NA	Solid	DILeach_Prep	
280-96077-6	BAP23	Total/NA	Solid	DILeach_Prep	
280-96077-7	BAP25	Total/NA	Solid	DILeach_Prep	
280-96077-8	BAP26	Total/NA	Solid	DILeach_Prep	
280-96077-9	ARP01	Total/NA	Solid	DILeach_Prep	
280-96077-10	ARP02	Total/NA	Solid	DILeach_Prep	
280-96077-11	ARP03	Total/NA	Solid	DILeach_Prep	
280-96077-12	ARP04	Total/NA	Solid	DILeach_Prep	
280-96077-13	ARP05	Total/NA	Solid	DILeach_Prep	
MB 160-305207/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	
LCS 160-305207/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
280-96077-1 MS	BAP02	Total/NA	Solid	DILeach_Prep	
280-96077-1 MSD	BAP02	Total/NA	Solid	DILeach_Prep	

Metals

Prep Batch: 138745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	3050B	
280-96077-2	BAP04	Total/NA	Solid	3050B	
280-96077-3	BAP05	Total/NA	Solid	3050B	
280-96077-4	BAP11	Total/NA	Solid	3050B	
280-96077-5	BAP21	Total/NA	Solid	3050B	
280-96077-6	BAP23	Total/NA	Solid	3050B	
280-96077-7	BAP25	Total/NA	Solid	3050B	
280-96077-8	BAP26	Total/NA	Solid	3050B	
280-96077-9	ARP01	Total/NA	Solid	3050B	
280-96077-10	ARP02	Total/NA	Solid	3050B	
280-96077-11	ARP03	Total/NA	Solid	3050B	

TestAmerica Denver

QC Association Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Metals (Continued)

Prep Batch: 138745 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-12	ARP04	Total/NA	Solid	3050B	
280-96077-13	ARP05	Total/NA	Solid	3050B	
MB 560-138745/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 560-138745/2-A	Lab Control Sample	Total/NA	Solid	3050B	
280-96077-1 MS	BAP02	Total/NA	Solid	3050B	
280-96077-1 MSD	BAP02	Total/NA	Solid	3050B	

Prep Batch: 138747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	3050B	
280-96077-2	BAP04	Total/NA	Solid	3050B	
280-96077-3	BAP05	Total/NA	Solid	3050B	
280-96077-4	BAP11	Total/NA	Solid	3050B	
280-96077-5	BAP21	Total/NA	Solid	3050B	
280-96077-6	BAP23	Total/NA	Solid	3050B	
280-96077-7	BAP25	Total/NA	Solid	3050B	
280-96077-8	BAP26	Total/NA	Solid	3050B	
280-96077-9	ARP01	Total/NA	Solid	3050B	
280-96077-10	ARP02	Total/NA	Solid	3050B	
280-96077-11	ARP03	Total/NA	Solid	3050B	
280-96077-12	ARP04	Total/NA	Solid	3050B	
280-96077-13	ARP05	Total/NA	Solid	3050B	
MB 560-138747/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 560-138747/2-A	Lab Control Sample	Total/NA	Solid	3050B	
280-96077-1 MS	BAP02	Total/NA	Solid	3050B	
280-96077-1 MSD	BAP02	Total/NA	Solid	3050B	

Prep Batch: 138774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	7471A	
280-96077-2	BAP04	Total/NA	Solid	7471A	
280-96077-3	BAP05	Total/NA	Solid	7471A	
280-96077-4	BAP11	Total/NA	Solid	7471A	
280-96077-5	BAP21	Total/NA	Solid	7471A	
280-96077-6	BAP23	Total/NA	Solid	7471A	
280-96077-7	BAP25	Total/NA	Solid	7471A	
280-96077-8	BAP26	Total/NA	Solid	7471A	
280-96077-9	ARP01	Total/NA	Solid	7471A	
280-96077-10	ARP02	Total/NA	Solid	7471A	
280-96077-11	ARP03	Total/NA	Solid	7471A	
280-96077-12	ARP04	Total/NA	Solid	7471A	
280-96077-13	ARP05	Total/NA	Solid	7471A	
MB 560-138774/4-A	Method Blank	Total/NA	Solid	7471A	
LCS 560-138774/5-A	Lab Control Sample	Total/NA	Solid	7471A	
280-96077-1 MS	BAP02	Total/NA	Solid	7471A	
280-96077-1 MSD	BAP02	Total/NA	Solid	7471A	

Analysis Batch: 138786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	7471A	138774
280-96077-2	BAP04	Total/NA	Solid	7471A	138774

TestAmerica Denver

QC Association Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Metals (Continued)

Analysis Batch: 138786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-3	BAP05	Total/NA	Solid	7471A	138774
280-96077-4	BAP11	Total/NA	Solid	7471A	138774
280-96077-5	BAP21	Total/NA	Solid	7471A	138774
280-96077-6	BAP23	Total/NA	Solid	7471A	138774
280-96077-7	BAP25	Total/NA	Solid	7471A	138774
280-96077-8	BAP26	Total/NA	Solid	7471A	138774
280-96077-9	ARP01	Total/NA	Solid	7471A	138774
280-96077-10	ARP02	Total/NA	Solid	7471A	138774
280-96077-11	ARP03	Total/NA	Solid	7471A	138774
280-96077-12	ARP04	Total/NA	Solid	7471A	138774
280-96077-13	ARP05	Total/NA	Solid	7471A	138774
MB 560-138774/4-A	Method Blank	Total/NA	Solid	7471A	138774
LCS 560-138774/5-A	Lab Control Sample	Total/NA	Solid	7471A	138774
280-96077-1 MS	BAP02	Total/NA	Solid	7471A	138774
280-96077-1 MSD	BAP02	Total/NA	Solid	7471A	138774

Analysis Batch: 138789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	6010B	138747
280-96077-2	BAP04	Total/NA	Solid	6010B	138747
280-96077-3	BAP05	Total/NA	Solid	6010B	138747
280-96077-4	BAP11	Total/NA	Solid	6010B	138747
MB 560-138747/1-A	Method Blank	Total/NA	Solid	6010B	138747
LCS 560-138747/2-A	Lab Control Sample	Total/NA	Solid	6010B	138747
280-96077-1 MS	BAP02	Total/NA	Solid	6010B	138747
280-96077-1 MSD	BAP02	Total/NA	Solid	6010B	138747

Analysis Batch: 138815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	6010B	138747
280-96077-2	BAP04	Total/NA	Solid	6010B	138747
280-96077-3	BAP05	Total/NA	Solid	6010B	138747
280-96077-4	BAP11	Total/NA	Solid	6010B	138747
280-96077-5	BAP21	Total/NA	Solid	6010B	138747
280-96077-6	BAP23	Total/NA	Solid	6010B	138747
280-96077-7	BAP25	Total/NA	Solid	6010B	138747
280-96077-8	BAP26	Total/NA	Solid	6010B	138747
280-96077-9	ARP01	Total/NA	Solid	6010B	138747
280-96077-10	ARP02	Total/NA	Solid	6010B	138747
280-96077-11	ARP03	Total/NA	Solid	6010B	138747
280-96077-12	ARP04	Total/NA	Solid	6010B	138747
280-96077-13	ARP05	Total/NA	Solid	6010B	138747
LCS 560-138747/2-A	Lab Control Sample	Total/NA	Solid	6010B	138747
280-96077-1 MS	BAP02	Total/NA	Solid	6010B	138747
280-96077-1 MSD	BAP02	Total/NA	Solid	6010B	138747

Analysis Batch: 138843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 560-138747/1-A	Method Blank	Total/NA	Solid	6010B	138747

TestAmerica Denver

QC Association Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Metals (Continued)

Analysis Batch: 139096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	6020	138745
280-96077-2	BAP04	Total/NA	Solid	6020	138745
280-96077-3	BAP05	Total/NA	Solid	6020	138745
280-96077-4	BAP11	Total/NA	Solid	6020	138745
280-96077-5	BAP21	Total/NA	Solid	6020	138745
280-96077-6	BAP23	Total/NA	Solid	6020	138745
280-96077-7	BAP25	Total/NA	Solid	6020	138745
280-96077-8	BAP26	Total/NA	Solid	6020	138745
280-96077-9	ARP01	Total/NA	Solid	6020	138745
280-96077-10	ARP02	Total/NA	Solid	6020	138745
280-96077-11	ARP03	Total/NA	Solid	6020	138745
280-96077-12	ARP04	Total/NA	Solid	6020	138745
280-96077-13	ARP05	Total/NA	Solid	6020	138745
MB 560-138745/1-A	Method Blank	Total/NA	Solid	6020	138745
LCS 560-138745/2-A	Lab Control Sample	Total/NA	Solid	6020	138745
280-96077-1 MS	BAP02	Total/NA	Solid	6020	138745
280-96077-1 MSD	BAP02	Total/NA	Solid	6020	138745

Prep Batch: 369928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Total/NA	Solid	3050B	
280-95996-2	BAP12	Total/NA	Solid	3050B	
280-95996-3	BAP20	Total/NA	Solid	3050B	
280-95996-4	BAP22	Total/NA	Solid	3050B	
280-95996-5	BAP24	Total/NA	Solid	3050B	
280-95996-6	BAP15	Total/NA	Solid	3050B	
280-95996-7	BAP08	Total/NA	Solid	3050B	
280-95996-8	BAP01	Total/NA	Solid	3050B	
280-95996-9	BAP19	Total/NA	Solid	3050B	
280-95996-10	BAP18	Total/NA	Solid	3050B	
280-95996-11	BAP10	Total/NA	Solid	3050B	
280-95996-12	BAP09	Total/NA	Solid	3050B	
280-95996-13	BAP16	Total/NA	Solid	3050B	
280-95996-14	BAP13	Total/NA	Solid	3050B	
280-95996-15	BAP14	Total/NA	Solid	3050B	
280-95996-16	BAP17	Total/NA	Solid	3050B	
280-95996-17	BAP07	Total/NA	Solid	3050B	
280-95996-18	BAP06	Total/NA	Solid	3050B	
MB 280-369928/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 280-369928/2-A	Lab Control Sample	Total/NA	Solid	3050B	
280-95996-1 MS	BAP03	Total/NA	Solid	3050B	
280-95996-1 MSD	BAP03	Total/NA	Solid	3050B	

