

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: January 19, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.5B.R.1.1
 Sample ID: 387899008
 Matrix: Soil
 Collect Date: 07-DEC-15
 Receive Date: 21-DEC-15
 Collector: Client
 Moisture: 27.4%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		27.4						percent		LYTI	12/22/15	1007	1532997	1
Rad Gamma Spec Analysis														
<i>Gammascpec. Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.00837	+/-0.281	0.518	0.244	+/-0.281		pCi/g		RXF2	01/14/16	0907	1533152	2
Antimony-125	U	0.047	+/-0.101	0.200	0.0925	+/-0.104		pCi/g						
Bismuth-212	UI	0.00	+/-0.636	1.32	0.611	+/-0.826		pCi/g						
Bismuth-214		0.778	+/-0.161	0.138	0.0625	+/-0.174		pCi/g						
Cesium-137		0.381	+/-0.102	0.0789	0.0358	+/-0.107	0.100	pCi/g						
Cobalt-60	U	0.0187	+/-0.0359	0.0793	0.0338	+/-0.0369		pCi/g						
Europium-154	U	-0.00485	+/-0.139	0.232	0.100	+/-0.139		pCi/g						
Lead-212		1.14	+/-0.120	0.105	0.0495	+/-0.184		pCi/g						
Lead-214		1.10	+/-0.179	0.333	0.161	+/-0.202		pCi/g						
Potassium-40		14.4	+/-1.63	0.834	0.358	+/-2.15		pCi/g						
Protactinium-231	UI	0.00	+/-0.800	0.912	0.426	+/-0.840		pCi/g						
Radium-226		0.778	+/-0.161	0.138	0.0625	+/-0.174		pCi/g						
Radium-228		1.25	+/-0.279	0.261	0.114	+/-0.324		pCi/g						
Thallium-208		0.321	+/-0.0924	0.0814	0.0374	+/-0.0963		pCi/g						
Tin-126	UI	0.00	+/-0.0891	0.101	0.0482	+/-0.093		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC. Gross A B, solid "Dry Weight Corrected"</i>														
Alpha		16.7	+/-1.85	1.20	0.532	+/-3.68	4.00	pCi/g		KXB2	01/11/16	1935	1534757	3
Beta		24.2	+/-1.65	1.77	0.856	+/-3.68	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GI.-RAD-A-021	LYTI	12/22/15	1007	1532997

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 360, 4 5.2.3/Ga-01-R
3	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Client Sample ID: 4.5B.R.1.1
Sample ID: 387899008

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Surrogate/Tracer Recovery	Test							Batch ID	Recovery%	Acceptable Limits				

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Report Date: January 19, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Project: MJWC00115
 Client ID: MJWC001

Client Sample ID: 4.5B.R.2.1
 Sample ID: 387899009
 Matrix: Soil
 Collect Date: 07-DEC-15
 Receive Date: 21-DEC-15
 Collector: Client
 Moisture: 31.2%

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		31.2						percent		LYT1	12/22/15	1007	1532997	1
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	-0.0655	+/-0.274	0.512	0.239	+/-0.276		pCi/g		RNF2	01/14/16	0907	1533152	2
Antimony-125	U	-0.0564	+/-0.106	0.187	0.0861	+/-0.109		pCi/g						
Bismuth-212	UI	0.00	+/-0.952	1.23	0.569	+/-1.00		pCi/g						
Bismuth-214		0.766	+/-0.201	0.138	0.0629	+/-0.212		pCi/g						
Cesium-137		0.944	+/-0.114	0.0807	0.0368	+/-0.139	0.100	pCi/g						
Cobalt-60	U	0.00834	+/-0.0369	0.0752	0.0321	+/-0.0371		pCi/g						
Europium-154	U	0.0546	+/-0.128	0.259	0.114	+/-0.131		pCi/g						
Lead-212		1.16	+/-0.128	0.105	0.0491	+/-0.170		pCi/g						
Lead-214		0.966	+/-0.179	0.149	0.0689	+/-0.199		pCi/g						
Potassium-40		13.7	+/-1.53	0.699	0.295	+/-1.94		pCi/g						
Protactinium-231	UI	0.00	+/-0.693	0.989	0.462	+/-0.719		pCi/g						
Radium-226		0.766	+/-0.201	0.138	0.0629	+/-0.212		pCi/g						
Radium-228		0.817	+/-0.284	0.276	0.123	+/-0.311		pCi/g						
Thallium-208		0.207	+/-0.0688	0.0607	0.0271	+/-0.0711		pCi/g						
Tin-126	U	0.0111	+/-0.133	0.164	0.0786	+/-0.134		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A-B, solid "Dry Weight Corrected"</i>														
Alpha		16.8	+/-2.16	2.00	0.920	+/-3.77	4.00	pCi/g		KXB2	01/11/16	1935	1534757	3
Beta		20.5	+/-1.93	2.47	1.20	+/-3.23	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	12/22/15	1007	1532997

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5.2.3/Ga-01-R
3	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

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Project: Soil Radioisotopes

Client Sample ID: 4.5B.R.2.1
Sample ID: 387899009

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer	Recovery	Test											Batch ID	Recovery%	Acceptable Limits

Notes:

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Company : MJW Technical Services
 Address : 15 Hazelwood Drive
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Report Date: March 8, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.2.2
 Sample ID: 392045007
 Matrix: Soil
 Collect Date: 07-DEC-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 21.1%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>Gamma with Ingrowth "Dry Weight Corrected"</i>														
Actinium-227	U	-0.0703	+/-0.307	0.576	0.271	+/-0.309		pCi/g		MXR1	03/08/16	0647	1547793	1
Antimony-125	U	0.0432	+/-0.123	0.233	0.108	+/-0.125		pCi/g						
Bismuth-212	UI	0.00	+/-0.999	1.42	0.660	+/-1.13		pCi/g						
Bismuth-214		0.891	+/-0.213	0.171	0.0791	+/-0.227		pCi/g						
Cesium-137		1.87	+/-0.164	0.0819	0.0372	+/-0.235	0.100	pCi/g						
Cobalt-60	U	-0.0226	+/-0.0349	0.0624	0.025	+/-0.0364		pCi/g						
Europium-154	U	0.0745	+/-0.145	0.276	0.121	+/-0.149		pCi/g						
Lead-212		1.22	+/-0.144	0.125	0.0589	+/-0.182		pCi/g						
Lead-214		1.21	+/-0.202	0.354	0.172	+/-0.229		pCi/g						
Potassium-40		16.1	+/-1.69	0.673	0.275	+/-2.18		pCi/g						
Protactinium-231	U	0.359	+/-0.648	1.13	0.532	+/-0.673		pCi/g						
Radium-226		0.891	+/-0.213	0.171	0.0791	+/-0.227		pCi/g						
Radium-228		1.07	+/-0.288	0.272	0.120	+/-0.334		pCi/g						
Thallium-208		0.242	+/-0.0896	0.0724	0.0328	+/-0.0922		pCi/g						
Tin-126	UI	0.00	+/-0.168	0.164	0.0778	+/-0.169		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, solid "Dry Weight Corrected"

Alpha		13.6	+/-4.14	3.87	1.55	+/-4.94	4.00	pCi/g		JXB7	03/03/16	1045	1547854	2
Beta		23.2	+/-3.48	3.45	1.58	+/-4.78	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/26/16	1456	1547784

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300, 4.5 2 3/Ga-01-R
2	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery Test

Batch ID Recovery% Acceptable Limits

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Contact: Ms. Laurie Losey
Project: Soil Radioisotopes
Client Sample ID: 4.5.B.R.2.2
Sample ID: 392045007

Report Date: March 8, 2016

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Report Date: January 5, 2016

