



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Keno Hill Exploration**
PO Box 15
Keno City YT Y0B 1M0 Canada

Submitted By: Lauren Blackburn
Receiving Lab: Canada-Whitehorse
Received: September 22, 2010
Report Date: October 12, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000504.1

CLIENT JOB INFORMATION

Project: Roop L
Shipment ID:
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Keno Hill Exploration
PO Box 15
Keno City YT Y0B 1M0
Canada

CC: Keno Hill

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			WHI
RJSV	320	Saving all or part of Soil Reject			WHI
1DX1	320	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LA01	Soil			0.6	10.7	7.1	45	<0.1	11.8	3.6	103	1.11	3.7	3.3	1.7	2.7	13	<0.1	0.2	0.1	19	0.16	0.034
LA02	Soil			1.0	18.0	12.5	56	0.1	15.1	4.9	137	1.77	6.5	6.1	2.5	2.5	14	0.2	0.3	0.3	28	0.17	0.049
LA03	Soil			1.2	11.5	11.6	41	<0.1	12.1	4.8	131	2.11	7.6	1.0	1.0	4.0	5	<0.1	0.4	0.2	35	0.04	0.019
LA05	Soil			1.2	11.2	9.8	56	<0.1	14.4	5.9	156	1.91	8.3	2.2	1.5	4.2	12	0.1	0.4	0.2	30	0.12	0.036
LA06	Soil			1.0	5.6	10.2	24	<0.1	6.0	2.0	70	1.92	6.8	0.4	<0.5	2.6	4	<0.1	0.4	0.2	52	0.03	0.015
LA08	Soil			0.9	13.6	10.3	30	0.3	7.8	2.7	141	0.98	3.1	3.6	0.7	0.8	10	0.2	0.1	0.2	27	0.10	0.034
LA09	Soil			1.3	11.8	17.9	57	0.2	13.5	6.1	169	2.28	7.3	1.7	<0.5	3.5	8	<0.1	0.2	0.4	47	0.08	0.018
LA11	Soil			1.7	15.8	14.0	63	0.2	19.0	13.3	331	1.83	7.9	7.6	0.9	5.1	17	0.2	0.3	0.3	29	0.24	0.052
LA12	Soil			1.5	20.3	13.3	67	0.2	20.6	9.7	261	1.81	6.8	10.6	0.8	3.7	19	0.2	0.2	0.3	32	0.24	0.046
LA14	Soil			4.3	40.1	20.6	81	0.3	30.5	14.7	879	3.30	16.9	19.4	3.3	5.1	23	0.2	0.5	0.6	36	0.35	0.058
LA15	Soil			1.3	25.4	10.9	58	0.3	24.9	8.5	186	1.70	5.9	21.0	1.9	2.2	27	0.2	0.4	0.3	23	0.42	0.060
LA17	Soil			1.4	14.0	12.0	51	<0.1	16.9	6.7	144	2.20	7.7	0.9	<0.5	3.4	8	<0.1	0.4	0.2	42	0.08	0.020
LA18	Soil			2.0	13.6	13.1	45	<0.1	14.7	5.6	151	2.27	9.3	0.6	<0.5	4.2	6	0.1	0.5	0.2	47	0.05	0.017
LA20	Soil			1.3	30.1	14.1	52	<0.1	31.5	9.2	176	2.17	8.5	1.2	0.6	4.2	10	<0.1	0.5	0.2	30	0.10	0.027
LA21	Soil			1.2	26.1	14.7	82	0.1	31.0	9.9	319	2.57	7.9	11.5	2.0	7.5	24	<0.1	0.5	0.2	29	0.30	0.042
LA23	Soil			0.9	44.2	21.6	74	<0.1	37.6	12.6	271	2.48	10.0	6.7	1.6	7.1	11	0.1	0.5	0.2	39	0.11	0.017
LA24	Soil			1.7	42.3	51.5	95	<0.1	49.7	17.4	204	2.88	12.6	0.6	<0.5	5.7	9	0.1	0.5	0.3	39	0.09	0.021
LA26	Soil			2.4	14.7	13.5	47	0.2	21.0	10.5	190	2.40	9.6	3.1	<0.5	5.3	13	<0.1	0.4	0.2	46	0.15	0.029
LA27	Soil			1.4	26.4	11.1	57	<0.1	21.9	7.3	163	2.28	9.5	2.6	1.6	5.2	16	<0.1	0.6	0.2	36	0.17	0.041
LA29	Soil			1.0	15.6	3.4	49	0.2	8.6	1.5	141	0.26	0.9	13.8	<0.5	0.7	37	0.7	0.2	<0.1	<2	0.67	0.038
LA30	Soil			3.5	49.3	6.5	29	0.3	23.1	23.5	1790	1.53	10.1	73.7	3.0	2.0	96	1.2	1.1	0.2	10	2.95	0.116
LA32	Soil			0.2	3.4	1.4	9	<0.1	3.1	0.4	27	0.12	0.8	0.9	<0.5	0.1	34	<0.1	0.1	<0.1	<2	0.84	0.032
LA33	Soil			1.7	16.7	15.3	56	<0.1	24.1	8.6	157	2.85	11.9	1.0	1.0	4.4	6	0.1	0.4	0.2	49	0.04	0.031
LA35	Soil			1.4	18.7	14.1	67	<0.1	25.3	12.7	214	2.69	10.4	1.5	1.2	5.0	6	0.1	0.5	0.3	37	0.06	0.017
LA36	Soil			2.7	23.7	12.7	78	0.1	16.2	8.1	249	2.42	9.2	15.1	1.0	4.4	18	0.5	0.5	1.2	41	0.23	0.036
LA38	Soil			5.0	33.1	4.4	34	0.2	13.4	16.7	2436	1.18	3.7	49.1	0.7	1.0	90	1.5	0.9	<0.1	4	2.14	0.109
LA39	Soil			9.1	32.7	1.8	12	0.1	12.4	15.5	981	1.20	5.7	60.0	<0.5	0.7	91	0.8	1.1	<0.1	7	2.25	0.089
LA41	Soil			1.9	28.0	14.5	91	0.2	32.0	11.9	252	3.20	15.3	0.7	0.9	4.6	11	0.3	0.9	0.2	55	0.07	0.041
LA42	Soil			3.0	36.1	27.6	124	0.2	28.0	11.8	290	4.25	23.9	0.7	23.9	4.8	11	0.4	1.5	0.3	45	0.05	0.053
LA44	Soil			0.6	23.0	17.2	100	0.1	23.2	6.7	202	2.03	5.4	2.7	0.8	4.2	33	0.3	0.5	0.2	22	0.42	0.056

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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05		1	0.5	0.2
LA01	Soil			14	15	0.30	228	0.030	<20	0.84	0.008	0.05	0.1	0.04	1.5	0.2	<0.05	3	<0.5	<0.2
LA02	Soil			14	20	0.34	222	0.033	<20	1.03	0.010	0.06	0.1	0.05	1.7	0.2	<0.05	4	0.5	<0.2
LA03	Soil			13	19	0.25	82	0.036	<20	1.07	0.005	0.04	0.2	0.02	1.4	0.1	<0.05	4	<0.5	<0.2
LA05	Soil			14	18	0.34	130	0.039	<20	0.92	0.009	0.06	0.1	0.05	1.5	0.2	<0.05	4	<0.5	<0.2
LA06	Soil			11	15	0.12	49	0.028	<20	0.92	0.004	0.02	0.1	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
LA08	Soil			11	13	0.17	155	0.023	<20	0.66	0.011	0.05	0.1	0.05	1.1	0.2	<0.05	4	<0.5	<0.2
LA09	Soil			12	23	0.34	121	0.037	<20	1.33	0.008	0.05	0.1	0.03	1.8	0.2	<0.05	6	<0.5	<0.2
LA11	Soil			17	19	0.39	271	0.041	<20	1.08	0.014	0.10	0.4	0.04	2.1	0.2	<0.05	4	<0.5	<0.2
LA12	Soil			20	21	0.41	249	0.042	<20	1.22	0.012	0.08	0.4	0.04	2.3	0.2	<0.05	4	<0.5	<0.2
LA14	Soil			23	25	0.46	291	0.030	<20	1.50	0.012	0.09	0.2	0.08	2.7	0.3	<0.05	5	<0.5	<0.2
LA15	Soil			25	22	0.34	348	0.024	<20	1.24	0.015	0.07	0.1	0.07	2.4	0.2	<0.05	4	<0.5	<0.2
LA17	Soil			12	23	0.39	194	0.029	<20	1.46	0.005	0.04	0.1	0.02	2.0	0.2	<0.05	4	<0.5	<0.2
LA18	Soil			13	22	0.32	163	0.021	<20	1.56	0.003	0.03	<0.1	<0.01	1.8	0.1	<0.05	4	<0.5	<0.2
LA20	Soil			12	24	0.41	307	0.032	<20	1.35	0.010	0.07	0.1	0.01	2.2	0.1	<0.05	4	<0.5	<0.2
LA21	Soil			19	19	0.55	397	0.044	<20	1.47	0.020	0.15	0.2	0.06	2.8	0.2	<0.05	4	<0.5	<0.2
LA23	Soil			21	35	0.59	450	0.071	<20	1.80	0.016	0.08	0.2	0.06	5.7	0.2	<0.05	5	0.7	<0.2
LA24	Soil			14	35	0.57	523	0.055	<20	2.32	0.010	0.07	0.2	0.03	3.4	0.2	<0.05	5	<0.5	<0.2
LA26	Soil			15	24	0.37	443	0.025	<20	1.60	0.006	0.04	0.1	0.02	2.2	0.1	<0.05	5	<0.5	<0.2
LA27	Soil			16	23	0.39	352	0.030	<20	1.26	0.010	0.06	0.2	0.04	2.6	0.1	<0.05	4	<0.5	<0.2
LA29	Soil			7	6	0.04	461	0.006	<20	0.19	0.026	<0.01	<0.1	0.06	0.8	<0.1	0.15	<1	<0.5	<0.2
LA30	Soil			26	9	0.11	814	0.008	<20	0.70	0.021	0.02	0.2	0.14	1.7	0.2	0.22	1	1.7	<0.2
LA32	Soil			<1	5	0.07	61	0.004	<20	0.10	0.032	0.02	<0.1	0.05	0.4	<0.1	0.11	<1	<0.5	<0.2
LA33	Soil			12	24	0.34	173	0.036	<20	1.96	0.005	0.04	0.3	0.03	2.3	0.1	<0.05	6	<0.5	<0.2
LA35	Soil			13	27	0.46	151	0.046	<20	1.91	0.007	0.06	0.2	0.02	2.3	0.1	<0.05	5	<0.5	<0.2
LA36	Soil			17	23	0.34	244	0.032	<20	1.30	0.010	0.06	0.4	0.04	2.4	0.2	<0.05	5	<0.5	<0.2
LA38	Soil			13	9	0.12	724	0.005	<20	0.46	0.027	0.02	<0.1	0.11	1.3	0.2	0.36	<1	<0.5	<0.2
LA39	Soil			7	6	0.09	583	0.006	<20	0.44	0.027	0.02	<0.1	0.08	1.3	<0.1	0.22	<1	1.1	<0.2
LA41	Soil			15	32	0.46	571	0.025	<20	2.05	0.005	0.06	0.1	0.07	3.2	0.1	<0.05	5	<0.5	<0.2
LA42	Soil			16	24	0.30	717	0.013	<20	1.40	0.005	0.04	0.1	0.12	2.5	0.1	<0.05	4	0.6	0.3
LA44	Soil			15	20	0.40	395	0.010	<20	1.05	0.010	0.05	<0.1	0.06	2.2	<0.1	<0.05	3	0.7	<0.2

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Project: Roop L
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Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LA45	Soil	0.7	10.9	12.5	80	<0.1	17.8	8.8	314	2.00	7.3	0.7	<0.5	5.2	11	0.2	0.5	0.1	14	0.10	0.049		
L-B-2	Soil	0.7	15.4	9.3	65	0.3	15.8	5.2	184	1.44	3.8	12.9	1.5	3.5	27	0.3	0.3	0.3	22	0.35	0.040		
L-B-3	Soil	2.9	27.2	15.3	81	0.2	20.4	10.0	351	2.46	9.1	18.0	2.2	6.3	24	0.2	0.5	0.3	39	0.33	0.062		
L-B-5	Soil	1.3	27.5	17.3	63	0.2	19.3	8.2	426	1.93	9.2	6.8	0.9	1.4	17	0.2	0.5	0.3	26	0.20	0.076		
L-B-6	Soil	2.5	20.4	14.6	58	0.1	16.1	6.7	257	2.07	8.8	9.0	1.2	4.3	12	0.1	0.3	0.4	34	0.12	0.040		
L-B-8	Soil	1.7	27.8	15.9	72	0.2	24.1	13.7	366	2.12	7.6	11.3	0.6	3.4	25	0.2	0.3	0.4	34	0.41	0.053		
L-B-9	Soil	1.7	33.0	18.1	89	0.3	26.2	13.1	575	2.13	9.3	21.8	3.2	3.9	32	0.4	0.4	0.5	30	0.67	0.066		
L-B-11	Soil	2.1	27.0	21.7	70	0.2	24.2	10.3	356	2.10	8.6	23.9	1.9	4.9	21	0.2	0.4	0.4	32	0.34	0.046		
L-B-12	Soil	3.2	35.6	17.7	75	0.4	24.1	10.9	611	1.94	8.6	28.6	1.4	0.7	26	0.4	0.4	0.4	30	0.53	0.098		
L-B-14	Soil	3.4	52.1	35.2	103	0.3	37.4	12.2	330	3.43	15.6	15.4	2.3	9.3	15	0.4	0.4	1.4	53	0.14	0.065		
L-B-15	Soil	2.5	49.3	21.3	91	0.2	43.5	15.9	506	2.72	18.1	16.4	2.8	6.1	33	0.1	0.4	0.8	35	0.69	0.047		
L-B-17	Soil	1.2	29.2	11.9	63	0.1	23.5	7.0	178	2.03	8.8	4.9	1.0	4.1	11	0.1	0.4	0.2	33	0.13	0.043		
L-B-18	Soil	1.9	35.1	16.1	46	0.4	24.0	7.8	288	1.72	6.7	32.7	2.5	1.3	38	0.3	0.4	0.3	23	0.78	0.096		
L-B-20	Soil	3.0	14.5	15.2	47	<0.1	17.5	6.3	124	2.88	10.8	2.0	0.6	5.3	5	<0.1	0.4	0.3	54	0.04	0.026		
L-B-21	Soil	1.2	30.8	15.1	62	<0.1	36.3	10.9	196	2.72	13.3	0.7	1.2	4.7	10	0.1	0.4	0.2	42	0.10	0.027		
L-B-23	Soil	2.2	14.3	16.4	61	<0.1	18.3	7.0	125	2.58	12.0	3.3	0.9	4.4	9	0.1	0.3	0.6	50	0.09	0.025		
L-B-24	Soil	2.5	10.3	7.7	45	<0.1	13.3	4.4	104	1.40	4.4	6.7	0.7	2.8	14	<0.1	0.2	0.2	25	0.24	0.027		
L-B-26	Soil	1.5	27.4	11.5	72	0.2	23.3	9.5	265	1.92	8.7	12.4	1.5	3.4	28	0.2	0.3	0.4	32	0.63	0.053		
L-B-27	Soil	1.2	22.3	9.9	48	<0.1	25.1	6.8	138	2.13	8.7	0.6	0.7	4.1	7	0.1	0.4	0.2	33	0.06	0.016		
L-B-29	Soil	6.8	17.8	11.4	89	<0.1	18.7	12.5	1114	3.32	24.8	5.2	1.4	6.8	22	0.3	0.3	0.6	56	0.37	0.032		
L-B-30	Soil	0.5	3.8	5.5	13	<0.1	3.5	0.7	24	0.36	1.1	0.8	<0.5	0.5	4	<0.1	<0.1	0.1	17	0.05	0.012		
L-B-32	Soil	1.9	37.1	18.1	59	<0.1	27.0	9.8	155	2.93	11.2	2.7	1.7	5.2	7	0.2	0.5	0.4	38	0.06	0.026		
L-B-33	Soil	1.7	20.6	14.1	60	<0.1	23.5	8.6	165	2.56	11.6	2.0	<0.5	4.0	7	0.1	0.4	0.2	48	0.06	0.025		
L-B-35	Soil	1.5	29.6	12.5	50	<0.1	22.9	6.7	158	1.98	7.8	4.0	1.6	3.7	12	0.1	0.5	0.2	29	0.14	0.035		
L-B-36	Soil	2.9	29.1	13.0	69	<0.1	23.6	9.1	272	2.50	13.2	8.5	1.5	2.5	14	0.1	0.7	0.3	37	0.16	0.042		
L-B-38	Soil	4.7	25.2	20.1	43	0.2	15.6	5.4	107	2.49	9.4	15.7	0.8	4.0	6	<0.1	0.4	0.2	46	0.05	0.031		
L-B-39	Soil	6.5	12.9	13.3	54	<0.1	15.6	7.2	204	3.29	18.5	3.2	0.6	3.3	4	<0.1	0.7	0.2	73	0.04	0.040		
L-B-41	Soil	7.1	46.6	29.7	113	0.5	33.5	18.2	579	3.14	63.3	281.7	2.7	3.5	39	0.1	0.9	0.7	44	0.76	0.084		
L-B-44	Soil	4.1	31.0	52.6	122	0.4	34.9	12.9	901	3.25	16.9	1.1	2.1	1.9	49	0.8	0.8	0.4	36	0.72	0.072		
L-C02	Soil	3.1	32.3	16.1	62	0.3	22.8	7.0	171	2.49	8.7	22.3	2.2	4.6	21	<0.1	0.4	0.5	31	0.26	0.066		