Prep Batch: 369989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Total/NA	Solid	7471A	
280-95996-2	BAP12	Total/NA	Solid	7471A	
280-95996-3	BAP20	Total/NA	Solid	7471A	
280-95996-4	BAP22	Total/NA	Solid	7471A	
280-95996-5	BAP24	Total/NA	Solid	7471A	
280-95996-6	BAP15	Total/NA	Solid	7471A	

TestAmerica Denver

QC Association Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Metals (Continued)

Prep Batch: 369989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-7	BAP08	Total/NA	Solid	7471A	
280-95996-8	BAP01	Total/NA	Solid	7471A	
280-95996-9	BAP19	Total/NA	Solid	7471A	
280-95996-10	BAP18	Total/NA	Solid	7471A	
280-95996-11	BAP10	Total/NA	Solid	7471A	
280-95996-12	BAP09	Total/NA	Solid	7471A	
280-95996-13	BAP16	Total/NA	Solid	7471A	
280-95996-14	BAP13	Total/NA	Solid	7471A	
280-95996-15	BAP14	Total/NA	Solid	7471A	
280-95996-16	BAP17	Total/NA	Solid	7471A	
280-95996-17	BAP07	Total/NA	Solid	7471A	
280-95996-18	BAP06	Total/NA	Solid	7471A	
MB 280-369989/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 280-369989/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 370168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Total/NA	Solid	7471A	369989
280-95996-2	BAP12	Total/NA	Solid	7471A	369989
280-95996-3	BAP20	Total/NA	Solid	7471A	369989
280-95996-4	BAP22	Total/NA	Solid	7471A	369989
280-95996-5	BAP24	Total/NA	Solid	7471A	369989
280-95996-6	BAP15	Total/NA	Solid	7471A	369989
280-95996-7	BAP08	Total/NA	Solid	7471A	369989
280-95996-8	BAP01	Total/NA	Solid	7471A	369989
280-95996-9	BAP19	Total/NA	Solid	7471A	369989
280-95996-10	BAP18	Total/NA	Solid	7471A	369989
280-95996-11	BAP10	Total/NA	Solid	7471A	369989
280-95996-12	BAP09	Total/NA	Solid	7471A	369989
280-95996-13	BAP16	Total/NA	Solid	7471A	369989
280-95996-14	BAP13	Total/NA	Solid	7471A	369989
280-95996-15	BAP14	Total/NA	Solid	7471A	369989
280-95996-16	BAP17	Total/NA	Solid	7471A	369989
280-95996-17	BAP07	Total/NA	Solid	7471A	369989
280-95996-18	BAP06	Total/NA	Solid	7471A	369989
MB 280-369989/1-A	Method Blank	Total/NA	Solid	7471A	369989
LCS 280-369989/2-A	Lab Control Sample	Total/NA	Solid	7471A	369989

Analysis Batch: 370190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Total/NA	Solid	6020A	369928
280-95996-2	BAP12	Total/NA	Solid	6020A	369928
280-95996-3	BAP20	Total/NA	Solid	6020A	369928
280-95996-4	BAP22	Total/NA	Solid	6020A	369928
280-95996-5	BAP24	Total/NA	Solid	6020A	369928
280-95996-6	BAP15	Total/NA	Solid	6020A	369928
280-95996-7	BAP08	Total/NA	Solid	6020A	369928
280-95996-8	BAP01	Total/NA	Solid	6020A	369928
280-95996-9	BAP19	Total/NA	Solid	6020A	369928
280-95996-10	BAP18	Total/NA	Solid	6020A	369928
280-95996-11	BAP10	Total/NA	Solid	6020A	369928

TestAmerica Denver

QC Association Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Metals (Continued)

Analysis Batch: 370190 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-12	BAP09	Total/NA	Solid	6020A	369928
280-95996-13	BAP16	Total/NA	Solid	6020A	369928
280-95996-14	BAP13	Total/NA	Solid	6020A	369928
280-95996-15	BAP14	Total/NA	Solid	6020A	369928
280-95996-16	BAP17	Total/NA	Solid	6020A	369928
280-95996-17	BAP07	Total/NA	Solid	6020A	369928
280-95996-18	BAP06	Total/NA	Solid	6020A	369928
MB 280-369928/1-A	Method Blank	Total/NA	Solid	6020A	369928
LCS 280-369928/2-A	Lab Control Sample	Total/NA	Solid	6020A	369928
280-95996-1 MS	BAP03	Total/NA	Solid	6020A	369928
280-95996-1 MSD	BAP03	Total/NA	Solid	6020A	369928

Prep Batch: 370355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Total/NA	Solid	3050B	
280-95996-2	BAP12	Total/NA	Solid	3050B	
280-95996-3	BAP20	Total/NA	Solid	3050B	
280-95996-4	BAP22	Total/NA	Solid	3050B	
280-95996-5	BAP24	Total/NA	Solid	3050B	
280-95996-6	BAP15	Total/NA	Solid	3050B	
280-95996-7	BAP08	Total/NA	Solid	3050B	
280-95996-8	BAP01	Total/NA	Solid	3050B	
280-95996-9	BAP19	Total/NA	Solid	3050B	
280-95996-10	BAP18	Total/NA	Solid	3050B	
280-95996-11	BAP10	Total/NA	Solid	3050B	
280-95996-12	BAP09	Total/NA	Solid	3050B	
280-95996-13	BAP16	Total/NA	Solid	3050B	
280-95996-14	BAP13	Total/NA	Solid	3050B	
280-95996-15	BAP14	Total/NA	Solid	3050B	
280-95996-16	BAP17	Total/NA	Solid	3050B	
280-95996-17	BAP07	Total/NA	Solid	3050B	
280-95996-18	BAP06	Total/NA	Solid	3050B	
MB 280-370355/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 280-370355/2-A	Lab Control Sample	Total/NA	Solid	3050B	
280-95996-1 MS	BAP03	Total/NA	Solid	3050B	
280-95996-1 MSD	BAP03	Total/NA	Solid	3050B	

Analysis Batch: 370500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Total/NA	Solid	6010C	370355
280-95996-2	BAP12	Total/NA	Solid	6010C	370355
280-95996-3	BAP20	Total/NA	Solid	6010C	370355
280-95996-4	BAP22	Total/NA	Solid	6010C	370355
280-95996-5	BAP24	Total/NA	Solid	6010C	370355
280-95996-6	BAP15	Total/NA	Solid	6010C	370355
280-95996-7	BAP08	Total/NA	Solid	6010C	370355
280-95996-8	BAP01	Total/NA	Solid	6010C	370355
280-95996-9	BAP19	Total/NA	Solid	6010C	370355
280-95996-10	BAP18	Total/NA	Solid	6010C	370355
280-95996-11	BAP10	Total/NA	Solid	6010C	370355
280-95996-12	BAP09	Total/NA	Solid	6010C	370355

TestAmerica Denver

QC Association Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Metals (Continued)

Analysis Batch: 370500 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-13	BAP16	Total/NA	Solid	6010C	370355
280-95996-14	BAP13	Total/NA	Solid	6010C	370355
280-95996-15	BAP14	Total/NA	Solid	6010C	370355
280-95996-16	BAP17	Total/NA	Solid	6010C	370355
280-95996-17	BAP07	Total/NA	Solid	6010C	370355
280-95996-18	BAP06	Total/NA	Solid	6010C	370355
MB 280-370355/1-A	Method Blank	Total/NA	Solid	6010C	370355
LCS 280-370355/2-A	Lab Control Sample	Total/NA	Solid	6010C	370355
280-95996-1 MS	BAP03	Total/NA	Solid	6010C	370355
280-95996-1 MSD	BAP03	Total/NA	Solid	6010C	370355

Analysis Batch: 370560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Total/NA	Solid	6010C	370355
280-95996-2	BAP12	Total/NA	Solid	6010C	370355
280-95996-3	BAP20	Total/NA	Solid	6010C	370355
280-95996-4	BAP22	Total/NA	Solid	6010C	370355
280-95996-5	BAP24	Total/NA	Solid	6010C	370355
280-95996-6	BAP15	Total/NA	Solid	6010C	370355
280-95996-7	BAP08	Total/NA	Solid	6010C	370355
280-95996-8	BAP01	Total/NA	Solid	6010C	370355
280-95996-9	BAP19	Total/NA	Solid	6010C	370355
280-95996-10	BAP18	Total/NA	Solid	6010C	370355
280-95996-11	BAP10	Total/NA	Solid	6010C	370355
280-95996-12	BAP09	Total/NA	Solid	6010C	370355
280-95996-13	BAP16	Total/NA	Solid	6010C	370355
280-95996-14	BAP13	Total/NA	Solid	6010C	370355
280-95996-15	BAP14	Total/NA	Solid	6010C	370355
280-95996-16	BAP17	Total/NA	Solid	6010C	370355
280-95996-17	BAP07	Total/NA	Solid	6010C	370355
280-95996-18	BAP06	Total/NA	Solid	6010C	370355
MB 280-370355/1-A	Method Blank	Total/NA	Solid	6010C	370355
LCS 280-370355/2-A	Lab Control Sample	Total/NA	Solid	6010C	370355
280-95996-1 MS	BAP03	Total/NA	Solid	6010C	370355
280-95996-1 MSD	BAP03	Total/NA	Solid	6010C	370355

