Whole-Rock Geochemical Data for the Salt Lake City North, Sugar House, and Draper Quadrangles, Utah

by

Adam P. McKean

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contact
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UTAH GEOLOGICAL SURVEY
contact
1594 W. North Temple, Suite 3110
Salt Lake City, UT 84116
telephone: 801-537-3300
website: geology.utah.gov

INTRODUCTION

This open-file report makes available data from laboratory analyses completed to determine the chemical composition of igneous rock samples collected during geologic mapping funded or supported by the U.S. Geological Survey (USGS) National Cooperative Geologic Mapping Program, and the Utah Geological Survey (UGS) (see McKean, in preparation a and b; McKean and Solomon, in preparation). Table 1 provides sample number, geologic map symbol, unit name, rock type, and rock name, as well as sample location in (NAD 83) UTM and latitude and longitude. The samples were prepared by ALS Minerals, Inc., (Reno, Nevada, and North Vancouver, British Columbia) with analyses performed under contract to the UGS. Analytical methods used are at ALS Minerals online (https://www.alsglobal.com/myals/news/2016/1/geochemistry-2016-schedule-of-services-and-fees-now-available and https://www.alsglobal.com/-/media/als/resources/services-and-products/geochemistry/fee-schedules/als-geochemistry-fee-schedule-usd.pdf). These data are technical in nature and proper interpretation requires training in applicable geochemical techniques.

The analytical data can be accessed electronically as an Excel document attached to the PDF file of this report and available at http://ugspub.nr.utah.gov/publications/open_file_reports/ofr-663/ofr-663.xlsx.

DISCLAIMER

This open-file release is intended as a data repository for technical analytical information gathered in support of geologic mapping of the Salt Lake City North, Sugar House, and Draper quadrangles. These data may not conform to UGS technical or editorial standards. Therefore, it may be premature for an individual or group to take actions based on the contents of this report. The Utah Department of Natural Resources, Utah Geological Survey, makes no warranty, expressed or implied, regarding its suitability for a particular use. The Utah Department of Natural Resources, Utah Geological Survey, shall not be liable under any circumstances for any direct, indirect, special, incidental, or consequential damages with respect to claims by users of this product.

The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

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Table 1. Major- and trace-element analyses of volcanic rocks from the Salt Lake City North, Sugar House, and Draper quadrangles, Utah.

