#### NM WRRI Student Water Research Grant Progress Report Form

Progress Report due Feb 1, 2017 Draft Final Report due June 1, 2017 Final Report due June 30, 2017

1. Student Researcher: Moticha Yellowman

**Faculty Advisor:** Dr. Antonio Lara **Project Sponsor:** Dennis McQuillan

2. **Project Title:** San Jose Mining District Groundwater Investigation

#### 3. Description of research problem and research objectives.

Uranium in excess of the drinking-water standard of 30  $\mu$ g/L has been detected in approximately 50% of the wells tested in the Española Basin east of the Rio Grande, extending from northern Santa Fe into Española, New Mexico. Concentrations range from less than 1  $\mu$ g/L to a maximum of 1820  $\mu$ g/L. Isotopic signatures are consistent with natural uranium, not depleted or enriched by anthropogenic processes. At least 27 wells serving 19 public water systems, and 209 private domestic wells, produce water with excessive uranium. Many wells also contain high concentrations of arsenic. Potential sources for uranium in the groundwater include

- 1) uranium mineralization in the Tesuque Formation (San Jose mining district)
- 2) rhyolitic volcanic ash beds and sandstones with volcanic detritus interbedded with the Tesuque Formation
- 3) granites, pegmatites, veins and replacement minerals in crystalline rocks in the Sangre de Cristo Mountains east of the Española Basin.

Some area residents have installed ion exchange and reverse osmosis treatment units to decrease contaminants levels from their well water. The Pojoaque Basin Regional Water System is scheduled to be constructed, and residents in the service area will have the option to either connect or remain on their private domestic wells

#### 4. Description of methodology, employed.

Methods that were used out in the field were to knock on doors, requesting permission to sample wells along HW-285 between Pojoaque and Arroyo Seco. When permission was granted by the home owners, a conductivity reading was tested on their water wells. After conductivity reading was stable, duplicate samples from the domestic water wells were collected for general water chemistry and trace metals. For statistical quality assurance, a blind duplicate was implemented for one well. Another method was to locate the home sites on an aerial photo, while documenting the longitude, latitude and the elevation of the water wells. An interview on the homeowner was taken note of; homeowners gave their information about the domestic well with their information to give possible results back to them.

# 5. Description of results; including findings, conclusions, and recommendations for further research.

The analyses were completed by the New Mexico Bureau of Geology. With the following findings:

- Out of 12 samples, 10 exceeded the Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for arsenic.
   EPA MCL standard for arsenic is 0.01 mg/L.
- Out of 12 samples, 4 exceeded the New Mexico Water Consumption standard for fluoride.
  - New Mexico Water Commission standard for fluoride is 1.6 mg/L.
- Out of 12 samples, only 2 exceeded the EPA MCL standard for uranium.\ EPA MCL standard for uranium is 0.03 mg/L.

Below are all 13 samples that were taken from domestic wells in the San Jose Mining District.





Customer: NMED				Number: 170507	
Sontact: Dennis V					9:00:00 AM
	COMM		Proje		
Phone			Matri		
Boron 11	0.895	mg/L	1	0.005	6030017
Cadmium 111	NO	mg/L	1	0.0005	60000017
Chepmium	NO.	mg/L	1	0.0005	6030617
Cohell	NO	mg/L	1	0.0005	6030017
Copper 46	0.2003	mgt.	1	0.0006	6030017
Load	0.0005	mgt.	1	0.0006	6/03/0017
Littium	0.870	mg/L	1	6.001	6030017
Manganese	NO	mgt.	1	0.001	6030017
Melyhdanum 95	0.850	mg/L	1	6.001	6030017
Nickel	NO.	mgil.	1	0.0005	6030017
Selection	0.801	mg/L	1	6.001	6030017
Sifeon	13.9	mgt.	6	602 (6.1)	6030017
Silver 107	NO	mg/L	1	6.0005	6030017
Strontium	0.130	mgil.	1	6.001	6030017
Theffum	NO	mgt.	1	0.0006	6030017
Thesium	NO.	mgA.	1	0.0005	6030012
Tin	NO	mgt.	1	0.0006	6030017
Titanium	0.802	mgit.	1	6001	6030017
Chanken	NO.	mgil.	1	0.0005	6030017
Yanadum	NO	mgil.	1	0.0005	6030917
2mc 96	0.0443	mgt.	1	0.0006	6030017
Laboratory sample 10	Custo	mer sample IC:	Test		Method
179687-01	2		Aniona by	NG.	EPA 300.0
Parameter	Result	Units	Baution	Reporting Smit	Analysis But
Bromide	0.29	mgA.	- 1	41	67(300)7
Chloride	29.3	mg/L	1	1	6/13/2017
Fluorida	0.87	mgt.	1	61	6100017
Minute	NO.	mg 1405K	4	8.1	AND DELT
Nitrite	NO	mg NGSE.	1	6.1	6/12/2017
Otto Prosphate	NO	mgt.	1	0.6	67(30017
Sofies	160	mgit.	2	1 (2)	6/13/2017
aboratory sample IC	Custos	mer sample ID:	Test		Method
170607-01	2		Alkalinity		EPA 210.1
Parameter	Result	UNITS	Dilution	Reporting limit	Analysis Ox
Albahrity on Califoli	131	mgil.	1	5	6190917
C and detected at the rec			ure 26, 2017		Page 2 of 2

Customer: NHED  Contact: Danna Mc			Recei	Number: ive Date:	6/9/2017 9	00:00 AM
Phone:			Proje		Water	
Bostonia (4000)	147	mgt.	1			6790917
Carbonate (CCI)	7	mgil.	1	6		6/10/2017
Laboratory sample ID: 170607-01	Custon	mer sample ID:	Test Checking	correctness		Method: SAI 10300
Parameter	Result	Units	Dilution	Reporte	ng Brodi	Analysis Date
Aniona total	5.62	mays.				
Cations total	5.54	marpl.				
Percent difference	447		5			
802	29.7	mgt.		0.26		
TOS-cute	370	mgil.				
Laboratory sample ID:	Custon	mer sample ID:	Test			Method
170607-01	2		Hardness	by calculate	en.	SM 23408
Parameter	Result	Cinits	DRUGGA	Reports	ng timit	Analysis Dan
Mandhoos	15.0	Mg Cuccors.	-			

#### Sample 7

Customer: NMED Contact: Durvis M Phone:	Outlan			et	H00:00 AM
Laboratory sample IC:		mer sample IO:	Test		Method:
170607402	Chave	s 7	Specific C	onductance	EPA 130.1
Parameter	Result	Units	Dilution	Reporting limit	Analysis Date
Specific Conductance	584	ublem			6/1909/7
Laboratory sample ID: 170007-02	Charle	mer sample ID: s 7	Test: pH		Method: EPA 190.1
Parameter	Result	Units	Dilution	Reporting limit	Analysis Date
get.	8.4	ph ONE			6100017
Laboratory sample 10. 170607402	Custo	mer sample ID: s 7	Testi Cations Is	riceous	Method: EPA 200.7
Parameter	Result	Units	Dilution	Reporting limit	Analysis Dat
Cukium	9.19	mgA.	1	0.06	6030917
ton	NO	mgt.		0.00	6130917
Magmoslum	0.401	mg/L		0.06	6190917
Potassium	2,60	mgA.		0.06	6/13/2017
Sodun	116	mg/L	5	0.05 (0.15)	6/13/2017
Storium	0.160	mpl.		0.0005	6/13/2017
Laboratory sample ID: 170007-02	Custo	mer sample ID: s 7	Test: Trace Me	us by KITHS	Method: EPA 200.8
Parameter	Result	Units	Dilution	Reporting limit	Analysis Date
Aluminum	0.0017	mgA.	1	0.0005	6030917
Artimony 121	MD	mgt.	1	0.0006	6030917
Americ	0.0112	mgA.	1	0.0005	6030917
Defum	0.001	mgA.	1	0.001	5030917
Buyflum	MD	max.		0.0006	6030017
Boron 11	0.000	mgA.		0.005	6030917
Cadmium 111	MD	mgA.	1	0.0005	6030917
Chepmium	MO	mgA.		0.0005	6030017
Cobalt	MD	mgA.		0.0005	6030917
Conner 65	MD	mgA.	1	0.0005	6030917
	MD	mgt.		0.0006	6030017
Lead				0.001	6030907
Lead	0.071	mgA.			