Analysis Batch: 370741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Total/NA	Solid	6010C	370355
280-95996-2	BAP12	Total/NA	Solid	6010C	370355
280-95996-3	BAP20	Total/NA	Solid	6010C	370355
280-95996-4	BAP22	Total/NA	Solid	6010C	370355
280-95996-5	BAP24	Total/NA	Solid	6010C	370355
280-95996-6	BAP15	Total/NA	Solid	6010C	370355
280-95996-7	BAP08	Total/NA	Solid	6010C	370355
280-95996-8	BAP01	Total/NA	Solid	6010C	370355
280-95996-9	BAP19	Total/NA	Solid	6010C	370355
280-95996-10	BAP18	Total/NA	Solid	6010C	370355
280-95996-11	BAP10	Total/NA	Solid	6010C	370355
280-95996-12	BAP09	Total/NA	Solid	6010C	370355
280-95996-13	BAP16	Total/NA	Solid	6010C	370355

TestAmerica Denver

QC Association Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Metals (Continued)

Analysis Batch: 370741 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-14	BAP13	Total/NA	Solid	6010C	370355
280-95996-15	BAP14	Total/NA	Solid	6010C	370355
280-95996-16	BAP17	Total/NA	Solid	6010C	370355
280-95996-17	BAP07	Total/NA	Solid	6010C	370355
280-95996-18	BAP06	Total/NA	Solid	6010C	370355
MB 280-370355/1-A	Method Blank	Total/NA	Solid	6010C	370355
LCS 280-370355/2-A	Lab Control Sample	Total/NA	Solid	6010C	370355
280-95996-1 MS	BAP03	Total/NA	Solid	6010C	370355
280-95996-1 MSD	BAP03	Total/NA	Solid	6010C	370355

General Chemistry

Analysis Batch: 138740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	Moisture	
280-96077-2	BAP04	Total/NA	Solid	Moisture	
280-96077-3	BAP05	Total/NA	Solid	Moisture	
280-96077-4	BAP11	Total/NA	Solid	Moisture	
280-96077-5	BAP21	Total/NA	Solid	Moisture	
280-96077-6	BAP23	Total/NA	Solid	Moisture	
280-96077-7	BAP25	Total/NA	Solid	Moisture	
280-96077-8	BAP26	Total/NA	Solid	Moisture	
280-96077-9	ARP01	Total/NA	Solid	Moisture	
280-96077-10	ARP02	Total/NA	Solid	Moisture	
280-96077-11	ARP03	Total/NA	Solid	Moisture	
280-96077-12	ARP04	Total/NA	Solid	Moisture	
280-96077-13	ARP05	Total/NA	Solid	Moisture	
280-96077-1 DU	BAP02	Total/NA	Solid	Moisture	

Prep Batch: 304595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Total/NA	Solid	3060A	
280-95996-2	BAP12	Total/NA	Solid	3060A	
280-95996-3	BAP20	Total/NA	Solid	3060A	
280-95996-4	BAP22	Total/NA	Solid	3060A	
280-95996-5	BAP24	Total/NA	Solid	3060A	
280-95996-6	BAP15	Total/NA	Solid	3060A	
280-95996-7	BAP08	Total/NA	Solid	3060A	
280-95996-8	BAP01	Total/NA	Solid	3060A	
280-95996-9	BAP19	Total/NA	Solid	3060A	
280-95996-10	BAP18	Total/NA	Solid	3060A	
280-95996-11	BAP10	Total/NA	Solid	3060A	
280-95996-12	BAP09	Total/NA	Solid	3060A	
280-95996-13	BAP16	Total/NA	Solid	3060A	
280-95996-14	BAP13	Total/NA	Solid	3060A	
280-95996-15	BAP14	Total/NA	Solid	3060A	
280-95996-16	BAP17	Total/NA	Solid	3060A	
280-95996-17	BAP07	Total/NA	Solid	3060A	
280-95996-18	BAP06	Total/NA	Solid	3060A	
MB 160-304595/1-A	Method Blank	Total/NA	Solid	3060A	

TestAmerica Denver

QC Association Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

General Chemistry (Continued)

Prep Batch: 304595 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-304595/2-A	Lab Control Sample	Total/NA	Solid	3060A	
280-95996-1 MS	BAP03	Total/NA	Solid	3060A	
280-95996-1 DU	BAP03	Total/NA	Solid	3060A	

Analysis Batch: 304792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Total/NA	Solid	7196A	304595
280-95996-2	BAP12	Total/NA	Solid	7196A	304595
280-95996-3	BAP20	Total/NA	Solid	7196A	304595
280-95996-4	BAP22	Total/NA	Solid	7196A	304595
280-95996-5	BAP24	Total/NA	Solid	7196A	304595
280-95996-6	BAP15	Total/NA	Solid	7196A	304595
280-95996-7	BAP08	Total/NA	Solid	7196A	304595
280-95996-8	BAP01	Total/NA	Solid	7196A	304595
280-95996-9	BAP19	Total/NA	Solid	7196A	304595
280-95996-10	BAP18	Total/NA	Solid	7196A	304595
280-95996-11	BAP10	Total/NA	Solid	7196A	304595
280-95996-12	BAP09	Total/NA	Solid	7196A	304595
280-95996-13	BAP16	Total/NA	Solid	7196A	304595
280-95996-14	BAP13	Total/NA	Solid	7196A	304595
280-95996-15	BAP14	Total/NA	Solid	7196A	304595
280-95996-16	BAP17	Total/NA	Solid	7196A	304595
280-95996-17	BAP07	Total/NA	Solid	7196A	304595
280-95996-18	BAP06	Total/NA	Solid	7196A	304595
MB 160-304595/1-A	Method Blank	Total/NA	Solid	7196A	304595
LCS 160-304595/2-A	Lab Control Sample	Total/NA	Solid	7196A	304595
280-95996-1 MS	BAP03	Total/NA	Solid	7196A	304595
280-95996-1 DU	BAP03	Total/NA	Solid	7196A	304595

Prep Batch: 305237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	3060A	
280-96077-2	BAP04	Total/NA	Solid	3060A	
280-96077-3	BAP05	Total/NA	Solid	3060A	
280-96077-4	BAP11	Total/NA	Solid	3060A	
280-96077-5	BAP21	Total/NA	Solid	3060A	
280-96077-6	BAP23	Total/NA	Solid	3060A	
280-96077-7	BAP25	Total/NA	Solid	3060A	
280-96077-8	BAP26	Total/NA	Solid	3060A	
280-96077-9	ARP01	Total/NA	Solid	3060A	
280-96077-10	ARP02	Total/NA	Solid	3060A	
280-96077-11	ARP03	Total/NA	Solid	3060A	
280-96077-12	ARP04	Total/NA	Solid	3060A	
280-96077-13	ARP05	Total/NA	Solid	3060A	
MB 160-305237/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 160-305237/6-A	Lab Control Sample	Total/NA	Solid	3060A	
280-96077-1 MS	BAP02	Total/NA	Solid	3060A	
280-96077-1 DU	BAP02	Total/NA	Solid	3060A	

TestAmerica Denver

QC Association Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

General Chemistry (Continued)

Analysis Batch: 305548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	7196A	305237
280-96077-2	BAP04	Total/NA	Solid	7196A	305237
280-96077-3	BAP05	Total/NA	Solid	7196A	305237
280-96077-4	BAP11	Total/NA	Solid	7196A	305237
280-96077-5	BAP21	Total/NA	Solid	7196A	305237
280-96077-6	BAP23	Total/NA	Solid	7196A	305237
280-96077-7	BAP25	Total/NA	Solid	7196A	305237
280-96077-8	BAP26	Total/NA	Solid	7196A	305237
280-96077-9	ARP01	Total/NA	Solid	7196A	305237
280-96077-10	ARP02	Total/NA	Solid	7196A	305237
280-96077-11	ARP03	Total/NA	Solid	7196A	305237
280-96077-12	ARP04	Total/NA	Solid	7196A	305237
280-96077-13	ARP05	Total/NA	Solid	7196A	305237
MB 160-305237/1-A	Method Blank	Total/NA	Solid	7196A	305237
LCS 160-305237/6-A	Lab Control Sample	Total/NA	Solid	7196A	305237
280-96077-1 MS	BAP02	Total/NA	Solid	7196A	305237
280-96077-1 DU	BAP02	Total/NA	Solid	7196A	305237

Analysis Batch: 370665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Total/NA	Solid	Moisture	
280-95996-2	BAP12	Total/NA	Solid	Moisture	
280-95996-3	BAP20	Total/NA	Solid	Moisture	
280-95996-4	BAP22	Total/NA	Solid	Moisture	
280-95996-5	BAP24	Total/NA	Solid	Moisture	
280-95996-6	BAP15	Total/NA	Solid	Moisture	
280-95996-7	BAP08	Total/NA	Solid	Moisture	
280-95996-8	BAP01	Total/NA	Solid	Moisture	
280-95996-9	BAP19	Total/NA	Solid	Moisture	
280-95996-10	BAP18	Total/NA	Solid	Moisture	
280-95996-11	BAP10	Total/NA	Solid	Moisture	
280-95996-12	BAP09	Total/NA	Solid	Moisture	
280-95996-13	BAP16	Total/NA	Solid	Moisture	
280-95996-14	BAP13	Total/NA	Solid	Moisture	
280-95996-15	BAP14	Total/NA	Solid	Moisture	
280-95996-16	BAP17	Total/NA	Solid	Moisture	
280-95996-17	BAP07	Total/NA	Solid	Moisture	
280-95996-18	BAP06	Total/NA	Solid	Moisture	
280-95996-18 DU	BAP06	Total/NA	Solid	Moisture	

Analysis Batch: 370860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-1	BAP03	Total/NA	Solid	7196A	
280-95996-2	BAP12	Total/NA	Solid	7196A	
280-95996-3	BAP20	Total/NA	Solid	7196A	
280-95996-4	BAP22	Total/NA	Solid	7196A	
280-95996-5	BAP24	Total/NA	Solid	7196A	
280-95996-6	BAP15	Total/NA	Solid	7196A	
280-95996-7	BAP08	Total/NA	Solid	7196A	
280-95996-8	BAP01	Total/NA	Solid	7196A	
280-95996-9	BAP19	Total/NA	Solid	7196A	

TestAmerica Denver

QC Association Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

General Chemistry (Continued)