Sample	Map Unit	Unit Name	Rock Type	Rock Name	X_UTM	Y_UTM	Latitude	Longitude	7.5' Quadrangle	Map Reference
SLCN2014-279-2	Tv	Volcanic breccia - clast	volcaniclastic	latite	423845	4521077	40.83720	-111.90329	Salt Lake City North	[1]
SLCN2014-279-3	Tv	Volcanic breccia - clast	volcaniclastic	latite	423845	4521077	40.83720	-111.90329	Salt Lake City North	[1]
SLCN2014-283-1	Tv	Volcanic breccia - clast	volcaniclastic	dacite	426067	4516483	40.79602	-111.87639	Salt Lake City North	[1]
SLCN2014-283-2	Tv	Volcanic breccia - clast	volcaniclastic	dacite	426067	4516483	40.79602	-111.87639	Salt Lake City North	[1]
SLCN2014-284	Tv	Volcanic breccia - clast	volcaniclastic	latite	426118	4515821	40.79006	-111.87571	Fort Douglas	[1]
DP2014-74	Tfd	Felsic dike	dike	rhyolite	433865	4493501	40.58966	-111.78154	Draper	[2]
DP2015-309	Tgd	Granite dike	dike	granite	435757	4493449	40.58934	-111.75918	Draper	[2]
SH2015-7	Tsd	Silicic dikes	dike	rhyolite	436329	4498899	40.63848	-111.75297	Sugar House	[3]
SH2015-23	Tsd	Silicic dikes	dike	dacite	434439	4497734	40.62784	-111.77520	Sugar House	[3]
DP2014-52	Tind	Intermediate dike	dike	latite	433956	4494067	40.59477	-111.78052	Draper	[2]
SH2015-9	Tind	Intermediate dikes and sills	sill	latite	435893	4497453	40.62542	-111.75798	Sugar House	[3]
SH2015-13	Tind	Intermediate dikes and sills	sill	latite	435399	4497651	40.62717	-111.76384	Sugar House	[3]
SH2015-41	Tind	Intermediate dikes and sills	dike	latite	435498	4502389	40.66986	-111.76316	Sugar House	[3]
SH2016-203	Tind	Intermediate dikes and sills	dike	latite	433861	4502346	40.66934	-111.78252	Sugar House	[3]
DP2015-277	Tld	Lamprophyric dikes	dike	trachydactite	434843	4495992	40.61218	-111.77024	Draper	[2]
DP2015-463	Tld	Lamprophyric dikes	dike	trachydactite	434313	4497007	40.62128	-111.77661	Draper	[2]
SH2015-67	Tld	Lamprophyric dikes and sills	sill	trachydactite	434724	4504788	40.69141	-111.77256	Sugar House	[3]
SH2015-68	Tld	Lamprophyric dikes and sills	dike	trachydactite	433743	4506728	40.70880	-111.78438	Sugar House	[3]
SH2015-73	Tld	Lamprophyric dikes and sills	dike	trachydactite	432964	4509169	40.73073	-111.79386	Sugar House	[3]
DP2014-188	Tlc	Little Cottonwood stock	intrusive	granodiorite	434283	4490542	40.56304	-111.77629	Draper	[2]
DP2015-212	Tlc	Little Cottonwood stock	intrusive	granite	434148	4494501	40.59869	-111.77830	Draper	[2]
DP2015-255	Tlc	Little Cottonwood stock	intrusive	quartz monzonite	435104	4495145	40.60457	-111.76707	Draper	[2]
DP2015-256	Tlc	Little Cottonwood stock	intrusive	granite	434754	4496038	40.61259	-111.77130	Draper	[2]
DP2015-377	Tlc	Little Cottonwood stock	intrusive	granodiorite	435680	4490214	40.56020	-111.75976	Draper	[2]
DP2015-378	Tlc	Little Cottonwood stock	intrusive	granite	436090	4491711	40.57371	-111.75507	Draper	[2]
DP2014-176	Tdi	Diorite	intrusive	granodiorite	433589	4490761	40.56496	-111.78451	Draper	[2]
DP2014-178	Tdi	Diorite	intrusive	gabbroic diorite	433767	4490727	40.56467	-111.78241	Draper	[2]
DP2014-179	Tdi	Diorite	intrusive	gabbroic diorite	433859	4490699	40.56442	-111.78132	Draper	[2]
DP2015-191	Zlwam	Amphibolite of the Little Willow Formation	metamorphic	para-amphiolite?	433257	4493017	40.58526	-111.78867	Draper	[2]
DP2015-211	Zlwam	Amphibolite of the Little Willow Formation	metamorphic	para-amphiolite?	433817	4493553	40.59013	-111.78211	Draper	[2]
DP2015-219	Zlwam	Amphibolite of the Little Willow Formation	metamorphic	para-amphiolite?	433316	4493760	40.59195	-111.78805	Draper	[2]

Notes:

Major oxides reported in weight percent and trace elements reported in parts per million (ppm)
Location data based on NAD83
Rock name using total alkali-silica diagram of LeBas and others (1986), with plutonic (holocrystalline) names from Middlemost (1994), for values normalized to 100% based on a volatile free basis, using LOI, data not shown here
LOI is loss on ignition at 1000ºC

Analysis Source:

Analyses by ALS Minerals, Inc., North Vancouver, British Columbia, Canada; major oxides results from x-ray fluorescence (XRF), trace elements by inductively coupled plasma-mass spectrometry (ICP-MS), and 4 acid dissolution ICP for base metals (marked with an *)

Map Reference:

[1]McKean, in preparation a
[2]McKean and Solomon, in preparation
[3]McKean, in preparation b