Dustomer: NNED				Number:	179697	
			Recei	we Date:	6/9/2017 9	100.00 AM
Contact: Dennis M	20ullan		Projec	are:		
Phone:			Matrix		Water	
Mangarese	0.000	mgil.		0.901		6030917
Melyholenum 95	0.004	mgil.		0.001		60309/T
Note	NO	mgt.		0.3006		6030917
Sekriun	0.001	mgt.	1	0.301		6030917
Silicon	6.77	mg/L	6	6.82	6.0	6030907
Silver 107	NO.	mpl.		0.3005		6030907
Stranium	0.100	mail	1	0.001		6699917
Thallum	NO	mgt.		0.3006		6030017
Therium	NO.	mg/L		0.0006		6030907
Tin	NO.	mpl.		0.3005		6030917
Titerium	0.001	mg/L	1	0.001		6630317
Ularium.	MD	mg6.	1	0.8005		6630917
Vanadum	NO.	mgd.		0.3005		6030907
Zine 66	0.0006	mgil.		0.3005		6030917
			Test			
Laboratory sample ID		ner sample IO:				Method
170607-02	Chaves		Aniona by			EPA 300.0
Parameter	Result	Units	Dilution	Reports	ng Smit	Analysis Dat
Bromide	0.38	mgil.		6.1		6133917
Chloride	26.0	mg/L		1		6120917
Fluorida	0.64	mgt.		0.1		6120917
Nitrate	NO	ing NOSE.		0.1		6130917
Nicke	NO.	mg 14034.		0.1		6/13/39/17
Online Phosphale	MO.	mg/L		0.5		6133917
		mas.	2		679	6730917
Sution	130	mgs.		•		
Sution		_		_		Makes
Sulfuni Laboratory sample ID:	Custor	ner sample 10:	Test	_		Method:
Sulfate Laboratory sample IO: 170607-02	Chave	ner sample IC:	Test: Akalmiy			EPA 310.1
Sulface Laboratory sample IO: 170607-02 Parameter	Chaves Result	ner sample ID: 17 Units	Test: Akalinity Dilution	Reports		EPA 310.1 Analysis Dat
Surface Laboratory sample ID: 170607-02 Parameter Ahability as CuCO3	Chave Chave	mer sample IC: 17 Units mgl.	Test: Akaliney Dilution	Reports 5		EPA 310.1 Analysis Dat 6190917
Surface Laboratory sample ID: 170601-02 Parameter Abability as CaCO3 Biostonate (HCCO)	Chave Chave Result 118	uer sample IC: 17 Units mpl. mgl.	Test: Akalinity Dilution	Reports		EPA 310.1 Analysis Dat 6/190917 6/190917
Surface Laboratory sample ID: 170601-02 Parameter Abability as CaCO3 Biostonate (HCCO)	Chave Chave	mer sample IC: 17 Units mgl.	Test: Akaliney Dilution	Reports 5		EPA 310.1 Analysis Dat 6190917
Suitate Laboratory sample IO: 170607-02 Parameter Abability se CeCO3 Biostonate (PCO5) Cestomate (CO0)	Custor Chaves Result 118 136 6	uer sample IC: 17 Units mpl. mgl.	Test: Akaliney Dilution	Reports 5		EPA 310.1 Analysis Dat 6/190917 6/190917
	Custor Chaves Result 118 136 6	over sample ID: 17 Units mpl. mpl. mpl. mpl.	Test Akalmay Dilution	Reports 5 6	ng tinit	EPA 210.1 Analysis Das 6/18/29/7 6/18/20/7 6/18/20/7
Surface Liboratory sample ID: 170607-62 Parameter Abularly as CuCO3 Biostonius (PCO3) Carbonius (PCO3) Liboratory sample ID: 170607-62	Custor Chaves Result 118 136 6	units  out.  mgt.  mgt.  mgt.  mgt.  mgt.  mgt.  mgt.  mgt.  mgt.  mgt.	Test: Akaleny Ditution 1 1 1 Test: Checking	Reports 5 6 6	ng Sinit	EPA 210.1 Analysis Dates 6180917 6190917 6190917 Method 5M 10300
Substance  Laboratory sample for 170601-62  Parameter  Abalisty as Cu003 Biostonate (K000)  Catomate (K000)  Laboratory sample for	Custor Chaves Result 118 125 5	over sample ID: 17 Units mpl. mpl. mpl. mpl.	Test Akalmay Dilution	Reports 5 6	ng Sinit	EPA 310.1 Analysis Das anacer? anacer? anacer? Method

Laboratory sample ID:		ner sample ID:	Te	uit rathesa by calculat		Method: SW 22400
SIGO TOS mate	12.3 M3		- 1	0.06		
Percent difference	4.71	*	,			
Californ total	5.62	maqt	1			
Acriona total	5.76	margh.	•			
Thomas				Matric:	Water	
Contact: Dannis No	Quitan		- 1	Project:		
			- 1	Receive Date:	6/9/2017 6	100:00 AM
Customer: NMED			- 1	Order Number:	170607	

Customer: NNED			Recei		00:00 AM
Contact: Dennis Mc Phone:	Culton		Proje		
			Test		Mathod
Laboratory sample 10: 170607-03	Halimo	ner sample 10: on 9		onductance	EPA 120.1
Parameter	Result	Units	Dilution	Reporting timit	Analysis C
Specific Conductance	828	witten	,		6/11/29/2
Laboratory sample 10: 170607-03	Custor	ner sample ID: on 9	Yest: pld		Method: EPA 150.1
Parameter	Result	Units	Dillution	Reporting Smit	Analysis C
рм	N2	ph Units	- 1		6/19/301)
Laboratory sample IC:		ner sample IO:	Test		Method:
170607-03	Hallmo	on B	Cations In	ICPOES	EPA 300.7
Parameter	Result	Uwits	Dilution	Reporting limit	Analysis C
Catalon	17.6	mgt	,	0.06	6/16/30h3
iron	4.350	mgi.		640	6/16/30/3
Magnesium	1.58	mgit.		6.05	6/16/2012
Potentium	4.35	mg/L	1	6.05	6/16/2017
Sodum	153	mg/L	5	645 (645)	6/16/30/7
Strantium .	0.336	mg/L	1	6,0005	6/16/30/3
Laboratory sample ID: 170007-83	Custon	ner sample ID: on 9	Test: Trace Met	als by ICPUS	Method: EPA 200.8
Parameter	Result	Units	Dilution	Reporting limit	Analysis C
Municum	NO.	mgt.	•	0.0006	603000
Antimony 121	NO.	mg/L		0.0005	6030007
Americ	9700.0	mg/L	1	6,0005	663939°7
Batum	0.001	mgt.		0.001	603000)
Benjillum	NO	mgt.		0.0006	603000
Boron 11	0.676	mg/L		6.006	603000
Codmium 111	NO.	mg/L		0.0005	6/23/2002
Chronium	NO	mgt.		0.0006	603000
Cotook	NO.	mg/L		6,0006	603000
Copper 65	0.0009	mg/L		6,0005	6/23/2003
Lead	NO.	mgil.		6,0005	6/3/3003
Lithium	0.166	mg/L	5	6.001 (6.005)	6030017
IC-na detected at the report			we 19, 1017	To other used for recording	Page To