Client Sample ID: 4.5.B.R.3.1
 Sample ID: 387022021
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 08-DEC-15
 Collector: Client
 Moisture: 29%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	I.c	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		29.0						percent		DRS1	12/09/15	1333	1529606	1
Rad Alpha Spec Analysis														
<i>ASP Plutonium Isotopic, Solid "Dry Weight Corrected"</i>														
Plutonium-238		0.0142	+/-0.0398	0.0425	0.00	+/-0.0399	1.00	pCi/g		MXS2	12/28/15	1656	1529806	2
Plutonium-239/240	U	0.0113	+/-0.0508	0.0993	0.0284	+/-0.0508	1.00	pCi/g						
<i>ASP Uranium Isotopic, Solid "Dry Weight Corrected"</i>														
Uranium-232	U	-0.0682	+/-0.0641	0.188	0.071	+/-0.0642	1.00	pCi/g		MXS2	12/28/15	1550	1529801	3
Uranium-233/234		0.636	+/-0.214	0.0992	0.0227	+/-0.241	1.00	pCi/g						
Uranium-235/236		0.283	+/-0.146	0.0862	0.0161	+/-0.154	1.00	pCi/g						
Uranium-238		0.909	+/-0.253	0.0859	0.0161	+/-0.298	1.00	pCi/g						
<i>Alphaspec Np237, Solid "Dry Weight Corrected"</i>														
Neptunium-237	U	-0.0861	+/-0.200	0.591	0.161	+/-0.200	1.00	pCi/g		MXS2	12/28/15	1649	1529805	4
<i>Alphaspec Th229 + 228,230,232 Solid "Dry Weight Corrected"</i>														
Thorium-228		0.797	+/-0.565	0.615	0.188	+/-0.584	1.00	pCi/g		MXS2	12/28/15	1604	1529799	5
Thorium-229		0.214	+/-0.309	0.372	0.0697	+/-0.311	1.00	pCi/g						
Thorium-230		0.235	+/-0.349	0.510	0.139	+/-0.351	1.00	pCi/g						
Thorium-232		0.368	+/-0.374	0.370	0.0693	+/-0.379	1.00	pCi/g						
<i>Am241, Cm Solid "Dry Weight Corrected"</i>														
Americium-241	U	-0.004	+/-0.0345	0.0799	0.015	+/-0.0346	1.00	pCi/g		MXS2	12/28/15	1636	1529802	6
Curium-242		0.00	+/-0.0372	0.0554	0.00	+/-0.0373	1.00	pCi/g						
Curium-243/244	U	0.0125	+/-0.0469	0.0789	0.0148	+/-0.047	1.00	pCi/g						
Curium-245/246		0.0191	+/-0.0536	0.0572	0.00	+/-0.0537	1.00	pCi/g						
<i>Liquid Scint Pu241, Solid "Dry Weight Corrected"</i>														
Plutonium-241	U	-4.91	+/-6.02	10.7	5.18	+/-6.02	15.0	pCi/g		MXS2	12/30/15	2309	1529807	7
Rad Gamma Spec Analysis														
<i>Gamma 1129, Solid "Dry Weight Corrected"</i>														
Iodine-129	UI	0.00	+/-0.300	0.536	0.251	+/-0.332	1.00	pCi/g		MJH1	12/30/15	1859	1533084	8
<i>Gammasespec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	-0.0327	+/-0.237	0.446	0.207	+/-0.237		pCi/g		RXF2	01/04/16	0628	1529719	9
Antimony-125	U	-0.0148	+/-0.119	0.188	0.0863	+/-0.119		pCi/g						
Bismuth-212	UI	0.00	+/-0.755	1.36	0.631	+/-0.944		pCi/g						
Bismuth-214		1.09	+/-0.183	0.152	0.0694	+/-0.204		pCi/g						
Cesium-137		0.349	+/-0.0711	0.0578	0.0251	+/-0.0763	0.100	pCi/g						
Cobalt-60	U	0.00941	+/-0.0316	0.0688	0.0286	+/-0.0319		pCi/g						
Europium-154	U	0.0787	+/-0.0839	0.257	0.113	+/-0.0913		pCi/g						
Lead-212		1.09	+/-0.125	0.102	0.0477	+/-0.193		pCi/g						

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 Project: Soil Radioisotopes
 Client Sample ID: 4.5.B.R.3.1
 Sample ID: 387022021

Report Date: January 5, 2016

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>														
Lead-214		1.19	+/-0.156	0.120	0.0548	+/-0.193		pCi/g						
Potassium-40		13.2	+/-1.46	0.525	0.204	+/-1.87		pCi/g						
Protactinium-231	U	0.00	+/-0.474	0.867	0.401	+/-0.497		pCi/g						
Radium-226		1.09	+/-0.183	0.152	0.0694	+/-0.204		pCi/g						
Radium-228		0.940	+/-0.276	0.252	0.110	+/-0.312		pCi/g						
Thallium-208		0.312	+/-0.097	0.0725	0.0329	+/-0.101		pCi/g						
Tin-126	U	0.00	+/-0.0903	0.127	0.0613	+/-0.104		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		14.9	+/-4.75	3.91	1.45	+/-5.55	4.00	pCi/g		KXB2	01/04/16	0902	1532751	10
Beta		21.5	+/-3.64	3.19	1.41	+/-4.80	10.0	pCi/g						
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>														
Strontium-90	U	0.195	+/-0.797	1.43	0.652	+/-0.798	2.00	pCi/g		KSD1	01/04/16	1252	1532743	11
Rad Liquid Scintillation Analysis														
<i>LSC, Tritium Dist, Solid "Dry Weight Corrected"</i>														
Tritium	U	0.250	+/-2.91	5.08	2.43	+/-2.91	6.00	pCi/g		TXJ1	12/28/15	0750	1531105	12
<i>Liquid Scint C14, Solid "Dry Weight Corrected"</i>														
Carbon-14	U	-0.348	+/-0.915	1.57	0.773	+/-0.915	2.00	pCi/g		TXJ1	12/24/15	0930	1531115	13
<i>Liquid Scint Tc99, Solid "Dry Weight Corrected"</i>														
Technetium-99	U	0.603	+/-1.72	2.96	1.42	+/-1.72	5.00	pCi/g		MYM	01/02/16	1338	1532556	14

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	DRS1	12/09/15	1333	1529606

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, U-02-RC Modified
4	ASTM C 1476-00 Modified
5	DOE EML HASL-300, Th-01-RC Modified
6	DOE EML HASL-300, Am-05-RC Modified
7	DOE EML HASL-300, Pu-11-RC Modified
8	DOE EML HASL-300, I-01 Modified
9	DOE HASL 300, 4 5 2 3/Ga-01-R
10	EPA 900.0/SW846 9310/SM 7110B Modified
11	EPA 905.0 Modified/DOE RP501 Rev 1 Modified
12	EPA 906.0 Modified

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Sample ID: 387022021

Report Date: January 5, 2016

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
13	EPA EERF C-01 Modified													
14	DOE EML HASL-300, Tc-02-RC Modified													

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Plutonium-242 Tracer	ASP Plutonium Isotopic, Solid "Dry Weight Corrected"	1529806	84.5	(15%-125%)
Uranium-232 Tracer	ASP Uranium Isotopic, Solid "Dry Weight Corrected"	1529801	80.5	(15%-125%)
Uranium-235/236 Tracer	ASP Uranium Isotopic, Solid "Dry Weight Corrected"	1529801	84.1	(15%-125%)
Americium-243 Tracer	Alphaspec Np237, Solid "Dry Weight Corrected"	1529805	79.9	(15%-125%)
Actinium-227 Tracer	Alphaspec Th229 + 228,230,232 Solid "Dry Weight Corrected"	1529799	90.4	(15%-125%)
Americium-243 Tracer	Am241, Cm Solid "Dry Weight Corrected"	1529802	88.6	(15%-125%)
Plutonium-242 Tracer	Liquid Scint Pu241, Solid "Dry Weight Corrected"	1529807	84.5	(15%-125%)
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"	1532743	73.9	(25%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "Dry Weight Corrected"	1532556	92.5	(15%-125%)

Notes:

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Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Project: MJWC00115
 Client ID: MJWC001

Client Sample ID: 4.5.B.R.3.2
 Sample ID: 387022022
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 08-DEC-15
 Collector: Client
 Moisture: 25.7%