Sample	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	Na_2O	K_2O	Cr_2O_3	TiO_2	MnO	P_2O_5	SrO	BaO	LOI	Total	Ag*	As*	Ba	Cd*	Ce	Co*	Cr
SLCN2014-279-2	59.04	15.36	6.44	6.22	2.41	3.59	3.48	0.02	0.74	0.1	0.285	0.08	0.2	1.68	99.64	<0.5	9	1835	<0.5	108	19	200
SLCN2014-279-3	60.03	15.3	6.46	5.75	2.66	3.53	3.48	0.03	0.74	0.09	0.279	0.08	0.19	1.12	99.73	<0.5	5	1875	<0.5	109.5	20	210
SLCN2014-283-1	64.36	14.85	4.96	4.06	1.98	3.62	3.56	0.01	0.59	0.05	0.251	0.09	0.19	1.18	99.74	<0.5	9	1850	<0.5	104	13	130
SLCN2014-283-2	64.21	14.92	5.07	4.06	1.87	3.56	3.39	0.02	0.6	0.05	0.257	0.09	0.2	1.42	99.7	<0.5	10	1910	<0.5	109.5	13	130
SLCN2014-284	61.16	14.68	6.27	4.89	2.33	3.69	3.43	0.04	0.73	0.07	0.33	0.1	0.23	2.17	100.1	<0.5	6	2160	<0.5	123.5	20	230
DP2014-74	70.04	15.06	2.79	2.18	0.98	4.55	2.74	<0.01	0.32	0.05	0.138	0.07	0.21	0.4	99.51	<0.5	<5	1865	<0.5	110	4	20
DP2015-309	74.92	13.65	0.61	0.38	0.12	2.75	5.76	<0.01	0.05	0.03	0.055	<0.01	0.03	0.63	98.98	<0.5	<5	213	<0.5	26.1	2	10
SH2015-7	67.69	14.98	2.76	2.49	0.49	4.16	2.88	<0.01	0.33	0.04	0.145	0.03	0.11	3.48	99.59	<0.5	<5	855	<0.5	69.3	5	20
SH2015-23	64.53	14.73	3.36	3.62	0.53	3.78	2.9	<0.01	0.38	0.06	0.176	0.05	0.22	4.56	98.89	<0.5	<5	2050	<0.5	74.9	7	30
DP2014-52	56.08	14.89	8.35	5.62	5.06	3.31	3.48	0.02	1.01	0.14	0.477	0.1	0.17	0.98	99.7	<0.5	<5	1525	<0.5	113.5	26	140
SH2015-9	55.37	15.73	7.69	5.35	3.74	5.19	1.1	0.01	1.05	0.14	0.665	0.28	0.62	3.24	100.2	<0.5	9	5490	<0.5	352	17	70
SH2015-13	56	15.15	7.23	5.41	3.43	3.56	4.13	0.01	1.09	0.12	0.62	0.25	0.52	1.75	99.28	<0.5	5	4740	<0.5	334	17	80
SH2015-41	52.73	11.87	4.97	7.57	1.42	0.08	9.29	0.02	2.03	0.04	2.131	0.1	0.11	6	98.38	<0.5	6	766	0.6	614	11	110
SH2016-203	56.59	14.27	6.41	5.48	4.94	3.88	3.71	0.02	0.94	0.08	0.422	0.08	0.19	3.42	100.5	<0.5	<5	1750	<0.5	165.5	25	160
DP2015-277	58.13	14.15	4.02	4.26	1.81	2.46	7.54	0.01	1.33	0.06	0.641	0.05	0.43	4.14	99.03	<0.5	<5	4130	<0.5	259	10	70
DP2015-463	59.19	13.97	4.74	3.3	2.5	2.34	8.81	0.01	1.34	0.06	0.7	0.05	0.56	1.81	99.4	<0.5	<5	5090	<0.5	323	10	80
SH2015-67	62	15.42	3.91	1	0.06	0.23	10.72	0.01	1.85	<0.01	0.733	0.07	0.56	2.32	98.88	1.3	82	4970	<0.5	219	8	90
SH2015-68	62.06	13.12	3.35	1.15	2.67	0.82	11.28	0.01	1.62	0.03	0.613	0.09	0.7	1.6	99.12	0.9	5	6260	<0.5	166	8	80
SH2015-73	63.09	13.61	3.28	1.58	1.4	0.54	11.78	0.01	1.67	0.02	0.598	0.1	0.44	1.5	99.64	1.3	<5	4050	<0.5	186	7	60
DP2014-188	68.09	14.95	4.14	3.06	1.72	3.94	2.6	<0.01	0.49	0.06	0.252	0.08	0.11	0.48	99.97	<0.5	<5	948	<0.5	76.2	10	30
DP2015-212	71.27	15.25	1.07	1.8	0.31	4.54	3.59	<0.01	0.19	0.02	0.115	0.11	0.53	0.48	99.25	<0.5	<5	4970	<0.5	101	2	20
DP2015-255	64.13	16.21	3.87	3.6	1.49	5.27	2.48	<0.01	0.47	0.07	0.294	0.16	0.17	1.05	99.26	<0.5	<5	1580	<0.5	111.5	8	20
DP2015-256	69.39	15.35	2.47	2.38	0.87	4.91	2.8	<0.01	0.29	0.04	0.13	0.11	0.15	0.51	99.38	<0.5	<5	1390	<0.5	66.6	4	30
DP2015-377	67.98	14.83	3.24	2.88	1.35	3.91	3.65	<0.01	0.47	0.06	0.194	0.06	0.17	0.38	99.15	<0.5	<5	1555	<0.5	92	8	30
DP2015-378	68.81	14.56	3.17	2.91	1.29	3.98	3.19	<0.01	0.43	0.05	0.188	0.06	0.11	0.38	99.13	<0.5	<5	1065	<0.5	94.5	8	30
DP2014-176	66.26	13.44	6.23	0.46	3.63	2.93	2.76	<0.01	0.66	0.08	0.283	0.02	0.11	2.6	99.48	<0.5	<5	980	<0.5	118.5	19	60
DP2014-178	55.71	14.31	9.88	5.4	5.6	2.87	2.57	0.04	1.1	0.18	0.503	0.06	0.15	1.04	99.41	<0.5	<5	1330	<0.5	71.7	25	260
DP2014-179	56.85	14.48	8.65	5.04	4.08	3.08	2.72	0.01	1.05	0.12	0.549	0.1	0.23	3	99.94	<0.5	<5	2040	<0.5	139	23	70
DP2015-191	51.54	14.61	10.99	9.03	7.97	2.85	0.89	<0.01	0.63	0.18	0.054	0.02	0.02	1.01	99.81	<0.5	<5	147.5	<0.5	11.3	51	40
DP2015-211	52.03	14.94	11.71	8.06	7.27	3.03	0.76	<0.01	0.63	0.21	0.058	0.01	0.02	1.42	100.2	<0.5	<5	128.5	<0.5	13.3	50	20
DP2015-219	51.87	13.98	13.82	8.08	5.99	2.99	0.85	<0.01	0.98	0.23	0.084	0.01	0.02	1.12	100.1	<0.5	<5	164	0.6	21.3	53	10