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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
LA45	Soil			16	13	0.26	251	0.008	<20	0.67	0.003	0.03	<0.1	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
L-B-2	Soil			20	20	0.39	348	0.034	<20	1.10	0.013	0.07	0.2	0.04	2.2	0.2	<0.05	4	<0.5	<0.2
L-B-3	Soil			27	23	0.52	311	0.053	<20	1.42	0.012	0.13	0.2	0.06	2.9	0.2	<0.05	5	<0.5	<0.2
L-B-5	Soil			14	19	0.33	311	0.032	<20	0.99	0.014	0.11	0.2	0.07	1.8	0.2	<0.05	3	<0.5	<0.2
L-B-6	Soil			17	22	0.42	169	0.049	<20	1.22	0.011	0.08	0.1	0.06	2.3	0.2	<0.05	4	<0.5	<0.2
L-B-8	Soil			21	24	0.47	209	0.047	<20	1.31	0.015	0.08	0.2	0.06	2.6	0.2	<0.05	5	0.7	<0.2
L-B-9	Soil			21	21	0.44	345	0.040	<20	1.22	0.012	0.13	0.3	0.06	2.4	0.3	<0.05	4	0.5	<0.2
L-B-11	Soil			24	23	0.42	355	0.041	<20	1.29	0.009	0.08	0.3	0.07	2.2	0.3	<0.05	4	<0.5	<0.2
L-B-12	Soil			33	18	0.30	395	0.025	<20	1.14	0.010	0.08	0.3	0.13	1.1	0.2	0.06	4	0.6	<0.2
L-B-14	Soil			30	31	0.53	186	0.059	<20	2.04	0.013	0.14	0.4	0.06	3.2	0.3	<0.05	8	<0.5	0.2
L-B-15	Soil			22	31	0.52	320	0.034	<20	1.61	0.015	0.13	0.3	0.06	2.5	0.3	<0.05	5	0.6	<0.2
L-B-17	Soil			15	21	0.40	147	0.035	<20	1.23	0.006	0.06	<0.1	0.03	1.8	0.2	<0.05	4	<0.5	<0.2
L-B-18	Soil			26	22	0.25	563	0.019	<20	1.21	0.015	0.09	0.1	0.12	1.6	0.2	0.12	4	0.8	<0.2
L-B-20	Soil			11	25	0.33	130	0.045	<20	1.87	0.006	0.07	0.1	0.03	1.9	0.2	<0.05	7	<0.5	<0.2
L-B-21	Soil			12	29	0.48	302	0.044	<20	1.60	0.008	0.06	0.3	0.02	2.3	0.2	<0.05	5	<0.5	<0.2
L-B-23	Soil			13	26	0.39	165	0.029	<20	1.64	0.006	0.06	0.2	0.02	2.1	0.3	<0.05	6	<0.5	<0.2
L-B-24	Soil			13	19	0.33	145	0.037	<20	0.97	0.009	0.06	0.2	0.03	1.5	0.2	<0.05	4	<0.5	<0.2
L-B-26	Soil			18	20	0.44	219	0.046	<20	1.18	0.016	0.10	0.8	0.04	2.0	0.2	<0.05	4	<0.5	0.2
L-B-27	Soil			12	23	0.36	248	0.028	<20	1.27	0.004	0.05	0.2	0.02	1.7	0.1	<0.05	4	<0.5	<0.2
L-B-29	Soil			14	27	0.41	229	0.059	<20	1.19	0.009	0.06	0.1	0.02	1.9	0.2	<0.05	5	<0.5	<0.2
L-B-30	Soil			13	7	0.03	57	0.009	<20	0.40	0.003	0.02	<0.1	0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
L-B-32	Soil			13	27	0.41	140	0.039	<20	1.89	0.005	0.07	0.2	0.03	2.2	0.2	<0.05	5	<0.5	<0.2
L-B-33	Soil			12	25	0.41	170	0.039	<20	1.64	0.004	0.05	0.2	0.03	2.0	0.2	<0.05	6	<0.5	<0.2
L-B-35	Soil			12	19	0.35	225	0.025	<20	1.18	0.007	0.05	0.2	0.03	1.7	0.1	<0.05	3	<0.5	<0.2
L-B-36	Soil			14	22	0.37	329	0.026	<20	1.28	0.007	0.04	0.1	0.05	1.6	0.1	<0.05	4	<0.5	<0.2
L-B-38	Soil			14	21	0.24	212	0.020	<20	1.29	0.004	0.03	0.2	0.03	1.9	0.1	<0.05	5	<0.5	<0.2
L-B-39	Soil			12	22	0.45	155	0.076	<20	1.45	0.004	0.03	0.2	<0.01	2.0	0.2	<0.05	8	<0.5	<0.2
L-B-41	Soil			32	33	0.50	668	0.019	<20	2.01	0.011	0.09	0.2	0.10	3.4	0.3	<0.05	6	0.8	<0.2
L-B-44	Soil			9	40	0.20	940	0.005	<20	0.99	0.005	0.06	<0.1	0.12	2.1	0.1	<0.05	3	0.6	<0.2
L-C02	Soil			22	25	0.44	321	0.041	<20	1.41	0.010	0.10	0.4	0.07	2.5	0.3	<0.05	5	0.6	<0.2

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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-C03	Soil	2.0	36.0	16.2	93	0.2	32.3	12.4	546	2.41	9.6	8.7	1.9	6.6	28	0.3	0.4	0.3	34	0.44	0.060
L-C05	Soil	2.7	54.9	15.0	61	0.2	17.7	7.5	398	4.35	10.0	16.5	0.8	1.4	9	<0.1	0.4	0.5	51	0.09	0.115
L-C06	Soil	3.3	48.2	22.1	90	0.4	24.7	13.2	399	4.07	12.3	15.9	2.3	11.9	22	0.3	0.3	3.4	73	0.27	0.070
L-C08	Soil	6.8	53.0	68.3	70	0.4	51.2	10.9	1489	2.28	8.3	56.9	4.0	1.9	22	0.4	0.5	2.0	27	0.15	0.179
L-C09	Soil	10.4	26.8	14.7	92	0.3	16.1	11.2	633	4.31	9.7	9.9	0.6	10.6	23	0.3	0.3	1.0	81	0.30	0.094
L-C11	Soil	3.2	55.2	22.2	89	0.2	42.3	17.0	221	3.08	15.6	7.7	3.2	7.9	8	0.1	0.4	0.5	48	0.07	0.019
L-C12	Soil	3.5	81.2	52.2	161	0.5	55.2	22.8	503	3.96	20.7	8.5	4.8	10.3	17	0.5	0.4	1.5	61	0.22	0.059
L-C14	Soil	2.3	63.4	26.9	96	0.4	48.2	17.4	537	3.32	19.8	31.4	2.3	9.2	36	0.2	0.5	1.1	44	0.61	0.054
L-C15	Soil	1.0	29.8	8.4	52	0.2	20.3	5.1	144	1.47	7.6	6.6	1.0	2.1	21	0.3	0.3	0.2	21	0.33	0.036
L-C17	Soil	1.2	26.4	14.2	63	<0.1	24.6	7.8	155	2.48	9.9	1.7	8.8	5.2	5	<0.1	0.3	0.2	27	0.05	0.013
L-C18	Soil	2.9	35.9	21.3	80	0.2	27.3	8.7	217	2.63	18.6	26.6	10.3	5.1	23	0.2	0.5	0.6	40	0.52	0.028
L-C20	Soil	4.4	24.6	18.0	71	<0.1	29.7	10.2	208	3.13	18.0	5.1	1.4	4.3	11	<0.1	0.6	0.3	51	0.15	0.024
L-C21	Soil	2.0	15.5	8.7	45	<0.1	18.6	5.9	129	1.92	9.6	1.2	<0.5	1.0	5	<0.1	0.3	0.2	40	0.05	0.022
L-C23	Soil	5.9	15.3	5.1	34	0.1	13.6	3.6	69	1.20	7.3	11.1	<0.5	1.2	16	<0.1	0.4	0.2	23	0.30	0.032
L-C24	Soil	3.3	26.2	11.1	75	<0.1	23.3	8.0	186	2.16	12.9	4.0	0.9	3.7	11	0.1	0.4	0.3	42	0.16	0.025
L-C26	Soil	1.5	21.0	15.1	67	0.1	25.3	8.5	159	2.72	12.9	0.5	<0.5	3.7	6	0.2	0.7	0.3	43	0.04	0.036
L-C27	Soil	4.0	14.4	11.0	48	0.2	15.7	6.9	140	1.83	7.9	10.8	<0.5	4.4	19	<0.1	0.3	0.5	35	0.28	0.026
L-C29	Soil	2.2	33.4	15.1	73	0.2	30.4	10.1	205	2.67	13.8	8.5	0.5	4.3	14	0.1	0.6	0.3	44	0.16	0.040
L-C30	Soil	3.2	24.9	15.1	66	0.2	24.3	9.4	275	2.15	13.6	7.9	0.7	3.2	14	0.3	0.5	0.3	41	0.20	0.048
L-C32	Soil	1.5	25.7	13.8	73	<0.1	25.1	8.1	162	2.59	12.7	1.3	1.2	5.8	7	<0.1	0.7	0.2	45	0.04	0.012
L-C33	Soil	1.2	31.5	12.7	51	<0.1	22.7	7.4	171	2.77	13.8	3.9	1.7	6.3	5	<0.1	0.8	0.2	41	0.03	0.018
L-C35	Soil	1.2	13.7	8.7	43	0.1	12.0	3.8	123	1.57	6.6	1.7	<0.5	3.3	5	<0.1	0.4	0.3	23	0.05	0.020
L-C36	Soil	0.7	9.6	8.6	15	0.3	5.9	1.6	31	0.65	2.6	0.8	<0.5	0.3	6	<0.1	0.1	0.2	22	0.05	0.016
L-C38	Soil	4.0	10.8	10.1	35	<0.1	15.5	4.8	97	2.16	11.2	1.9	<0.5	2.7	6	<0.1	0.5	0.3	51	0.07	0.017
L-C39	Soil	3.3	8.2	13.9	63	0.2	11.4	11.2	726	3.26	4.1	1.3	<0.5	3.2	11	0.1	0.2	0.2	87	0.15	0.047
L-C41	Soil	2.2	45.0	18.7	60	<0.1	34.5	15.2	196	3.02	16.5	11.0	1.5	8.8	8	0.1	0.9	0.3	45	0.06	0.032
L-C42	Soil	1.1	4.3	8.2	23	0.2	5.8	2.9	82	1.55	6.7	0.3	<0.5	2.2	5	<0.1	0.2	0.2	64	0.04	0.016
L-C44	Soil	3.1	20.1	15.7	16	0.5	14.8	9.4	260	1.46	4.8	74.4	<0.5	0.9	68	0.5	0.5	0.2	11	1.23	0.155
L-C45	Soil	0.9	11.4	10.8	39	0.2	14.5	7.0	456	1.81	6.2	0.7	<0.5	2.9	16	0.2	0.3	0.3	41	0.22	0.017
L-D24	Soil	3.0	31.6	16.6	86	0.3	30.8	12.7	202	3.12	21.7	5.5	1.0	3.3	14	0.2	0.6	0.8	65	0.26	0.032

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Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
L-C03	Soil			18	29	0.57	503	0.062	<20	1.42	0.021	0.21	0.3	0.04	2.5	0.3	<0.05	4	<0.5	<0.2
L-C05	Soil			13	39	0.71	106	0.131	<20	2.24	0.017	0.40	0.1	0.12	2.3	0.4	0.15	9	0.9	<0.2
L-C06	Soil			27	43	1.03	157	0.164	<20	2.36	0.028	0.35	1.8	0.03	3.5	0.7	<0.05	9	<0.5	<0.2
L-C08	Soil			14	76	0.38	157	0.072	<20	1.54	0.021	0.28	0.2	0.21	1.6	0.3	0.12	6	0.9	<0.2
L-C09	Soil			20	38	0.91	183	0.207	<20	2.50	0.045	0.50	0.2	0.08	3.1	0.6	<0.05	12	0.9	<0.2
L-C11	Soil			19	32	0.50	239	0.041	<20	2.12	0.005	0.08	0.2	0.05	2.5	0.2	<0.05	5	0.5	<0.2
L-C12	Soil			22	42	0.92	222	0.090	<20	2.37	0.014	0.14	1.1	0.03	3.9	0.4	<0.05	8	<0.5	<0.2
L-C14	Soil			38	34	0.65	458	0.051	<20	1.96	0.017	0.18	0.2	0.06	3.2	0.4	<0.05	6	<0.5	<0.2
L-C15	Soil			17	15	0.29	318	0.024	<20	0.78	0.009	0.05	0.4	0.02	1.1	0.2	<0.05	3	<0.5	<0.2
L-C17	Soil			12	25	0.41	175	0.038	<20	1.41	0.005	0.06	0.2	0.02	1.5	0.2	<0.05	4	<0.5	<0.2
L-C18	Soil			21	25	0.43	208	0.035	<20	1.48	0.016	0.08	0.4	0.03	2.1	0.2	<0.05	5	<0.5	<0.2
L-C20	Soil			13	33	0.53	192	0.052	<20	1.60	0.007	0.08	0.1	0.02	2.3	0.2	<0.05	6	<0.5	<0.2
L-C21	Soil			8	21	0.37	157	0.037	<20	1.10	0.004	0.05	0.2	0.02	1.4	0.1	<0.05	5	<0.5	<0.2
L-C23	Soil			12	16	0.19	138	0.014	<20	0.68	0.009	0.05	0.2	0.03	1.0	0.2	<0.05	3	<0.5	<0.2
L-C24	Soil			11	27	0.46	151	0.043	<20	1.27	0.009	0.08	0.2	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2
L-C26	Soil			8	28	0.35	175	0.020	<20	1.82	0.004	0.04	0.2	0.04	1.9	0.1	<0.05	4	0.6	<0.2
L-C27	Soil			11	21	0.36	190	0.030	<20	1.14	0.010	0.07	0.2	0.04	1.8	0.1	<0.05	5	<0.5	<0.2
L-C29	Soil			14	31	0.56	264	0.049	<20	1.64	0.010	0.07	0.2	0.03	2.7	0.2	<0.05	5	<0.5	<0.2
L-C30	Soil			11	28	0.47	228	0.050	<20	1.39	0.011	0.07	1.1	0.02	2.1	0.2	<0.05	5	<0.5	<0.2
L-C32	Soil			14	28	0.38	360	0.022	<20	1.54	0.005	0.05	0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
L-C33	Soil			15	26	0.34	136	0.025	<20	1.40	0.004	0.03	0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
L-C35	Soil			10	11	0.20	109	0.015	<20	0.69	0.005	0.04	0.1	0.03	1.0	<0.1	<0.05	3	<0.5	<0.2
L-C36	Soil			10	10	0.10	130	0.010	<20	0.72	0.005	0.04	<0.1	0.01	0.7	0.1	<0.05	4	<0.5	<0.2
L-C38	Soil			10	20	0.26	115	0.035	<20	0.94	0.007	0.03	<0.1	0.02	1.2	0.1	<0.05	5	<0.5	<0.2
L-C39	Soil			8	26	0.47	243	0.214	<20	2.03	0.016	0.05	<0.1	0.01	1.8	0.2	<0.05	17	<0.5	<0.2
L-C41	Soil			14	30	0.43	227	0.034	<20	2.14	0.007	0.04	0.3	0.24	2.7	0.2	<0.05	5	<0.5	<0.2
L-C42	Soil			9	14	0.28	49	0.100	<20	0.89	0.009	0.03	0.2	0.02	1.0	<0.1	<0.05	10	<0.5	<0.2
L-C44	Soil			50	11	0.09	735	0.014	<20	1.20	0.024	0.03	0.1	0.12	1.1	0.1	0.18	2	1.6	<0.2
L-C45	Soil			11	16	0.17	478	0.012	<20	1.02	0.006	0.03	<0.1	0.01	1.3	0.1	<0.05	4	<0.5	<0.2
L-D24	Soil			17	31	0.37	135	0.057	<20	1.54	0.010	0.09	0.6	0.03	2.2	0.2	<0.05	8	<0.5	<0.2