Customer: NMED				Number:	179607	
Contact Convints				we Date:	6/9/2017 9	00:00 AM
	Coulton		Proje			
Phone			Make		Water	
Manganese	69(7	mg/L		0.001		603000
Malybdanum 15	0.046	mg/L		0.001		4030017
Nighal	0.0010	mg/L		0.0006		603007
Sekerken	0.008	mg/L		0.001		603000
Silicon	9.07	mg/L	5	0.60	(8.1)	4030017
Silver 107	NO	mg/L		0.0005		9030917
Strontum	0.364	mgt.		0.001		60300n7
Trefum	ND	mpl.		0.0005		6030017
Treture	NO	mgs.		0.0005		9939997
Tie	NO	mgt.		0.0006		6030017
Titanium	0.001	mg/L		0.001		4030002
(Parkim	0.0068	mg/L		0.0005		603007
Yanadium	NO	mgt.		0.0005		60300n7
Zine 66	0.0000	mg/L		0.0005		6030007
Laboratory sample ID		ner sample IO:	Test			Method:
79087-03	Haffino	on 9	Arions by	10		EPA 300.0
	Hallmo	on 9 Units	Anions by Dilution	IG Reports	ng limit	EPA 300.0 Analysis Date
Parameter				_	ng limit	
Tarameter Bronkle	Essuli	Units	Dilution	Reports	ng limit	Analysis Date
Formitie Change	Result 0.46	Units mpl.	Dilution	Reports	ng limil	Analysis Date 6/13/2017
Parameter Bromite Chloride	Ecouli 0.46 65.7	Units mpl. mgt.	Differen	Espertis 0.1 1	ng livil	Analysis Date 6/13/3017 6/13/3017
Parameter Bronice Chloride Fluoride	0.46 66.7 0.81	mpt. mpt. mpt.	Dilution 1 1	0.1 1 0.1	ng tiret	Analysis Date 6/12/00/7 6/12/00/7 6/12/00/7
Parameter Bronkle CARNOS Fluorido Národo Národo	6.66 66.7 6.61 6.72	mpA mpA mpA mpA mpA mp NOM	Diffution  1  1  1	8 sports 6.1 1 0.1 6.1	ng lind	Analysis Date 6/13/36/7 6/13/36/7 6/13/36/7
Perameter Enmitte Chante Fluoride Nitrale Diffic Phosphale	0.46 66.7 0.81 0.72 0.28	mpA mpA mpA mpA mp NOSA mp NOSA	Dilution	0.1 0.1 0.1 0.1 0.1	ng timit	Bristypin Date 6/13/06/7 6/13/06/7 6/13/06/7 6/13/06/7
Farameter Stroniste Chante Fluoride Nitrate Nitrate Otho Phosphale Sulfane	Essali 0.46 95.7 0.81 6.72 6.28 NO 175	Units mpt	Collections  1  1  1  1  1  1  2	0.1 0.1 0.1 0.1 0.1 0.5		Analysis Cuts 6/12/017 6/12/017 6/12/017 6/12/017 6/12/017 6/12/017
Parameter formide Chandle Fluints Nation Offic Prosphate Sudies	Essali 0.46 96.7 0.81 6.72 6.28 ND 175	Units  mpt  mpt  mpt  mpt  mpt  mpt  mpt  m	Dibelion  1  1  1  1  1  1  2  Test	0.1 0.1 0.1 0.1 0.1 0.5		Analysis Date en10007 en10007 en10007 en10007 en10007 en10007 en10007
Parameter Broniste Chandle Fluinde Milita Diffix Phosphate Suites Advance Adva	Essuel  0.46  95.7  0.41  0.72  0.28  NO  175  Custor  Haffmo	Units mpt. mpt. mpt. mpt. mpt. mpt. mpt. mpt.	Dibelion  1  1  1  1  1  1  1  Akadesky	0.1 0.1 0.1 0.1 0.1 0.1	Ø	Analysis Date 4/1309/7 4/1309/7 4/1309/7 4/1309/7 4/1309/7 4/1309/7 4/1309/7 Method: EPA 250.1
Parameter Entrade Chande Plunde Nation Nation Nation University sample 10 170037-03	Essali 0.46 96.7 0.81 6.72 6.28 ND 175	Units  mpt  mpt  mpt  mpt  mpt  mpt  mpt  m	Dibelion  1  1  1  1  1  1  2  Test	0.1 0.1 0.1 0.1 0.1 0.5	Ø	Analysis Cuts 613007 613007 613007 613007 613007 613007 613007 Method: EPA 210.1
Parameter Entrade Chande Plunde Nation Nation Nation University sample 10 170037-03	Essuel  0.46  95.7  0.41  0.72  0.28  NO  175  Custor  Haffmo	Units mpt. mpt. mpt. mpt. mpt. mpt. mpt. mpt.	Dibelion  1  1  1  1  1  1  1  Akadesky	0.1 0.1 0.1 0.1 0.1 0.1	Ø	Analysis Cuts 613007 613007 613007 613007 613007 613007 613007 Method: EPA 210.1
Parameter Brande Chande Fluence Nation	Executi 0.46 96.7 0.81 0.72 0.28 NO 175 Custor Hulling	Units mpt	Dibution  1 1 1 1 1 1 2 Test: Abalinity Dibution	0.1 0.1 0.1 0.1 0.1 0.1	Ø	Analysis Date 413007 413007 413007 413007 413007 413007 413007 413007 Method: EPA 310.1 Analysis Date 413007 413007
Parameter Service Chantle Pointe Nitrole Nitro	Essuit  0.46  96.7  0.81  0.72  0.28  NO  175  Costor Halfma  Result  119	Units  mpl.  Units  mpl.	Dibdios  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Reports 0.1 0.1 0.1 0.1 0.1 0.5 1	Ø	Analysis Date 413097 913097 913097 413097 413097 413097 413097 413097 413097 413097 413097 413097 413097 413097 413097 413097 413097
Parameter Sometic Sometic Phonic Phonic Solve So	Result 0.46 66.7 0.81 6.72 6.28 NO 175 Custon Haffman Result 119 145 NO	Units  mpl mpl mpl mpl mpl mpl mpl mpl mpl mp	Dibdiss  1  1  1  1  1  1  2  Test: Ababity Dibdiss  1	Reports 0.1 0.1 0.1 0.1 0.5 1  Reports 5	Ø	Analysis Date 6/12/00/7 6/12/00/7 6/12/00/7 6/12/00/7 6/12/00/7 6/12/00/7 6/12/00/7 6/12/00/7 6/12/00/7 6/12/00/7 6/12/00/7 6/12/00/7
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Chands Fluidis Mines Mills Othe Phosphale Sulfer Su	Result 0.46 66.7 0.81 6.72 6.28 NO 175 Custon Haffman Result 119 145 NO	Units  mpt mpt mpt mpt mp NOW mpt	Dilution  1  1  1  1  2  Test: Alkalinky Dilution 1  1  Test:	Reports 0.1 0.1 0.1 0.1 0.5 1  Reports 5	(7) ng limit	Analysis Dale 612007 912007 912007 912007 912007 912007 912007 912007 912007 Method: EPA 250.1 Analysis Dale 912007 912007 912007 912007

Oustomer: NVED				Number: 170007	-00:00 AM
Contact: Dennis M	Cultion		Proje	et.	
Phone:			Matri		
Arrians total	734	megt.	7		
Cations total	7.76	magt.	1		
Percent difference (602)	19.4	not.	-	0.05	
TDS-calc	512	mpt.	-	4.00	
Laboratory sample ID:	Custo	ner sample ID:	Test		Method
170107-03	Hallmo	on P		by calculation	SM 2340
Parameter	Result	Units	Dilution	Reporting Smit	Analysis
Hardress	58.5	mg CaCOIV L	1		

### Sample 4

Customer: NMED				Number: 179001	
Contact: Dennis N			Projec		H00:00 AM
Phone:	1000		Mari		
Phone:			Matri	C Water	
Laboratory sample E	: Custor	mer sample ID:	Test		Method:
170007-04	KNaka	4	Specific C	onductance	EPA 120.1
Parameter	Result	Units	Dilution	Reporting limit	Analysis Da
Specific Conductance	485	uthim	•		6H109H7
Laboratory sample IC		ner sample ID:	Test		Method:
170607-04	Khatsa	4	pH		EPA 150.1
Parameter	Result	Units	Ottution	Reporting timit	Analysis Da
pH	6.3	ph Units	1		6193917
Laboratory sample K	: Custor	mer sample IO:	Tests		Method:
170807-04	KNaba	4	Cations by	ICPOES	EPA 200.7
Parameter	Result	Units	Dilution	Reporting timit	Analysis Da
Calkium	7.91	mgt.	,	0.06	6/13/2017
iron	NO.	mgd.		8.60	6/13/30/17
Magnesium	0.474	mgd.		4.06	6/13/2017
Potentian	5.75	mg/L	1	8.05	6/13/2017
Sodum	91.4	mgt.	1	0.06	6/13/2017
Streetum	0.164	mgA.	1	0.0005	6/13/2017
Laboratory sample K	Custor	mer sample IO:	Test		Method
170007-84	Khaba	4	Trace Met	ah by ICPNS	EPA 200.8
Parameter	Result	Units	Ollution	Reporting limit	Analysis Da
Aluminum	6.00(T	mgA.	1	0.0005	6030007
Antimony 121	MB	mgA.	4	8.0005	603097
Arsurio	0.0104	mgt.	1	0.0006	6G3G907
Barkett	0.005	mgA.	1	6.001	6030007
Berykken	NO.	mgA.	1	0.0005	6030007
Boron 11	0.148	mgA.	10	8.005 (8.05)	66393917
Cedrium 111	NO	mgA.	1	0.0005	60309n7
Chromium	NO	mg/L	,	0.0005	6030007
Cohell	ND	mgA.	1	0.0005	6030917
Copper 65	8.0050	mgA.	1	0.0005	6030917
Lead	0.0033	mgt.	1	0.0006	603000
	0.073	mat.	1	0.001	6030007
Littium					

Customer: NASCO Contact: Dennis No Phone:	Outlan			ot	1-00-00 AM
Margarese	NO:	mgA		0.801	60300/7
kinipholenum 95	6413	mgé.		6.801	603007
Nobel	NO	mgA.	1	0.0005	6030917
Belonium	0.001	mgt.		0.301	6030017
Shop	25.5	mgt.	10	0 m (0.1)	6030017
Silver 107	NO	mg/L		0.3006	603007
Sironium .	0.172	mgA.		0.001	6030017
Treffen	NO	mgA.	1	0.8005	6030917
Thorum	NO	mgt.		0.3006	6030917
Tim	NO	mgt.		0.3006	6030917
Tierium	0.000	mgA		0.001	6030017
Uranium	0.0514	mgA.		0.0005	6030017
Vanedum	0.0110	mgA.	1	0.0005	603097
Zinc 98	0.2155	mgt.		0.3006	6030917
Parameter	Result	Units	Anions by Dilution	Reporting Smit	EPA 300.0 Analysis Date
Bonide	8.15	mgA.		8.1	64309FF
CHININ	18.2	mgt.		1	6120917
Fluorida	2.34	mgt.		0.1	6120017
Nitrale	NO	mg NO96.		0.1	6130017
Ninke	NO	mg NOOK		0.1	6/13/06/2
Othe Phosphale	NO	mgA.		8.5	6430947
SURVIN	61.1	mgt.		1	6/12/2017
aboratory sample to:	Cueno	ner sample IC:	Yest:		Method:
79607-04	Khaka	4	Alkaliney		EPA 310.1
Parameter	Result	Units	Dilution	Reporting limit	Analysis Date
Albahrity as CaCOS	145	mgA.	1	5	6190917
Dicetorale (1001)	171	mgA	1	5	6190917
Carteriate (COI)	NO	mg/L			6190917
Laboratory sample ID:		mer sample ID:	Testi		Method:
170607-04	Khaba	4	Checking	correctness	SM 1030E
	Result	Units	Dilution	Reporting timit	Analysis Date

Customer: NAED			Over 1	PURDUT.	170607	
			Receive	Date:	6/9/2017	9190100 AM
Contact: Dennis M	nattuco		Project			
Phone			Matric		Water	
Aniona total	4.80	magh.	-			
Calinna total	4.56	medi	1			
Persons difference	2.82	*	1			
802	54.6	mg/L	1	0.06		
T06-calc	301	mpt.				
alteratory sample ID	Contine	ner sample ID	Test			Method
179907-04	Phelse	•	Hardness b	calculat	on	SM 23400
Parameter	Result	Units	Dilution	Report	ing Smit	Analysis Date
Hardress	24.7	mg-CuCON/L				