Sample	Cs	Cu*	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Li*	Lu	Mo*	Nb	Nd	Ni*	Pb*	Pr	Rb	Sc*	Sm	Sn	Sr	Ta	Tb	Th
SLCN2014-279-2	0.39	33	3.31	1.47	1.7	21.6	4.86	6	0.58	56.2	10	0.21	<1	12.2	40.2	57	30	11	72.9	13	6.49	1	762	0.8	0.65	18
SLCN2014-279-3	0.44	28	3.21	1.55	1.71	21.9	5.24	5.8	0.55	58.4	10	0.22	<1	12.7	41	62	27	11.35	81.8	14	6.7	1	767	0.9	0.69	18.25
SLCN2014-283-1	2.21	8	2.87	1.31	1.5	21.8	4.15	5.8	0.5	60	20	0.21	<1	11.6	37.7	32	36	11.2	112	10	6.21	1	810	0.8	0.53	18.85
SLCN2014-283-2	2.19	11	2.93	1.41	1.46	22.1	4.26	6.4	0.51	62.3	10	0.19	<1	11.9	38.3	33	33	11.25	113.5	10	6.23	1	829	0.8	0.56	19.95
SLCN2014-284	1.94	28	3.43	1.57	1.78	21.9	5.68	6.4	0.62	69.9	10	0.21	<1	12.8	47.4	66	31	13.75	93.2	13	7.4	1	917	0.8	0.7	16.85
DP2014-74	0.77	12	2.18	1.49	1.27	20.4	3.5	5.1	0.44	62	10	0.19	<1	10.5	39.1	7	26	11.35	58.4	4	6.04	1	555	0.7	0.47	16.65
DP2015-309	4.37	1	1.75	1.45	0.43	19	1.78	3.1	0.48	11.2	10	0.3	<1	17	10.7	1	54	2.84	221	3	1.97	<1	58.4	1.4	0.33	16
SH2015-7	3.39	1	2.09	1.11	1.06	20.3	3.18	4.8	0.39	37.3	<10	0.15	<1	8.6	26.4	7	15	7.78	85.8	4	4.39	1	228	0.5	0.4	7.79
SH2015-23	3.03	1	2.32	1.31	1.13	20.5	3.45	4.6	0.46	39.4	<10	0.17	<1	8.9	30	11	14	8.55	96.9	5	4.87	1	431	0.5	0.45	7.58
DP2014-52	4.39	43	4.07	2.25	2.19	22	5.52	5.1	0.82	60.5	10	0.25	<1	13.1	48.3	41	26	12.3	94.2	17	8.53	2	812	0.7	0.89	15.15
SH2015-9	0.52	25	5.38	2.73	3.54	22.2	8.96	13.2	1.01	195.5	30	0.35	<1	28.2	112.5	43	64	35.1	20.6	13	15.7	2	2320	1.2	1.13	28.4
SH2015-13	0.64	24	5.2	2.4	3.41	23.7	9.36	17.8	0.96	181	20	0.33	<1	28.1	107	57	68	33.2	71.4	14	14.8	2	2170	1.2	1.09	26.6
SH2015-41	0.31	8	8.43	2.95	7.94	27.5	20.2	43.3	1.41	323	10	0.28	<1	45.6	234	109	66	67.5	132	7	34.7	3	860	2.2	2.16	38.6
SH2016-203	0.32	79	3.8	1.8	2.05	20.8	6.3	6.5	0.66	88	50	0.19	<1	16	62.6	56	66	17.75	73.2	13	9.64	2	766	0.9	0.78	22.8
DP2015-277	1.28	32	3.68	1.77	3.02	29.6	7.19	22.4	0.67	140	10	0.17	<1	30.4	94.1	47	23	26.7	167.5	6	12.65	2	438	1.4	0.84	21.1