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		25.7						percent		DRS1	12/09/15	1333	1529606	1
Rad Alpha Spec Analysis														
<i>ASP Plutonium Isotopic, Solid "Dry Weight Corrected"</i>														
Plutonium-238		0.0408	+/-0.0648	0.0896	0.0205	+/-0.065	1.00	pCi/g		MXS2	12/28/15	1656	1529806	2
Plutonium-239/240	U	0.0252	+/-0.0665	0.120	0.0355	+/-0.0666	1.00	pCi/g						
<i>ASP Uranium Isotopic, Solid "Dry Weight Corrected"</i>														
Uranium-232	U	0.00307	+/-0.0729	0.151	0.0563	+/-0.073	1.00	pCi/g		MXS2	12/28/15	1550	1529801	3
Uranium-233/234		1.03	+/-0.277	0.0903	0.0169	+/-0.329	1.00	pCi/g						
Uranium-235/236		0.0945	+/-0.0912	0.0567	0.00	+/-0.0926	1.00	pCi/g						
Uranium-238		0.594	+/-0.213	0.104	0.0239	+/-0.236	1.00	pCi/g						
<i>Alphaspec Np237, Solid "Dry Weight Corrected"</i>														
Neptunium-237	U	0.0894	+/-0.345	0.668	0.210	+/-0.345	1.00	pCi/g		MXS2	12/28/15	1649	1529805	4
<i>Alphaspec Th229 + 228,230,232 Solid "Dry Weight Corrected"</i>														
Thorium-228		0.790	+/-0.560	0.609	0.187	+/-0.578	1.00	pCi/g		MXS2	12/28/15	1605	1529799	5
Thorium-229		0.194	+/-0.308	0.426	0.0976	+/-0.309	1.00	pCi/g						
Thorium-230		0.924	+/-0.568	0.506	0.138	+/-0.587	1.00	pCi/g						
Thorium-232		0.805	+/-0.523	0.424	0.0971	+/-0.539	1.00	pCi/g						
<i>Am241, Cm Solid "Dry Weight Corrected"</i>														
Americium-241	U	0.0219	+/-0.0603	0.105	0.0266	+/-0.0604	1.00	pCi/g		MXS2	12/28/15	1636	1529802	6
Curium-242		0.00	+/-0.0383	0.0569	0.00	+/-0.0384	1.00	pCi/g						
Curium-243/244	U	-0.00338	+/-0.0508	0.119	0.0339	+/-0.0508	1.00	pCi/g						
Curium-245/246		0.0392	+/-0.0671	0.0588	0.00	+/-0.0674	1.00	pCi/g						
<i>Liquid Scint Pu241, Solid "Dry Weight Corrected"</i>														
Plutonium-241	U	-3.47	+/-6.57	11.6	5.61	+/-6.57	15.0	pCi/g		MXS2	12/31/15	0000	1529807	7
Rad Gamma Spec Analysis														
<i>Gamma 1129, Solid "Dry Weight Corrected"</i>														
Iodine-129	U	-0.0401	+/-0.198	0.350	0.160	+/-0.199	1.00	pCi/g		MJH1	12/30/15	1900	1533084	8
<i>Gammaspect, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	-0.119	+/-0.294	0.535	0.249	+/-0.300		pCi/g		RXF2	01/04/16	0740	1529719	9
Antimony-125	U	-0.0504	+/-0.129	0.239	0.111	+/-0.131		pCi/g						
Bismuth-212	U	0.639	+/-0.904	1.41	0.650	+/-0.951		pCi/g						
Bismuth-214		0.828	+/-0.195	0.149	0.0674	+/-0.207		pCi/g						
Cesium-137		0.617	+/-0.126	0.096	0.044	+/-0.136	0.100	pCi/g						
Cobalt-60	U	0.0106	+/-0.048	0.0961	0.0418	+/-0.0482		pCi/g						
Europium-154	U	-0.0926	+/-0.136	0.233	0.0993	+/-0.143		pCi/g						
Lead-212		1.15	+/-0.157	0.131	0.0619	+/-0.191		pCi/g						
Lead-214		1.13	+/-0.222	0.386	0.187	+/-0.245		pCi/g						

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228
 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes
 Client Sample ID: 4.5.B.R.3.2
 Sample ID: 387022022

Report Date: January 5, 2016

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RI	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>														
Potassium-40		14.4	+/-1.64	0.639	0.256	+/-2.05		pCi/g						
Protactinium-231	U	0.405	+/-0.657	1.19	0.559	+/-0.689		pCi/g						
Radium-226		0.828	+/-0.195	0.149	0.0674	+/-0.207		pCi/g						
Radium-228		1.15	+/-0.397	0.317	0.142	+/-0.429		pCi/g						
Thallium-208		0.222	+/-0.0943	0.0797	0.0363	+/-0.0962		pCi/g						
Tin-126	U	0.0567	+/-0.182	0.200	0.0959	+/-0.183		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		13.5	+/-4.06	3.96	1.61	+/-4.81	4.00	pCi/g		KXB2	01/04/16	0903	1532751	10
Beta		20.4	+/-3.29	3.12	1.41	+/-4.40	10.0	pCi/g						
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>														
Strontium-90	U	0.119	+/-0.814	1.54	0.667	+/-0.814	2.00	pCi/g		KSD1	12/29/15	1420	1532743	11
Rad Liquid Scintillation Analysis														
<i>LSC, Tritium Dist, Solid "Dry Weight Corrected"</i>														
Tritium	U	-1.88	+/-2.59	4.70	2.25	+/-2.59	6.00	pCi/g		TXJ1	12/28/15	0921	1531105	12
<i>Liquid Scint C14, Solid "Dry Weight Corrected"</i>														
Carbon-14	U	-0.457	+/-0.880	1.52	0.746	+/-0.880	2.00	pCi/g		TXJ1	12/24/15	1053	1531115	13
<i>Liquid Scint Tc99, Solid "Dry Weight Corrected"</i>														
Technetium-99	U	0.840	+/-1.31	2.23	1.07	+/-1.31	5.00	pCi/g		MYM	01/02/16	1355	1532556	14

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	DRS1	12/09/15	1333	1529606

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, U-02-RC Modified
4	ASTM C 1476-00 Modified
5	DOE EML HASL-300, Th-01-RC Modified
6	DOE EML HASL-300, Am-05-RC Modified
7	DOE EML HASL-300, Pu-11-RC Modified
8	DOE EML HASL-300, I-01 Modified
9	DOE HASL 300, 4.5.2.3/Ga-01-R
10	EPA 900.0/SWS46 9310/SM 7110B Modified
11	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
12	EPA 906.0 Modified
13	EPA FERR C-01 Modified

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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: January 5, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.3.2
Sample ID: 387022022

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
14		DOE EML HASL-300, Tc-02-RC Modified												

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Plutonium-242 Tracer	ASP Plutonium Isotopic. Solid "Dry Weight Corrected"	1529806	78.8	(15%-125%)
Uranium-232 Tracer	ASP Uranium Isotopic. Solid "Dry Weight Corrected"	1529801	76.2	(15%-125%)
Uranium-235/236 Tracer	ASP Uranium Isotopic. Solid "Dry Weight Corrected"	1529801	82.9	(15%-125%)
Americium-243 Tracer	Alphaspec Np237, Solid "Dry Weight Corrected"	1529805	89.1	(15%-125%)
Actinium-227 Tracer	Alphaspec Th229 + 228,230,232 Solid "Dry Weight Corrected"	1529799	89.9	(15%-125%)
Americium-243 Tracer	Am241, Cm Solid "Dry Weight Corrected"	1529802	84.6	(15%-125%)
Plutonium-242 Tracer	Liquid Scint Pu241, Solid "Dry Weight Corrected"	1529807	78.8	(15%-125%)
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"	1532743	83.5	(25%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "Dry Weight Corrected"	1532556	92	(15%-125%)