## Sample 6

Customer: NMED Contact: Durvis No Phone:	Outlin			rt.	100:00 AM
Laboratory sample ID:		mer sample ID:	Test		Method
170607-05	Kirsha	16	Specific C	onductance	EPA 130.1
Parameter	Result	Units	Dilution	Reporting Smith	Analysis Da
Specific Conductance	372	ušám	1		6/11/09/7
Laboratory sample IO: 179607-05	Custo	mer sample ID: 1 G	Test: pH		Method: EPA 190.1
Parameter	Result	Units	Dilution	Reporting Smit	Analysis Da
PF.	7.8	pa Units	1		6190917
Laboratory sample IO:	Custo	mer sample IC:	Test		Mehod
170607-05	Kinsha		Cations by	ICPOES	EPA 200.7
Parameter	Result	Units	Dilution	Reporting Smit	Analysis Dr
California	21.1	mgt.		0.06	61/20017
Pan	0.258	mgt.		6.00	6130917
Magnesium	2.62	mgt.		0.06	6100917
Polassium	6.16	mgA.		6.06	6130917
Sodum	63.7	mgA.		0.06	4nacer7
Streetun	8.397	mg/L	1	0.0005	6nacen7
Laboratory sample ID:	Custo	mer sample ID:	Test		Walted
170607-05	Ninhe	16	Trace Met	als by KPN/S	EPA 200.6
Parameter	Result	Units	Dillution	Reporting Smit	Analysis Da
Aluminum	64017	mgA.		0.0006	6030817
Antimony 121	NO	mgA.		0.0005	6030817
Americ	0.0059	mgA.	1	0.0005	6030917
Batum	0.010	mgt.		0.001	6030917
Burytium	NO	mgt.		0.0005	6030917
Boron 11	0.106	mgt.		0.005 (0.005)	6030917
Cadmium 111	NO	mgd.		6.0006	6030817
Oversion	6,0005	mg/L	1	6.0005	6030917
Cotel	NO	mg/L		0.0005	6030917
Copper 66	0.0014	mgt.		0.0006	6030917
Lead	NO	mgt.		0.0005	6030917
Limium	0.002	mgt.		6.001	6030917
NO- not detected at the report			lute 28, 2017	To rate and to marks	Page 13 of

Customer: NMED				Mumber: Ive Sum:	170007 6/900917 1	190:99 AM
Contact: Donnis Mo	Outlan		Proje	48		
Phone:			Matri	e e	Water	
Manganese	0.009	mg/L	1	6.001		6530917
Malybdanum 95	0.001	mpl.	1	0.001		6030917
Nighal	NO.	mg/L		0.0005		6030007
Sekelen	MO.	mpl.		6.001		6030007
Silicon	16.2	mg/L	5	6.02	(6.1)	66393917
58wi 107	MD	mg/L	1	0.0005		6030917
Strontum	0.416	mgt.		0.001		6030007
Traffirm	NO.	mgi.		0.0005		6030007
Therium	MD	mg/L		0.0005		6030917
Tie	MD	mg/L	1	6,0005		6030017
Transum	0.001	mgt.		G001		6030307
Charles.	0.0146	mgt.		0.0006		6030007
Vanadium	0.00010	mgit.		6,0005		6030007
Zinc 66	0.0114	mg/L	1	6,0005		6030017
Laboratory sample IS:	Guanne	ner sample 10:	Test			Method:
170007-05	Kirshar		Anions by	100		EPA 300.0
Parameter	Result	Units	Dilution			Analysis Date
	NO.	not	Unition	Reports	ng mine	Analysis Date
Chindu	5.85	mgt.	1	1		6/12/2017
Charice	1,67	mgt.		91		611203017 611203017
Chipride Florride Nitrate	5.85 1.87 0.12	mgit. mgit. mg NOM.	1	61		6120017 6120017 6120017
Branida CHIANDA Fluorida Nitrata Nitrida	5.85 1.67 0.12 MD	mgit. mgi NOSE. mgi NOSE.		61		61/20017 61/20017 61/20017 61/20017
Chloride Fluoride Nitrate Nitride Outro Phosphate	6.85 1.87 6.12 MD	mgt. mg NOM. mg NOM. mg NOM.		01 01 01		61/30017 61/30017 61/30017 61/30017 61/30017
Charles Facricie Nitrate Nitrite	5.85 1.67 0.12 MD	mgit. mgi NOSE. mgi NOSE.		61		61/20017 61/20017 61/20017 61/20017
Chiprigo Fluoride Nitrate Nitrite Otto Phosphale Sulfate	5.85 1.87 0.12 MD MD 19.5	mgt. mg NOM. mg NOM. mg NOM.		01 01 01		61/30017 61/30017 61/30017 61/30017 61/30017
Chands Fluoride Nitrate Nitrate Nitrate Outloo Phosphale Sulfate Laboratory sample ID:	5.85 1.87 0.12 MD MD 19.5	mgit, mgit HOSE mgi HOSE mgit, mgit, mgit Hose sample IO:		01 01 01		6/12/2017 6/12/2017 6/12/2017 6/12/2017 6/12/2017
Chloride Fluoride Nitrate Nitrate Ortho Phosphate Sulface Laboratory sample ID: 170607-05	5.85 1.67 0.12 MD MD 19.5	mgit, mgit HOSE mgi HOSE mgit, mgit, mgit Hose sample IO:	Test	01 01 01		612097 612097 612097 612097 612097 612097
Chloride Fluoride Nitrate Nitrate Ortho Phosphate Sulface Laboratory sample ID: 170607-05	5.85 1.87 6.12 MD MD 19.5 Constant Kinshan	mgit. mgi NOSK. mg NOSK. mgit. mgit. mgit.	Test Abulady	01 01 01 01 05	ng Soid	613097 613097 613097 613097 613097 613097 Method EPA 310.1
Chands Flunds Nature Nation Nation Other Prosphale Solden Laboratory sample ID. 170607-05 Parameter	S.85 1.87 0.12 MD MD 19.5 Coston Kinshar	mgit. mgi 14034. mgi 14034. mgit. mgit. mgit. mgit. mgit. mgit. mgit. mgit.	Test: Ababily	Reports	ng Srek	613097 613097 613097 613097 613097 613097 Method: EPA 310.1 Analysis Date
Ottobio Florido Nilote Nilote Nilote Otto Phophala Softe Laloratory sample ID. 170007-05 Parameter Natirity as CaCOS Southerate (#COS)	S.85 1.87 0.12 MD MD 19.5 Costor Kinshar Result	mgt. mgt 1000t. mg 1000t. mgt. mgt. mgt. Units	Test: Abdeling	Separti	ng Said	613097 613097 613097 613097 613097 613097 613097 613097 613097
Chloride Fluoride Niche Niche Niche Niche Schler Liberatory sample ID. Trocon-do Persmicher Analety as Cucios Scienterate (ACOS) Scienterate (ACOS)	5.85 1.87 6.12 MD MD 19.5 Contine Kinsher Result 165 261 MD	mgit, mgi NOSE, mgi NOSE, mgit, mgit, mgit, to t	Test: Abdedy Dilution	Reports	ng Sad	612097 612097 612097 612097 612097 612097 612097 612097 612097 612097 612097
Chloride Flooride Nation Nation Nation Nation Outhe Phosphale Solide Laborationy sample ID: Troscovide Parameter Advalridy as CuCO3 Sectionals (ECO) Carbonials (ECO) Laborationy sample ID: Laborationy sample ID:	5.85 1.87 6.12 MD MD 19.5 Contine Kinsher Result 165 261 MD	mgit, mgi ki 100 ki, mgi ki 100 ki, mgit,	Test Ababay Dibrion	Reports	ng limit	612097 612097 612097 612097 612097 612097 612097 612097 619007 619097 619097
Chinds Fluoride Nation Nation Nation Othe Phosphale Sulfane Laboratory sample ID: 170007-05 Parameter Anatority as CoCO1 Society as CoCO1 Society as CoCO1	5.85 1.87 0.12 MD MD 18.5 Contor Kinsher Result 165 201 MD Gustor	mgit, mgi ki 100 ki, mgi ki 100 ki, mgit,	Test Ababay Dibrion	Reports		612097 612097 612097 612097 612097 612097 612097 612097 614097 614097 614097 614097

Customer: NMED  Contact: Device No Phone:	Outhor		Re Pro	oject:	9667 93917 9:00:00 AM
Arriors total	3.34	may.			
Cultura total	3.74	mugt.	1		
Percent difference	-2.96	*			
502	21.9	mgA.	1	6.05	
TDS calc	250	mgA.	1		
Laboratory sample ID: 170607-05	Custor	ner sample ID: 1 6	Test: Hardre	ns by calculation	Mathod: SM 23408
Parameter	Result	Units	Dilution	Reporting I	imit Analysis Dal
Hardress	63.5	my Cuccors.	-		

NO- not detected at the reporting that Thursday, July 25, 2017 Page 15 of 25.
The value is prescribence in reporting that multiplied by the distribution and about the the value used for reporting purposes.