DP2015-463	1.42	6	3.84	1.66	3.07	24.6	7.97	31.9	0.68	159	20	0.22	<1	32.4	107.5	58	54	33.1	180.5	8	14.15	3	389	1.3	0.86	26.1
SH2015-67	0.31	20	3.42	1.4	2.6	27.6	6.51	33.6	0.6	103.5	10	0.17	2	30.1	82.7	36	20	24.3	222	6	11.8	3	575	1.3	0.81	13.05
SH2015-68	0.23	8	2.59	1.02	1.98	28.3	5.09	39.3	0.41	84.8	60	0.11	<1	35.5	64.4	61	60	19.1	194	5	9.18	4	771	1.7	0.6	17.55
SH2015-73	0.22	6	2.66	1.1	1.96	29.9	5.15	38.7	0.47	94.4	10	0.14	<1	35.3	67.9	34	10	20.7	226	6	9.39	3	859	1.3	0.62	14.4
DP2014-188	1.59	1	1.96	1.17	1	21.6	2.91	4.6	0.46	41.5	20	0.16	<1	7.7	28.8	8	20	8.18	84.7	7	3.76	1	682	0.5	0.44	9.31
DP2015-212	0.47	2	0.49	0.37	0.79	20.5	1.03	4	0.06	67.9	<10	0.07	<1	2.8	24.5	1	29	9.08	56.3	1	2.35	<1	1005	0.1	0.13	9.49
DP2015-255	0.46	1	2.58	1.36	1.89	26.9	4.48	6	0.44	60.8	10	0.18	<1	9.6	42.9	9	26	12.3	51.5	5	6.51	1	1475	0.5	0.57	10.55
DP2015-256	1.76	6	1.59	0.85	1.12	24.6	2.6	4.2	0.3	36.6	20	0.11	<1	7.4	25.6	8	31	7.29	79.5	3	3.97	1	1015	0.4	0.3	6.96
DP2015-377	2.66	8	2.71	1.06	1.56	23.4	3.3	5.5	0.47	48.4	30	0.2	<1	16.5	34.5	12	30	10.4	111	5	4.9	1	590	1.2	0.44	24.2
DP2015-378	2.67	8	1.99	1.05	1.31	24.4	3.25	5.4	0.47	53.7	30	0.14	<1	15.5	34.4	12	30	10.1	108	4	5.02	1	587	1	0.44	18.45
DP2014-176	0.84	<1	2.16	1.33	1.64	21.8	4.42	5.1	0.41	63.6	20	0.14	<1	8.2	44.9	24	7	12.75	85.5	9	7.02	1	158.5	0.5	0.5	6.96
DP2014-178	1.37	1	6.94	4.07	2.9	23.5	9.06	5.6	1.5	26.7	30	0.51	<1	12.9	48.2	106	8	11	79.7	17	11.25	3	511	0.8	1.35	3.03
DP2014-179	2.07	2	5.6	2.61	2.51	24.5	7.89	6.6	1.03	70.2	30	0.38	<1	11.6	61.4	27	49	16.15	84.2	17	10.3	2	836	0.7	1.08	10.1
DP2015-191	0.27	153	2.22	1.26	0.71	18.3	2.18	1.6	0.45	4.7	10	0.19	<1	2.1	5.8	109	15	1.45	27.3	32	1.78	<1	180	0.1	0.44	1.44
DP2015-211	0.61	136	2.23	1.6	0.8	18.9	2.65	1.6	0.41	6.2	10	0.22	<1	2.2	8.1	86	18	1.61	24.2	31	1.92	1	149.5	0.2	0.46	1.48
DP2015-219	0.21	160	3.28	1.99	1.03	20.2	2.99	2	0.78	9.7	10	0.27	<1	3.5	12.2	45	16	2.68	22.1	37	3.12	2	149.5	0.2	0.52	2.24