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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-D26	Soil			2.5	22.9	16.4	64	0.2	24.8	10.9	204	2.68	12.9	8.3	<0.5	3.9	13	<0.1	0.6	0.5	50	0.17	0.028
L-D27	Soil			3.0	18.9	16.6	66	0.1	27.4	13.4	202	3.17	16.8	2.7	6.7	4.0	8	<0.1	0.6	0.5	72	0.11	0.019
L-D-29	Soil			2.2	15.8	13.9	43	0.1	16.5	7.5	128	2.75	11.1	1.4	<0.5	3.5	8	<0.1	0.4	0.3	58	0.07	0.021
L-D-30	Soil			2.1	40.7	94.7	187	0.5	44.9	19.3	283	3.19	22.8	9.6	<0.5	8.5	14	0.7	0.7	0.5	49	0.14	0.023
L-D-32	Soil			1.3	37.1	19.8	92	0.2	40.0	16.7	522	2.83	16.2	1.8	<0.5	6.5	35	0.5	0.6	0.6	44	0.76	0.027
L-D-33	Soil			4.9	21.2	32.3	61	0.6	18.2	7.2	326	2.18	10.7	23.1	2.0	5.8	15	<0.1	0.3	4.8	49	0.22	0.023
L-D-35	Soil			2.9	58.3	24.5	84	0.4	46.3	21.0	293	3.47	13.2	19.0	<0.5	5.6	16	0.3	0.5	0.5	65	0.17	0.041
L-D-36	Soil			2.1	41.6	20.1	53	<0.1	31.9	11.6	150	2.94	14.3	4.2	<0.5	5.3	6	<0.1	0.5	0.3	37	0.06	0.043
L-D-38	Soil			2.2	17.2	14.8	47	<0.1	15.4	5.4	128	3.11	13.8	1.0	<0.5	3.4	7	<0.1	0.6	0.3	66	0.05	0.034
L-D-39	Soil			3.2	117.2	11.3	50	0.6	15.4	15.8	337	4.72	9.4	6.5	1.9	4.6	8	0.2	0.4	3.8	46	0.12	0.055
L-D-41	Soil			1.3	7.7	22.3	39	<0.1	8.3	2.9	97	1.30	8.2	3.1	<0.5	3.1	14	0.1	0.2	1.1	28	0.15	0.022
L-D-42	Soil			1.1	10.1	10.8	33	<0.1	9.9	4.1	87	2.07	7.0	0.8	<0.5	2.5	5	<0.1	0.4	0.3	49	0.05	0.012
L-D-44	Soil			1.1	21.8	10.9	56	<0.1	20.3	9.0	203	2.19	9.6	4.2	<0.5	5.3	11	<0.1	0.4	0.2	37	0.10	0.030
L-D-45	Soil			0.8	24.3	18.9	96	0.2	20.9	10.5	228	2.18	10.8	19.7	0.5	7.6	20	<0.1	0.4	1.2	36	0.21	0.060
L-M01	Soil			1.0	40.0	13.0	65	<0.1	39.7	14.7	191	2.56	9.4	0.8	<0.5	7.9	9	0.2	0.3	0.3	33	0.05	0.018
LE01	Soil			1.3	28.0	11.5	48	<0.1	23.3	7.5	134	2.21	7.8	0.9	3.4	5.2	7	0.1	0.3	0.2	38	0.05	0.024
LE02	Soil			1.5	46.8	16.0	87	0.1	42.9	14.2	274	2.56	10.5	1.0	3.9	7.1	12	0.3	0.5	0.3	35	0.09	0.044
LE03	Soil			1.9	24.8	15.9	49	0.2	15.6	5.7	189	2.35	9.4	1.1	<0.5	0.9	9	0.3	0.4	0.5	48	0.07	0.049
LE04	Soil			1.7	33.4	16.3	52	0.1	21.4	6.8	166	2.58	12.1	1.5	2.4	6.0	10	<0.1	0.6	0.4	43	0.07	0.025
LE05	Soil			1.2	38.6	20.5	61	<0.1	26.5	7.7	177	2.39	11.3	1.6	2.5	4.9	10	<0.1	0.6	0.3	34	0.05	0.033
LE06	Soil			1.7	22.2	14.0	36	0.2	13.8	4.1	118	2.11	11.5	1.4	1.2	3.2	8	0.1	0.5	0.3	45	0.04	0.031
LE07	Soil			1.7	26.5	16.3	49	0.1	18.7	5.7	165	2.25	9.1	1.4	0.5	4.8	16	<0.1	0.3	0.4	35	0.08	0.037
LE08	Soil			1.3	32.0	12.6	45	0.1	21.6	6.4	154	2.02	8.5	1.6	4.4	5.9	11	0.1	0.4	0.3	30	0.07	0.021
LE09	Soil			1.7	31.6	18.8	94	0.3	35.0	13.0	317	3.63	9.2	1.2	2.1	6.1	16	0.2	0.4	0.4	40	0.09	0.047
LE10	Soil			1.7	22.5	17.0	75	0.2	20.0	8.9	202	3.12	13.1	1.0	1.9	5.7	12	0.1	0.6	0.4	46	0.05	0.034
LE11	Soil			1.1	29.6	14.8	73	0.1	36.3	15.7	222	3.02	11.8	1.1	2.5	6.8	13	0.1	0.6	0.3	39	0.13	0.038
LE12	Soil			1.4	29.2	18.5	96	0.4	29.4	15.3	380	2.73	11.3	1.4	1.6	4.4	20	0.2	0.5	0.3	36	0.17	0.053
LE13	Soil			1.8	44.5	18.8	107	0.1	56.5	23.7	364	3.54	14.6	3.1	2.5	13.9	25	0.1	0.4	0.4	35	0.24	0.046
LE14	Soil			2.0	51.1	14.3	68	0.2	26.5	9.6	214	3.65	27.7	3.0	3.4	14.2	15	<0.1	0.4	0.6	36	0.05	0.040
LE15	Soil			1.3	44.0	16.9	119	0.2	30.6	14.9	1596	2.68	7.1	1.5	1.3	2.3	15	0.3	0.3	0.4	33	0.20	0.132

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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
L-D26	Soil			14	26	0.41	263	0.025	<20	1.43	0.007	0.06	0.7	0.02	2.0	0.2	<0.05	5	<0.5	<0.2
L-D27	Soil			13	33	0.38	193	0.031	<20	1.96	0.006	0.06	0.2	0.02	2.4	0.2	<0.05	6	<0.5	<0.2
L-D-29	Soil			13	24	0.28	249	0.016	<20	1.53	0.005	0.03	0.1	<0.01	1.8	0.1	<0.05	5	<0.5	<0.2
L-D-30	Soil			19	36	0.56	262	0.063	<20	2.13	0.011	0.16	2.1	<0.01	3.6	0.3	<0.05	6	<0.5	<0.2
L-D-32	Soil			18	34	0.58	387	0.059	<20	1.81	0.018	0.36	0.5	<0.01	3.6	0.2	<0.05	5	<0.5	<0.2
L-D-33	Soil			15	24	0.28	252	0.020	<20	1.76	0.006	0.06	1.1	0.02	2.0	0.2	<0.05	6	<0.5	<0.2
L-D-35	Soil			27	36	0.38	369	0.033	<20	2.20	0.011	0.09	0.3	0.04	2.9	0.2	<0.05	7	<0.5	<0.2
L-D-36	Soil			11	29	0.41	182	0.036	<20	2.11	0.006	0.06	0.3	0.03	2.2	0.2	<0.05	5	<0.5	<0.2
L-D-38	Soil			12	26	0.28	167	0.023	<20	1.54	0.004	0.03	0.1	0.01	1.5	0.1	<0.05	6	0.5	<0.2
L-D-39	Soil			11	21	0.20	203	0.019	<20	1.44	0.007	0.03	98.5	<0.01	1.8	0.1	<0.05	6	1.2	0.2
L-D-41	Soil			8	3	0.19	89	0.003	<20	0.88	0.006	0.04	0.2	<0.01	0.9	0.2	<0.05	4	<0.5	0.2
L-D-42	Soil			10	16	0.19	82	0.022	<20	1.05	0.004	0.03	0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
L-D-44	Soil			18	22	0.37	309	0.025	<20	1.19	0.007	0.04	0.2	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
L-D-45	Soil			18	24	0.51	336	0.038	<20	1.45	0.013	0.07	0.2	0.07	2.6	0.2	<0.05	4	0.6	<0.2
L-M01	Soil			17	28	0.53	316	0.043	<20	1.93	0.008	0.14	0.2	0.01	2.5	0.2	<0.05	4	<0.5	<0.2
LE01	Soil			15	25	0.36	160	0.030	<20	1.44	0.006	0.06	0.1	0.02	1.8	0.2	<0.05	4	<0.5	<0.2
LE02	Soil			15	26	0.51	262	0.035	<20	1.63	0.009	0.09	0.3	0.22	2.1	0.3	<0.05	4	0.9	<0.2
LE03	Soil			14	20	0.26	150	0.027	<20	1.08	0.006	0.06	0.2	0.01	1.2	0.2	<0.05	5	0.5	<0.2
LE04	Soil			17	25	0.48	118	0.038	<20	1.52	0.007	0.06	0.5	0.02	1.7	0.3	0.10	5	0.7	<0.2
LE05	Soil			17	26	0.42	253	0.036	<20	1.39	0.006	0.06	0.2	0.01	1.6	0.3	0.06	4	0.7	<0.2
LE06	Soil			16	24	0.29	95	0.033	<20	1.04	0.005	0.05	0.5	0.02	1.2	0.2	0.06	4	0.6	<0.2
LE07	Soil			21	23	0.41	112	0.055	<20	1.31	0.005	0.11	0.1	0.03	1.4	0.2	<0.05	6	<0.5	<0.2
LE08	Soil			20	20	0.35	181	0.036	<20	1.08	0.006	0.06	0.2	0.04	1.6	0.2	<0.05	4	<0.5	<0.2
LE09	Soil			17	27	0.58	146	0.075	<20	1.79	0.009	0.13	2.0	0.04	1.6	0.3	<0.05	6	0.6	<0.2
LE10	Soil			15	27	0.42	127	0.068	<20	1.60	0.008	0.13	0.3	0.03	1.9	0.2	0.05	6	<0.5	<0.2
LE11	Soil			17	26	0.52	207	0.058	<20	1.71	0.008	0.11	0.3	0.02	2.1	0.2	<0.05	5	0.6	<0.2
LE12	Soil			20	25	0.50	264	0.048	<20	1.50	0.008	0.13	0.1	0.04	1.7	0.2	<0.05	5	0.5	<0.2
LE13	Soil			29	32	0.63	212	0.100	<20	2.43	0.013	0.31	0.1	0.04	2.5	0.4	<0.05	7	0.5	<0.2
LE14	Soil			40	29	0.63	96	0.078	<20	1.98	0.009	0.18	0.2	0.03	1.9	0.4	0.08	6	0.5	<0.2
LE15	Soil			18	30	0.58	159	0.088	<20	2.12	0.018	0.21	<0.1	0.12	1.7	0.3	0.07	7	<0.5	<0.2

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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LE16	Soil	1.2	59.0	23.1	119	0.1	59.3	28.1	406	3.54	16.1	4.3	1.0	19.6	76	0.1	0.3	0.4	27	0.35	0.061		
LE17	Soil	1.8	33.6	18.1	96	0.2	37.3	26.6	987	1.82	9.6	3.3	1.4	6.2	51	0.8	0.3	0.5	14	0.97	0.069		
LE18	Soil	1.2	30.4	30.3	97	<0.1	39.8	12.5	245	3.60	8.5	0.9	<0.5	7.2	33	0.1	0.3	0.5	25	0.21	0.031		
LE19	Soil	1.3	113.9	10.4	69	0.1	40.8	16.1	160	4.22	11.1	4.1	2.5	22.8	17	0.1	0.3	0.4	31	0.07	0.040		
LE20	Soil	1.6	64.5	10.5	65	0.5	51.0	20.8	154	3.31	14.2	2.2	3.1	12.4	14	0.1	0.8	0.5	27	0.12	0.082		
LE22	Soil	1.2	28.3	9.9	84	0.1	17.9	8.2	863	2.37	6.8	3.1	1.4	0.8	22	0.2	0.3	1.0	29	0.30	0.112		
LE23	Soil	2.2	10.9	12.5	36	<0.1	10.8	4.0	112	2.02	9.1	0.6	1.5	4.3	8	<0.1	0.3	0.9	50	0.08	0.014		
LE24	Soil	1.5	23.4	17.6	72	0.1	24.9	8.6	188	3.93	16.6	0.6	0.9	4.9	8	0.1	0.9	0.3	54	0.05	0.029		
LE25	Soil	1.5	9.7	15.5	64	0.2	12.7	5.1	164	3.10	8.5	0.6	0.7	4.0	5	0.1	0.3	0.4	63	0.04	0.024		
LE26	Soil	1.2	16.4	8.6	23	<0.1	7.9	2.2	64	1.10	9.9	0.5	1.0	1.6	7	<0.1	0.3	0.2	30	0.07	0.023		
LE27	Soil	1.3	26.4	12.7	40	0.2	14.5	4.2	132	1.62	6.7	2.6	1.5	2.3	20	<0.1	0.2	0.4	30	0.13	0.030		
LE28	Soil	1.9	35.3	15.8	61	<0.1	22.3	7.6	174	5.49	9.5	0.9	1.5	12.1	23	<0.1	0.6	0.5	39	0.05	0.043		
LE29	Soil	1.4	48.9	27.7	33	0.1	23.1	4.8	132	1.44	4.3	6.9	<0.5	1.8	22	0.4	0.2	0.2	13	0.31	0.056		
LE30	Soil	1.4	18.0	24.5	67	0.2	35.5	19.2	570	3.91	18.5	2.3	3.5	10.8	36	0.2	0.4	0.4	68	0.34	0.048		
LE31	Soil	0.5	37.1	18.5	33	0.5	16.5	3.7	90	1.49	4.7	6.0	3.0	0.6	22	0.2	0.3	0.3	13	0.41	0.114		
LE32	Soil	0.7	21.6	10.2	19	0.4	15.3	5.1	114	1.68	3.9	3.6	1.6	0.7	34	0.3	0.2	0.1	<2	0.76	0.110		
LE33	Soil	0.9	19.5	12.0	66	0.2	23.2	7.2	180	2.36	9.5	2.0	2.4	3.4	17	0.2	0.3	0.2	30	0.22	0.057		
LE34	Soil	0.7	21.8	11.5	70	0.1	22.8	8.2	233	2.21	5.8	0.9	2.2	5.6	17	<0.1	0.4	0.2	24	0.16	0.048		
LE35	Soil	0.8	18.1	13.5	91	<0.1	26.2	21.2	590	2.76	6.9	1.3	1.6	5.5	16	0.1	0.4	0.3	28	0.14	0.046		
LE36	Soil	0.9	18.6	17.0	81	0.1	24.8	32.9	1268	2.93	8.7	1.6	2.2	5.6	18	0.1	0.5	0.3	28	0.18	0.052		
LE37	Soil	0.6	20.0	13.5	78	0.1	21.5	6.8	191	1.98	5.6	1.6	2.3	4.3	16	0.1	0.4	0.2	25	0.16	0.047		
LE38	Soil	0.7	25.3	13.9	83	0.1	26.1	11.2	730	2.25	7.0	1.4	1.6	4.7	20	<0.1	0.6	0.2	23	0.26	0.054		
LE39	Soil	0.8	38.6	14.5	101	0.2	32.1	8.8	554	2.20	7.9	1.7	2.1	4.8	24	0.4	0.6	0.2	24	0.28	0.048		
LE40	Soil	0.5	21.8	13.8	62	0.1	23.1	9.7	414	2.15	7.8	1.2	2.2	4.3	30	0.2	0.5	0.2	20	0.45	0.034		
LE41	Soil	0.7	20.3	14.2	72	<0.1	20.6	9.8	280	1.97	7.8	0.5	1.1	5.6	19	0.2	0.4	0.2	22	0.29	0.039		
LE42	Soil	0.5	15.7	11.5	69	0.1	18.0	7.9	470	1.75	7.1	0.7	1.5	3.4	34	0.2	0.4	0.2	22	0.65	0.042		
LE43	Soil	0.9	25.1	15.3	83	0.1	24.8	9.8	414	2.15	8.5	0.9	3.4	4.3	34	0.3	0.5	0.2	26	0.63	0.059		
LE44	Soil	0.6	21.2	13.2	78	0.1	22.3	9.0	398	1.88	7.6	0.9	1.0	5.2	22	0.3	0.5	0.2	23	0.36	0.045		
LE45	Soil	0.8	22.4	12.4	79	0.1	21.5	9.0	439	1.91	6.9	1.1	1.1	2.8	36	0.4	0.4	0.2	26	0.69	0.059		
LE46	Soil	0.5	22.0	14.5	94	0.1	24.1	11.3	316	2.04	7.9	2.7	2.0	5.4	34	0.3	0.4	0.3	27	0.71	0.055		