Phone	Cultur		Prote		1:00:00 AM
			Mana		
Laboratory sample ID	Custor	ner sample 10:	Test		Method:
170607-06	Meyers	11	Specific C	onductance	EPA 130.1
Parameter	Result	Challes	Dillution	Reporting limit	Analysis Da
Specific Conductance	492	utilan	1		6010917
Laboratory sample ID	Custor	ner sample ID:	Test		Walhed
170607-06	Meyers	**	gHI		EPA 190.1
Parameter	Result	Units	Dilution	Reporting Smit	Analysis Da
-	8.0	ph Units			6190917
Laboratory sample ID	Custon	ner sample ID:	Test		Mathed
170607-06	Meyers	11	Cations by	ICPOES	EPA 200.7
Parameter	Result	Units	Dilution	Reporting Smit	Analysis De
Calcium	2.66	mg/L		6.06	60309K7
ten.	NO	mpt.		440	6030917
Magnesium	6.000	mgA.		6.06	6030917
Policerium	3.51	mgd.	1	6.05	6030917
Soden	111	mgA.	5	6.05 (6.25)	6030917
Streetum	6467	mg/L		6.0006	6nacer7
Laboratory sample ID	Custor	ner sample IO:	Test		Method
170607-06	Mayers	61	Trace Med	als by ICPNS	EPA 200.8
Parameter	Result	Units	Dillution	Reporting limit	Analysis Da
Aluminum	6.0023	mgil.	1	6.0005	4070917
Antimony 121	ND	mg6.	1	6.0005	6070917
Armeniq	64210	mg/L		0.0006	6070917
Barken	6816	mg/L		6.001	6070917
Beryllium	NO	mgA.		0.0006	6070917
Boron 11	6.133	mgA.	10	0.000 (0.00)	6070917
Cadrium 111	ND	mg/L	1	6.0005	6070917
Chronium	NO	mgt.		0.0006	6070917
Cotook	NO:	mg/L		0.0006	6070917
Copper 66	NO	mgA.		0.0006	6070917
Lead	NO	mgA.		0.0006	6070917
Lithium	6.079	mgA.		6.001	6070917

Oustomer NAED			Over	Number: 170007	
			Recei	Ne Date: 6/9/2017	9:00:00 AM
Contact: Dannis Mc	Culton		Projec	ot.	
Phone			Matri	c Water	
Margarese	8.860	mgA.	-	8.001	4030917
Meldenun 95	0.819	mark.	1	0.001	6070917
Nighal	NO	mgs.	1	0.0006	6070917
Sekelen	0.801	mgA.	1	0.001	6030907
Silicon	28.4	mgA.	10	4.60 (0.7)	6070917
Skur 167	MB.	mgA.	1	8.0005	4030917
Streeture	0.856	mark.	1	0.001	6070917
Datum	MD	mgt.	1	0.0006	6070917
Design	NO.	mgA.	1	0.0005	6070917
Tie	NO.	mgA.	1	0.0005	6070907
Titarium	0.800	mgA.	1	0.001	6070917
Darium	0.0006	mah	1	0.0005	6070917
Vanadium	MD	mgt.	1	0.0006	6070917
Zinc 66	0.0156	mod.		0.0005	407/08/T
Laboratory sample ID:		ner sample ID:	Test		Method:
170607406	Meyers	11	Anions by	IC .	EPA 300.0
Parameter	Result	Units	Dilution	Reporting limit	Analysis Date
Bromite	0.17	mg/L	1	0.1	6/13/2017
Chienkin	19.5	mgA.	1		6/13/2017
Fluoride	1.46	mgA.		4.1	6/13/2017
Nitrale	0.11	mg MO36	1	0.1	6130917
Nikke	NO.	my MODE.	1	0.1	6/13/2017
Othe Phosphate	MD	mpt.	1	0.6	6/130917
Solitate	53.4	mgA.			6/(3/2017)
Laboratory sample ID:	Combine	ner sample ID:	Test		Method
170607-06	Mesers		Ababab		EPA 212.1
Parameter	Result	Units	Dilution	Reporting limit	Analysis Date
Amuniny as Cuccos	166	mgt.	1	6	6192917
Biostorute (4COS)	173	mgt.	1	6	6100017
Carbonalis (000)	14	-ngA	•	5	6160917
	Custo	ner sample ID:	Test		Mathee
aboratory sample ID:	Meyers		Checking	correctness	SM 1000E
				Access to the second	Analysis Date
Laboratory sample III: 170607-06 Parameter	Result	Units	Dilution	Reporting limit	
170607-06	Result	-	Dilution	Reporting time	Print 17 of 20

Parameter	T26	mp CaCOVA	Dilution	Report	ing Smill	Analysis Da
Laboratory sample ID: 170507-05	Mayers			by calculate		Method: SM 23400
TDS-exic	364	mgA.	1			
8402	60.8	mgA.	1	0.06		
Persons difference	0.26	*	1			
Cations boar	5.87	medic	1			
Aniona total	6.86	magh.	4			
Phone			Matri	ĸ	Water	
Contact: Dennis No	COURTON		Proje	48		
				Ne Date:	6900171	100:00 AM
Dustomer: NAED				Number:	170607	

C-rost detailed at the recording limit. Therefore, June 18, 2017. Page 18 of 39 in order to parentheses in reporting limit mulgillar by the obtains factor and attack to the value used for reporting purposes.

## Sample 3

Customer: NMED Contact: Dennis No Phone:	Outlan			E.	1:00:00 AM
Laboratory sample IO:		ner sample IC:	Test		Method:
170601-07	Mantey	a Residence 3	Specific C	industance	EPA 120.1
Parameter	Result	Units	DRUSOR	Reporting timit	Analysis Da
Specific Conductance	487	<b>vSion</b>	1		6110917
Laboratory sample ID: 170601-07		ner sample ID: a Residence 3	Test: pH		Method: EPA 190.1
Parameter	Result	Units	DRUSOR	Reporting timit	Analysis Da
piti	8.4	ph Units	1		6190917
Laboratory sample IO: 170107-07		ner sample ID: a Residence 3	Test: Cations by	EPOES	Method: EPA 200.7
Parameter	Result	Units	Diffution	Reporting Smill	Analysis Da
Calcium	8.52	mgA.	1	0.85	6/13/2017
lean .	NO	ngl.	1	6.62	6/13/2017
Magnesium	0.004	mpt.		9.05	97303977
Proseium	626	mgt.		0.06	6/13/2017
Sodun	95.6	mgt.		0.26	9730917
Storiun	0.164	ngL	1	0.8005	6130917
Laboratory sample ID:	Custon	w sample ID:	Test		Matheway
179607-07	Montoy	Residence 3	Trace Net	als by ICPMS	EPA 200.8
Parameter	Result	Units	Dilution	Reporting limit	Analysis Da
Aluminum	0.0600	mple		0.0006	603007
Antimony 121	NO	mgd.		0.0005	60306/7
Americ	0.0115	mgA.	1	0.8005	6030917
Batun	0.236	mgt.		0.301	6030017
Burytturn	NO	mgt.		0.3006	6030017
Boron III	0.126	mgt	10	0.006 (0.06)	6030017
Cadmium 111	NO.	mg/.		0.0006	603007
Oversion	0.0006	mgA	1	0.8005	6030917
Cotour	NO	mgt.		0.3006	6030017
Copper 65	0.0622	mgt.		0.3006	6030017
Load	0.0048	mg/L		0.0006	6090017
( ihiye	6.076	mpt.		6.901	603007
10 - no descript or the report			Mar 20, 2017	the value used for reporting	Page 19-of

Contact: Connis No	Outlan		Rece	eti	0917 9:00:00 AM
Phone			Market		
Manganese	0.000	mgd.		0.001	6030917
Malyholenum 95	6819	mgA.		6.001	6030917
Nichal	0.0003	mgit.		0.0006	6030917
Selection	0.014	mgt.	1	0.001	6030917
Sificon	26.2	mgt.	10	600 603	
Short 107	HO	mgA		6.0006	60309/7
Strontum	6,162	mgA.		6.001	6030917
Treflett	ND	mgd.	1	0.0005	6030917
Therium	NO	mg/L	1	0.0005	9030817
Tin	NO	mgt.	,	0.0006	6030817
Terrum	0.004	mgt.		0.001	6030917
Ghanium.	0.0494	mg/L	,	0.0006	6030917
Vanedium	6.0136	mg/L		6.0005	6030917
Ziruc 66	6.0100	mgd.	1	0.0005	6030917
Laboratory sample IO: 179607-67		ner sample ID: e Residence 3	Test: Anions by	16	Mathod: EPA 300.0
Parameter	Result	Units	Dilution	Reporting Is	mili Analysis Date
Bramide	6.26	mg/L		41	6130917
Chierida	22.5	mg/L	1	1	6/13/2017
Fluorida	1.80	mg/L	1	6.1	6/13/2017
Nitrate	148	mg NOSS.	1	6.1	9190917
Nitrito	NO	Mg NOOK		6.1	61/30917
Otto Phosphate	ND	mgt.		0.5	6130917
Sulfate	67.6	mgA.			613091P
	-				
Laboratory sample IO:		mer sample IO:	Test		Method
170607-87	Mortey	pa Rasidence 3	Ababity		EPA 310.1
Parameter	Result	Units	Dilution	Reporting Is	mit Analysis Date
Alkalining as Calcool	137	mgt.	•	6	6190917
Bicarborate (PCOS)	160	mgt.	1	5	6190917
Carbonate (008)	ND	mgA.		6	6160917
aboratory sample ID	Control	mer samole ID	Test		Method
Laboratory sample ICI: 170607-07		a Residence 3			SM 1830E
				correctness	
Parameter	Result	Units	Dilution	Reporting Is	mit Analysis Date

Contact: NAED  Contact: Dennis No Phone:	Oulton			et		1100:00 AM
Aniona total	4.98	magh.				
Caliona total	4.74	megi	1			
Persent difference	1.00	*				
802	60.3	mg/L		0.06		
TOS-cuito	348	mgA.				
Laboratory sample ID: 170007-07		ner sample ID: e Residence 3	Test: Hardress	by calculatio	an .	Method: SM 23400
Parameter		Units		Reporte	ng limit	Analysis Date
Hardress	29.8	mg Cuccons.				