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: January 5, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.3.5
 Sample ID: 387022023
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 08-DEC-15
 Collector: Client
 Moisture: 29.1%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		29.1						percent		DRS1	12/09/15	1333	1529606	1
Rad Alpha Spec Analysis														
<i>ASP Plutonium Isotopic, Solid "Dry Weight Corrected"</i>														
Plutonium-238		0.0636	+/-0.0647	0.064	0.012	+/-0.0652	1.00	pCi/g		MXS2	12/28/15	1656	1529806	2
Plutonium-239/240	U	0.0101	+/-0.038	0.064	0.012	+/-0.0381	1.00	pCi/g						
<i>ASP Uranium Isotopic, Solid "Dry Weight Corrected"</i>														
Uranium-232	U	0.044	+/-0.0818	0.142	0.050	+/-0.0822	1.00	pCi/g		MXS2	12/28/15	1548	1529801	3
Uranium-233/234		0.954	+/-0.263	0.127	0.0362	+/-0.310	1.00	pCi/g						
Uranium-235/236		0.0862	+/-0.0878	0.0869	0.0163	+/-0.089	1.00	pCi/g						
Uranium-238		0.736	+/-0.230	0.0866	0.0162	+/-0.262	1.00	pCi/g						
<i>Alphaspec Np237, Solid "Dry Weight Corrected"</i>														
Neptunium-237	U	0.0435	+/-0.242	0.464	0.106	+/-0.242	1.00	pCi/g		MXS2	12/28/15	1650	1529805	4
<i>Alphaspec Th229 - 228,230,232 Solid "Dry Weight Corrected"</i>														
Thorium-228		0.984	+/-0.589	0.564	0.170	+/-0.613	1.00	pCi/g		MXS2	12/28/15	1605	1529799	5
Thorium-229		0.202	+/-0.291	0.351	0.0656	+/-0.292	1.00	pCi/g						
Thorium-230		1.41	+/-0.659	0.446	0.113	+/-0.694	1.00	pCi/g						
Thorium-232		0.911	+/-0.537	0.403	0.0923	+/-0.555	1.00	pCi/g						
<i>Am241, Cm Solid "Dry Weight Corrected"</i>														
Americium-241	U	0.0086	+/-0.0478	0.0916	0.021	+/-0.0478	1.00	pCi/g		MXS2	12/28/15	1636	1529802	6
Curium-242		0.00	+/-0.0369	0.055	0.00	+/-0.037	1.00	pCi/g						
Curium-243/244		0.0248	+/-0.057	0.0905	0.0207	+/-0.0571	1.00	pCi/g						
Curium-245/246		0.0378	+/-0.0648	0.0568	0.00	+/-0.065	1.00	pCi/g						
<i>Liquid Scint Pu241, Solid "Dry Weight Corrected"</i>														
Plutonium-241	U	-3.34	+/-5.97	10.5	5.10	+/-5.97	15.0	pCi/g		MXS2	12/31/15	0051	1529807	7
Rad Gamma Spec Analysis														
<i>Gamma I129, Solid "Dry Weight Corrected"</i>														
Iodine-129	U	-0.197	+/-0.253	0.413	0.187	+/-0.269	1.00	pCi/g		MJH1	12/30/15	1900	1533084	8
<i>Gammasespec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.103	+/-0.306	0.598	0.279	+/-0.310		pCi/g		RXF2	01/04/16	0740	1529719	9
Antimony-125	U	-0.111	+/-0.121	0.203	0.0916	+/-0.131		pCi/g						
Bismuth-212	UI	0.00	+/-0.911	1.54	0.704	+/-1.09		pCi/g						
Bismuth-214		0.893	+/-0.209	0.174	0.0789	+/-0.222		pCi/g						
Cesium-137		0.364	+/-0.101	0.105	0.0477	+/-0.105	0.100	pCi/g						
Cobalt-60	U	0.0341	+/-0.0652	0.114	0.0494	+/-0.067		pCi/g						
Europium-154	U	0.0884	+/-0.131	0.293	0.127	+/-0.137		pCi/g						
Lead-212		0.954	+/-0.140	0.127	0.0591	+/-0.162		pCi/g						
Lead-214		0.991	+/-0.218	0.174	0.0801	+/-0.234		pCi/g						

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228
 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes
 Client Sample ID: 4.5.B.R.3.5
 Sample ID: 387022023

Report Date: January 5, 2016

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Le	TPU	RI	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>GammaSpec, Gamma, Solid "Dry Weight Corrected"</i>														
Potassium-40		12.6	+/-1.63	0.854	0.353	+/-1.95		pCi/g						
Protactinium-231	U	-0.029	+/-0.593	1.08	0.500	+/-0.594		pCi/g						
Radium-226		0.893	+/-0.209	0.174	0.0789	+/-0.222		pCi/g						
Radium-228		1.07	+/-0.405	0.309	0.134	+/-0.429		pCi/g						
Thallium-208		0.367	+/-0.100	0.0658	0.0287	+/-0.105		pCi/g						
Tin-126	UI	0.00	+/-0.181	0.210	0.0996	+/-0.182		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		14.7	+/-4.60	3.85	1.49	+/-5.64	4.00	pCi/g		KXB2	01/04/16	0902	1532751	10
Beta		18.6	+/-3.44	3.32	1.48	+/-4.36	10.0	pCi/g						
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>														
Strontium-90	U	-0.286	+/-0.858	1.70	0.753	+/-0.858	2.00	pCi/g		KSD1	12/29/15	1422	1532743	11
Rad Liquid Scintillation Analysis														
<i>LSC, Tritium Dist, Solid "Dry Weight Corrected"</i>														
Tritium	U	1.81	+/-2.91	4.96	2.37	+/-2.91	6.00	pCi/g		TXJ1	12/28/15	1052	1531105	12
<i>Liquid Scint C14, Solid "Dry Weight Corrected"</i>														
Carbon-14	U	-0.70	+/-0.906	1.57	0.771	+/-0.906	2.00	pCi/g		TXJ1	12/24/15	1216	1531115	13
<i>Liquid Scint Tc99, Solid "Dry Weight Corrected"</i>														
Technetium-99	U	0.632	+/-1.66	2.86	1.37	+/-1.66	5.00	pCi/g		MYM	01/02/16	1411	1532556	14

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	DRS1	12/09/15	1333	1529606

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, U-02-RC Modified
4	ASTM C 1476-00 Modified
5	DOE EML HASL-300, Th-01-RC Modified
6	DOE EML HASL-300, Am-05-RC Modified
7	DOE EML HASL-300, Pu-11-RC Modified
8	DOE EML HASL-300, I-01 Modified
9	DOE HASL 300, 4.5.2.3/Ga-01-R
10	EPA 900.0/SW846 9310/SM 7110B Modified
11	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
12	EPA 906.0 Modified
13	EPA EERF C-01 Modified

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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: January 5, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.3.5
Sample ID: 387022023

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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14 DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Plutonium-242 Tracer	ASP Plutonium Isotopic, Solid "Dry Weight Corrected"	1529806	86.4	(15%-125%)
Uranium-232 Tracer	ASP Uranium Isotopic, Solid "Dry Weight Corrected"	1529801	83.7	(15%-125%)
Uranium-235/236 Tracer	ASP Uranium Isotopic, Solid "Dry Weight Corrected"	1529801	81.4	(15%-125%)
Americium-243 Tracer	Alphaspec Np237, Solid "Dry Weight Corrected"	1529805	84.9	(15%-125%)
Actinium-227 Tracer	Alphaspec Th229 + 228,230,232 Solid "Dry Weight Corrected"	1529799	101	(15%-125%)
Americium-243 Tracer	Am241, Cm Solid "Dry Weight Corrected"	1529802	98.7	(15%-125%)
Plutonium-242 Tracer	Liquid Scint Pu241, Solid "Dry Weight Corrected"	1529807	86.4	(15%-125%)
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"	1532743	76	(25%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "Dry Weight Corrected"	1532556	92.7	(15%-125%)

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228
 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Report Date: January 5, 2016