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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
LE16	Soil			44	25	0.64	120	0.105	<20	2.40	0.013	0.52	0.1	0.04	2.2	0.5	<0.05	6	0.7	<0.2
LE17	Soil			28	24	0.45	128	0.067	<20	1.32	0.025	0.27	0.7	0.35	1.3	0.3	0.13	4	<0.5	<0.2
LE18	Soil			20	26	0.69	142	0.109	<20	2.40	0.008	0.30	<0.1	0.03	2.2	0.5	<0.05	7	<0.5	<0.2
LE19	Soil			29	35	0.74	198	0.130	<20	2.67	0.016	0.36	0.3	0.03	2.5	0.4	0.17	5	1.0	<0.2
LE20	Soil			24	21	0.32	140	0.047	<20	2.29	0.005	0.14	0.4	0.07	1.5	0.3	0.09	4	1.1	<0.2
LE22	Soil			14	22	0.46	255	0.067	<20	1.26	0.017	0.22	0.4	0.31	1.4	0.4	0.15	5	0.6	<0.2
LE23	Soil			13	20	0.36	93	0.052	<20	1.23	0.005	0.07	0.3	<0.01	1.3	0.2	<0.05	6	<0.5	<0.2
LE24	Soil			12	32	0.46	150	0.029	<20	2.03	0.005	0.06	0.2	0.02	2.3	0.1	<0.05	5	0.9	<0.2
LE25	Soil			13	21	0.24	121	0.026	<20	1.48	0.004	0.03	<0.1	0.01	1.4	0.1	0.10	8	<0.5	<0.2
LE26	Soil			11	13	0.16	44	0.023	<20	0.50	0.005	0.05	0.1	0.01	0.7	0.1	<0.05	4	<0.5	<0.2
LE27	Soil			15	20	0.33	109	0.037	<20	1.00	0.008	0.12	<0.1	0.03	1.2	0.2	0.07	5	<0.5	<0.2
LE28	Soil			20	34	0.70	118	0.086	<20	2.30	0.009	0.25	0.1	0.02	1.7	0.3	0.12	7	0.5	<0.2
LE29	Soil			30	22	0.29	186	0.040	<20	0.97	0.021	0.20	<0.1	0.04	1.3	0.2	0.10	3	0.8	<0.2
LE30	Soil			40	54	1.67	123	0.140	<20	3.54	0.007	0.12	0.2	0.07	5.0	0.3	<0.05	12	0.7	<0.2
LE31	Soil			23	20	0.23	207	0.020	<20	0.95	0.019	0.05	0.1	0.12	1.1	0.1	0.15	3	1.1	<0.2
LE32	Soil			16	8	0.05	291	0.013	<20	0.51	0.026	0.02	<0.1	0.08	1.4	<0.1	0.26	<1	1.1	<0.2
LE33	Soil			14	28	0.51	200	0.054	<20	1.43	0.013	0.15	0.1	0.07	2.2	0.3	0.06	5	0.8	<0.2
LE34	Soil			15	21	0.46	253	0.039	<20	1.27	0.008	0.17	0.1	0.06	1.9	0.2	0.09	4	<0.5	<0.2
LE35	Soil			16	25	0.50	240	0.038	<20	1.50	0.010	0.15	0.1	0.05	2.0	0.2	<0.05	5	<0.5	<0.2
LE36	Soil			18	23	0.43	281	0.032	<20	1.43	0.013	0.13	0.1	0.06	2.2	0.2	0.13	4	0.7	<0.2
LE37	Soil			18	20	0.39	324	0.024	<20	1.30	0.011	0.14	0.2	0.07	2.0	0.2	<0.05	4	<0.5	<0.2
LE38	Soil			17	19	0.38	405	0.018	<20	1.20	0.011	0.10	<0.1	0.07	2.1	0.2	<0.05	3	0.6	<0.2
LE39	Soil			18	9	0.39	561	0.017	<20	1.26	0.012	0.12	0.5	0.09	2.4	0.1	0.07	3	1.1	<0.2
LE40	Soil			13	17	0.38	454	0.016	<20	1.00	0.012	0.09	0.1	0.04	1.7	0.1	0.07	3	0.9	<0.2
LE41	Soil			13	18	0.36	253	0.026	<20	0.96	0.015	0.09	0.1	0.05	1.6	0.1	<0.05	3	<0.5	<0.2
LE42	Soil			11	15	0.33	368	0.014	<20	0.91	0.012	0.07	0.1	0.05	1.5	<0.1	<0.05	3	<0.5	<0.2
LE43	Soil			12	19	0.39	458	0.022	<20	1.04	0.016	0.08	0.2	0.07	1.9	0.1	<0.05	3	0.6	<0.2
LE44	Soil			14	15	0.32	438	0.020	<20	0.91	0.013	0.09	0.2	0.06	1.8	0.1	<0.05	3	0.6	<0.2
LE45	Soil			12	18	0.38	379	0.018	<20	1.09	0.014	0.09	0.2	0.07	1.7	0.1	<0.05	3	<0.5	<0.2
LE46	Soil			14	20	0.40	277	0.025	<20	1.07	0.017	0.10	0.2	0.08	2.2	0.2	<0.05	3	0.6	<0.2

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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LF01	Soil			1.7	10.0	12.4	41	0.4	11.3	4.7	126	2.93	11.9	0.5	2.4	4.4	7	<0.1	0.5	0.3	61	0.04	0.034
LF02	Soil			1.4	8.5	10.8	30	<0.1	8.5	3.1	83	1.95	10.1	0.6	1.2	4.3	7	0.1	0.4	0.3	61	0.05	0.017
LF03	Soil			1.6	48.1	8.8	56	0.1	20.1	6.7	151	2.36	7.1	1.1	3.0	6.7	10	0.1	0.3	0.2	47	0.05	0.034
LF04	Soil			1.6	74.4	14.0	77	0.2	64.1	16.1	174	2.76	11.8	2.8	2.5	7.3	14	0.2	0.6	0.3	53	0.05	0.042
LF05	Soil			1.2	15.8	10.4	39	<0.1	13.9	3.8	95	1.96	6.7	0.6	<0.5	1.3	6	0.1	0.3	0.2	36	0.03	0.029
LF06	Soil			1.1	18.4	10.1	50	0.1	16.5	4.5	133	1.91	7.3	0.6	0.9	4.0	9	<0.1	0.3	0.2	31	0.09	0.042
LF07	Soil			0.9	25.6	9.8	53	<0.1	22.0	8.4	207	1.85	7.2	0.8	1.3	5.2	9	0.1	0.4	0.2	31	0.08	0.039
LF08	Soil			1.9	27.4	20.0	56	0.1	26.5	7.3	164	3.36	16.0	0.6	4.3	5.0	8	0.2	0.7	0.3	50	0.06	0.041
LF09	Soil			1.6	31.8	14.4	61	0.2	27.0	12.7	210	2.62	13.6	1.3	2.8	6.3	8	0.2	0.7	0.3	50	0.06	0.025
LF10	Soil			1.3	53.0	18.9	80	0.2	60.4	18.0	207	2.54	22.4	1.0	2.6	7.1	10	0.2	0.5	0.3	33	0.05	0.029
LF11	Soil			1.0	4.7	12.2	25	<0.1	5.4	2.3	67	1.58	6.9	0.4	0.7	3.3	7	<0.1	0.3	0.2	50	0.05	0.015
LF12	Soil			1.3	17.8	15.3	51	0.2	20.0	8.0	190	2.77	10.5	0.7	2.2	4.0	8	<0.1	0.6	0.2	45	0.06	0.033
LF13	Soil			1.2	38.8	17.7	84	<0.1	36.0	10.0	163	2.34	9.2	0.4	1.0	4.7	8	0.1	0.5	0.2	29	0.06	0.034
LF14	Soil			0.6	5.0	4.1	9	0.1	3.4	0.8	20	0.42	2.5	0.3	1.8	0.2	3	<0.1	<0.1	0.2	16	0.02	0.012
LF15	Soil			1.5	28.4	13.3	72	0.1	31.3	11.6	219	3.37	14.0	0.6	2.2	6.0	7	0.1	0.5	0.3	38	0.06	0.048
LF16	Soil			1.4	25.6	14.4	41	0.1	21.3	9.8	111	2.27	12.1	1.1	1.6	4.6	7	<0.1	0.5	0.2	48	0.05	0.025
LF17	Soil			1.6	11.0	8.5	35	0.2	9.7	3.2	110	1.56	11.3	0.4	<0.5	1.8	5	<0.1	0.4	0.4	45	0.03	0.039
LF18	Soil			1.0	11.7	10.7	55	<0.1	15.2	5.7	141	2.25	11.0	0.4	0.5	3.3	6	<0.1	0.3	0.2	43	0.04	0.020
LF19	Soil			0.5	38.1	4.8	74	<0.1	11.5	4.3	117	2.85	2.1	0.9	1.3	11.6	25	<0.1	0.1	0.8	12	0.02	0.033
LF20	Soil			1.6	15.9	10.5	38	<0.1	14.0	4.9	104	2.10	10.6	0.6	0.9	3.7	7	0.1	0.5	0.2	50	0.06	0.014
LF21	Soil			0.7	25.7	12.1	77	<0.1	29.1	10.9	245	1.92	9.4	0.7	1.3	6.0	10	0.2	0.5	0.2	21	0.10	0.046
LF22	Soil			0.6	45.2	16.1	18	0.9	16.7	3.1	65	1.18	3.1	3.8	3.9	0.3	26	0.3	0.4	0.2	7	0.56	0.163
LF23	Soil			1.4	6.6	9.1	20	<0.1	9.1	2.6	107	1.13	6.5	0.3	<0.5	1.4	5	<0.1	0.2	0.2	41	0.03	0.019
LF24	Soil			0.9	37.5	12.1	69	<0.1	35.2	14.8	190	2.56	12.2	0.8	6.5	6.4	7	0.2	0.4	0.2	33	0.04	0.024
LF25	Soil			1.6	29.5	15.5	62	0.1	24.8	8.5	213	3.00	13.1	0.6	2.2	5.0	14	<0.1	0.5	0.3	49	0.09	0.019
LF26	Soil			1.2	39.0	17.2	65	0.2	37.5	16.0	185	2.76	14.9	0.7	1.7	7.0	9	0.1	0.5	0.3	40	0.06	0.040
LF27	Soil			1.1	46.2	12.0	88	0.2	38.8	17.4	312	2.60	21.2	2.2	2.6	8.1	17	0.2	0.3	0.2	31	0.21	0.056
LF28	Soil			0.3	28.7	9.2	67	0.3	31.5	8.2	158	1.74	7.9	2.4	2.7	3.3	21	0.3	0.2	0.2	21	0.50	0.044
LF29	Soil			0.8	85.6	22.7	93	0.2	63.5	20.3	240	3.05	13.3	0.8	4.6	9.4	13	0.2	0.3	0.3	48	0.15	0.021
LF30	Soil			1.0	34.7	7.3	50	0.3	26.4	6.0	100	1.57	6.3	1.6	2.2	1.0	14	0.2	0.3	0.2	24	0.24	0.054