## Sample 5

Customer: NNED  Contact: Dennis Mo Phone:			Racel Projec Matrix	ex	9 00:00 AM
Laboratory sample ID: 170607-08	Custo	mer sample IC:	Yest:	ontuctance	Method: EPA 120.1
Parameter	Result	Units	Dilution		
Specific Conductance	476	vilden	1	Reporting limit	Analysis D
Laboratory sample ID: 170007-08	Custos	mer sample ID: o 5	Test: per		Method: EPA 190.1
Parameter	Result	Units	Deution	Reporting limit	Analysis D
phi	6.3	ph Units	1		6/10/2017
Laboratory sample ID: 170007-08	Gustor Pintadi	mer sample ID: o S	Test: Callons by	y IOPOES	Method: EPA 200.7
Parameter	Bessit	Units	Dilution	Reporting Entit	Analysis D
Cakkium	7.80	mgil.	1	0.06	6/13/2017
TOO	MD	mgt.	1	9.00	501303017
Magnesium	9,487	mgt.		0.06	6/13/2017
Petralium	6.71	mgt.	1	0.06	6/13/2017
Sodum	91.3	mgA.		0.06	6/13/2017
Strontum	0.162	mg/L	1	0.0005	6130917
Laboratory sample ID:	Custo	ner sample ID:	Test		Method
170607-08	Pintadi	9.5	Trace tites	US by ICPMS	EPA 200.8
Parameter	Result	Units	Dilution	Reporting limit	Analysis D
Alluminum	0.0005	mgil.		0.0005	6030917
Antimony 121	MD	mgil.	1	0.0005	6030917
Americ	0.0103	mgt.		0.0006	6030917
Barton	0.006	mgd.		0.001	6030917
Bergitism	NO.	mgA.		0.0005	6030917
Boson 11	8.149	mgA.	16	8.865 (8.86)	6090817
Cedmium 111	ND	mg/L	1	0.0005	6030917
Chromium	ю	mgil.		0.0006	6030617
Codedi	MO.	mgd.		0.0005	603007
	0.0009	mgit.		0.0005	6030017
Copper 65		mad.		0.0005	6030917
Lead	ND				M090917
	8.072	red.	1	0.001	9630917

Sontact: Dennis Mc	Outlan			et:	017 9:00:00 AM
Management	10	mod.		6001	600007
Malpholanum 95	0.013	mg/.		6001	603007
Nichal	NO	mas.	-	0.0006	603007
Sebesian	0.001	mat.		0.001	603007
Silver	24.6	mod.	10	640 (6.2)	603007
Short 107	MO.	mod.		6,0005	603007
Strantium	0.173	mañ		6.001	603097
Dutum	NO	mgs.		0.0006	60300n7
Therium	NO.	mgA.		0.0005	609007
Tin	MO.	mgA.	1	6.0005	609007
Titerium	0.000	mail		6.001	6030017
Uwan.	0.0511	mat	1	6.0005	6030017
Vanadken	0.0110	mgA.		6.0005	6030002
Zine 66	0.0004	mgil.		0.0005	6030007
Laboratory sample IO:		ner sample IO:	Test		Method
170107-08	Pintado	5	Aniona by	10	EPA 300.0
Parameter	Result	Units	Dilution	Reporting lim	it Analysis Date
Bromide	0.16	mgA.		61	6/13/30/2
Chloride	18.5	mg/L		1	6/13/00/7
Fluorida	2.31	mgt.	1	6.1	6/13/2017
Nitralia	NO	mg NOSE.	1	6.1	6/13/30h7
Niche	NO.	mg NO36.		61	6/13/30/17
Orito Phosphate	MO.	mg/L		65	6/13/30/17
SURIN	61.1	mgt.	1	1	6/13/2017
Laboratory sample IC:	Contro	ner sample 10:	Test		Method:
170607-08	Pintado		Alkalinity		EPA 310.1
	Result	Units	Dilution	Reporting tim	
Parameter		mad.	1	5	6/19/2017
Parameter Abability as CuCO3	146				6/10/2017
Parameter Abularly as Ca003 Bicatorum (HC00)	121	mgt	1		
Parameter Ababity as CaCOS Bicartonate (PCCOS)			1	i	6190017
Parameter Abulinity as CuCO3 Bioartenute (PCO3) Cartonute (CO3)	121 NO	mgt. mgt.	-	i	
Parameter Ababity as CaCOS Bicartonate (PCCOS)	121 NO	mgA mgA ner sample ID:	Test	correctness	Method: SA 1030E

	Woulden		Racel		170607 6/8/2017 S	100:00 AM
Phone:			Matri	KC .	Water	
Aniona total	4.85	megt.	1			
Colore total	4.55	megt.	1			
Percent difference	-3.00					
8402	52.6	mgd.		0.06		
TDS-cuic	329	mgit.	1			
Laboratory sample 1 170107-08	D: Gustor Pritado	ner sample ID: 15	Test: Hardness	by calculate	on	Method: SN/23408
Parameter	Bessit	Units	Bilution	Baparti	ing Smill	Analysis Date
	21.6	my Caddoors.				
		,				

Gustomer: NMED				Number: 170607 ve Date: 6/9/20171	MA 00:00X
Contact: Decrin	Worlden		Proje		100.00 /00
Phone:			March		
Phone:			Matri	C Water	
Laboratory sample	ID: Custor	mer sample ID:	Test:		Method:
170607-09	Romen	o 10	Specific C	ondudance	EPA 129.1
Parameter	Result	Units	Dilution	Reporting limit	Analysis
Specific Conductorios	877	ulkim	1		WHITE
Laboratory sample	ID: Custon	mer sample ID:	Test		Method:
170607-09	Romer	0 10	piri		EPA 150.
Parameter	Bessit	Units	Dilution	Reporting Smit	Analysis
per	8,4	ph (hits	1		Wildder
Laboratory sample	ID: Custon	mer sample ID:	Test		Method
170607409	Romer	e 10	Cations by	ICPORS	EPA 200.1
Parameter	Result	Units	Dilution	Reporting limit	Analysis
Calcium	14.0	mg/L		0.06	MISSE
No.	8.608	mgA.		0.00	AN SOR
Magnesium	0.567	mg/L	1	0.05	9/13/2011
Potentiero	2.72	mgt.	1	9.85	90130381
Sodium	167	mgt.	6	0.06 (0.26)	6/13/201
Stranium	9.345	mgd.		0.0005	6/13/201
Laboratory sample	D: Custo	mer sample ID:	Test		Method
170607-09	Romer	o 10	Trace Met	waity ICPMS	EPA 200.
Parameter	Result	Units	Dilution	Reporting limit	Analysis
Aluminum	0.0021	mgt.	1	0.0006	603/001
Antimony 121	MD	mgA.		0.0005	603/06/
Arberio	0.0132	mg/L	1	0.0005	603091
Batun	9.007	mgt.		0.001	603/001
Benflum	NO	mgt.		0.0006	603/201
Boron 11	0.061	mgd.		0.006	603/201
Codmium IIII	MD	mgA.		0.0005	603/201
Chenium	MD	mgit.		0.0006	603000
	NO	mgit.		0.0006	603/201
Cotolit		mark.		0.0006	603001
Copper 66	0.0000				
	NO AU	=		0.0005	403000 403000

Gustomer: NMED Contact: Dennis Mr	Odle				H00.00 AM
Phone:			Mann		
Manganese	ND	ngt.	1	0.001	6030917
MARAGINUM 05	0.003	mgt.	1	0.301	6030917
Nichel	ND	mgil.		0.8005	6630917
Selection	0.001	mgit.	1	0.901	6030917
Stricon	8.45	mgt.	6	0.02 (0.1)	6030917
Silver 107	ND	mgt.	1	0.3006	6030917
Services	0.348	mg/L		0.001	6030907
Delian	NO	mgit.		0.8005	6030917
Thesus	ND	mgt.		0.3006	6030917
Ties	NO	mgit		0.3006	6030917
Transum	0.001	mgil.		0.004	60309KT
(Parkm	NO.	mgil.		0.8005	6030917
Vanadum	NO	mgt.		0.3006	6030917
2016 96	0.0007	mgt.		0.3006	6030917
Laboratory sample ID:		mer sample ID:	Test		Methodi
LIDOUTANA SAMPLE NO.	Romer		Animes by		EPA 300.0
Parameter	Result	UNITS	DRUSSA	Reporting limit	Analysis Date
Bromite	0.34	mgt.		0.1	6/13/2017
Chlorida		mgil.			6130917
Fluoride	8.56 MD	mgil.	1	0.1	6/10/2017
Nitrate		ing NOSIL			6/13/2917
NRRe	MD	mg NOOL		9.1	6130917
Othe Phosphate	MD	mgt.	1	0.5	6/13/2017
Sulfate	242	mg/L	5	1 (5)	6/13/2017
Laboratory sample ID:	Gustor	ner sample ID:	Test		Method:
170007-00	Romen	0 10	Abaloty		EPA 319.1
Parameter	Result	Units	Dâytion	Reporting Smit	Analysis Date
Albumbaly on CuCOS	101	mgit.	1	6	6190917
Boarbornete (19000)	116	mail.	1	5	6190917
Carterum (COX)	NO	mgt.			6/19/29/17
Laboratory sample IO:		mer sample IO:	Test		Mathed
170607-09	Romen	e 13	Checking	coneciness	SM 1030E
Parameter	Result	Units	Dilution	Reporting limit	Analysis Date
N) - na denotal a fin spe Tra otto it parattessa a re			lane (M, 2017		Page 16 of 30