Client Sample ID: 4.5B.R.3.6
 Sample ID: 387031001
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 08-DEC-15
 Collector: Client
 Moisture: 25.7%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Le	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		25.7						percent		DRS1	12/09/15	1310	1529593	1
Rad Alpha Spec Analysis														
<i>ASP Plutonium Isotopic, Solid "Dry Weight Corrected"</i>														
Plutonium-238		0.0495	+/-0.0627	0.0779	0.0178	+/-0.063	1.00	pCi/g		MXS2	12/28/15	1656	1529806	2
Plutonium-239/240	U	-0.00675	+/-0.0298	0.0778	0.0178	+/-0.0299	1.00	pCi/g						
<i>ASP Uranium Isotopic, Solid "Dry Weight Corrected"</i>														
Uranium-232	U	-0.0142	+/-0.0858	0.188	0.0716	+/-0.0859	1.00	pCi/g		MXS2	12/28/15	1548	1529801	3
Uranium-233/234		0.941	+/-0.268	0.0925	0.0173	+/-0.315	1.00	pCi/g						
Uranium-235/236		0.058	+/-0.0764	0.058	0.00	+/-0.0771	1.00	pCi/g						
Uranium-238		1.09	+/-0.288	0.107	0.0245	+/-0.347	1.00	pCi/g						
<i>Alphaspec Np237, Solid "Dry Weight Corrected"</i>														
Neptunium-237	U	-0.0346	+/-0.153	0.400	0.0916	+/-0.153	1.00	pCi/g		MXS2	12/28/15	1650	1529805	4
<i>Alphaspec Th229 + 228,230,232 Solid "Dry Weight Corrected"</i>														
Thorium-228		1.03	+/-0.658	0.678	0.210	+/-0.686	1.00	pCi/g		MXS2	12/28/15	1604	1529799	5
Thorium-229	U	0.0269	+/-0.307	0.652	0.200	+/-0.307	1.00	pCi/g						
Thorium-230		0.443	+/-0.442	0.513	0.130	+/-0.449	1.00	pCi/g						
Thorium-232		1.07	+/-0.616	0.401	0.0751	+/-0.642	1.00	pCi/g						
<i>Am241, Cm Solid "Dry Weight Corrected"</i>														
Americium-241		0.0298	+/-0.051	0.0447	0.00	+/-0.0512	1.00	pCi/g		MXS2	12/28/15	1636	1529802	6
Curium-242		0.0165	+/-0.0464	0.0495	0.00	+/-0.0465	1.00	pCi/g						
Curium-243/244	U	-0.0106	+/-0.032	0.0899	0.0229	+/-0.032	1.00	pCi/g						
Curium-245/246		0.017	+/-0.0479	0.0511	0.00	+/-0.048	1.00	pCi/g						
<i>Liquid Scint Pu241, Solid "Dry Weight Corrected"</i>														
Plutonium-241	U	-5.94	+/-6.52	11.6	5.63	+/-6.52	15.0	pCi/g		MXS2	12/31/15	0255	1529807	7
Rad Gamma Spec Analysis														
<i>Gamma 1129, Solid "Dry Weight Corrected"</i>														
Iodine-129	U	-0.0399	+/-0.253	0.458	0.205	+/-0.253	1.00	pCi/g		MJH1	12/30/15	1901	1533084	8
<i>Gamma spec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.219	+/-0.320	0.633	0.298	+/-0.336		pCi/g		RXP2	01/04/16	1005	1529721	9
Antimony-125	U	0.0209	+/-0.127	0.236	0.110	+/-0.127		pCi/g						
Bismuth-212	UI	0.00	+/-0.998	1.57	0.728	+/-1.26		pCi/g						
Bismuth-214		1.05	+/-0.178	0.150	0.0681	+/-0.201		pCi/g						
Cesium-137		0.544	+/-0.0992	0.0932	0.0426	+/-0.110	0.100	pCi/g						
Cobalt-60	U	0.0488	+/-0.0512	0.113	0.0499	+/-0.0558		pCi/g						
Europium-154	U	0.0519	+/-0.147	0.276	0.121	+/-0.149		pCi/g						
Lead-212		1.11	+/-0.139	0.128	0.060	+/-0.169		pCi/g						

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228
 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes
 Client Sample ID: 4.5B,R.3.6
 Sample ID: 387031001

Report Date: January 5, 2016

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>GammaSpec, Gamma. Solid "Dry Weight Corrected"</i>														
Lead-214		1.22	+/-0.220	0.178	0.0831	+/-0.244		pCi/g						
Potassium-40		15.5	+/-1.74	0.842	0.357	+/-2.19		pCi/g						
Protactinium-231	U	0.00	+/-0.882	1.11	0.519	+/-0.918		pCi/g						
Radium-226		1.05	+/-0.178	0.150	0.0681	+/-0.201		pCi/g						
Radium-228		1.29	+/-0.305	0.314	0.140	+/-0.362		pCi/g						
Thallium-208		0.299	+/-0.0777	0.0827	0.0377	+/-0.0822		pCi/g						
Tin-126	U	0.0833	+/-0.174	0.225	0.108	+/-0.175		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A-B, solid "Dry Weight Corrected"</i>														
Alpha		11.9	+/-3.70	3.83	1.59	+/-4.36	4.00	pCi/g		JXB7	01/04/16	0931	1532748	10
Beta		24.2	+/-3.69	4.03	1.88	+/-5.10	10.0	pCi/g						
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>														
Strontium-90	U	-0.377	+/-0.647	1.46	0.611	+/-0.647	2.00	pCi/g		KSD1	12/29/15	1422	1532743	11
Rad Liquid Scintillation Analysis														
<i>LSC, Tritium Dist. Solid "Dry Weight Corrected"</i>														
Tritium		2.21	+/-2.60	4.38	2.10	+/-2.60	6.00	pCi/g		TXJ1	12/28/15	1223	1531105	12
<i>Liquid Scint C14, Solid "Dry Weight Corrected"</i>														
Carbon-14	U	-0.729	+/-0.865	1.50	0.737	+/-0.865	2.00	pCi/g		TXJ1	12/24/15	1339	1531115	13
<i>Liquid Scint Tc99, Solid "Dry Weight Corrected"</i>														
Technetium-99	U	0.983	+/-1.27	2.15	1.03	+/-1.28	5.00	pCi/g		MYM	01/02/16	1428	1532556	14

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	DRS1	12/09/15	1310	1529593

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, U-02-RC Modified
4	ASTM C 1476-00 Modified
5	DOE EML HASL-300, Th-01-RC Modified
6	DOE EML HASL-300, Am-05-RC Modified
7	DOE EML HASL-300, Pu-11-RC Modified
8	DOE EML HASL-300, I-01 Modified
9	DOE HASL 300, 4.5 2.3/Ga-01-R
10	EPA 900.0/SW846 9310/SM 7110B Modified
11	EPA 905.0 Modified/DOE RP501 Rev 1 Modified
12	EPA 906.0 Modified

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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228
Contact: Ms. Laurie Losey
Project: Soil Radioisotopes
Client Sample ID: 4.5B.R.3.6
Sample ID: 387031001

Report Date: January 5, 2016

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
13	EPA EERF C-01 Modified													
14	DOE EML HASL-300, Tc-02-RC Modified													

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Plutonium-242 Tracer	ASP Plutonium Isotopic, Solid "Dry Weight Corrected"	1529806	75.8	(15%-125%)
Uranium-232 Tracer	ASP Uranium Isotopic, Solid "Dry Weight Corrected"	1529801	76.7	(15%-125%)
Uranium-235/236 Tracer	ASP Uranium Isotopic, Solid "Dry Weight Corrected"	1529801	76.2	(15%-125%)
Americium-243 Tracer	Alphaspec Np237, Solid "Dry Weight Corrected"	1529805	98.2	(15%-125%)
Actinium-227 Tracer	Alphaspec Th229 + 228,230,232 Solid "Dry Weight Corrected"	1529799	80	(15%-125%)
Americium-243 Tracer	Am241, Cm Solid "Dry Weight Corrected"	1529802	101	(15%-125%)
Plutonium-242 Tracer	Liquid Scint Pu241, Solid "Dry Weight Corrected"	1529807	75.8	(15%-125%)
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"	1532743	77.1	(25%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "Dry Weight Corrected"	1532556	94.3	(15%-125%)