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Project: Roop L
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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
LF01	Soil			14	26	0.32	125	0.037	<20	1.38	0.004	0.05	0.1	0.02	2.2	0.1	<0.05	6	0.6	<0.2
LF02	Soil			15	22	0.25	135	0.031	<20	1.24	0.004	0.03	<0.1	0.01	1.8	0.2	<0.05	5	0.5	<0.2
LF03	Soil			17	30	0.52	180	0.035	<20	1.41	0.006	0.08	<0.1	0.02	2.0	0.2	<0.05	4	1.2	<0.2
LF04	Soil			21	30	0.44	222	0.036	<20	1.87	0.005	0.07	0.1	0.05	3.2	0.2	<0.05	5	1.1	<0.2
LF05	Soil			13	19	0.28	112	0.020	<20	0.98	0.004	0.04	<0.1	0.02	1.0	0.2	<0.05	4	0.6	<0.2
LF06	Soil			14	21	0.37	114	0.033	<20	1.05	0.005	0.05	0.4	0.03	1.3	0.2	<0.05	3	0.8	<0.2
LF07	Soil			14	21	0.40	202	0.035	<20	1.10	0.006	0.06	0.2	0.03	1.7	0.2	<0.05	3	0.7	<0.2
LF08	Soil			13	30	0.36	193	0.034	<20	1.49	0.006	0.05	0.6	0.02	1.8	0.1	<0.05	5	0.8	<0.2
LF09	Soil			15	31	0.44	237	0.036	<20	2.00	0.007	0.06	0.1	0.05	3.0	0.2	<0.05	5	0.6	<0.2
LF10	Soil			17	29	0.50	439	0.030	<20	1.83	0.009	0.10	0.2	0.05	2.3	0.4	<0.05	4	0.7	<0.2
LF11	Soil			14	16	0.19	191	0.024	<20	1.07	0.004	0.03	<0.1	<0.01	1.4	0.2	<0.05	5	<0.5	<0.2
LF12	Soil			12	26	0.42	199	0.032	<20	1.77	0.007	0.05	0.2	0.04	2.1	0.1	<0.05	5	0.7	<0.2
LF13	Soil			12	30	0.45	295	0.033	<20	1.33	0.006	0.07	0.3	0.02	1.5	0.2	<0.05	4	<0.5	<0.2
LF14	Soil			13	8	0.07	42	0.009	<20	0.36	0.004	0.02	<0.1	<0.01	0.3	0.1	<0.05	4	<0.5	<0.2
LF15	Soil			13	32	0.57	112	0.054	<20	1.54	0.006	0.10	0.2	0.02	1.9	0.2	<0.05	5	0.5	<0.2
LF16	Soil			24	20	0.25	142	0.021	<20	1.66	0.006	0.03	<0.1	0.02	1.8	0.1	<0.05	5	0.7	<0.2
LF17	Soil			12	14	0.14	41	0.025	<20	0.55	0.004	0.03	0.1	<0.01	0.8	0.1	<0.05	4	<0.5	<0.2
LF18	Soil			13	19	0.29	133	0.025	<20	1.01	0.005	0.04	<0.1	0.01	1.4	0.1	<0.05	5	<0.5	<0.2
LF19	Soil			33	21	0.68	77	0.043	<20	1.26	0.010	0.24	<0.1	<0.01	0.9	0.3	0.14	4	0.5	<0.2
LF20	Soil			13	18	0.24	135	0.030	<20	0.96	0.004	0.03	0.1	<0.01	1.3	0.1	<0.05	5	<0.5	<0.2
LF21	Soil			13	19	0.38	176	0.029	<20	1.01	0.006	0.07	0.2	0.01	1.4	0.2	<0.05	3	0.6	<0.2
LF22	Soil			20	14	0.10	457	0.005	<20	0.86	0.025	0.04	<0.1	0.21	0.4	0.2	0.17	2	1.1	<0.2
LF23	Soil			10	17	0.18	87	0.049	<20	0.63	0.005	0.08	<0.1	0.01	1.0	0.1	<0.05	7	<0.5	<0.2
LF24	Soil			12	32	0.58	144	0.037	<20	2.05	0.005	0.09	0.1	0.03	2.4	0.2	<0.05	5	<0.5	<0.2
LF25	Soil			13	30	0.61	119	0.052	<20	1.63	0.007	0.08	<0.1	0.02	2.1	0.2	<0.05	6	<0.5	<0.2
LF26	Soil			11	33	0.51	178	0.046	<20	2.27	0.010	0.08	0.2	0.05	2.6	0.2	<0.05	5	0.7	<0.2
LF27	Soil			28	27	0.56	182	0.052	<20	1.46	0.012	0.17	<0.1	0.04	2.0	0.3	<0.05	5	<0.5	<0.2
LF28	Soil			32	21	0.39	222	0.024	<20	1.20	0.014	0.09	<0.1	0.06	1.8	0.2	0.06	4	0.7	<0.2
LF29	Soil			21	39	0.72	279	0.084	<20	2.57	0.021	0.13	0.2	0.03	3.9	0.3	<0.05	6	0.7	<0.2
LF30	Soil			16	24	0.36	183	0.032	<20	1.04	0.009	0.12	<0.1	0.08	1.4	0.2	0.07	4	0.6	<0.2

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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LF31	Soil	1.0	21.9	10.5	64	0.3	25.7	7.2	182	2.16	7.5	0.7	1.5	1.6	15	<0.1	0.3	0.2	32	0.22	0.063		
LF32	Soil	0.8	40.5	9.2	70	0.1	30.5	11.1	236	2.38	9.0	1.1	1.8	3.1	21	0.1	0.3	0.2	30	0.16	0.046		
LF33	Soil	0.8	19.2	10.7	60	0.2	24.5	7.1	151	1.94	7.3	0.9	1.7	3.1	15	0.1	0.2	0.2	29	0.15	0.043		
LF34	Soil	1.3	23.0	14.8	80	0.3	27.4	14.5	425	2.74	11.4	0.9	1.4	2.7	13	<0.1	0.3	0.2	41	0.17	0.049		
LF35	Soil	1.0	29.5	12.9	78	0.2	29.7	14.1	390	2.41	10.6	0.9	3.3	3.6	17	0.1	0.3	0.2	35	0.23	0.057		
LF36	Soil	0.7	21.8	10.2	64	0.1	23.9	9.7	259	1.98	8.6	0.7	0.7	2.9	14	0.1	0.2	0.2	30	0.24	0.041		
LF37	Soil	0.8	23.9	11.1	74	0.1	25.7	24.4	891	2.11	8.5	0.6	2.1	3.2	21	0.1	0.3	0.1	30	0.32	0.057		
LF38	Soil	1.2	28.3	13.5	81	0.2	29.2	21.9	684	2.91	10.0	1.2	2.6	3.1	15	0.2	0.3	0.2	40	0.20	0.057		
LF39	Soil	0.9	32.6	11.2	82	<0.1	28.4	11.2	289	2.31	8.3	0.9	1.6	4.5	16	0.1	0.4	0.2	26	0.18	0.041		
LF40	Soil	0.6	31.4	10.7	81	0.2	31.7	10.3	458	2.10	7.7	1.4	10.8	3.2	45	0.4	0.5	0.2	25	0.92	0.060		
LF41	Soil	0.7	20.4	7.7	68	0.2	20.7	7.3	143	1.98	5.9	0.8	1.0	2.2	19	0.2	0.2	0.2	26	0.21	0.052		
LF42	Soil	5.4	59.8	16.2	96	0.8	41.8	15.1	227	4.03	6.1	2.2	1.2	4.6	10	0.5	0.4	0.4	148	0.10	0.077		
LF43	Soil	1.5	84.1	14.4	69	0.4	40.6	13.2	227	1.98	7.9	5.1	2.8	2.1	51	0.4	0.3	0.2	29	0.53	0.067		
LF44	Soil	1.1	51.6	20.8	65	<0.1	56.1	19.6	270	4.35	19.8	0.5	1.6	5.1	17	0.1	0.3	0.3	62	0.22	0.019		
LF45	Soil	0.5	34.1	4.9	15	0.1	4.0	1.5	37	0.97	1.3	0.4	7.3	0.6	5	0.1	0.1	0.1	49	0.05	0.018		
LF46	Soil	0.6	58.0	12.3	91	0.1	35.2	14.5	383	2.53	8.7	2.8	1.2	3.6	38	0.2	0.2	0.2	38	0.87	0.047		
L-G-02	Soil	4.7	194.9	12.1	57	1.0	28.3	6.0	133	6.88	15.9	3.8	3.5	3.0	14	0.2	0.8	0.3	56	0.04	0.160		
L-G-03	Soil	1.6	54.7	13.7	58	0.1	33.0	8.9	179	2.54	12.1	1.0	1.6	4.7	7	0.2	0.6	0.2	41	0.05	0.028		
L-G-05	Soil	2.4	52.9	12.1	63	0.5	28.3	6.6	148	2.94	12.3	1.3	2.4	1.7	9	0.1	0.6	0.2	43	0.06	0.056		
L-G-06	Soil	4.1	123.0	12.2	62	0.6	35.0	8.3	166	3.51	17.7	3.9	8.9	5.6	14	0.2	1.5	0.3	48	0.07	0.105		
L-G-08	Soil	1.8	65.9	13.9	98	0.1	51.0	14.8	234	2.67	12.2	2.2	4.0	5.2	10	0.3	0.6	0.2	38	0.07	0.048		
L-G-09	Soil	1.5	84.4	13.2	121	0.2	108.9	24.5	324	2.25	9.5	2.6	2.2	6.2	16	0.3	0.7	0.2	28	0.12	0.073		
L-G-011	Soil	2.1	11.8	13.0	47	0.2	12.9	5.3	175	2.71	12.5	0.6	3.9	3.6	7	0.2	0.4	0.2	62	0.05	0.038		
L-G-12	Soil	1.1	30.5	13.9	70	0.1	29.9	10.5	200	2.60	12.1	0.9	3.9	5.7	8	0.2	0.5	0.2	36	0.05	0.035		
L-G-14	Soil	1.5	16.0	11.2	56	0.2	20.8	6.3	178	3.02	16.1	0.4	1.3	2.9	6	0.1	0.5	0.2	51	0.05	0.034		
L-G-15	Soil	1.1	18.4	16.9	74	0.2	18.0	5.0	180	2.51	12.5	0.3	0.9	1.1	5	0.1	1.1	0.3	27	0.04	0.054		
L-G-17	Soil	1.3	18.4	12.4	54	0.1	20.0	8.0	187	2.48	13.6	0.7	1.4	3.6	10	0.1	0.4	0.2	41	0.06	0.023		
L-G-18	Soil	1.7	16.2	13.0	46	<0.1	19.0	9.2	181	2.80	13.3	0.6	2.7	3.9	5	0.1	0.6	0.2	50	0.05	0.024		
L-G-20	Soil	1.7	53.9	15.0	87	0.2	126.2	31.7	434	3.77	94.4	1.7	2.0	1.2	30	0.2	0.3	0.3	61	0.19	0.067		
L-G-21	Soil	1.4	27.6	12.5	58	<0.1	23.4	7.3	175	2.92	13.4	0.8	1.1	2.3	13	0.2	0.4	0.2	49	0.26	0.069		

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Project: Roop L
Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
LF31	Soil	10	33	0.59	179	0.058	<20	1.50	0.015	0.19	0.2	0.06	2.0	0.2	0.06	5	0.5	<0.2
LF32	Soil	16	25	0.48	211	0.063	<20	1.31	0.011	0.22	0.4	0.04	1.8	0.3	<0.05	5	<0.5	<0.2
LF33	Soil	15	25	0.52	177	0.047	<20	1.51	0.012	0.14	0.2	0.05	1.8	0.2	<0.05	5	<0.5	<0.2
LF34	Soil	15	31	0.56	202	0.053	<20	1.69	0.012	0.15	0.1	0.06	2.1	0.2	<0.05	5	<0.5	<0.2
LF35	Soil	16	27	0.50	248	0.052	<20	1.43	0.018	0.16	0.3	0.11	2.1	0.2	<0.05	4	<0.5	<0.2
LF36	Soil	11	21	0.43	223	0.047	<20	1.23	0.023	0.11	0.4	0.03	1.8	0.2	0.05	4	<0.5	<0.2
LF37	Soil	12	23	0.47	261	0.053	<20	1.26	0.028	0.14	0.1	0.03	1.9	0.2	0.07	4	<0.5	<0.2
LF38	Soil	17	31	0.58	243	0.053	<20	1.75	0.015	0.15	0.1	0.05	2.5	0.2	<0.05	5	<0.5	<0.2
LF39	Soil	16	21	0.46	275	0.038	<20	1.31	0.009	0.11	0.3	0.04	1.8	0.2	<0.05	4	<0.5	<0.2
LF40	Soil	12	22	0.46	364	0.036	<20	1.34	0.019	0.12	<0.1	0.10	1.9	0.2	0.10	4	0.6	<0.2
LF41	Soil	13	25	0.50	149	0.056	<20	1.40	0.014	0.16	0.2	0.06	1.7	0.2	0.08	5	<0.5	<0.2
LF42	Soil	14	51	0.76	181	0.111	<20	4.35	0.012	0.16	0.2	0.05	5.2	0.2	<0.05	11	1.7	<0.2
LF43	Soil	105	24	0.40	269	0.028	<20	1.62	0.013	0.08	0.1	0.06	2.0	0.2	<0.05	4	0.8	<0.2
LF44	Soil	10	45	0.89	184	0.096	<20	3.33	0.021	0.10	0.2	0.01	4.0	0.2	<0.05	8	<0.5	<0.2
LF45	Soil	9	7	0.07	73	0.048	<20	0.56	0.010	0.03	<0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
LF46	Soil	17	36	0.57	250	0.038	<20	2.06	0.072	0.11	0.1	0.05	2.3	0.2	<0.05	5	0.6	<0.2
L-G-02	Soil	23	30	0.24	106	0.021	<20	1.48	0.007	0.06	0.2	0.06	1.4	0.2	0.17	5	3.1	<0.2
L-G-03	Soil	13	24	0.43	191	0.031	<20	1.74	0.006	0.04	0.2	0.03	1.9	0.2	<0.05	4	0.9	<0.2
L-G-05	Soil	15	24	0.38	104	0.026	<20	1.49	0.007	0.05	0.2	0.04	1.6	0.2	<0.05	5	1.2	<0.2
L-G-06	Soil	21	28	0.45	116	0.032	<20	1.94	0.008	0.07	0.2	0.08	3.1	0.3	0.05	4	2.4	0.3
L-G-08	Soil	17	25	0.45	267	0.033	<20	1.83	0.008	0.06	0.2	0.06	2.5	0.2	<0.05	4	0.7	<0.2
L-G-09	Soil	23	21	0.40	563	0.037	<20	1.62	0.008	0.09	0.3	0.04	2.1	0.2	<0.05	3	1.2	<0.2
L-G-011	Soil	13	25	0.33	161	0.022	<20	1.82	0.006	0.04	0.1	0.03	2.1	0.1	<0.05	5	0.7	<0.2
L-G-12	Soil	13	26	0.43	232	0.031	<20	1.62	0.006	0.06	0.2	0.04	2.2	0.2	<0.05	4	0.8	<0.2
L-G-14	Soil	11	24	0.39	96	0.046	<20	1.17	0.005	0.05	0.3	0.02	1.6	0.2	<0.05	5	<0.5	<0.2
L-G-15	Soil	10	17	0.20	91	0.021	<20	0.58	0.003	0.03	0.2	0.04	0.7	0.1	<0.05	3	<0.5	<0.2
L-G-17	Soil	16	22	0.44	249	0.028	<20	1.44	0.007	0.05	0.1	0.02	1.6	0.2	<0.05	4	<0.5	<0.2
L-G-18	Soil	11	25	0.36	176	0.025	<20	1.77	0.004	0.04	0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
L-G-20	Soil	24	113	1.38	366	0.055	<20	2.60	0.009	0.12	0.2	0.06	2.3	0.4	<0.05	8	<0.5	<0.2
L-G-21	Soil	13	23	0.33	146	0.036	<20	1.29	0.008	0.06	0.2	0.01	1.5	0.1	<0.05	5	<0.5	<0.2