Sample	Tl*	Tm	U	V	W	Y	Yb	Zn*	Zr
SLCN2014-279-2	<10	0.21	2.49	104	2	16	1.37	60	233
SLCN2014-279-3	<10	0.24	2.58	109	2	16.7	1.39	63	230
SLCN2014-283-1	<10	0.2	4	106	1	14.4	1.51	52	224
SLCN2014-283-2	<10	0.23	3.93	108	2	14.4	1.45	49	246
SLCN2014-284	<10	0.25	2.96	114	2	17.5	1.55	57	260
DP2014-74	<10	0.19	4.05	31	1	13.3	1.25	42	193
DP2015-309	<10	0.28	4.56	7	1	14.9	2.02	9	57
SH2015-7	<10	0.2	2.67	37	<1	11.1	1.05	54	165
SH2015-23	<10	0.18	2.49	47	<1	12.6	1.19	69	171
DP2014-52	<10	0.27	2.96	177	2	21.2	2.12	107	213
SH2015-9	<10	0.38	4.87	126	2	27.2	2.33	95	509
SH2015-13	10	0.35	4.67	121	1	25.5	2.34	98	687
SH2015-41	<10	0.34	6.5	92	1	36.1	2.04	291	1740
SH2016-203	<10	0.26	4.45	154	2	18.3	1.32	88	273
DP2015-277	<10	0.25	3.72	75	2	16.1	1.3	81	855
DP2015-463	<10	0.25	4.67	85	1	18.3	1.55	91	1485
SH2015-67	<10	0.18	2.66	93	1	16	1.11	89	1320
SH2015-68	<10	0.14	1.83	56	2	11.7	0.78	232	1535
SH2015-73	<10	0.15	2.17	72	2	12.1	0.85	67	1630
DP2014-188	<10	0.18	2.19	77	<1	11.9	1.08	49	187
DP2015-212	10	0.04	1.57	13	1	3	0.39	14	159
DP2015-255	<10	0.19	1.91	61	1	12.7	0.91	54	233
DP2015-256	<10	0.1	1.8	35	<1	8.4	0.62	49	153
DP2015-377	<10	0.18	5.03	56	<1	12.5	1.22	55	201
DP2015-378	<10	0.18	6.45	54	<1	11.1	0.82	54	203
DP2014-176	<10	0.16	0.95	125	6	10.7	1.07	115	203
DP2014-178	<10	0.68	1.55	148	1	37.9	3.49	100	210
DP2014-179	<10	0.33	1.92	185	1	27.4	2.61	112	279
DP2015-191	<10	0.22	0.46	225	<1	11.8	1.09	73	52
DP2015-211	<10	0.24	0.62	253	1	13.3	1.11	104	57
DP2015-219	<10	0.28	0.72	322	1	17.9	1.69	188	75