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
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 Buffalo, New York 14228

Report Date: January 5, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.4.1
 Sample ID: 387031002
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 08-DEC-15
 Collector: Client
 Moisture: 26.7%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		26.7						percent		DRS1	12/09/15	1310	1529593	1
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	UI	0.00	+/-0.406	0.533	0.250	+/-0.425		pCi/g		RXF2	01/04/16	0746	1529721	2
Antimony-125	U	-0.0197	+/-0.116	0.210	0.0975	+/-0.117		pCi/g						
Bismuth-212	UI	0.00	+/-0.652	1.25	0.577	+/-0.847		pCi/g						
Bismuth-214		0.885	+/-0.168	0.157	0.0721	+/-0.183		pCi/g						
Cesium-137		0.832	+/-0.125	0.0727	0.0328	+/-0.142	0.100	pCi/g						
Cobalt-60	U	-0.0209	+/-0.0387	0.0692	0.0291	+/-0.0398		pCi/g						
Europium-154	U	0.106	+/-0.119	0.262	0.116	+/-0.129		pCi/g						
Lead-212		1.12	+/-0.133	0.116	0.0548	+/-0.163		pCi/g						
Lead-214		1.14	+/-0.209	0.349	0.169	+/-0.229		pCi/g						
Potassium-40		14.7	+/-1.53	0.606	0.248	+/-1.99		pCi/g						
Protactinium-231	UI	0.00	+/-0.681	0.845	0.391	+/-0.706		pCi/g						
Radium-226		0.885	+/-0.168	0.157	0.0721	+/-0.183		pCi/g						
Radium-228		0.960	+/-0.296	0.213	0.0913	+/-0.327		pCi/g						
Thallium-208		0.373	+/-0.0694	0.058	0.0258	+/-0.0758		pCi/g						
Tin-126	UI	0.00	+/-0.129	0.132	0.063	+/-0.130		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		11.3	+/-3.57	3.95	1.70	+/-4.27	4.00	pCi/g		JXB7	01/04/16	0928	1532748	3
Beta		23.7	+/-2.82	2.28	1.03	+/-4.36	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	DRS1	12/09/15	1310	1529593

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5 2.3/Ga-01-R
3	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

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Certificate of Analysis

Company : MIW Corporation
Address : 15 Hazelwood Drive
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Report Date: January 5, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.4.1
Sample ID: 387031002

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Le	TPU	RL	Units	DF	Analyst	Date Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test											Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Technical Services
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: March 8, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.4.2
 Sample ID: 392062004
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 21.5%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>Gamma with Ingrowth "Dry Weight Corrected"</i>														
Actinium-227	U	0.0447	+/-0.315	0.608	0.285	+/-0.316		pCi/g		MXRI	03/07/16	1407	1547923	1
Antimony-125	U	-0.0116	+/-0.118	0.218	0.0999	+/-0.118		pCi/g						
Bismuth-212	UI	0.00	+/-0.931	1.35	0.616	+/-0.992		pCi/g						
Bismuth-214		0.730	+/-0.178	0.144	0.0647	+/-0.190		pCi/g						
Cesium-137		0.334	+/-0.0957	0.0857	0.0387	+/-0.100	0.100	pCi/g						
Cobalt-60	U	0.00714	+/-0.0433	0.090	0.0383	+/-0.0434		pCi/g						
Europium-154	U	0.0467	+/-0.111	0.244	0.104	+/-0.113		pCi/g						
Lead-212		1.18	+/-0.147	0.126	0.0592	+/-0.182		pCi/g						
Lead-214		1.12	+/-0.198	0.368	0.178	+/-0.221		pCi/g						
Potassium-40		14.0	+/-1.74	0.851	0.360	+/-2.11		pCi/g						
Protactinium-231	UI	0.00	+/-0.830	0.997	0.460	+/-0.861		pCi/g						
Radium-226		0.730	+/-0.178	0.144	0.0647	+/-0.190		pCi/g						
Radium-228		0.886	+/-0.275	0.262	0.113	+/-0.302		pCi/g						
Thallium-208		0.292	+/-0.0725	0.0896	0.0411	+/-0.077		pCi/g						
Tin-126	U	0.0408	+/-0.126	0.198	0.0945	+/-0.127		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		16.7	+/-4.33	3.94	1.62	+/-5.40	4.00	pCi/g		JXB7	03/02/16	1636	1548369	2
Beta		24.6	+/-3.57	3.74	1.73	+/-4.99	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/26/16	1449	1547874

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300, 4.5.2.3/Ga-01-R
2	EPA 900.0/SW846.9310/SM 7110B Modified

Surrogate/Tracer Recovery Test **Batch ID Recovery% Acceptable Limits**

GEL LABORATORIES LLC

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Certificate of Analysis

Company : MJW Technical Services
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: March 8, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.4.2
Sample ID: 392062004

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date Time	Batch	Mtd.
Surrogate/Tracer	Recovery	Test						Batch ID	Recovery%	Acceptable Limits			

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: January 5, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.5.1
 Sample ID: 387031003
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 08-DEC-15
 Collector: Client
 Moisture: 31.6%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Gravimetric Solids

ASTM D 2216 % Moisture "As Received"

Moisture		31.6						percent		DRS1	12/09/15	1310	1529593	1
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Actinium-227	U	0.00948	+/-0.370	0.679	0.320	+/-0.370		pCi/g		RXF2	01/04/16	1010	1529721	2
Antimony-125	U	-0.0533	+/-0.129	0.236	0.109	+/-0.131		pCi/g						
Bismuth-212	U	0.00	+/-1.14	1.70	0.790	+/-1.34		pCi/g						
Bismuth-214		0.964	+/-0.202	0.158	0.071	+/-0.219		pCi/g						
Cesium-137		0.399	+/-0.103	0.0905	0.0408	+/-0.109	0.100	pCi/g						
Cobalt-60	U	-0.00549	+/-0.0532	0.101	0.0433	+/-0.0533		pCi/g						
Europium-154	U	-0.0764	+/-0.160	0.281	0.121	+/-0.163		pCi/g						
Lead-212		1.06	+/-0.155	0.159	0.0756	+/-0.185		pCi/g						
Lead-214		1.23	+/-0.210	0.177	0.0818	+/-0.238		pCi/g						
Potassium-40		14.5	+/-1.70	0.810	0.334	+/-2.11		pCi/g						
Protactinium-231	U	0.00	+/-0.679	1.39	0.654	+/-0.884		pCi/g						
Radium-226		0.964	+/-0.202	0.158	0.071	+/-0.219		pCi/g						
Radium-228		0.816	+/-0.423	0.363	0.162	+/-0.439		pCi/g						
Thallium-208		0.316	+/-0.100	0.0904	0.0412	+/-0.104		pCi/g						
Tin-126	U	0.0594	+/-0.147	0.221	0.106	+/-0.149		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, solid "Dry Weight Corrected"

Alpha		18.9	+/-4.33	3.91	1.65	+/-5.66	4.00	pCi/g		JXB7	01/04/16	1545	1532748	3
Beta		23.7	+/-3.13	2.85	1.31	+/-4.61	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	DRS1	12/09/15	1310	1529593

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5.2.3/Ga-01-R
3	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
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Buffalo, New York 14228

Report Date: January 5, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.5.1
Sample ID: 387031003

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Technical Services
 Address : 15 Hazelwood Drive
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Report Date: March 8, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Project: MJWC00115
 Client ID: MJWC001

Client Sample ID: 4.5.B.R.5.2
 Sample ID: 392062005
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 24.8%

Parameter	Qualifier	Result	Uncertainty	MDC	Le	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Gamma Spec Analysis

Gamma with Ingrowth "Dry Weight Corrected"