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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-G-23	Soil			1.7	37.6	13.0	50	<0.1	23.4	9.0	125	2.59	12.7	0.8	1.2	5.1	7	<0.1	0.4	0.3	47	0.05	0.021
L-G-24	Soil			1.3	49.4	7.8	54	<0.1	16.9	6.6	125	3.38	26.5	1.0	1.1	17.7	15	<0.1	0.3	0.6	22	0.06	0.056
L-G-26	Soil			1.9	9.5	10.5	37	<0.1	11.9	4.3	134	3.27	16.2	0.3	1.0	2.7	5	0.1	0.6	0.2	59	0.04	0.031
L-G-27	Soil			1.2	20.6	10.4	35	0.2	13.6	4.1	94	1.77	11.8	0.9	1.5	2.5	9	0.1	0.3	0.2	37	0.06	0.023
L-G-29	Soil			0.4	40.5	12.2	54	0.3	29.3	7.8	174	1.49	7.7	2.6	2.7	1.7	21	0.3	0.2	0.2	19	0.22	0.058
L-G-30	Soil			0.8	28.7	11.0	80	0.1	35.4	13.2	332	2.68	9.8	1.1	1.7	4.3	15	<0.1	0.3	0.2	43	0.21	0.060
L-G-32	Soil			1.0	24.5	12.0	89	0.1	32.9	14.8	547	2.93	11.1	1.3	2.2	4.4	19	<0.1	0.4	0.3	46	0.21	0.053
L-G-33	Soil			1.0	32.1	12.3	86	0.2	29.2	13.3	460	2.78	11.2	1.2	1.2	4.3	14	0.1	0.4	0.2	42	0.14	0.042
L-G-34	Soil			0.9	27.9	11.9	82	<0.1	29.4	10.9	292	2.53	11.0	1.2	1.3	7.3	14	0.1	0.4	0.2	39	0.15	0.042
L-G-34B	Soil			0.6	40.6	13.4	78	<0.1	28.6	9.2	191	2.59	11.3	0.7	2.0	7.4	6	<0.1	0.5	0.2	35	0.04	0.011
L-G-35	Soil			0.8	34.8	14.1	86	0.2	30.8	9.9	286	2.44	10.9	2.2	2.5	3.5	19	0.3	0.3	0.3	35	0.20	0.045
L-G-36	Soil			0.8	43.4	15.9	77	<0.1	37.1	12.1	252	3.08	15.6	0.5	<0.5	4.3	12	0.2	0.4	0.3	53	0.11	0.035
L-G-38	Soil			1.1	30.0	14.7	90	0.3	33.3	13.3	271	2.25	15.1	2.3	2.1	3.6	23	0.2	0.4	0.3	34	0.23	0.064
L-G-39	Soil			1.3	40.2	14.1	65	<0.1	23.5	9.0	186	2.40	11.2	3.1	2.0	7.0	11	<0.1	0.5	0.2	35	0.09	0.013
L-G-41	Soil			1.3	17.8	11.3	40	<0.1	13.7	5.0	114	1.97	10.1	1.2	0.5	4.5	9	<0.1	0.4	0.2	40	0.06	0.009
L-G-42	Soil			2.0	113.7	12.4	111	0.3	67.5	29.0	480	2.81	11.0	4.3	4.4	5.1	42	0.3	0.4	0.3	37	0.55	0.074
L-G-44	Soil			0.5	29.8	11.5	61	0.1	16.7	5.8	167	1.91	6.1	1.1	3.7	5.0	18	0.1	0.2	0.2	27	0.11	0.023
L-G-45	Soil			0.3	24.8	8.3	33	0.1	12.1	4.1	103	1.04	3.8	1.4	1.5	1.2	17	0.2	0.2	0.2	14	0.12	0.027
L-X-01	Soil			0.8	4.7	5.7	35	<0.1	6.7	3.4	154	1.10	3.8	1.3	1.6	4.2	11	0.2	0.2	0.2	19	0.13	0.044
L-X-02	Soil			0.4	6.8	7.4	35	<0.1	8.1	3.4	121	1.10	3.7	2.1	<0.5	3.8	12	0.1	0.2	0.2	16	0.13	0.040
L-X-03	Soil			0.7	10.7	11.6	45	<0.1	10.0	4.7	154	1.71	4.8	3.2	4.7	4.2	10	<0.1	0.2	0.3	25	0.09	0.034
L-X-04	Soil			0.7	19.1	14.3	75	0.2	19.1	10.4	601	2.14	6.6	7.2	0.9	5.8	24	0.4	0.4	0.4	30	0.30	0.057
L-X-05	Soil			0.7	9.7	9.2	42	<0.1	10.3	4.1	133	1.38	4.7	3.0	24.9	3.7	13	0.1	0.2	0.2	22	0.14	0.033
L-X-06	Soil			1.1	12.4	10.1	30	<0.1	8.2	3.2	79	1.32	5.1	2.4	0.9	4.0	8	0.1	0.3	0.2	29	0.05	0.015
L-X-07	Soil			2.1	10.4	10.5	30	<0.1	8.9	3.0	104	2.10	12.3	1.7	1.4	4.2	6	0.1	0.6	0.4	46	0.04	0.020
LX08	Soil			2.5	10.2	15.7	32	0.1	10.5	3.4	110	1.59	6.0	3.3	<0.5	2.5	8	0.1	0.3	0.2	34	0.08	0.024
LX09	Soil			5.8	11.0	13.2	50	<0.1	14.7	7.1	170	2.44	12.9	1.6	1.3	4.4	8	0.1	0.5	0.2	44	0.06	0.012
LX10	Soil			3.8	16.9	10.9	43	<0.1	16.9	6.5	144	2.48	12.6	2.8	<0.5	4.7	6	<0.1	0.6	0.2	41	0.05	0.016
LX11	Soil			3.3	9.3	11.4	39	0.1	10.5	4.7	157	1.88	9.0	5.1	<0.5	4.3	13	<0.1	0.4	0.2	41	0.13	0.015
LX12	Soil			2.8	11.7	14.1	49	0.1	11.2	4.7	130	1.99	9.5	3.4	0.5	4.5	9	<0.1	0.3	0.2	41	0.09	0.021

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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
L-G-23	Soil			17	21	0.32	129	0.017	<20	1.51	0.003	0.03	0.2	0.02	1.5	0.1	<0.05	5	0.5	<0.2
L-G-24	Soil			32	25	0.54	113	0.061	<20	1.60	0.013	0.25	0.1	0.02	1.4	0.3	0.13	4	0.6	<0.2
L-G-26	Soil			9	21	0.25	55	0.042	<20	1.07	0.004	0.04	0.2	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
L-G-27	Soil			17	12	0.24	115	0.024	<20	1.02	0.004	0.04	0.1	0.03	1.3	0.2	<0.05	4	<0.5	<0.2
L-G-29	Soil			32	22	0.34	279	0.024	<20	1.20	0.009	0.08	0.1	0.08	1.7	0.2	<0.05	4	0.7	<0.2
L-G-30	Soil			16	42	0.76	278	0.081	<20	2.02	0.018	0.29	0.1	0.07	3.3	0.3	<0.05	6	<0.5	<0.2
L-G-32	Soil			16	39	0.73	247	0.083	<20	1.96	0.016	0.25	0.3	0.06	3.0	0.3	<0.05	6	<0.5	<0.2
L-G-33	Soil			15	33	0.61	181	0.071	<20	1.65	0.009	0.17	0.2	0.04	2.6	0.2	0.10	6	<0.5	<0.2
L-G-34	Soil			16	32	0.66	151	0.086	<20	1.69	0.014	0.15	0.1	0.02	2.5	0.2	<0.05	5	<0.5	<0.2
L-G-34B	Soil			15	29	0.55	217	0.053	<20	1.77	0.006	0.11	0.4	0.06	3.1	0.2	<0.05	4	<0.5	<0.2
L-G-35	Soil			19	31	0.53	248	0.050	<20	1.61	0.009	0.14	0.1	0.07	2.6	0.2	<0.05	5	0.6	<0.2
L-G-36	Soil			12	39	0.74	105	0.098	<20	1.69	0.010	0.15	0.4	0.01	3.0	0.3	<0.05	6	<0.5	<0.2
L-G-38	Soil			23	26	0.49	236	0.032	<20	1.51	0.012	0.14	0.2	0.13	2.2	0.2	<0.05	5	0.7	<0.2
L-G-39	Soil			21	15	0.45	179	0.038	<20	1.34	0.007	0.05	0.1	0.04	2.1	0.1	<0.05	4	0.7	<0.2
L-G-41	Soil			16	19	0.32	110	0.032	<20	1.13	0.006	0.05	<0.1	<0.01	1.6	0.1	<0.05	4	<0.5	<0.2
L-G-42	Soil			37	28	0.54	356	0.058	<20	1.49	0.017	0.15	0.2	0.10	2.8	0.2	0.06	4	0.9	<0.2
L-G-44	Soil			14	24	0.42	137	0.047	<20	1.38	0.009	0.08	<0.1	0.04	1.8	0.2	<0.05	5	<0.5	<0.2
L-G-45	Soil			14	16	0.25	113	0.024	<20	0.77	0.008	0.06	0.2	0.04	0.9	0.2	<0.05	4	<0.5	<0.2
L-X-01	Soil			16	13	0.33	112	0.045	<20	0.69	0.008	0.10	0.5	0.01	0.9	0.2	<0.05	3	<0.5	<0.2
L-X-02	Soil			14	14	0.30	134	0.035	<20	0.68	0.009	0.08	4.2	0.02	1.1	0.2	0.06	3	<0.5	<0.2
L-X-03	Soil			16	18	0.36	134	0.046	<20	1.02	0.009	0.07	0.3	0.04	1.4	0.2	<0.05	4	0.5	<0.2
L-X-04	Soil			21	21	0.47	399	0.056	<20	1.21	0.011	0.11	0.5	0.05	2.0	0.2	<0.05	4	<0.5	<0.2
L-X-05	Soil			12	15	0.35	137	0.038	<20	0.80	0.007	0.05	1.5	0.03	1.2	0.2	<0.05	3	<0.5	<0.2
L-X-06	Soil			13	13	0.17	195	0.019	<20	0.89	0.006	0.03	<0.1	0.02	1.1	0.1	<0.05	4	<0.5	<0.2
L-X-07	Soil			10	16	0.21	69	0.040	<20	0.99	0.004	0.03	0.2	0.02	1.0	0.1	<0.05	5	<0.5	<0.2
LX08	Soil			13	13	0.21	191	0.031	<20	0.75	0.005	0.04	0.6	<0.01	1.0	0.2	<0.05	4	<0.5	<0.2
LX09	Soil			15	22	0.32	155	0.024	<20	1.27	0.004	0.03	<0.1	<0.01	1.6	0.1	<0.05	4	<0.5	<0.2
LX10	Soil			10	21	0.35	148	0.031	<20	1.34	0.004	0.03	0.2	0.01	1.7	0.1	<0.05	5	<0.5	<0.2
LX11	Soil			17	17	0.29	301	0.022	<20	1.05	0.005	0.03	0.1	<0.01	1.3	0.1	<0.05	4	<0.5	<0.2
LX12	Soil			13	19	0.32	163	0.024	<20	1.24	0.005	0.03	<0.1	0.05	1.7	0.2	<0.05	5	0.5	<0.2

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Project: Roop L
 Report Date: October 12, 2010

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Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LX13	Soil	1.0	2.3	6.2	6	<0.1	1.2	0.3	20	0.18	<0.5	0.5	<0.5	1.9	9	<0.1	<0.1	<0.1	12	0.06	0.006
LX14	Soil	1.7	9.2	13.0	49	<0.1	12.7	4.7	132	2.00	10.6	1.0	0.7	2.2	9	<0.1	0.6	0.2	40	0.07	0.026
LX15	Soil	2.5	28.4	18.1	86	0.2	22.4	13.9	757	2.19	13.0	54.1	1.7	4.5	34	0.3	0.5	0.4	33	0.71	0.052
LX16	Soil	3.3	28.6	9.5	74	0.2	23.6	11.6	542	1.87	6.0	25.7	1.7	3.9	45	0.3	0.4	0.2	35	0.97	0.068
LX17	Soil	2.1	18.0	13.5	48	<0.1	20.9	8.6	178	2.31	9.3	3.3	3.2	6.6	7	<0.1	0.5	0.2	42	0.06	0.016
LX18	Soil	2.4	34.1	14.0	56	<0.1	24.1	10.5	183	2.61	11.3	4.2	1.3	8.0	6	0.1	0.7	0.2	33	0.04	0.013
LX19	Soil	2.9	14.3	11.9	71	<0.1	16.2	13.2	410	2.07	8.6	11.9	0.7	6.4	25	0.1	0.4	0.2	37	0.29	0.059
LX20	Soil	2.1	17.2	13.3	48	0.1	17.9	6.9	164	2.36	9.7	1.0	<0.5	4.7	11	<0.1	0.5	0.2	37	0.09	0.014
LX21	Soil	1.9	15.7	5.2	26	0.2	7.6	3.0	406	0.72	3.5	22.4	<0.5	1.3	103	0.2	0.5	0.1	8	3.22	0.071
LX22	Soil	3.2	23.4	14.0	71	0.1	21.6	9.4	412	2.33	9.5	33.8	<0.5	10.4	28	0.1	0.5	0.2	38	0.44	0.051
LX23	Soil	4.0	10.0	13.2	44	<0.1	11.1	5.4	180	2.23	9.3	2.0	10.1	4.0	7	0.1	0.4	0.2	41	0.07	0.027
LX24	Soil	3.5	9.9	12.4	52	0.2	11.5	6.5	235	2.32	9.8	6.5	<0.5	4.7	11	0.1	0.5	0.4	49	0.14	0.023
LX25	Soil	3.5	15.7	11.1	61	<0.1	17.9	7.1	245	2.40	10.6	1.3	<0.5	2.1	10	0.2	0.4	0.2	41	0.10	0.033
LX26	Soil	1.4	30.8	1.4	8	<0.1	11.6	1.6	205	0.26	13.9	182.5	<0.5	0.7	123	0.3	1.7	<0.1	5	4.09	0.079
LX27	Soil	3.2	3.8	10.4	47	<0.1	11.9	2.8	82	1.61	9.6	0.6	<0.5	3.0	11	<0.1	0.4	0.2	35	0.18	0.033
LX28	Soil	2.6	17.5	15.7	70	0.1	20.0	6.4	149	3.55	16.0	1.1	1.3	2.9	13	0.2	1.0	0.2	46	0.14	0.069
LX29	Soil	1.9	27.6	10.3	87	0.2	25.0	7.7	232	2.33	10.5	2.9	1.7	4.0	19	0.2	1.0	0.2	28	0.20	0.055
LX30	Soil	1.6	32.2	11.2	79	0.2	28.5	8.0	228	2.35	9.6	3.0	2.1	4.6	24	0.2	1.0	0.2	26	0.23	0.072
LX31	Soil	1.8	8.9	8.7	39	<0.1	15.1	4.1	75	1.35	6.1	1.8	<0.5	3.1	12	<0.1	0.5	0.1	28	0.16	0.030
LX32	Soil	1.9	7.6	9.6	41	<0.1	13.1	3.1	70	1.50	6.9	1.4	0.7	2.5	10	<0.1	0.4	0.1	34	0.16	0.019
LX33	Soil	1.8	18.7	9.8	75	<0.1	15.7	6.5	630	1.73	5.4	9.0	7.4	0.4	18	0.7	0.3	0.2	47	0.36	0.036
LX34	Soil	1.9	17.6	12.2	74	0.3	19.4	10.9	1181	2.40	8.6	5.7	<0.5	2.6	13	0.4	0.3	0.2	60	0.21	0.033
LX35	Soil	1.7	17.5	14.6	102	0.1	23.3	8.9	280	3.01	15.4	0.5	<0.5	2.6	8	0.4	0.5	0.2	61	0.05	0.049
LX36	Soil	1.7	21.5	15.5	84	<0.1	24.1	10.1	310	3.00	15.7	0.6	11.0	3.6	8	0.2	0.7	0.2	52	0.05	0.055
LX37	Soil	2.1	23.7	14.9	89	0.3	28.3	10.3	286	3.05	15.4	0.5	1.0	3.2	13	0.1	0.5	0.2	57	0.10	0.033
LX38	Soil	1.2	9.5	11.6	89	0.3	16.2	7.0	188	2.49	10.6	0.5	<0.5	3.1	8	0.2	0.5	0.2	48	0.06	0.051
LX39	Soil	0.4	8.3	1.5	45	0.2	3.5	1.7	495	0.25	2.4	0.8	<0.5	<0.1	272	0.6	0.3	<0.1	4	5.19	0.072
LX40	Soil	1.1	25.5	16.5	74	0.1	30.8	12.2	607	2.42	8.4	1.1	3.6	3.1	25	0.2	0.5	0.2	23	0.30	0.056
L-Y-1	Soil	0.9	10.6	10.8	58	<0.1	13.7	7.2	258	1.78	6.2	2.2	1.6	4.6	14	<0.1	0.3	0.3	31	0.17	0.046
L-Y-2	Soil	0.6	12.5	9.4	61	<0.1	14.7	7.7	462	1.71	5.2	3.3	0.5	4.2	25	0.3	0.3	0.2	28	0.38	0.050