Analysis Batch: 370860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-95996-10	BAP18	Total/NA	Solid	7196A	
280-95996-11	BAP10	Total/NA	Solid	7196A	
280-95996-12	BAP09	Total/NA	Solid	7196A	
280-95996-13	BAP16	Total/NA	Solid	7196A	
280-95996-14	BAP13	Total/NA	Solid	7196A	
280-95996-15	BAP14	Total/NA	Solid	7196A	
280-95996-16	BAP17	Total/NA	Solid	7196A	
280-95996-17	BAP07	Total/NA	Solid	7196A	
280-95996-18	BAP06	Total/NA	Solid	7196A	
MB 280-370860/1	Method Blank	Total/NA	Solid	7196A	

Analysis Batch: 371051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-96077-1	BAP02	Total/NA	Solid	7196A	
280-96077-2	BAP04	Total/NA	Solid	7196A	
280-96077-3	BAP05	Total/NA	Solid	7196A	
280-96077-4	BAP11	Total/NA	Solid	7196A	
280-96077-5	BAP21	Total/NA	Solid	7196A	
280-96077-6	BAP23	Total/NA	Solid	7196A	
280-96077-7	BAP25	Total/NA	Solid	7196A	
280-96077-8	BAP26	Total/NA	Solid	7196A	
280-96077-9	ARP01	Total/NA	Solid	7196A	
280-96077-10	ARP02	Total/NA	Solid	7196A	
280-96077-11	ARP03	Total/NA	Solid	7196A	
280-96077-12	ARP04	Total/NA	Solid	7196A	
280-96077-13	ARP05	Total/NA	Solid	7196A	
MB 280-371051/1	Method Blank	Total/NA	Solid	7196A	

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP03

Date Collected: 04/17/17 10:00

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP03

Date Collected: 04/17/17 10:00

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-1

Matrix: Solid

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/20/17 17:45	BDG	TAL HOU
Total/NA	Prep	3050B			1.335 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 03:16	CRR	TAL DEN
Total/NA	Prep	3050B			1.335 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 17:48	SJS	TAL DEN
Total/NA	Prep	3050B			1.335 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 11:44	CRR	TAL DEN
Total/NA	Prep	3050B			1.424 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 02:40	JM	TAL DEN
Total/NA	Prep	7471A			0.52 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:20	CDH	TAL DEN
Total/NA	Prep	3060A			2.6691 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP12

Date Collected: 04/17/17 10:21

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP12

Date Collected: 04/17/17 10:21

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-2

Matrix: Solid

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.43 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/20/17 18:45	BDG	TAL HOU
Total/NA	Prep	3050B			1.052 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 03:28	CRR	TAL DEN
Total/NA	Prep	3050B			1.052 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:00	SJS	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP12

Date Collected: 04/17/17 10:21

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-2

Matrix: Solid

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.052 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 11:56	CRR	TAL DEN
Total/NA	Prep	3050B			1.328 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 03:00	JM	TAL DEN
Total/NA	Prep	7471A			0.60 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:22	CDH	TAL DEN
Total/NA	Prep	3060A			2.5275 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP20

Date Collected: 04/17/17 10:29

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP20

Date Collected: 04/17/17 10:29

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-3

Matrix: Solid

Percent Solids: 62.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.30 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		10			211203	04/20/17 19:05	BDG	TAL HOU
Total/NA	Prep	3050B			1.192 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 03:30	CRR	TAL DEN
Total/NA	Prep	3050B			1.192 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:02	SJS	TAL DEN
Total/NA	Prep	3050B			1.192 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 11:59	CRR	TAL DEN
Total/NA	Prep	3050B			1.312 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 03:16	JM	TAL DEN
Total/NA	Prep	7471A			0.54 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:24	CDH	TAL DEN
Total/NA	Prep	3060A			2.6845 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP22

Date Collected: 04/17/17 10:45

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP22

Date Collected: 04/17/17 10:45

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP22

Date Collected: 04/17/17 10:45

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-4

Matrix: Solid

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.41 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/20/17 19:25	BDG	TAL HOU
Total/NA	Prep	3050B			1.482 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 03:33	CRR	TAL DEN
Total/NA	Prep	3050B			1.482 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:16	SJS	TAL DEN
Total/NA	Prep	3050B			1.482 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 12:12	CRR	TAL DEN
Total/NA	Prep	3050B			1.319 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 03:20	JM	TAL DEN
Total/NA	Prep	7471A			0.53 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:26	CDH	TAL DEN
Total/NA	Prep	3060A			2.5636 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP24

Date Collected: 04/17/17 11:05

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP24

Date Collected: 04/17/17 11:05

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-5

Matrix: Solid

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.41 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/20/17 19:45	BDG	TAL HOU
Total/NA	Prep	3050B			1.138 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 03:46	CRR	TAL DEN
Total/NA	Prep	3050B			1.138 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:18	SJS	TAL DEN
Total/NA	Prep	3050B			1.138 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 12:15	CRR	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP24

Date Collected: 04/17/17 11:05

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-5

Matrix: Solid

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.118 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 03:24	JM	TAL DEN
Total/NA	Prep	7471A			0.51 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:29	CDH	TAL DEN
Total/NA	Prep	3060A			2.8454 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP15

Date Collected: 04/17/17 11:43

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP15

Date Collected: 04/17/17 11:43

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-6

Matrix: Solid

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.06 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/20/17 20:45	BDG	TAL HOU
Total/NA	Prep	3050B			1.283 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 03:48	CRR	TAL DEN
Total/NA	Prep	3050B			1.283 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:21	SJS	TAL DEN
Total/NA	Prep	3050B			1.283 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 12:17	CRR	TAL DEN
Total/NA	Prep	3050B			1.268 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 03:28	JM	TAL DEN
Total/NA	Prep	7471A			0.50 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:31	CDH	TAL DEN
Total/NA	Prep	3060A			2.5674 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP08

Date Collected: 04/17/17 12:05

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP08

Date Collected: 04/17/17 12:05

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-7

Matrix: Solid

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/20/17 21:05	BDG	TAL HOU
Total/NA	Prep	3050B			1.421 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 03:51	CRR	TAL DEN
Total/NA	Prep	3050B			1.421 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:23	SJS	TAL DEN
Total/NA	Prep	3050B			1.421 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 12:20	CRR	TAL DEN
Total/NA	Prep	3050B			1.498 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 03:33	JM	TAL DEN
Total/NA	Prep	7471A			0.50 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:33	CDH	TAL DEN
Total/NA	Prep	3060A			2.5432 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP01

Date Collected: 04/17/17 12:17

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP01

Date Collected: 04/17/17 12:17

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-8

Matrix: Solid

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.24 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/20/17 21:25	BDG	TAL HOU
Total/NA	Prep	3050B			1.436 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 03:53	CRR	TAL DEN
Total/NA	Prep	3050B			1.436 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:26	SJS	TAL DEN
Total/NA	Prep	3050B			1.436 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 12:22	CRR	TAL DEN
Total/NA	Prep	3050B			1.405 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 03:37	JM	TAL DEN
Total/NA	Prep	7471A			0.54 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:40	CDH	TAL DEN
Total/NA	Prep	3060A			2.6243 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP19

Date Collected: 04/17/17 12:34

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP19

Date Collected: 04/17/17 12:34

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-9

Matrix: Solid

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.31 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/20/17 21:45	BDG	TAL HOU
Total/NA	Prep	3050B			1.087 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 03:56	CRR	TAL DEN
Total/NA	Prep	3050B			1.087 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:28	SJS	TAL DEN
Total/NA	Prep	3050B			1.087 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 12:25	CRR	TAL DEN
Total/NA	Prep	3050B			1.237 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 03:41	JM	TAL DEN
Total/NA	Prep	7471A			0.50 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:43	CDH	TAL DEN
Total/NA	Prep	3060A			2.7427 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP18

Date Collected: 04/17/17 12:45

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP18

Date Collected: 04/17/17 12:45

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-10

Matrix: Solid

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.46 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/20/17 22:05	BDG	TAL HOU
Total/NA	Prep	3050B			1.277 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 03:58	CRR	TAL DEN
Total/NA	Prep	3050B			1.277 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:31	SJS	TAL DEN
Total/NA	Prep	3050B			1.277 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP18

Date Collected: 04/17/17 12:45

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-10

Matrix: Solid

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			370741	04/24/17 12:27	CRR	TAL DEN
Total/NA	Prep	3050B			1.183 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 03:45	JM	TAL DEN
Total/NA	Prep	7471A			0.55 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:45	CDH	TAL DEN
Total/NA	Prep	3060A			2.6056 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP10

Date Collected: 04/17/17 13:02

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP10

Date Collected: 04/17/17 13:02

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-11

Matrix: Solid

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.39 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/20/17 22:25	BDG	TAL HOU
Total/NA	Prep	3050B			1.204 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 04:01	CRR	TAL DEN
Total/NA	Prep	3050B			1.204 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:33	SJS	TAL DEN
Total/NA	Prep	3050B			1.204 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 12:30	CRR	TAL DEN
Total/NA	Prep	3050B			1.027 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 04:01	JM	TAL DEN
Total/NA	Prep	7471A			0.52 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:47	CDH	TAL DEN
Total/NA	Prep	3060A			2.5117 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP09

Date Collected: 04/17/17 13:10

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP09

Date Collected: 04/17/17 13:10

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-12

Matrix: Solid

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.21 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/20/17 23:25	BDG	TAL HOU
Total/NA	Prep	3050B			1.121 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 04:03	CRR	TAL DEN
Total/NA	Prep	3050B			1.121 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:46	SJS	TAL DEN
Total/NA	Prep	3050B			1.121 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 12:58	CRR	TAL DEN
Total/NA	Prep	3050B			1.398 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 04:06	JM	TAL DEN
Total/NA	Prep	7471A			0.56 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:49	CDH	TAL DEN
Total/NA	Prep	3060A			2.5453 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP16