Contace: NAED  Contace: Dennis to Phone:				4	H00:00 AM
Antone total Carloma total	A.16 A.16	mary).			
Pursuit difference	623	marpl.			
802	18.1	mgt.		9.06	
TOS curs	547	mgt.	1		
Laboratory sample 10 170607-09	Custor Romen	ner sample IO: o 10	Test: Hardness	by calculation	Muthod: SM 23408
Parameter	Result	Units	Dilution	Reporting Smit	Analysis Date

## Sample 13

Parents	м		der Number: seine Date: oject: siris	Rece		:Oullan	Gustomer: NMED Gentlact: Dennis Mc Phone:
Specific Continues   10	120.1		e Conductions				
Marchine   Property   December   Property   December   December	lysis Dat	orting limit A	Report	Dilution	Units	Result	Parameter
1000m1   1000m2   1	100017			1	witten	494	Specific Conductance
20	hed: 150.1						
Marchine   March   M	lysis Dati	orting limit A	Report	Dilution	Units	Result	Parameter
100pc11	93917			1	ph Units	8.2	pH
Calcium   7.51	hed: 200.7		s by ICPOES				
No.	lynin Dat	orting limit A	Report	Dilution	Units	Result	Parameter
Marcelon   1,000   1	313917		0.06	-	mgt.	7.63	Catalum
File	3000		9.60		mg/L	NO.	iron
State	3090				mg/L	0.570	Magnesium
Section   Sect	20917	5	0.05	1	mg/L	4.94	Potessium
Columbia   Columbia	200017						
Trigon   T	309/7	105	0.000	- 1	mg/L	0.140	Stronium
Advances   Advances	hod: 200.8		Metalls by ICP				
Advancey 11         ND         mpX         1         8,8865         457           News         0.01%         mpX         1         0.0006         401           Ratur         0.817         mpX         1         0.000         401           Research         ND         mpX         1         0.000         602         602           Research         ND         mpX         1         0.000         602         602         602           Contenters         ND         mpX         1         0.000         602	lysis Dat			Dilution			
Answers         6.3 TM         mgd.         1         0.0006         80.7           Resulan         8.207         mgd.         1         0.0005         60.7           Resulan         10.20         mgd.         1         0.0005         60.00         60.00           Resulan         10.27         mgd.         1         0.0006         60.00         60.00           Resulan         10.27         mgd.         1         0.0006         60.00         60.00           Chiefall         10.2         mgd.         1         0.0006         60.00         60.00           Chiefall         10.2         mgd.         1         0.0006         60.00         60.00	WORK?						
Salum         A-B3T         mp4         1         6,961         401-18           Berliffer         NO         mp4         1         6,065         60,056 <td>90917</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	90917						
Baryllium         ND         mpl.         1         0.0005         663           Bress H         0.147         mpl.         6         0.000         6620         662           Combiner HI         NO         mpl.         1         0.0006         662         662           Constain         NO         mpl.         1         0.0006         662         662           Collabil         NO         mpl.         1         0.0006         662         662	WORKT						
Bonn-11	SWIN						
Codmissor         111         NO         mg/L         1         0.0006         403           Chossissor         ND         mg/L         1         0.0005         603           Collaber         ND         mg/L         1         0.0005         603	30917						
Chromison         ND         mpl.         1         0.0005         603           Column         ND         mpl.         1         0.0005         603							
Colum NO mgs. 1 0,0006 603							
	30017			-		ND 0.0040	
	190917 190917				mg/L		Copper 66
	93917						
Lifean 6372 mg/L 1 6381 602	MARK!		0.001	,	mgt.	garz.	Liferen

Makelin   MacCOSS   121	Customer: NAED					70607
Money						MA-00:00:9 11/0CR
Margament   Mail		Outlier		Prope	eR.	
Marchane	Phone:			Mann		ister
March   Marc	Marganese	0.003	mgil.	1	0.001	6030917
Marie						
State			mgit.			
Man 1971   M.						
Street,			mg/L			
Technology						
Telephone			mgt.			
Temporary   Temp		MO	mg/L		0.8005	6030017
Toronto	Thorium		mg/L		0.8005	6030917
Dispute	Tie	ND	mg/L	1	0.0005	6030917
Decision				1		
Description	Vanadium	MB	mgA.		0.0005	4090017
Colorior	Zinc 66	8.8056	mg/L	1	0.8005	6030917
Colorior	shandar canala Pa	Contra	nas a sensala Min	Total		Materia
Parameter   Para						
Marie			_		_	
Chaise						
Number   1,11						
10						
Marke						
Contemporary   Cont						
Modes						
Debruiry Sample Cr.   Catemer sample Cr.   Test   Debruiry Sample Cr.   Test   Debruir Cr.   Debru						
PASSET   P	Suffate	97.4	mgt.	•		6130617
PASSET   P	aboratory sample ID:	Custor	mer sample 10:	Test		Method
Madels as DADDS   121 mgl. 1 5 ASSISTED				Alkalinity		EPA 310.1
Madels as DADDS   121 mgl. 1 5 ASSISTED	Parameter	Small	Moits	Diffusion	Beautine	Smit Analysis Date
Nachouse (PODS)   54						
Jahonstory sample ID. Customer sample ID. Test. Method. 170007-10 Reylud 13 Checking connectness Shi 1500E	Disease (1000)	148	mail.	1	5	6090917
170607-10 Royful 13 Checking correctness SM 1000E	Carbonate (COO)	NO.	mgd.		4	6190917
170607-10 Royful 13 Checking correctness SM 1000E						
Parameter Result Units Dilution Reporting Smit Analysis De	170607-10	Roybul	13	Checking	coreciness	SM 1030E
	Parameter	Result	Units	Dilution	Reporting	Erreit Analysis Date

Customer: NHED  Contact: Dennis Mc	Quillan				179697 6/5/2017 9:	00:00 AM
Phone			Matri		Water	
Aniona total	4.33	mayl.				
Calora total	4.30	maryl.	1			
Percent difference	-1.52		1			
802	33.9	mgt.	1	0.06		
TOS sale	286	mgt.	1			
Laboratory sample ID:	Custor	ner sample ID:	Yest			Method
170007-10	Roybal	13	Hardness	by calculatio		DN 33100
Parameter	Result	Units	Diffusion	Reportin	g timit	Analysis Date
Mandress	25.2	ma Cucco V L	1			

### Sample 1

Customer: NMED Contact: Davis No Phone:	Outher			et.	100 00 AM
Laboratory sample IO:		ner sample ID:	Test		Welhod:
170607-11	Shapa	d Residence 1	Specific C	onductance	EPA 130.1
Parameter	Result	Units	Dilution	Reporting Smit	Analysis Di
Specific Conductance	586	ušám	1		611/09/7
Laboratory sample ID: 170607-11		ner sample ID: d Residence 1	Test: pH		Method: EPA 150.1
Parameter	Result	Units	Dilution	Reporting Smit	Analysis D
per .	8.8	ph Units	1		enacer7
Laboratory sample IO:	Custo	ner sample IO:	Yest		Wathod:
170607-11	Shape	d Residence 1	Cations by	ICPOES	EPA 200.7
Parameter	French	Units	Dilution	Reporting limit	Analysis D
California	6.57	mgt.	,	0.06	6130017
tran	NO	mgt.	1	9.00	6/13/2017
Migresium	0.360	mgt.	1	0.06	6730917
Polassium	4.37	mg/L		0.06	6133917
Sodum	118	mgA.	6	4.06 (0.26)	6130917
Stretun	0.113	mgA.	1	0.0005	6m309n7
Laboratory sample ID:		ner sample ID:	Test		Welhod
179607-11		d Residence 1		als by ICPVIS	EPA 200.8
Parameter	Result	Units	Dilution	Reporting Brist	Analysis Di
Aluminum	6.0006	mgd.		0.0006	6030907
Antimony 121	NO	mg/L		0.0005	60309/7
Arbertic	BROUT	mgt.	1	0.0005	90309n7
Batum	6017	mgt.	,	0.001	6030917
Buyffum	NO	mgt.		0.0005	6030917
Boron 11	0.096	mgt.	1	0.006	6030917
Codmium 111	NO	mgd.		0.0005	60309/7
Oversion	ND	mg/L	1	0.0005	6030917
Cotet	NO	mgt.	1	0.0005	60309n7
Copper 65	ND	mgt.		0.0006	6030917
Lead	NO	mgt.		0.0005	6030917
Limium	0.000	mgt.	,	0.001	6030917
NO- not detected at the report			lon 20, 2017	To rate and to sports	Page 31 of

170607-11	Shaper	d Residence 1	Checking	consciness		SM 1030K
laboratory sample ID:	Custo	ner sample ID:	Test			Mathod
Carbonate (COS)	4	-gA	1	6		6180917
Norterate (*CO1)	144	mgt.	1			6190917
Number of Coccos	129	mgt.	1			6190917
arameter	Result	Units	Dilution	Reportin	g Smit	Analysis Date
aboratory sample ID: 70607-11		ner sample IO: d Residence 1	Test: Abalishy			EPA 310.1
		_	_		111	
Solida Principhiana	100	70	-		(2)	6030007
Otto Phosphate	ND ND	mp scott.	1	0.5		6130917
Nine Nine	NO NO	my MOSA.	1	0.1		6/13/2917 6/13/2917
	NO.	mpA ma NOOA	-	8.1		6130917
Chieston	146	mgA.	1	91		
Bromito Chiesia	0.29	mgt.		0.1		6/13/2017 6/13/2017
arameter	Result	Units	Diffusion	Reportin	g snit	Analysis Dat
		d Rasidence 1	Anions b			
aboratory sample ID: 70607-11		ner sample ID:	Test			Method: EPA 300.0
(MC 66	NO.	~	<u> </u>	0.0005		60/30917
Tex 66	NO.	mp.	- 1	0.0005		603097
Uranium Vanadium	ND ND	mpA.	1	0.8005		6630917 6630917
Paragram Paragram	NO.	mgA.	- 1	0.001		6030917
Tin Titodom	NO AME	mgA.		0.0005		60309/7 60309/7
The	NO.		-	0.0005		603097
Thattum	NO NO	mgt.	1	0.0006		6030917 6030917
Strantium Thattum	6.136 NO	mark.	- 1	0.861		6630917 6630917
(Aur 107	NB	mgA.	1	0.0005		6090917
Silcon	17.6	mg/L			(6.1)	6030007
Selenium	0.804	mgA.	- 1	0.864		6030017
Nou	NO	mgt.	1	0.0006		6030907
Maljodenum 95	6.812	mgA.	1	0.861		6530917
Margarese	8.860	-gt	•	0.861		6090917
Thone			Matr		Water	
Contact: Dennis No	Custon		Prop	HER.		
			Race	live Date:	6/9/2017 6	190:00 AM
Customer: NAED				r Number:	170607	