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
LX13	Soil			12	4	0.03	95	0.014	<20	0.40	0.005	0.02	<0.1	<0.01	0.6	0.2	<0.05	3	<0.5	<0.2
LX14	Soil			13	19	0.33	145	0.026	<20	0.99	0.004	0.04	<0.1	0.03	1.3	0.1	<0.05	4	<0.5	<0.2
LX15	Soil			28	21	0.41	266	0.036	<20	1.23	0.015	0.08	0.4	0.05	2.2	0.2	<0.05	4	0.5	<0.2
LX16	Soil			17	27	0.51	386	0.050	<20	1.29	0.030	0.10	0.3	0.05	2.8	0.2	0.05	5	<0.5	<0.2
LX17	Soil			16	23	0.37	209	0.029	<20	1.52	0.004	0.04	<0.1	0.02	1.9	0.1	<0.05	4	<0.5	<0.2
LX18	Soil			21	21	0.36	213	0.017	<20	1.32	0.008	0.04	<0.1	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
LX19	Soil			17	25	0.49	253	0.056	<20	1.11	0.011	0.09	0.2	0.03	2.1	0.2	<0.05	5	<0.5	0.3
LX20	Soil			14	21	0.36	239	0.023	<20	1.24	0.004	0.04	<0.1	<0.01	1.7	0.1	<0.05	4	<0.5	<0.2
LX21	Soil			7	9	0.21	261	0.012	<20	0.44	0.014	0.03	<0.1	0.09	0.8	<0.1	0.19	1	<0.5	<0.2
LX22	Soil			24	25	0.52	394	0.050	<20	1.24	0.012	0.11	0.2	0.04	2.9	0.2	<0.05	4	<0.5	<0.2
LX23	Soil			14	17	0.26	219	0.017	<20	1.12	0.003	0.03	0.1	<0.01	1.3	0.1	<0.05	4	<0.5	<0.2
LX24	Soil			14	21	0.30	322	0.021	<20	1.30	0.004	0.03	0.1	0.03	1.8	0.1	<0.05	4	<0.5	<0.2
LX25	Soil			10	19	0.39	212	0.039	<20	1.37	0.004	0.04	0.4	0.02	1.4	0.2	<0.05	6	<0.5	0.2
LX26	Soil			3	5	0.12	494	0.006	<20	0.27	0.020	0.02	<0.1	0.07	0.4	0.2	0.27	<1	1.1	<0.2
LX27	Soil			12	16	0.30	139	0.023	<20	0.79	0.004	0.04	0.1	<0.01	1.0	<0.1	<0.05	3	<0.5	0.3
LX28	Soil			12	21	0.31	496	0.012	<20	1.31	0.003	0.03	0.1	0.04	1.3	0.1	<0.05	4	<0.5	<0.2
LX29	Soil			15	15	0.30	874	0.012	<20	0.90	0.002	0.05	<0.1	0.18	1.9	0.1	<0.05	3	<0.5	<0.2
LX30	Soil			16	16	0.30	1307	0.012	<20	0.85	0.004	0.04	<0.1	0.21	2.2	<0.1	<0.05	3	<0.5	0.3
LX31	Soil			13	13	0.27	179	0.012	<20	0.87	0.003	0.04	<0.1	0.04	0.9	<0.1	<0.05	3	<0.5	<0.2
LX32	Soil			11	14	0.25	178	0.012	<20	0.87	0.003	0.04	0.1	0.03	1.0	<0.1	<0.05	4	<0.5	<0.2
LX33	Soil			11	18	0.25	397	0.015	<20	0.92	0.006	0.04	<0.1	<0.01	1.0	0.1	<0.05	4	<0.5	<0.2
LX34	Soil			12	26	0.37	539	0.019	<20	1.64	0.006	0.04	<0.1	0.02	2.3	0.1	<0.05	5	<0.5	<0.2
LX35	Soil			11	29	0.42	374	0.020	<20	1.87	0.004	0.05	0.2	0.02	2.3	0.1	<0.05	5	<0.5	<0.2
LX36	Soil			14	26	0.41	408	0.019	<20	1.75	0.004	0.05	0.1	0.09	2.2	0.1	<0.05	5	<0.5	<0.2
LX37	Soil			11	27	0.40	1935	0.014	<20	1.84	0.004	0.03	0.1	0.11	2.4	0.1	<0.05	5	<0.5	<0.2
LX38	Soil			11	25	0.37	306	0.023	<20	1.60	0.004	0.05	0.1	0.04	1.9	0.1	<0.05	5	<0.5	0.2
LX39	Soil			<1	4	0.12	1901	0.006	<20	0.16	0.016	0.02	<0.1	0.09	<0.1	<0.1	0.17	<1	0.5	<0.2
LX40	Soil			14	17	0.33	484	0.009	<20	0.98	0.006	0.04	<0.1	0.07	1.6	<0.1	<0.05	3	0.8	<0.2
L-Y-1	Soil			15	18	0.42	224	0.049	<20	1.01	0.010	0.09	0.8	0.03	1.6	0.2	<0.05	4	<0.5	0.3
L-Y-2	Soil			15	17	0.41	318	0.050	<20	0.99	0.013	0.09	1.6	0.05	1.6	0.2	<0.05	4	<0.5	<0.2

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Project: Roop L
 Report Date: October 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-Y-3	Soil			0.9	18.4	13.7	78	0.2	19.5	11.2	798	2.29	7.4	3.8	0.9	4.2	22	0.3	0.5	0.2	33	0.31	0.058
L-Y-4	Soil			0.8	10.7	10.4	62	<0.1	14.0	6.2	271	1.87	6.3	1.5	1.7	4.9	9	0.1	0.3	0.2	30	0.10	0.035
L-Y-5	Soil			1.1	14.0	11.1	64	0.1	16.8	6.1	172	1.75	6.6	5.4	<0.5	3.5	15	0.2	0.3	0.2	33	0.18	0.039
L-Y-6	Soil			1.3	11.2	10.9	58	0.1	13.7	6.6	234	1.70	6.5	4.2	1.7	3.0	17	0.1	0.2	0.2	31	0.23	0.040
L-Y-7	Soil			1.1	23.5	12.8	51	<0.1	24.6	7.8	168	2.32	10.2	0.6	<0.5	4.9	9	<0.1	0.5	0.2	38	0.08	0.027
L-Y-8	Soil			1.3	19.7	9.4	48	<0.1	20.4	6.4	154	2.36	10.6	0.5	1.3	3.3	9	<0.1	0.5	0.2	41	0.07	0.023
L-Y-9	Soil			0.5	25.8	11.0	63	<0.1	26.3	10.0	299	1.90	13.8	1.2	0.6	6.4	18	0.1	0.3	0.2	25	0.24	0.053
L-Y-10	Soil			5.4	55.3	22.6	113	0.6	39.4	18.9	1667	3.36	20.6	59.1	6.8	3.6	66	0.7	0.8	0.4	49	1.33	0.134
L-Y-11	Soil			2.2	13.1	11.9	52	<0.1	14.1	5.6	126	1.89	7.5	0.7	3.5	3.4	7	<0.1	0.3	0.1	28	0.08	0.026
L-Y-12	Soil			2.1	20.3	11.3	62	<0.1	18.7	7.3	182	2.38	11.3	2.5	1.9	5.6	8	0.1	0.6	0.2	48	0.06	0.014
L-Y-13	Soil			1.9	30.9	14.4	70	<0.1	24.8	6.7	218	2.64	16.7	1.3	7.9	4.2	10	<0.1	0.6	1.7	47	0.08	0.045
L-Y-14	Soil			2.5	27.9	16.7	71	0.2	20.9	10.8	442	2.05	9.9	17.1	0.8	4.0	20	0.3	0.3	0.4	28	0.38	0.048
L-Y-15	Soil			2.9	12.1	12.1	39	<0.1	12.6	4.8	126	2.45	10.6	1.3	0.9	3.4	6	<0.1	0.4	0.2	48	0.04	0.019
L-Y-16	Soil			3.9	15.7	13.8	64	<0.1	18.2	8.4	201	2.59	11.6	3.2	0.6	6.0	8	0.1	0.5	0.2	49	0.06	0.016
L-Y-17	Soil			2.0	16.8	12.9	74	0.2	19.7	7.8	205	2.21	10.1	10.7	1.3	7.1	23	0.1	0.3	0.4	37	0.34	0.035
L-Y-18	Soil			1.5	15.4	10.6	59	0.1	15.0	6.5	242	1.65	7.7	7.8	1.0	3.7	16	0.1	0.3	0.2	28	0.21	0.046
L-Y-19	Soil			3.4	12.1	12.5	55	<0.1	13.7	7.1	332	2.29	11.7	5.9	1.0	3.8	10	0.2	0.4	0.3	43	0.09	0.025
L-Y-21	Soil			1.2	24.7	13.2	57	<0.1	21.0	7.6	158	2.12	9.9	2.1	1.6	6.0	10	0.1	0.6	0.2	36	0.08	0.017
L-Y-22	Soil			3.1	21.4	12.8	50	<0.1	20.6	6.9	148	2.29	10.9	6.6	2.5	6.0	7	<0.1	0.6	0.2	45	0.05	0.012
L-Y-23	Soil			1.5	10.5	12.0	32	<0.1	11.3	4.0	107	2.28	7.7	1.2	<0.5	4.5	5	<0.1	0.4	0.2	48	0.04	0.022
L-Y-24	Soil			1.6	21.9	12.8	52	<0.1	19.5	8.0	163	2.39	10.1	2.4	2.2	6.4	7	0.1	0.5	0.2	41	0.05	0.017
L-Y-25	Soil			3.7	22.7	84.4	88	0.7	21.5	14.7	385	3.05	14.7	8.5	<0.5	7.4	15	0.8	0.5	0.3	62	0.15	0.034
L-Y-26	Soil			1.4	17.9	10.5	56	<0.1	17.4	6.5	149	2.17	9.1	0.7	1.0	4.2	7	<0.1	0.5	0.1	44	0.05	0.013
L-Y-27	Soil			1.4	24.3	11.6	57	<0.1	18.2	6.9	165	2.41	10.6	2.1	1.0	5.9	8	<0.1	0.7	0.2	38	0.06	0.019
L-Y-28	Soil			1.8	17.8	10.7	46	<0.1	15.1	5.8	139	2.12	9.9	3.8	1.0	4.9	6	<0.1	0.6	0.2	41	0.04	0.013
L-Y-29	Soil			7.8	12.4	22.1	41	0.1	13.1	4.3	207	2.07	31.5	38.5	<0.5	11.9	22	0.1	1.3	0.4	40	0.18	0.042
L-Y-33	Soil			1.8	12.1	11.0	69	<0.1	16.1	6.3	143	2.26	9.4	1.3	0.7	3.6	11	0.1	0.5	0.2	41	0.18	0.020
L-Y-34	Soil			1.6	22.5	11.7	61	<0.1	17.9	6.3	144	2.21	11.8	0.7	1.0	3.7	12	0.1	1.0	0.2	33	0.13	0.034
L-Y-35	Soil			1.6	24.0	9.5	57	<0.1	19.0	7.3	144	2.11	9.2	1.8	<0.5	4.7	10	<0.1	0.9	0.1	29	0.09	0.023
L-Y-36	Soil			1.8	14.7	12.3	71	<0.1	14.3	5.1	151	2.19	9.0	4.3	<0.5	2.6	12	0.3	0.3	0.2	53	0.16	0.027

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Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
L-Y-3	Soil	19	20	0.44	438	0.047	<20	1.04	0.010	0.09	0.7	0.06	1.9	0.2	<0.05	4	<0.5	<0.2
L-Y-4	Soil	14	17	0.36	127	0.049	<20	1.01	0.007	0.05	0.4	0.01	1.5	0.2	<0.05	4	<0.5	<0.2
L-Y-5	Soil	16	20	0.42	232	0.041	<20	1.13	0.013	0.07	0.6	0.04	1.7	0.2	<0.05	5	<0.5	<0.2
L-Y-6	Soil	15	18	0.37	203	0.035	<20	1.02	0.007	0.08	0.3	0.03	1.5	0.2	<0.05	4	<0.5	<0.2
L-Y-7	Soil	11	23	0.37	237	0.035	<20	1.48	0.004	0.06	0.4	0.01	2.0	0.1	<0.05	4	<0.5	0.4
L-Y-8	Soil	11	22	0.35	202	0.030	<20	1.22	0.006	0.04	<0.1	0.02	1.5	0.1	<0.05	4	<0.5	<0.2
L-Y-9	Soil	14	23	0.43	296	0.045	<20	1.10	0.019	0.11	0.6	0.02	2.0	0.2	<0.05	3	<0.5	0.3
L-Y-10	Soil	50	29	0.48	981	0.029	<20	2.26	0.018	0.15	0.3	0.10	3.6	0.4	0.07	6	1.0	<0.2
L-Y-11	Soil	10	17	0.28	120	0.029	<20	0.96	0.003	0.04	0.1	0.01	1.3	0.1	<0.05	3	<0.5	<0.2
L-Y-12	Soil	16	24	0.36	177	0.027	<20	1.47	0.006	0.04	0.6	<0.01	2.2	0.1	<0.05	4	<0.5	<0.2
L-Y-13	Soil	11	25	0.45	154	0.068	<20	1.23	0.009	0.06	0.4	0.02	2.0	0.2	<0.05	6	<0.5	0.2
L-Y-14	Soil	19	12	0.38	261	0.035	<20	1.11	0.010	0.10	0.2	0.06	2.0	0.2	0.08	4	<0.5	<0.2
L-Y-15	Soil	12	21	0.28	115	0.021	<20	1.30	0.003	0.03	<0.1	0.01	1.6	0.1	<0.05	4	<0.5	0.2
L-Y-16	Soil	13	25	0.35	259	0.027	<20	1.60	0.005	0.04	<0.1	0.02	2.4	0.2	<0.05	5	<0.5	<0.2
L-Y-17	Soil	19	23	0.49	335	0.044	<20	1.34	0.015	0.09	0.2	0.05	2.6	0.2	<0.05	5	<0.5	<0.2
L-Y-18	Soil	15	18	0.36	196	0.038	<20	1.00	0.010	0.07	0.2	0.05	1.6	0.2	<0.05	4	<0.5	<0.2
L-Y-19	Soil	15	20	0.34	166	0.039	<20	1.22	0.006	0.08	0.6	0.03	1.7	0.2	<0.05	5	<0.5	<0.2
L-Y-21	Soil	19	22	0.38	269	0.029	<20	1.26	0.006	0.04	<0.1	0.03	2.4	0.1	<0.05	3	<0.5	<0.2
L-Y-22	Soil	18	25	0.36	185	0.031	<20	1.53	0.005	0.04	0.2	0.03	2.9	<0.1	<0.05	5	0.6	<0.2
L-Y-23	Soil	13	18	0.24	69	0.036	<20	1.38	0.004	0.02	0.1	0.03	1.4	0.1	<0.05	6	<0.5	<0.2
L-Y-24	Soil	16	22	0.35	206	0.029	<20	1.46	0.005	0.04	0.1	0.03	2.6	0.1	<0.05	4	<0.5	<0.2
L-Y-25	Soil	16	29	0.48	343	0.061	<20	2.12	0.011	0.09	0.3	0.02	3.0	0.4	<0.05	8	<0.5	<0.2
L-Y-26	Soil	15	21	0.33	305	0.021	<20	1.33	0.006	0.02	<0.1	0.02	2.2	0.1	<0.05	4	<0.5	<0.2
L-Y-27	Soil	16	21	0.37	234	0.031	<20	1.27	0.006	0.05	0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
L-Y-28	Soil	15	19	0.27	168	0.021	<20	1.19	0.003	0.03	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
L-Y-29	Soil	18	23	0.41	122	0.084	<20	1.24	0.013	0.05	0.5	0.03	1.6	0.4	<0.05	8	<0.5	<0.2
L-Y-33	Soil	14	19	0.37	247	0.015	<20	1.25	0.003	0.05	<0.1	0.02	1.8	0.1	<0.05	4	0.6	<0.2
L-Y-34	Soil	14	16	0.25	629	0.010	<20	1.00	0.003	0.03	<0.1	0.17	1.6	<0.1	<0.05	3	<0.5	<0.2
L-Y-35	Soil	16	16	0.28	425	0.012	<20	0.95	0.003	0.03	<0.1	0.11	2.0	<0.1	<0.05	3	0.9	<0.2
L-Y-36	Soil	13	21	0.31	327	0.014	<20	1.28	0.005	0.06	<0.1	0.13	1.9	0.1	<0.05	5	<0.5	<0.2