Date Collected: 04/17/17 13:18

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP16

Date Collected: 04/17/17 13:18

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-13

Matrix: Solid

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.16 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/20/17 23:45	BDG	TAL HOU
Total/NA	Prep	3050B			1.254 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 04:06	CRR	TAL DEN
Total/NA	Prep	3050B			1.254 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:49	SJS	TAL DEN
Total/NA	Prep	3050B			1.254 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 13:01	CRR	TAL DEN
Total/NA	Prep	3050B			1.280 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 04:10	JM	TAL DEN
Total/NA	Prep	7471A			0.57 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:56	CDH	TAL DEN
Total/NA	Prep	3060A			2.5510 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP13

Date Collected: 04/17/17 13:28

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP13

Date Collected: 04/17/17 13:28

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-14

Matrix: Solid

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/21/17 00:45	BDG	TAL HOU
Total/NA	Prep	3050B			1.240 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 04:08	CRR	TAL DEN
Total/NA	Prep	3050B			1.240 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:51	SJS	TAL DEN
Total/NA	Prep	3050B			1.240 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 13:03	CRR	TAL DEN
Total/NA	Prep	3050B			1.183 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 04:14	JM	TAL DEN
Total/NA	Prep	7471A			0.51 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 17:58	CDH	TAL DEN
Total/NA	Prep	3060A			2.8033 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP14

Date Collected: 04/17/17 13:35

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP14

Date Collected: 04/17/17 13:35

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-15

Matrix: Solid

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.21 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/21/17 01:05	BDG	TAL HOU
Total/NA	Prep	3050B			1.237 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 04:21	CRR	TAL DEN
Total/NA	Prep	3050B			1.237 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:54	SJS	TAL DEN
Total/NA	Prep	3050B			1.237 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP14

Date Collected: 04/17/17 13:35

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-15

Matrix: Solid

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			370741	04/24/17 13:06	CRR	TAL DEN
Total/NA	Prep	3050B			1.162 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 04:18	JM	TAL DEN
Total/NA	Prep	7471A			0.57 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 18:01	CDH	TAL DEN
Total/NA	Prep	3060A			2.6138 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP17

Date Collected: 04/17/17 13:54

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP17

Date Collected: 04/17/17 13:54

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-16

Matrix: Solid

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.31 g	50 mL	211175	04/20/17 10:29	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/21/17 01:25	BDG	TAL HOU
Total/NA	Prep	3050B			1.282 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 04:24	CRR	TAL DEN
Total/NA	Prep	3050B			1.282 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:56	SJS	TAL DEN
Total/NA	Prep	3050B			1.282 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 13:08	CRR	TAL DEN
Total/NA	Prep	3050B			1.496 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 04:22	JM	TAL DEN
Total/NA	Prep	7471A			0.52 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 18:03	CDH	TAL DEN
Total/NA	Prep	3060A			2.7384 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:38	NPV	TAL SL

Client Sample ID: BAP07

Date Collected: 04/17/17 14:10

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP07

Date Collected: 04/17/17 14:10

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-17

Matrix: Solid

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.12 g	50 mL	211175	04/20/17 10:31	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/21/17 01:45	BDG	TAL HOU
Total/NA	Prep	3050B			1.340 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 04:26	CRR	TAL DEN
Total/NA	Prep	3050B			1.340 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 18:59	SJS	TAL DEN
Total/NA	Prep	3050B			1.340 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 13:11	CRR	TAL DEN
Total/NA	Prep	3050B			1.325 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 04:26	JM	TAL DEN
Total/NA	Prep	7471A			0.51 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 18:05	CDH	TAL DEN
Total/NA	Prep	3060A			2.7868 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:39	NPV	TAL SL

Client Sample ID: BAP06

Date Collected: 04/17/17 14:15

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			370860	04/25/17 15:01	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			370665	04/24/17 18:33	SVC	TAL DEN

Client Sample ID: BAP06

Date Collected: 04/17/17 14:15

Date Received: 04/17/17 16:35

Lab Sample ID: 280-95996-18

Matrix: Solid

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.34 g	50 mL	211175	04/20/17 10:31	KRD	TAL HOU
Soluble	Analysis	9056A		1			211203	04/21/17 02:05	BDG	TAL HOU
Total/NA	Prep	3050B			1.104 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370500	04/22/17 04:29	CRR	TAL DEN
Total/NA	Prep	3050B			1.104 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370560	04/22/17 19:01	SJS	TAL DEN
Total/NA	Prep	3050B			1.104 g	100 mL	370355	04/21/17 14:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			370741	04/24/17 13:13	CRR	TAL DEN
Total/NA	Prep	3050B			1.201 g	100 mL	369928	04/19/17 14:15	MLS	TAL DEN
Total/NA	Analysis	6020A		1			370190	04/20/17 04:30	JM	TAL DEN
Total/NA	Prep	7471A			0.57 g	50 mL	369989	04/19/17 12:39	CDH	TAL DEN
Total/NA	Analysis	7471A		1			370168	04/19/17 18:07	CDH	TAL DEN
Total/NA	Prep	3060A			2.6430 g	100 mL	304595	04/21/17 07:52	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	304792	04/24/17 06:39	NPV	TAL SL

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP02

Date Collected: 04/17/17 15:25

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

Client Sample ID: BAP02

Date Collected: 04/17/17 15:25

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-1

Matrix: Solid

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			4.0377 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/24/17 20:05	JCB	TAL SL
Total/NA	Prep	3050B			1.149 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138789	04/24/17 13:08	HHB	TAL CC
Total/NA	Prep	3050B			1.149 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 16:42	HHB	TAL CC
Total/NA	Prep	3050B			1.149 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 14:03	JEM	TAL CC
Total/NA	Prep	7471A			1.167 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC
Total/NA	Analysis	7471A		1			138786	04/24/17 13:50	HHB	TAL CC
Total/NA	Prep	3060A			2.7726 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	305548	04/26/17 07:42	NPV	TAL SL

Client Sample ID: BAP04

Date Collected: 04/17/17 15:37

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

Client Sample ID: BAP04

Date Collected: 04/17/17 15:37

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-2

Matrix: Solid

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			3.9985 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/24/17 21:21	JCB	TAL SL
Total/NA	Prep	3050B			1.131 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138789	04/24/17 13:23	HHB	TAL CC
Total/NA	Prep	3050B			1.131 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 16:57	HHB	TAL CC
Total/NA	Prep	3050B			1.131 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 14:56	JEM	TAL CC
Total/NA	Prep	7471A			1.088 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP04

Date Collected: 04/17/17 15:37

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-2

Matrix: Solid

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1			138786	04/24/17 13:55	HHB	TAL CC
Total/NA	Prep	3060A			2.4978 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	305548	04/26/17 07:42	NPV	TAL SL

Client Sample ID: BAP05

Date Collected: 04/17/17 15:07

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

Client Sample ID: BAP05

Date Collected: 04/17/17 15:07

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-3

Matrix: Solid

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			4.0336 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/24/17 21:46	JCB	TAL SL
Total/NA	Prep	3050B			1.057 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138789	04/24/17 13:35	HHB	TAL CC
Total/NA	Prep	3050B			1.057 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 17:01	HHB	TAL CC
Total/NA	Prep	3050B			1.057 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 15:01	JEM	TAL CC
Total/NA	Prep	7471A			1.140 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC
Total/NA	Analysis	7471A		1			138786	04/24/17 13:57	HHB	TAL CC
Total/NA	Prep	3060A			2.5341 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	50 mL	305548	04/26/17 07:42	NPV	TAL SL

Client Sample ID: BAP11

Date Collected: 04/17/17 15:48

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP11

Date Collected: 04/17/17 15:48

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-4

Matrix: Solid

Percent Solids: 71.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			4.0465 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/24/17 22:12	JCB	TAL SL
Total/NA	Prep	3050B			1.113 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138789	04/24/17 13:39	HHB	TAL CC
Total/NA	Prep	3050B			1.113 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 17:05	HHB	TAL CC
Total/NA	Prep	3050B			1.113 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 15:07	JEM	TAL CC
Total/NA	Prep	7471A			1.162 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC
Total/NA	Analysis	7471A		1			138786	04/24/17 13:59	HHB	TAL CC
Total/NA	Prep	3060A			2.6449 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	305548	04/26/17 07:42	NPV	TAL SL

Client Sample ID: BAP21

Date Collected: 04/17/17 16:12

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

Client Sample ID: BAP21

Date Collected: 04/17/17 16:12

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-5

Matrix: Solid

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			4.0510 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/24/17 22:37	JCB	TAL SL
Total/NA	Prep	3050B			1.153 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 17:08	HHB	TAL CC
Total/NA	Prep	3050B			1.153 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 15:13	JEM	TAL CC
Total/NA	Prep	7471A			1.051 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC
Total/NA	Analysis	7471A		1			138786	04/24/17 14:01	HHB	TAL CC
Total/NA	Prep	3060A			2.7312 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	305548	04/26/17 07:42	NPV	TAL SL

Client Sample ID: BAP23

Date Collected: 04/17/17 16:00

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP23

Date Collected: 04/17/17 16:00

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

Client Sample ID: BAP23

Date Collected: 04/17/17 16:00

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-6

Matrix: Solid

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			3.9887 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/24/17 23:03	JCB	TAL SL
Total/NA	Prep	3050B			1.096 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 17:12	HHB	TAL CC
Total/NA	Prep	3050B			1.096 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 15:18	JEM	TAL CC
Total/NA	Prep	7471A			1.168 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC
Total/NA	Analysis	7471A		1			138786	04/24/17 14:03	HHB	TAL CC
Total/NA	Prep	3060A			2.7391 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	305548	04/26/17 07:42	NPV	TAL SL

Client Sample ID: BAP25

Date Collected: 04/17/17 17:00

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

Client Sample ID: BAP25

Date Collected: 04/17/17 17:00

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-7

Matrix: Solid

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			3.9801 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/25/17 00:19	JCB	TAL SL
Total/NA	Prep	3050B			1.115 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 17:16	HHB	TAL CC
Total/NA	Prep	3050B			1.115 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 15:23	JEM	TAL CC
Total/NA	Prep	7471A			1.111 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC
Total/NA	Analysis	7471A		1			138786	04/24/17 14:05	HHB	TAL CC
Total/NA	Prep	3060A			2.7115 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	305548	04/26/17 07:42	NPV	TAL SL