Gustomer: NMED Contact: Dervis Phone:	McOullan		Pro	ter Number jelve Date: ject: tris:	179607 6/9/0017 (	100:00 AM
Anions total	5.70	most	7			
Cations total	5.50	ment.	1			
Parcent difference	0.36		1			
SIG2	37.6	mgt.	1	0.06		
TOS mile	364	mgA.				
Laboratory sample 170007-11		ner sample ID: d Rasidence 1	Test: Hardne	es by calcula	nion	Method SM 23408
Parameter	Result	Units	Dilution	Repor	ting limit	Analysis Date
Hardress	17.6	mg 6+000V L	1			

NO - not defected at the reporting level. Thursdays, June 23, 2017. Page 33 of The color or parameters is requiring time multiplied by the distant has 20 and 10 and 10 and 10 appearing purposes.

stomer: NNED				umber: 179687		Customer: NME	D			iber: 179687		Customer	MED			Order N		
fact: Decois	No. Continue		Receive	Date: 6/9/2017	9:00:00 AM	Southert Day	e William		Receive D	de: 6/9/2017	9:00:00 AM		Devris NicOulli				Date: 6/9/00	917 9100:00 AM
act: Derrie	no Contain		Project	Water		Phone:	is recome		Project: Matrix:	Water		Contact	Dennis McQuilli	-		Propert		
						Marganese	6.003	mgA.	1	E-001	60309/7	Aritem total	5.0	,	med.	1 Marrie	Trans	
ratory sample ( 37-12	ID: Custon Vigil 8	er sample 10:	Test: Specific Con	declares	Method: EPA 120.1	Malybdanum 95 Natural	8.821 NO	mpt.		E-001 E-0004	6030917 6030917	Calore total	5.50 - 1.5		megt.	1		
neter	Result	Uwits		Reporting limit	Analysis Date	Sekrium	6.001	mpt.	1 1	0.001	60309/7	Person diffe	36.0		mpt.		646	
fic Conductions	SM	winters	1		9/15/90?	Silver 107	16.7 ND	mgA.	5	LG2 (8.1) LG005	6030917 6030917	TOS calc	346		mgA.			
rationy sample !	D: Custon	er sample 10:	Yest		Method:	Streetum	0.129	mgA.	1 1	E.001	6030307	Laboratory		Custome	sample ID:	Test		Method
NV12	Vigil 8		pirk		EPA 150.1	Trailor	ND ND	mpt.	1	L0005	6030917 6030917	170607-12		Apl 8		Hardness by		SM 23408
meter	Result	Units		Reporting Smit	Analysis Date	Tie	ND ND	mark.		L0005 L0005	6030917 6030917	Parameter	Res 17.1		Units ma Caronna	Diffution	Reporting time	t Analysis Den
	E)	ph Units			6190017	Titanium	0.002	mgt.		0.001	6030917	Hardress	17.	,	wit crocoa.r.			
ratory sample I		er sample 10:	Test		Method:	Unrium Yanadum	ND ND	mgA.		L0005	6030917 9030917							
P-12	Vigilit		Cations by K		EPA 300.7	Zine 66	ND	mgt.	1	L0005	6030917							
meter un	Result 6.40	mgs.	Dilution	Raporting timit COS	Analysis Date 6/13/2017	Laboratory samp	e ID: Custo	mer sample ID:	Yest		Mathod:							
	MO.	mgi.	1	640	6130017	170607/12	Vigit		Anions by IC		EPA 300.0							
	0.366 2.79	mpl. mpl.		605	6/19/2017 6/19/2017	Parameter	Result	Units		oporting limit	Analysis Date							
	106	mg/L	5	646 (8.25)	6/13/3917	Chinese	26.1	mgt.	1		6/13/2017 6/13/2017							
i,m	0.130	mgil.		6,0005	6130017	Fluoride	142	mpA		81	W13/2017							
ratory sample l		er sample ID:	Test		Method	Nitrata	ND ND	my NOOL			6/13/2017 6/13/2017							
ST-42	Vigil 8	Units	Trace Metals Dilection	Ny ICPUS Recorded Smit	EPA 200.8 Analysis Date	Ortho Phosphate	NO	mpt.		1.5	6130017							
neter nun	0.0010	mgt.	1	Exporting limit 0.0006	Analysis Date 6030007	Sulfate	84.6	ngt	1	1	6130917							
may 121	MO.	mpt. mpt.	1	0.0005	6030017	Laboratory samp		mer sample 10:	Years		Mathod:							
ec m	0.0179	mpt.	1	6,0005 6,001	6030017 6030017	170607-12	Vigit 8		Atkathity	and the second	EPA 310.1							
N/M	NO	mgt.	1	0.0006	60300n7	Parameter Makrity as CuCCI	Result	Units		sporting timit	Analysis Date 6/19/29/7							
n 11	0.106 NO	mg/L		6006 (8.006)	6090017 6090017	Boatonas (HCCC)		mgA.	1	5	6/10/2017							
min.	NO.	mgt.	1	0.0006	6030007	Carbonate (COI)	4	mgA.	1	\$	6193917							
er dif	0.0000	mg/L mg/L		6,0006	6090017 6090017	Laboratory sample		mer sample ID:	Tesit		Mathod:							
MF 60	NO.	mgs.		0.0005	6/23/2017	170007-12 Parameter	Vigil 8	Units	Checking corre	ciress isperling limit	SM 1030E Analysis Date							
					Page 34 of 30								of all the reporting to			re 18,1017		Page Mod
mp	le 1	2																
	le 1	12							Y Outs No.	Aug. 119087								
	le 1	2		umber: 170007 Danc: 6/600171	190.00 AM	Customer: Mini			Order Num		5-00-00 AM	Customer	MAED			Cyter No	MB4K: 17060	7 TJ 900000 AM
omer: NNED	le 1	12	Project:		1:30:30 AM	Contact: Denr	O is McQuillan		Receive De Project:		1-00-00 ALI	Contact	NAMED Dennis Necturia			Project		7 17 0:00:00 AM
omer: NNED		12	Receive		ITERIOR AM	Gentact: Denri Phone:	is McGullan		Project: Matrix:	Nate: 6/9/2017		-	Dennis McQuilla			Receive		7 17 9:20:00 AM
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Letters will be sent out the well owners about the high levels of arsenic, fluoride and or uranium. In conclusion, majority of the owners had elevated levels of arsenic and fluoride. The blind duplicate was persistent with the original data from the well they were collected from.

# 6. Provide a paragraph on who will benefit from your research results. Include any water agency that could your results.

The community members living in the Pojoaque and Arroyo Seco will benefit from the results. If a community member has elevated amounts of uranium in their water well, they should implement a reverse osmosis system to their well or even another filter system. From the results, it will give an understanding to other community members that other domestic water wells might have potential uranium in their water system. New Mexico Environment Department (NMED) may benefit from the project as well. NMED will have a better understanding of the wells in the area, which can lead to piping in a water system for the community to have clean drinking water.

#### 7. Describe how you have spent your grant fund.

There will be no money left over.

Description: the salary has been distributed out evenly from

May 16, 2017 to June 30, 2017

Description: undergraduate student fringe benefits is 1.1%

Description: claiming per diem for the 4-day round trip from NMSU to Sant Fe, New

Description: New Mexico Bureau of Geology (NMBG) will do the analyses for 13 samples. NMBG will conducting the general water chemistry and the trace metals.

8. List presentations you have made related to the project.

There has been no presentation on this project.

9. List publications or reports, if any, that you are preparing. Remember to acknowledge the NM WRRI funding in any presentation or report that you prepare.

There have been no publications on this project, there might be soon when the analyses are done at New Mexico Tech in Socorro, New Mexico. The publications and report will help assist the people in Arroyo Seco about their domestic water wells.

10. List any other students or faculty members who have assisted you with your project.

Kristine Pintado from New Mexico Environment Department

11. Provide special recognition awards or notable achievements as a result of the research including any publicity such as newspaper articles, or similar.

There is no special recognition awards or notable achievement for this project, maybe soon.

12. Provide information on degree completion and future career plans. Funding for student grants comes from the New Mexico Legislature and legislators are interested in whether recipients of these grants go on to complete academic degrees and work in a water-related field in New Mexico or elsewhere.

After my expected graduation date in May 2019, I plan on applying for graduate school. My plans for graduate school will either be at New Mexico State University or an out of state university. I will continue in the chemistry field, which will help with the decision in my career in becoming a teacher or working in industry.