Actinium-227	UI	0.00	+/-0.290	0.586	0.277	+/-0.326		pCi/g		MXR1	03/07/16	1407	1547923	1
Antimony-125	U	-0.0608	+/-0.114	0.198	0.091	+/-0.117		pCi/g						
Bismuth-212	UI	0.00	+/-1.06	1.43	0.666	+/-1.61		pCi/g						
Bismuth-214		0.949	+/-0.181	0.163	0.0751	+/-0.198		pCi/g						
Cesium-137		0.769	+/-0.119	0.0737	0.0332	+/-0.135	0.100	pCi/g						
Cobalt-60	U	0.0128	+/-0.042	0.0864	0.0374	+/-0.0424		pCi/g						
Europium-154	U	0.0552	+/-0.117	0.246	0.107	+/-0.119		pCi/g						
Lead-212		1.19	+/-0.137	0.117	0.0553	+/-0.169		pCi/g						
Lead-214		1.08	+/-0.218	0.355	0.172	+/-0.236		pCi/g						
Potassium-40		14.8	+/-1.53	0.565	0.226	+/-2.01		pCi/g						
Protactinium-231	UI	0.00	+/-0.860	1.02	0.477	+/-0.877		pCi/g						
Radium-226		0.949	+/-0.181	0.163	0.0751	+/-0.198		pCi/g						
Radium-228		1.06	+/-0.312	0.256	0.113	+/-0.350		pCi/g						
Thallium-208		0.345	+/-0.0825	0.0748	0.0341	+/-0.0876		pCi/g						
Tin-126	UI	0.00	+/-0.116	0.169	0.0808	+/-0.119		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, solid "Dry Weight Corrected"

Alpha		15.6	+/-3.89	3.47	1.43	+/-4.91	4.00	pCi/g		JXB7	03/02/16	1638	1548369	2
Beta		34.6	+/-3.76	3.97	1.88	+/-6.24	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/26/16	1449	1547874

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300.4 5.2 3/Ga-01-R
2	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MJW Technical Services
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: March 8, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.5.2
Sample ID: 392062005

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer	Recovery	Test											Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: January 5, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.6.1
 Sample ID: 387031004
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 08-DEC-15
 Collector: Client
 Moisture: 32.1%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		32.1						percent		DRS1	12/09/15	1310	1529593	1
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.175	+/-0.326	0.583	0.271	+/-0.337		pCi/g		RXF2	01/04/16	1011	1529721	2
Antimony-125	U	-0.0295	+/-0.131	0.237	0.108	+/-0.132		pCi/g						
Bismuth-212	UI	0.00	+/-1.30	1.76	0.815	+/-1.47		pCi/g						
Bismuth-214		0.924	+/-0.203	0.157	0.070	+/-0.217		pCi/g						
Cesium-137		1.43	+/-0.163	0.0731	0.0317	+/-0.200	0.100	pCi/g						
Cobalt-60	U	0.0171	+/-0.0437	0.0961	0.0405	+/-0.0444		pCi/g						
Eurprium-154	U	-0.0775	+/-0.157	0.285	0.122	+/-0.161		pCi/g						
Lead-212		0.940	+/-0.150	0.143	0.0671	+/-0.171		pCi/g						
Lead-214		0.983	+/-0.226	0.379	0.183	+/-0.241		pCi/g						
Potassium-40		13.4	+/-1.76	0.826	0.337	+/-2.10		pCi/g						
Protactinium-231	U	0.309	+/-0.689	1.25	0.584	+/-0.707		pCi/g						
Radium-226		0.924	+/-0.203	0.157	0.070	+/-0.217		pCi/g						
Radium-228		1.19	+/-0.345	0.299	0.129	+/-0.379		pCi/g						
Thallium-208		0.277	+/-0.0929	0.086	0.0387	+/-0.0957		pCi/g						
Tin-126	U	-0.101	+/-0.124	0.206	0.0976	+/-0.133		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		12.7	+/-4.01	3.78	1.50	+/-4.72	4.00	pCi/g		JXB7	01/04/16	0929	1532748	3
Beta		24.5	+/-3.39	2.47	1.08	+/-4.97	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	DRS1	12/09/15	1310	1529593

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5.2.3/Ga-01-R
3	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: January 5, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.6.1
Sample ID: 387031004

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Technical Services
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228
 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes
 Client Sample ID: 4.5.B.R.6.2
 Sample ID: 392062006
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 22.9%

Report Date: March 8, 2016

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>Gamma with Ingrowth "Dry Weight Corrected"</i>														
Actinium-227	U	0.155	+/-0.235	0.411	0.194	+/-0.246		pCi/g		MXR1	03/07/16	1408	1547923	1
Antimony-125	U	0.0262	+/-0.0964	0.174	0.0817	+/-0.0971		pCi/g						
Bismuth-212	UI	0.00	+/-0.744	1.05	0.490	+/-0.911		pCi/g						
Bismuth-214		0.876	+/-0.140	0.114	0.0528	+/-0.157		pCi/g						
Cesium-137		0.650	+/-0.0771	0.0628	0.029	+/-0.0933	0.100	pCi/g						
Cobalt-60	U	0.027	+/-0.0397	0.0798	0.0364	+/-0.0415		pCi/g						
Europium-154	U	-0.0738	+/-0.110	0.192	0.0862	+/-0.116		pCi/g						
Lead-212		1.07	+/-0.117	0.0943	0.0446	+/-0.145		pCi/g						
Lead-214		0.913	+/-0.153	0.131	0.0615	+/-0.171		pCi/g						
Potassium-40		14.4	+/-1.28	0.489	0.210	+/-1.79		pCi/g						
Protactinium-231	UI	0.00	+/-0.745	0.816	0.384	+/-0.768		pCi/g						
Radium-226		0.876	+/-0.140	0.114	0.0528	+/-0.157		pCi/g						
Radium-228		0.857	+/-0.249	0.229	0.105	+/-0.284		pCi/g						
Thallium-208		0.276	+/-0.0694	0.0579	0.0268	+/-0.0731		pCi/g						
Tin-126	U	0.0516	+/-0.126	0.146	0.070	+/-0.128		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, solid "Dry Weight Corrected"

Alpha		9.72	+/-3.45	3.85	1.60	+/-3.95	4.00	pCi/g		JXB7	03/03/16	1244	1548369	2
Beta		22.0	+/-3.28	3.12	1.42	+/-4.51	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/26/16	1449	1547874

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300, 4 5 2.3/Ga-01-R
2	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery Test

Batch ID Recovery% Acceptable Limits

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Certificate of Analysis

Company : MJW Technical Services
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: March 8, 2016

Contact: Ms. Laurie Loscy

Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.6.2
Sample ID: 392062006

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Le	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Surrogate/Tracer Recovery	Test							Batch ID	Recovery%	Acceptable Limits				

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: January 5, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.7.1
 Sample ID: 387031005
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 08-DEC-15
 Collector: Client
 Moisture: 25.4%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		25.4						percent	DRS1	12/09/15	1310	1529593		1
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.107	+/-0.225	0.450	0.211	+/-0.231		pCi/g	RXF2	01/04/16	1011	1529721		2
Antimony-125	U	0.0506	+/-0.0948	0.186	0.0861	+/-0.0976		pCi/g						
Bismuth-212	UI	0.00	+/-0.739	1.34	0.623	+/-1.01		pCi/g						
Bismuth-214		0.899	+/-0.153	0.123	0.0557	+/-0.170		pCi/g						
Cesium-137		0.659	+/-0.094	0.0726	0.0331	+/-0.108	0.100	pCi/g						
Cobalt-60	U	0.0251	+/-0.0344	0.0764	0.0332	+/-0.0363		pCi/g						
Europium-154	U	-0.00375	+/-0.134	0.255	0.114	+/-0.134		pCi/g						
Lead-212		1.18	+/-0.120	0.0966	0.0454	+/-0.199		pCi/g						
Lead-214		1.09	+/-0.157	0.307	0.149	+/-0.189		pCi/g						
Potassium-40		13.9	+/-1.51	0.629	0.264	+/-1.95		pCi/g						
Protactinium-231	UI	0.00	+/-0.901	0.835	0.389	+/-0.919		pCi/g						
Radium-226		0.899	+/-0.153	0.123	0.0557	+/-0.170		pCi/g						
Radium-228		1.18	+/-0.272	0.191	0.0814	+/-0.327		pCi/g						
Thallium-208		0.316	+/-0.0828	0.0542	0.0242	+/-0.087		pCi/g						
Tin-126	UI	0.00	+/-0.0801	0.0911	0.0434	+/-0.082		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		9.91	+/-3.43	3.99	1.69	+/-3.94	4.00	pCi/g	JXB7	01/04/16	0928	1532748		3
Beta		19.0	+/-2.73	2.67	1.23	+/-3.84	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	DRS1	12/09/15	1310	1529593