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: BAP26

Date Collected: 04/17/17 16:45

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

Client Sample ID: BAP26

Date Collected: 04/17/17 16:45

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-8

Matrix: Solid

Percent Solids: 70.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			4.0248 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/25/17 00:44	JCB	TAL SL
Total/NA	Prep	3050B			1.178 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 17:28	HHB	TAL CC
Total/NA	Prep	3050B			1.178 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 15:29	JEM	TAL CC
Total/NA	Prep	7471A			1.150 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC
Total/NA	Analysis	7471A		1			138786	04/24/17 14:07	HHB	TAL CC
Total/NA	Prep	3060A			2.6317 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	305548	04/26/17 07:42	NPV	TAL SL

Client Sample ID: ARP01

Date Collected: 04/17/17 17:54

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

Client Sample ID: ARP01

Date Collected: 04/17/17 17:54

Date Received: 04/19/17 10:30

Lab Sample ID: 280-96077-9

Matrix: Solid

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			3.9646 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/25/17 01:10	JCB	TAL SL
Total/NA	Prep	3050B			1.130 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 17:31	HHB	TAL CC
Total/NA	Prep	3050B			1.130 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 15:34	JEM	TAL CC
Total/NA	Prep	7471A			1.169 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC
Total/NA	Analysis	7471A		1			138786	04/24/17 14:09	HHB	TAL CC
Total/NA	Prep	3060A			2.6036 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	305548	04/26/17 07:42	NPV	TAL SL

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: ARP02

Lab Sample ID: 280-96077-10

Date Collected: 04/17/17 18:00

Matrix: Solid

Date Received: 04/19/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

Client Sample ID: ARP02

Lab Sample ID: 280-96077-10

Date Collected: 04/17/17 18:00

Matrix: Solid

Date Received: 04/19/17 10:30

Percent Solids: 70.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			3.9955 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/25/17 01:35	JCB	TAL SL
Total/NA	Prep	3050B			1.115 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 17:35	HHB	TAL CC
Total/NA	Prep	3050B			1.115 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 15:40	JEM	TAL CC
Total/NA	Prep	7471A			1.126 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC
Total/NA	Analysis	7471A		1			138786	04/24/17 14:11	HHB	TAL CC
Total/NA	Prep	3060A			2.5367 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	305548	04/26/17 07:42	NPV	TAL SL

Client Sample ID: ARP03

Lab Sample ID: 280-96077-11

Date Collected: 04/17/17 17:35

Matrix: Solid

Date Received: 04/19/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

Client Sample ID: ARP03

Lab Sample ID: 280-96077-11

Date Collected: 04/17/17 17:35

Matrix: Solid

Date Received: 04/19/17 10:30

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			3.9972 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/25/17 02:01	JCB	TAL SL
Total/NA	Prep	3050B			1.071 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 17:39	HHB	TAL CC
Total/NA	Prep	3050B			1.071 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 15:45	JEM	TAL CC
Total/NA	Prep	7471A			1.055 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC
Total/NA	Analysis	7471A		1			138786	04/24/17 14:16	HHB	TAL CC
Total/NA	Prep	3060A			2.5074 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	305548	04/26/17 07:42	NPV	TAL SL

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Client Sample ID: ARP04

Lab Sample ID: 280-96077-12

Date Collected: 04/17/17 17:42

Matrix: Solid

Date Received: 04/19/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

Client Sample ID: ARP04

Lab Sample ID: 280-96077-12

Date Collected: 04/17/17 17:42

Matrix: Solid

Date Received: 04/19/17 10:30

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			3.9655 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/25/17 02:26	JCB	TAL SL
Total/NA	Prep	3050B			1.244 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 17:43	HHB	TAL CC
Total/NA	Prep	3050B			1.244 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 16:22	JEM	TAL CC
Total/NA	Prep	7471A			1.159 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC
Total/NA	Analysis	7471A		1			138786	04/24/17 14:18	HHB	TAL CC
Total/NA	Prep	3060A			2.5711 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	305548	04/26/17 07:42	NPV	TAL SL

Client Sample ID: ARP05

Lab Sample ID: 280-96077-13

Date Collected: 04/17/17 17:47

Matrix: Solid

Date Received: 04/19/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			371051	04/26/17 12:45	DEG	TAL DEN
Total/NA	Analysis	Moisture		1			138740	04/21/17 10:54	AM1	TAL CC

Client Sample ID: ARP05

Lab Sample ID: 280-96077-13

Date Collected: 04/17/17 17:47

Matrix: Solid

Date Received: 04/19/17 10:30

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DILeach_Prep			4.0062 g	40 mL	305207	04/24/17 18:13	JCB	TAL SL
Total/NA	Analysis	9056A		1			305190	04/25/17 02:51	JCB	TAL SL
Total/NA	Prep	3050B			1.177 g	50 mL	138747	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6010B		1			138815	04/24/17 17:47	HHB	TAL CC
Total/NA	Prep	3050B			1.177 g	50 mL	138745	04/21/17 14:00	X1Y	TAL CC
Total/NA	Analysis	6020		1			139096	05/02/17 16:27	JEM	TAL CC
Total/NA	Prep	7471A			1.006 g	50 mL	138774	04/24/17 10:30	HHB	TAL CC
Total/NA	Analysis	7471A		1			138786	04/24/17 14:20	HHB	TAL CC
Total/NA	Prep	3060A			2.7032 g	100 mL	305237	04/25/17 08:44	NPV	TAL SL
Total/NA	Analysis	7196A		1	25 mL	25 mL	305548	04/26/17 07:44	NPV	TAL SL

TestAmerica Denver

Lab Chronicle

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Laboratory References:

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673
TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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Accreditation/Certification Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Laboratory: TestAmerica Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-17
A2LA	ISO/IEC 17025		2907.01	10-31-17
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	04-05-18
Arizona	State Program	9	AZ0713	12-20-17
Arkansas DEQ	State Program	6	88-0687	06-01-17
California	State Program	9	2513	01-08-18 *
Connecticut	State Program	1	PH-0686	09-30-18
Florida	NELAP	4	E87667	06-30-17
Georgia	State Program	4	N/A	01-08-18
Illinois	NELAP	5	200017	04-30-18
Iowa	State Program	7	370	12-01-18 *
Kansas	NELAP	7	E-10166	04-30-17 *
Louisiana	NELAP	6	02096	06-30-17
Maine	State Program	1	CO0002	03-03-19
Minnesota	NELAP	5	8-999-405	12-31-17 *
Nevada	State Program	9	CO0026	07-31-17
New Hampshire	NELAP	1	205310	04-28-17 *
New Jersey	NELAP	2	CO004	06-30-17
New York	NELAP	2	11964	04-01-18
North Carolina (WW/SW)	State Program	4	358	12-31-17
North Dakota	State Program	8	R-034	01-09-18
Oklahoma	State Program	6	8614	08-31-17
Oregon	NELAP	10	4025	01-08-18
Pennsylvania	NELAP	3	68-00664	07-31-17
South Carolina	State Program	4	72002001	01-09-17 *
Texas	NELAP	6	T104704183-16-12	09-30-17
USDA	Federal		P330-16-00397	12-15-19
Utah	NELAP	8	CO00026	07-31-17
Virginia	NELAP	3	460232	06-14-17
Washington	State Program	10	C583	08-02-17
West Virginia DEP	State Program	3	354	11-30-17
Wisconsin	State Program	5	999615430	08-31-17
Wyoming (UST)	A2LA	8	2907.01	10-31-17

Laboratory: TestAmerica Corpus Christi

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Oklahoma	State Program	6	2015-119	08-31-17
Texas	NELAP	6	T104704210-16-18	03-31-18
USDA	Federal		P330-16-00403	12-28-19

Laboratory: TestAmerica Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	16-046-0	08-04-17
Louisiana	NELAP	6	01967	06-30-17
Oklahoma	State Program	6	2015-050	08-31-17
Texas	NELAP	6	T104704223-17-21	10-31-17

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Denver

Accreditation/Certification Summary

Client: HDR Inc
Project/Site: Pawnee Soil Sampling

TestAmerica Job ID: 280-95996-1

Laboratory: TestAmerica Houston (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
USDA	Federal		P330-14-00192	06-06-17

Laboratory: TestAmerica St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-17 *
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-17 *
Florida	NELAP	4	E87689	06-30-17 *
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17 *
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17 *
Nevada	State Program	9	MO000542017-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17 *
New York	NELAP	2	11616	03-31-18
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-18
South Carolina	State Program	4	85002001	06-30-17 *
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17 *
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Denver

Chain of Custody Record

Client Information Client Contact: Matthew Rohr Company: HDR Inc Address: 1670 Broadway, Suite 3400 City: Denver State, Zip: CO, 80202 Phone: 907-644-2078(Tel) Email: Matthew.Rohr@hdrinc.com Project Name: Pawnee Soil Sampling Site:		Sample: N. Hanrahan Lab PM: Rollmeyer, Stephanie K E-Mail: stephanie.rollmeyer@testamericainc.com Phone: 507-250-1774 Due Date Requested: 5 day TAT TAT Requested (days): PO #: DEN-010 WO #: Project #: 28016050 SSOW#:		Carrier Tracking No(s): 280-63558-21776.1 Page: 1 of 1 Job #:	
Analysis Requested  280-95996 Chain of Custody		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Sample Identification BAP03 BAP12 BAP20 BAP22 BAP24 BAP15 BAP08 BAP01 BAP19 BAP18 BAP10		Sample Date 04-17-17 04-17-17 04-17-17 04-17-17 04-17-17 04-17-17 04-17-17 04-17-17 04-17-17 04-17-17		Sample Time 10:00 10:21 10:29 10:45 11:05 11:43 12:05 12:17 12:34 12:45 12:45	
Matrix (W=water, S=solid, O=waste, A=air) G=grab SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL		Preservation Code: G G G G G G G G G G		Field Filtered Sample (Yes or No) (6010C, 6020, 7471A, 9050) XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX	
Perform MS/MSD (Yes or No) XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX		Total Number of Containers 3 3 3 3 3 3 3 3 3 3		Special Instructions/Note: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months Special Instructions/QC Requirements:	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: Jennifer Chardelle Date: 10:35 4/17/17 Company:		Relinquished by: Jennifer Chardelle Date/Time: 4-17-17 1635 Company: TAP	
Relinquished by: Jennifer Chardelle Date/Time: 4-17-17 1635 Company: TAP		Relinquished by: Jennifer Chardelle Date/Time: 4-17-17 1635 Company: TAP		Relinquished by: Jennifer Chardelle Date/Time: 4-17-17 1635 Company: TAP	
Custody Seal No.: Yes No		Custody Seal No.: Yes No		Custody Seal No.: Yes No	