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4 5.2.3/Ga-01-R
3	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: January 5, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.7.1
Sample ID: 387031005

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Le	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Technical Services
 Address : 15 Hazelwood Drive
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Report Date: March 8, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Project: MJWC00115
 Client ID: MJWC001

Client Sample ID: 4.5.B.R.7.2
 Sample ID: 392062007
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 20.7%

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>Gamma with Ingrowth "Dry Weight Corrected"</i>														
Actinium-227	U	0.122	+/-0.253	0.467	0.216	+/-0.259		pCi/g		MXR1	03/07/16	1408	1547923	1
Antimony-125	U	0.0659	+/-0.116	0.238	0.109	+/-0.119		pCi/g						
Bismuth-212	UI	0.00	+/-0.948	1.49	0.677	+/-1.05		pCi/g						
Bismuth-214		0.847	+/-0.202	0.193	0.088	+/-0.214		pCi/g						
Cesium-137		0.340	+/-0.104	0.0943	0.0422	+/-0.108	0.100	pCi/g						
Cobalt-60	U	0.0264	+/-0.0668	0.140	0.0617	+/-0.0678		pCi/g						
Europium-154	UI	0.00	+/-0.225	0.428	0.191	+/-0.263		pCi/g						
Lead-212		1.04	+/-0.128	0.114	0.0535	+/-0.172		pCi/g						
Lead-214		1.00	+/-0.183	0.170	0.0786	+/-0.203		pCi/g						
Potassium-40		14.6	+/-2.00	0.941	0.387	+/-2.39		pCi/g						
Protactinium-231	U	0.444	+/-0.605	1.09	0.509	+/-0.646		pCi/g						
Radium-226		0.847	+/-0.202	0.193	0.088	+/-0.214		pCi/g						
Radium-228		0.951	+/-0.289	0.384	0.170	+/-0.313		pCi/g						
Thallium-208		0.373	+/-0.0984	0.0868	0.039	+/-0.103		pCi/g						
Tin-126	UI	0.00	+/-0.0887	0.101	0.0482	+/-0.0905		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A.B. solid "Dry Weight Corrected"

Alpha		12.7	+/-3.24	3.50	1.53	+/-4.12	4.00	pCi/g		JXB7	03/02/16	1636	1548369	2
Beta		19.7	+/-2.97	3.75	1.79	+/-4.08	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/26/16	1449	1547874

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300.4 5 2 3/Ga-01-R
2	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery Test

Batch ID Recovery% Acceptable Limits

GEL LABORATORIES LLC

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Certificate of Analysis

Company : MJW Technical Services
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: March 8, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.7.2
Sample ID: 392062007

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RI	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: January 5, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.8.1
 Sample ID: 387031006
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 08-DEC-15
 Collector: Client
 Moisture: 27.1%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		27.1						percent		DRS1	12/09/15	1310	1529593	1
Rad Gamma Spec Analysis														
<i>Gammaspac, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.196	+/-0.322	0.558	0.261	+/-0.335		pCi/g		RXF2	01/04/16	1011	1529721	2
Antimony-125	U	0.00263	+/-0.101	0.193	0.0883	+/-0.101		pCi/g						
Bismuth-212		1.78	+/-0.869	0.792	0.342	+/-0.887		pCi/g						
Bismuth-214		0.934	+/-0.173	0.141	0.0637	+/-0.189		pCi/g						
Cesium-137		1.36	+/-0.145	0.0855	0.0388	+/-0.184	0.100	pCi/g						
Cobalt-60	UI	0.0204	+/-0.0439	0.0937	0.0407	+/-0.0449		pCi/g						
Europium-154	U	0.0607	+/-0.128	0.271	0.119	+/-0.131		pCi/g						
Lead-212		1.06	+/-0.137	0.131	0.0618	+/-0.165		pCi/g						
Lead-214		1.27	+/-0.196	0.377	0.183	+/-0.224		pCi/g						
Potassium-40		14.8	+/-1.62	0.597	0.237	+/-2.06		pCi/g						
Protactinium-231	UI	0.00	+/-1.07	1.01	0.470	+/-1.10		pCi/g						
Radium-226		0.934	+/-0.173	0.141	0.0637	+/-0.189		pCi/g						
Radium-228		1.24	+/-0.303	0.263	0.115	+/-0.354		pCi/g						
Thallium-208		0.216	+/-0.0891	0.0817	0.0373	+/-0.091		pCi/g						
Tin-126	UI	0.00	+/-0.157	0.157	0.074	+/-0.158		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A-B, solid "Dry Weight Corrected"</i>														
Alpha		15.0	+/-3.94	3.90	1.64	+/-4.92	4.00	pCi/g		JXB7	01/04/16	0931	1532748	3
Beta		23.0	+/-3.34	3.58	1.67	+/-4.77	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	DRS1	12/09/15	1310	1529593

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4 5 2 3/Ga-01-R
3	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: January 5, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.5.B.R.8.1
Sample ID: 387031006

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer	Recovery	Test											Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Technical Services
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228
 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes
 Client Sample ID: 4.5.B.R.8.2
 Sample ID: 392062008
 Matrix: Soil
 Collect Date: 01-DEC-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 21.7%

Report Date: March 8, 2016

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPC	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Gamma Spec Analysis

Gamma with Ingrowth "Dry Weight Corrected"

Actinium-227	U	-0.0341	+/-0.314	0.500	0.235	+/-0.315		pCi/g		MXR1	03/07/16	1408	1547923	1
Antimony-125	U	-0.0319	+/-0.116	0.214	0.099	+/-0.117		pCi/g						
Bismuth-212	UI	0.00	+/-1.00	1.50	0.697	+/-1.19		pCi/g						
Bismuth-214		0.997	+/-0.191	0.149	0.0681	+/-0.209		pCi/g						
Cesium-137		0.593	+/-0.0916	0.086	0.0393	+/-0.104	0.100	pCi/g						
Cobalt-60	U	0.00102	+/-0.0459	0.0901	0.039	+/-0.0459		pCi/g						
Europium-154	U	-0.0811	+/-0.144	0.255	0.111	+/-0.149		pCi/g						
Lead-212		1.29	+/-0.133	0.107	0.0505	+/-0.206		pCi/g						
Lead-214		1.01	+/-0.191	0.154	0.0717	+/-0.210		pCi/g						
Potassium-40		16.1	+/-1.62	0.593	0.237	+/-2.25		pCi/g						
Protactinium-231	UI	0.00	+/-0.716	0.996	0.467	+/-0.775		pCi/g						
Radium-226		0.997	+/-0.191	0.149	0.0681	+/-0.209		pCi/g						
Radium-228		0.853	+/-0.287	0.295	0.131	+/-0.308		pCi/g						
Thallium-208		0.245	+/-0.0932	0.0843	0.0388	+/-0.0955		pCi/g						
Tin-126	UI	0.00	+/-0.091	0.0937	0.0447	+/-0.0938		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A-B, solid "Dry Weight Corrected"

Alpha		18.2	+/-3.64	3.05	1.29	+/-5.09	4.00	pCi/g		JXB7	03/02/16	1637	1548369	2
Beta		31.5	+/-3.03	3.22	1.54	+/-5.34	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/26/16	1449	1547874

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300, 4.5 2.3/Ga-01-R
2	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MJW Technical Services
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228
Contact: Ms. Laurie Losey
Project: Soil Radioisotopes
Client Sample ID: 4.5.B.R.8.2
Sample ID: 392062008

Report Date: March 8, 2016

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Surrogate/Tracer	Recovery	Test						Batch ID	Recovery%	Acceptable Limits				

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).