Chain of Custody Record

Client Information Client Contact: Matthew Rohr Company: HDR Inc Address: 1670 Broadway, Suite 3400 City: Denver State, Zip: CO, 80202 Phone: 907-644-2078(Tel) Email: Matthew.Rohr@hdrinc.com Project Name: Pawnee Soil Sampling Site:		Sampler: N. Hancherhan Lab PM: Rothmeyer, Stephanie K Phone: 507-250-1774 E-Mail: stephanie.rothmeyer@testamericainc.com		COC No: 280-63558-21776.1 Page: _____ of _____ Job #: _____	
Due Date Requested: TAT Requested (days): 5 day TAT PO #: DEN-010 WO #: _____ Project #: 28016050 SSOW#: _____		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Sample Identification BAPO9 BAP10 BAP13 BAP14 BAP17 BAP07 BAP06		Sample Date 04.17.17 04.17.17 04.17.17 04.17.17 04.17.17 04.17.17		Sample Time 13:10 13:18 13:28 13:35 13:34 14:10 14:15	
Sample Type (C=Comp, G=grab) G G G G G G G		Matrix (W=water, S=solid, O=oil, A=air) Soil Soil Soil Soil Soil Soil Soil		Preservation Code: G G G G G G G	
Field Filtered Sample (Yes or No) (60100, 6020, 7471A, 9056, 9166A)		Perform MS/MSD (Yes or No)		Total Number of Containers 3 3 3 3 3 3 3	
Special Instructions/Note:		Special Instructions/Note:			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <i>Stephanie Chaudhry</i>		Date/Time: 16.38 4/17/17		Company:	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Chain of Custody Record



280-96077 Chain of Custody

Client Information Client Contact: Matthew Rchr Company: HDR Inc Address: 1670 Broadway, Suite 3400 City: Denver State, Zip: CO, 80202 Phone: 907-644-2078(Tel) Email: Matthew.Rchr@hdrinc.com Project Name: Pawnee Soil Sampling Site:		Sampler: N. Harahan Lab PM: Rothmeyer, Stephanie K Phone: (507) 250-1774 E-Mail: stephanie.rothmeyer@testamericainc.com		Job #: 280-63558-21776.1 Page: 1 of 2 Job #:					
Due Date Requested: TAT Requested (days): 5 Day PO #: DEN-010 WO #:		Analysis Requested Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O1S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:							
Sample Identification BAP02 BAP04 BAP05 BAP11 BAP21 BAP23 BAP25 BAP26		Sample Date 4/17/17 1525 1537 1507 1548 1612 1600 1700 1645	Sample Type (C=Comp, G=grab) G S S S S S S S	Matrix (W=water, S=solid, O=ore, T=tissue, A=air) S S S S S S S S	Field Filtered Sample (Yes or No) N N N N N N N N	Perform MS/MSD (Yes or No) N N N N N N N N	Total Metals C-III C-VI 9056 7471A	Total Number of Containers 3 3 3 3 3 3 3 3	Special Instructions/Note: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]									
Date: 4/19/17 1030 Date: 4/19/17 1030 Date: 4/19/17 1030 Date: 4/19/17 1030									
Company: HDR Company: HDR Company: HDR Company: HDR									
Custody Seal No.: Custody Seal Intact: Yes ☐ No ☐									
Cooler Temperature(s) °C and Other Remarks: 0-9, 3.340-0.0 10-17 Transferred by 55 4/19/17									

Chain of Custody Record

Client Information Client Contact: Matthew Rohr Company: HDR Inc Address: 1670 Broadway, Suite 3400 City: Denver State, Zip: CO, 80202 Phone: 907-644-2078(Tel) Email: Matthew.Rohr@hdrinc.com Project Name: Pawnee Soil Sampling Site:		Sampler: N. Hanrahan Lab PM: Rothmeyer, Stephanie K E-Mail: stephanie.rothmeyer@testamericainc.com Phone: (507) 250-1774 Carrier Tracking No(s):		COC No: 280-63558-21776-1 Page: 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): 5 Day PO #: DEN-010 WO #: Project #: 28016050 SSOW#:		Analysis Requested Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:			
Sample Identification ARP01 ARP02 ARP03 ARP04 ARP05		Sample Date 4/17/17 4/17/17 4/17/17 4/17/17 4/17/17		Sample Time 1754 1800 1735 1742 1747	
Sample Type (C=comp, G=grab) G G G G G		Matrix (W=water, S=solid, O=ore, T=tissue, A=air) S S S S S		Preservation Code: S S S S S	
Field Filtered Sample (Yes or No) N N N N N		Perform MS/MSD (Yes or No) N N N N N		Total Number of Containers 3 3 3 3 3	
Special Instructions/Note: Total Metals C-VI C-III 9056 74714					
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by: [Signature] Date: 4/19/17 1030					
Relinquished by: [Signature] Date/Time: 4/19/17 1030 Company: HDR					
Relinquished by: Date/Time: Company:					
Relinquished by: Date/Time: Company:					
Custody Seal No.: ☐ Yes ☐ No					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months					
Special Instructions/QC Requirements:					
Method of Shipment:					
Received by: [Signature] Date/Time: 4-19-17 1030 Company: TAP					
Received by: Date/Time: Company:					
Received by: Date/Time: Company:					
Cooler Temperature(s) °C and Other Remarks:					

Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566 (Tel) 314-298-8757 (Fax) Email: Project Name: Pawnee Soil Sampling Site:		Sampler: Lab PM: Rolfmeyer, Stephanie... Phone: E-Mail: stephanie.rolfmeier@testamericainc.com State of Origin: Colorado Accreditations Required (See note):		OC No: 280-95996 Chain of Custody Page: Page 1 of 2 Job #: 280-95996-1
Due Date Requested: 4/24/2017 TAT Requested (days): PO #: WO #: Project #: 28016050 SSOW#:		Analysis Requested A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
Sample Identification - Client ID (Lab ID)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:		
BAP03 (280-95996-1) BAP12 (280-95996-2) BAP20 (280-95996-3) BAP22 (280-95996-4) BAP24 (280-95996-5) BAP15 (280-95996-6) BAP08 (280-95996-7) BAP01 (280-95996-8) BAP19 (280-95996-9)		Total Number of Containers 1 1 1 1 1 1 1 1 1		
Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 7196A/306A Chromium, Hexavalent		X X X X X X X X X		
Sample Date 4/17/17 4/17/17 4/17/17 4/17/17 4/17/17 4/17/17 4/17/17 4/17/17 4/17/17		Sample Time 10:00 Mountain 10:21 Mountain 10:29 Mountain 10:45 Mountain 11:05 Mountain 11:43 Mountain 12:05 Mountain 12:17 Mountain 12:34 Mountain		
Sample Type (C=Comp, G=grab) Preservation Code:		Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air) Solid Solid Solid Solid Solid Solid Solid Solid Solid		
Primary Deliverable Rank: 2		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months		
Empty Kit Relinquished by:		Method of Shipment:		
Relinquished by:		Date/Time: 4-19-17 09:15 Company: BSN		
Relinquished by:		Date/Time:		
Relinquished by:		Date/Time:		
Custody Seals Intact:		Cooler Temperature(s) °C and Other Remarks:		
Δ Yes Δ No		Custody Seal No.:		

Client Information (Sub Contract Lab)				Lab PM:	Carrier Tracking No(s):	COC No:															
Client Contact:				Stephanie K		280-394817.2															
Shipping/Receiving				E-Mail:	State of Origin:	Page:															
Company:				stephanie.rothmeyer@testamericainc.com	Colorado	Page 2 of 2															
Address:				Accreditations Required (See note):	Job #:																
13715 Rider Trail North,				280-95996-1																	
City:																					
Earth City																					
State Zip:																					
MO. 63045																					
Phone:																					
314-298-8566(Tel) 314-298-8757(Fax)																					
Email:																					
Project Name:																					
Pawnee Soil Sampling																					
Site:																					
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7196A/306A Chromium, Hexavalent	Analysis Requested					Preservation Codes:	Total Number of containers	Special Instructions/Note:			
BAP18 (280-95996-10)				4/17/17	12:45	Mountain	Solid			X											
BAP10 (280-95996-11)				4/17/17	13:02	Mountain	Solid			X											
BAP09 (280-95996-12)				4/17/17	13:10	Mountain	Solid			X											
BAP16 (280-95996-13)				4/17/17	13:18	Mountain	Solid			X											
BAP13 (280-95996-14)				4/17/17	13:28	Mountain	Solid			X											
BAP14 (280-95996-15)				4/17/17	13:35	Mountain	Solid			X											
BAP17 (280-95996-16)				4/17/17	13:54	Mountain	Solid			X											
BAP07 (280-95996-17)				4/17/17	14:10	Mountain	Solid			X											
BAP06 (280-95996-18)				4/17/17	14:15	Mountain	Solid			X											

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Special Instructions/QC Requirements:

Primary Deliverable Rank: 2

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:

Relinquished by: *Patricia* Date/Time: 4/18/17 1540 Company: TAD

Relinquished by: Date/Time: Company:

Relinquished by: Date/Time: Company:

Custody Seal No.: *Patricia* Date/Time: 4/18/17 1540 Company: TAD

Custody Seal Intact: ☐ Yes ☐ No

Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: <u>Stephanie K. Rothmeyer</u>	
Client Contact: <u>Stephanie Rothmeyer</u>		E-Mail: <u>stephanie.rothmeyer@testamericainc.com</u>	
Company: <u>TestAmerica Laboratories, Inc.</u>		Accreditations Required (See note): <u>Colorado</u>	
Address: <u>13715 Rider Trail North,</u>		Page 1 of 2	
City: <u>Earth City</u>		Job #: <u>280-96077-1</u>	
State, Zip: <u>MO, 63045</u>		Preservation Codes:	
Phone: <u>314-298-8566(Tel) 314-298-8757(Fax)</u>		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project Name: <u>Pawnee Soil Sampling</u>		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Site: <u></u>		Total Number of containers: <u>1</u> Special Instructions/Note:	

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoli, BT=tissue, Ash)	Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)	7196A/3060A Chromium, Hexavalent	9056A_ORGFM_28D/DI Prep Fluoride	Analysis Requested	Preservation Code	Total Number of containers	Special Instructions/Note
BAP02 (280-96077-1)	4/17/17	15:25 Mountain		Solid	X	X	X	X			1	
BAP04 (280-96077-2)	4/17/17	15:37 Mountain		Solid	X	X	X	X			1	
BAP05 (280-96077-3)	4/17/17	15:07 Mountain		Solid	X	X	X	X			1	
BAP11 (280-96077-4)	4/17/17	15:48 Mountain		Solid	X	X	X	X			1	
BAP21 (280-96077-5)	4/17/17	16:12 Mountain		Solid	X	X	X	X			1	
BAP23 (280-96077-6)	4/17/17	16:00 Mountain		Solid	X	X	X	X			1	
BAP25 (280-96077-7)	4/17/17	17:00 Mountain		Solid	X	X	X	X			1	
BAP26 (280-96077-8)	4/17/17	16:45 Mountain		Solid	X	X	X	X			1	
ARP01 (280-96077-9)	4/17/17	17:54 Mountain		Solid	X	X	X	X			1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	
Unconfirmed	
Deliverable Requested: I, II, III, IV, Other (specify) <u>Primary Deliverable Rank: 2</u>	
Empty Kit Relinquished by: <u></u> Date: <u></u> Time: <u></u>	
Relinquished by: <u>Arvada</u>	Relinquished by: <u>Stephanie Rothmeyer</u>
Relinquished by: <u></u>	Relinquished by: <u></u>
Relinquished by: <u></u>	Relinquished by: <u></u>
Custody Seals Intact: <u>Yes</u> ☐ <u>No</u> ☐	Custody Seal No.: <u></u>

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Special Instructions/QC Requirements:	
Method of Shipment: <u>4/21/17</u> Date/Time: <u>0905</u> Company: <u>TA572</u>	
Received by: <u>Stephanie Rothmeyer</u> Date/Time: <u></u> Company: <u></u>	
Received by: <u></u> Date/Time: <u></u> Company: <u></u>	
Cooler Temperature(s) °C and Other Remarks: <u></u>	



Client Information (Sub Contract Lab)				Lab P/W: Rothmeyer, Stephanie K E-Mail: stephanie.rothmeyer@testamerica.com		Carrier Tracking No(s): State of Origin: Colorado		COC No: 280-395194.2 Page: Page 2 of 2	
Project Name: Pawnee Soil Sampling Address: 171733 N Padre Island Drive, City: Corpus Christi State, Zip: TX, 78408 Phone: 361-289-2673(Tel) 361-289-2471(Fax) Email:				Due Date Requested: 4/21/2017 TAT Requested (days): PO #: WO # Project # 28016050 SSOW#		Accreditations Required (See note): Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Z - other (specify) Other:	
Sample Identification - Client ID (Lab ID)				Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, G=granular, O=other)		Field Filled Sample (Yes or No) Perform MS/MSD (Yes or No) Moisture 7471A/7471A Prep Mercury (CVAA) 6010B/3050B Metals (ICP)- 17 metals 6020/3050B Thallium		Total Number of Containers	
ARP02 (280-96077-10) ARP03 (280-96077-11) ARP04 (280-96077-12) ARP05 (280-96077-13)				4/17/17 18:00 Mountain 4/17/17 17:35 Mountain 4/17/17 17:42 Mountain 4/17/17 17:47 Mountain		Solid Solid Solid Solid		X X X X	
Special Instructions/Note:				Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification			
Deliverable Requested: I, II, III, IV, Other (specify) _____			
Empty Kit Relinquished by: _____			
Relinquished by: <i>Stephanie Rothmeyer</i>			
Relinquished by: _____			
Relinquished by: _____			
Relinquished by: _____			
Custody Seal No.: _____			

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months		Special Instructions/QC Requirements:	
Date: _____		Method of Shipment:	
Date: 4/20/17 1545 Date Time: 4/20/17 1545 Date Time: 4/20/17 1545 Date Time: 4/20/17 1545		Received by: <i>Cory Webb</i> Received by: _____ Received by: _____ Received by: _____	
Company: <i>TAD</i> Company: _____ Company: _____ Company: _____		Cooler Temperature(s) °C and Other Remarks: <i>65.1 w/ cool. to TAD</i>	



Chain of Custody Record

Client Information (Sub Contract Lab)				Lab PM: Rothmeyer, Stephanie K E-Mail: stephanie.rothmeyer@testamericainc.com		Carrier Tracking No(s): 280-394819.1	
Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc.				Phone: _____ State of Origin: Colorado		Page: Page 1 of 2	
Address: 63310 Rothway Street, City: Houston State, Zip: TX, 77040 Phone: 713-690-4444(Tel) 713-690-5646(Fax) Email: _____				Job #: 280-95996-1		COC No: 280-394819.1	
Project Name: Pawnee Soil Sampling Site: _____				Project #: 28016050 SSOW #: _____		Accreditations Required (See note): _____	
Due Date Requested: 4/24/2017 TAT Requested (days): _____				PO #: _____ WO #: _____		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify) _____	
Analysis Requested				Preservation Codes:		Special Instructions/Note:	
 280-95996 Chain of Custody				Total Number of Containers: 1		Special Instructions/Note: _____	
Sample Identification - Client ID (Lab ID)				Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date				Sample Time		Matrix (W=water, S=solid, O=soil, A=air)	
Sample Date							

Chain of Custody Record

Client Information (Sub Contract Lab)						Lab PM: Rothmeyer, Stephanie K		Carrier Tracking No(s): 280-394819.2	
Client Contact: Shipping/Receiving						Phone:		State of Origin: Colorado	
Company: TestAmerica Laboratories, Inc.						E-Mail: stephanie.rothmeyer@testamericainc.com		Page: Page 2 of 2	
Address: 63310 Rothway Street, City: Houston State, Zip: TX, 77040						Accreditations Required (See note): 280-95996-1		Job #:	
Phone: 713-690-4444(Tel) 713-690-5646(Fax)									
Email:									
Project Name: Pawnee Soil Sampling									
Site:									
Due Date Requested: 4/24/2017									
TAT Requested (days):									
PO #:									
WO #:									
Project #: 28016050									
SSOW#:									
Sample Identification - Client ID (Lab ID)						Analysis Requested			
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oils/sludge, A=air) (B=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Performance MS/MSD (Yes or No)	9056 ORGFM_28/DI LEACH Fluoride	Total Number of containers	Special Instructions/Note:
BAP18 (280-95996-10)	4/17/17	12:45 Mountain	Solid	Solid	X	X		1	
BAP10 (280-95996-11)	4/17/17	13:02 Mountain	Solid	Solid	X	X		1	
BAP09 (280-95996-12)	4/17/17	13:10 Mountain	Solid	Solid	X	X		1	
BAP16 (280-95996-13)	4/17/17	13:18 Mountain	Solid	Solid	X	X		1	
BAP13 (280-95996-14)	4/17/17	13:28 Mountain	Solid	Solid	X	X		1	
BAP14 (280-95996-15)	4/17/17	13:35 Mountain	Solid	Solid	X	X		1	
BAP17 (280-95996-16)	4/17/17	13:54 Mountain	Solid	Solid	X	X		1	
BAP07 (280-95996-17)	4/17/17	14:10 Mountain	Solid	Solid	X	X		1	
BAP06 (280-95996-18)	4/17/17	14:15 Mountain	Solid	Solid	X	X		1	
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Time: _____ Date: _____ Empty Kit Relinquished by: <i>Fabrizio Mc</i> Relinquished by: <i>Fabrizio Mc</i> Relinquished by: Relinquished by: Custody Seal No.: _____ Custody Seals Intact: ☐ Yes ☒ No									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements: Method of Shipment: _____ Received by: <i>[Signature]</i> Date/Time: <i>4/17/17 10:20</i> Company: _____ Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Cooler Temperature(s) °C and Other Remarks:									

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 280-95996-1

Login Number: 95996

List Source: TestAmerica Denver

List Number: 1

Creator: Woodworth, Sean P

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Refer to Job Narrative for details.
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 280-95996-1

Login Number: 95996

List Number: 2

Creator: Crafton, Tommie S

List Source: TestAmerica Houston

List Creation: 04/19/17 12:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 280-95996-1

Login Number: 95996

List Number: 3

Creator: Taylor, Kristene N

List Source: TestAmerica St. Louis

List Creation: 04/19/17 04:31 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1,1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 280-95996-1

Login Number: 96077

List Source: TestAmerica Denver

List Number: 1

Creator: True, Joshua A

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 280-95996-1

Login Number: 96077

List Number: 2

Creator: Etter, Corey M

List Source: TestAmerica Corpus Christi

List Creation: 04/21/17 10:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 280-95996-1

Login Number: 96077

List Number: 3

Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

List Creation: 04/21/17 11:08 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	