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Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-Y-37	Soil			1.5	14.9	15.2	66	0.1	16.7	6.8	273	2.66	10.9	0.4	<0.5	2.2	15	0.2	0.6	0.2	49	0.18	0.035
L-Z01	Soil			0.7	10.9	7.6	46	0.1	10.6	4.2	153	1.26	3.7	1.9	<0.5	1.4	11	0.1	0.2	0.2	23	0.10	0.034
L-Z02	Soil			0.5	8.6	6.3	36	0.1	8.4	2.8	85	1.02	3.4	2.0	<0.5	1.0	11	<0.1	0.2	0.2	17	0.14	0.032
L-Z03	Soil			0.3	9.2	6.8	24	0.1	7.6	1.9	57	0.89	2.8	2.6	0.8	1.6	13	<0.1	0.2	0.2	13	0.14	0.027
L-Z04	Soil			0.7	12.5	10.1	38	0.2	13.0	4.2	98	1.25	4.0	4.4	1.6	1.7	13	0.1	0.3	0.2	18	0.14	0.039
L-Z05	Soil			1.2	12.1	10.3	55	0.2	13.2	6.1	183	1.73	6.5	4.3	0.8	4.8	14	<0.1	0.3	0.2	33	0.18	0.026
L-Z06	Soil			1.1	18.8	13.8	56	0.2	13.8	6.3	213	1.93	7.1	9.5	1.0	4.2	10	<0.1	0.3	0.2	32	0.10	0.039
L-Z07	Soil			0.9	19.4	11.4	59	<0.1	17.1	6.8	204	1.74	7.5	4.8	5.9	3.9	13	0.2	0.3	0.2	28	0.16	0.041
L-Z08	Soil			2.4	4.7	13.9	29	<0.1	6.5	2.2	65	2.34	5.5	0.6	0.6	2.9	5	<0.1	0.4	0.3	70	0.04	0.017
L-Z09	Soil			0.9	21.0	15.5	56	<0.1	22.2	8.0	179	2.29	10.7	0.8	<0.5	5.0	7	0.2	0.5	0.2	37	0.06	0.024
L-Z10	Soil			0.4	9.6	6.4	11	<0.1	3.9	0.9	23	0.44	1.0	3.2	<0.5	1.3	9	0.1	<0.1	0.1	13	0.10	0.012
L-Z11	Soil			0.9	24.5	13.4	78	0.3	20.1	6.0	150	1.75	4.6	14.6	0.7	3.0	28	0.3	0.3	0.2	28	0.42	0.053
L-Z12	Soil			1.7	18.3	18.2	81	0.2	19.5	7.0	145	1.87	8.4	11.9	0.9	3.0	23	0.2	0.4	0.3	42	0.34	0.058
L-Z13	Soil			2.5	11.7	15.8	57	0.3	11.7	10.3	383	4.75	7.2	2.1	<0.5	7.2	37	<0.1	0.3	0.2	99	0.24	0.036
L-Z14	Soil			0.8	19.1	14.9	43	0.3	18.7	6.5	119	2.11	7.0	1.0	<0.5	4.7	5	<0.1	0.3	0.2	29	0.05	0.013
L-Z15	Soil			2.9	15.3	14.8	54	0.1	20.1	7.5	147	2.59	10.6	1.2	<0.5	4.2	5	0.1	0.5	0.2	41	0.05	0.019
L-Z16	Soil			3.7	16.0	18.8	65	0.1	17.3	26.2	1202	2.55	12.5	7.1	<0.5	4.4	22	0.1	0.5	0.4	43	0.28	0.039
L-Z17	Soil			1.5	4.5	4.7	19	<0.1	4.3	1.3	64	0.63	2.3	1.4	<0.5	1.4	7	0.2	0.2	0.1	18	0.06	0.014
L-Z18	Soil			2.5	30.7	17.6	53	0.3	20.6	8.4	280	1.84	8.2	34.8	<0.5	4.4	20	0.3	0.4	0.3	34	0.30	0.046
L-Z19	Soil			1.6	27.1	11.7	47	<0.1	24.0	8.1	153	2.64	13.4	1.3	<0.5	4.5	9	<0.1	0.6	0.2	46	0.08	0.022



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CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2	
L-Y-37	Soil	11	21	0.30	481	0.013	<20	1.35	0.006	0.03	0.1	0.04	1.8	<0.1	<0.05	4	<0.5	<0.2
L-Z01	Soil	12	15	0.30	188	0.030	<20	0.84	0.009	0.05	0.1	0.03	1.4	0.2	<0.05	4	<0.5	<0.2
L-Z02	Soil	11	14	0.25	129	0.025	<20	0.67	0.009	0.05	0.2	0.03	1.0	0.1	<0.05	3	<0.5	<0.2
L-Z03	Soil	12	13	0.21	134	0.022	<20	0.67	0.008	0.05	0.2	0.05	1.2	0.2	<0.05	4	0.6	<0.2
L-Z04	Soil	15	16	0.28	217	0.025	<20	0.80	0.009	0.04	0.1	0.04	1.4	0.2	<0.05	3	<0.5	<0.2
L-Z05	Soil	16	18	0.36	231	0.044	<20	0.98	0.007	0.06	0.8	0.02	1.7	0.2	<0.05	4	<0.5	<0.2
L-Z06	Soil	19	20	0.36	146	0.041	<20	1.12	0.007	0.06	0.2	0.04	2.0	0.2	<0.05	4	<0.5	<0.2
L-Z07	Soil	14	18	0.39	248	0.041	<20	1.08	0.012	0.07	0.1	0.02	1.8	0.2	<0.05	4	<0.5	<0.2
L-Z08	Soil	8	12	0.11	80	0.089	<20	0.83	0.007	0.02	<0.1	0.01	0.8	0.1	<0.05	10	<0.5	<0.2
L-Z09	Soil	13	22	0.35	188	0.031	<20	1.30	0.007	0.04	0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
L-Z10	Soil	12	<1	0.07	117	0.014	<20	0.39	0.006	0.03	0.1	<0.01	0.6	0.1	<0.05	3	<0.5	<0.2
L-Z11	Soil	19	25	0.45	351	0.029	<20	1.34	0.012	0.10	0.3	0.10	2.5	0.3	0.08	5	<0.5	<0.2
L-Z12	Soil	18	25	0.47	320	0.034	<20	1.35	0.009	0.10	0.2	0.08	2.4	0.2	0.07	5	0.7	<0.2
L-Z13	Soil	13	40	1.00	214	0.140	<20	3.20	0.018	0.09	0.1	0.02	2.7	0.2	<0.05	16	<0.5	<0.2
L-Z14	Soil	12	18	0.28	155	0.030	<20	1.34	0.003	0.06	0.1	0.01	1.7	0.1	<0.05	4	<0.5	0.3
L-Z15	Soil	10	23	0.30	101	0.035	<20	1.59	0.003	0.04	0.2	0.02	1.7	0.1	<0.05	5	<0.5	<0.2
L-Z16	Soil	13	22	0.43	238	0.055	<20	1.12	0.009	0.10	0.3	0.04	1.8	0.2	<0.05	5	0.6	0.2
L-Z17	Soil	9	7	0.07	118	0.014	<20	0.41	0.004	0.04	<0.1	0.02	0.6	<0.1	<0.05	2	<0.5	0.2
L-Z18	Soil	21	21	0.36	357	0.042	<20	1.16	0.013	0.05	0.4	0.03	2.2	0.2	<0.05	5	<0.5	<0.2
L-Z19	Soil	12	26	0.41	184	0.040	<20	1.65	0.007	0.05	0.1	0.02	2.3	0.2	<0.05	5	<0.5	0.2



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Project: Roop L
 Report Date: October 12, 2010

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI10000504.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
LA29	Soil	1.0	15.6	3.4	49	0.2	8.6	1.5	141	0.26	0.9	13.8	<0.5	0.7	37	0.7	0.2	<0.1	<2	0.67	0.038
REP LA29	QC	0.9	15.8	3.1	50	0.2	8.8	1.4	144	0.25	0.9	12.6	<0.5	0.7	37	0.8	0.2	<0.1	2	0.66	0.038
L-B-32	Soil	1.9	37.1	18.1	59	<0.1	27.0	9.8	155	2.93	11.2	2.7	1.7	5.2	7	0.2	0.5	0.4	38	0.06	0.026
REP L-B-32	QC	1.9	36.5	18.8	62	<0.1	27.7	9.2	156	2.97	10.9	2.6	2.2	5.1	7	0.1	0.5	0.3	38	0.06	0.027
L-C36	Soil	0.7	9.6	8.6	15	0.3	5.9	1.6	31	0.65	2.6	0.8	<0.5	0.3	6	<0.1	0.1	0.2	22	0.05	0.016
REP L-C36	QC	0.7	9.8	8.5	14	0.3	6.1	1.5	31	0.62	2.4	0.9	<0.5	0.3	6	0.1	0.1	0.2	21	0.04	0.016
LE17	Soil	1.8	33.6	18.1	96	0.2	37.3	26.6	987	1.82	9.6	3.3	1.4	6.2	51	0.8	0.3	0.5	14	0.97	0.069
REP LE17	QC	1.6	35.6	19.2	99	0.2	36.5	28.0	995	1.95	10.8	3.3	2.1	6.4	49	0.8	0.3	0.4	19	0.99	0.070
LF12	Soil	1.3	17.8	15.3	51	0.2	20.0	8.0	190	2.77	10.5	0.7	2.2	4.0	8	<0.1	0.6	0.2	45	0.06	0.033
REP LF12	QC	1.2	17.9	15.3	50	0.2	19.6	7.9	188	2.76	10.7	0.7	1.7	3.8	8	0.1	0.6	0.2	45	0.07	0.032
LF33	Soil	0.8	19.2	10.7	60	0.2	24.5	7.1	151	1.94	7.3	0.9	1.7	3.1	15	0.1	0.2	0.2	29	0.15	0.043
REP LF33	QC	0.8	20.0	10.1	66	0.1	25.3	7.6	166	2.13	8.1	0.9	2.0	3.1	14	<0.1	0.2	0.2	30	0.16	0.041
L-G-35	Soil	0.8	34.8	14.1	86	0.2	30.8	9.9	286	2.44	10.9	2.2	2.5	3.5	19	0.3	0.3	0.3	35	0.20	0.045
REP L-G-35	QC	0.8	33.8	13.2	84	0.2	30.4	9.5	278	2.32	10.4	2.1	2.2	3.1	19	0.2	0.3	0.3	34	0.18	0.047
L-Y-15	Soil	2.9	12.1	12.1	39	<0.1	12.6	4.8	126	2.45	10.6	1.3	0.9	3.4	6	<0.1	0.4	0.2	48	0.04	0.019
REP L-Y-15	QC	3.1	12.9	12.4	40	<0.1	13.3	5.2	128	2.57	10.9	1.3	0.9	3.5	6	<0.1	0.5	0.2	52	0.05	0.019
Reference Materials																					
STD DS7	Standard	22.8	106.8	64.3	377	1.0	55.9	9.4	600	2.33	51.1	4.8	65.1	4.5	80	6.1	5.0	4.4	81	0.88	0.083
STD DS7	Standard	21.6	109.2	68.3	411	0.9	58.9	9.9	613	2.39	54.0	4.9	63.2	4.7	72	6.9	5.3	5.0	86	0.97	0.088
STD DS7	Standard	23.4	115.7	71.5	399	1.0	54.4	9.8	625	2.34	56.7	5.1	67.4	4.7	74	6.9	5.4	5.0	89	0.94	0.081
STD DS7	Standard	20.9	106.8	73.9	381	1.4	51.9	8.6	619	2.25	52.1	5.2	57.6	4.6	79	6.1	5.7	5.3	83	0.90	0.077
STD DS7	Standard	20.3	103.4	76.9	405	1.0	54.9	8.9	618	2.43	53.1	5.4	65.9	5.1	80	6.6	6.2	5.4	84	0.94	0.077
STD DS7	Standard	22.7	104.8	62.7	397	1.0	57.7	9.8	601	2.39	51.5	4.5	61.3	4.3	72	6.3	4.8	4.3	83	0.91	0.077
STD DS7	Standard	20.7	103.5	68.1	402	1.0	52.0	9.3	604	2.32	56.7	4.9	56.5	4.6	74	6.9	5.8	4.5	84	0.92	0.081
STD DS7	Standard	20.8	113.3	64.7	386	1.0	54.6	9.5	590	2.31	53.4	4.9	58.1	4.5	78	6.8	5.4	4.6	87	0.97	0.077
STD DS7	Standard	20.7	106.4	66.9	413	1.0	55.8	9.4	629	2.38	54.7	4.9	56.6	4.6	76	6.4	4.8	4.6	85	0.94	0.077
STD OREAS45PA	Standard	0.9	561.6	17.5	111	0.3	276.7	101.4	1057	16.14	4.7	1.1	50.8	6.5	14	0.1	0.2	0.2	204	0.23	0.035
STD OREAS45PA	Standard	0.9	573.7	17.1	113	0.3	264.3	102.2	983	15.70	4.4	1.1	44.2	6.4	13	<0.1	0.1	0.2	199	0.22	0.037

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Roop L
Report Date: October 12, 2010

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QUALITY CONTROL REPORT

WHI10000504.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
LA29	Soil	7	6	0.04	461	0.006	<20	0.19	0.026	<0.01	<0.1	0.06	0.8	<0.1	0.15	<1	<0.5	<0.2
REP LA29	QC	6	6	0.04	460	0.006	<20	0.19	0.024	<0.01	<0.1	0.06	0.9	<0.1	0.14	<1	0.5	<0.2
L-B-32	Soil	13	27	0.41	140	0.039	<20	1.89	0.005	0.07	0.2	0.03	2.2	0.2	<0.05	5	<0.5	<0.2
REP L-B-32	QC	12	27	0.41	142	0.039	<20	1.89	0.005	0.07	0.2	0.03	2.1	0.2	<0.05	5	<0.5	<0.2
L-C36	Soil	10	10	0.10	130	0.010	<20	0.72	0.005	0.04	<0.1	0.01	0.7	0.1	<0.05	4	<0.5	<0.2
REP L-C36	QC	10	11	0.10	131	0.008	<20	0.72	0.005	0.04	<0.1	0.01	0.6	0.1	<0.05	4	<0.5	<0.2
LE17	Soil	28	24	0.45	128	0.067	<20	1.32	0.025	0.27	0.7	0.35	1.3	0.3	0.13	4	<0.5	<0.2
REP LE17	QC	28	23	0.49	124	0.069	<20	1.34	0.024	0.28	2.0	0.35	1.5	0.3	0.14	4	0.5	<0.2
LF12	Soil	12	26	0.42	199	0.032	<20	1.77	0.007	0.05	0.2	0.04	2.1	0.1	<0.05	5	0.7	<0.2
REP LF12	QC	12	26	0.42	197	0.034	<20	1.79	0.008	0.05	0.1	0.03	2.1	0.1	<0.05	5	0.8	<0.2
LF33	Soil	15	25	0.52	177	0.047	<20	1.51	0.012	0.14	0.2	0.05	1.8	0.2	<0.05	5	<0.5	<0.2
REP LF33	QC	14	27	0.51	174	0.051	<20	1.51	0.012	0.14	<0.1	0.04	1.9	0.2	<0.05	5	<0.5	<0.2
L-G-35	Soil	19	31	0.53	248	0.050	<20	1.61	0.009	0.14	0.1	0.07	2.6	0.2	<0.05	5	0.6	<0.2
REP L-G-35	QC	18	28	0.52	233	0.049	<20	1.62	0.007	0.13	0.1	0.07	2.4	0.2	<0.05	5	0.5	<0.2
L-Y-15	Soil	12	21	0.28	115	0.021	<20	1.30	0.003	0.03	<0.1	0.01	1.6	0.1	<0.05	4	<0.5	0.2
REP L-Y-15	QC	12	21	0.28	116	0.023	<20	1.31	0.005	0.03	<0.1	0.02	1.8	0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	14	184	1.06	423	0.119	43	1.06	0.110	0.45	3.4	0.23	2.3	4.2	0.18	5	3.6	1.3
STD DS7	Standard	13	188	1.09	427	0.115	41	1.03	0.106	0.49	3.6	0.23	2.5	4.2	0.21	5	3.1	1.2
STD DS7	Standard	13	185	1.03	392	0.119	32	1.03	0.103	0.45	3.4	0.20	2.6	4.3	0.20	5	3.5	1.1
STD DS7	Standard	12	186	1.00	387	0.122	27	0.96	0.090	0.43	3.4	0.20	2.3	4.0	0.18	4	3.0	1.0
STD DS7	Standard	13	186	1.01	387	0.134	38	0.99	0.100	0.47	3.1	0.21	2.6	4.3	0.23	5	3.2	0.6
STD DS7	Standard	12	177	1.04	390	0.122	37	0.95	0.088	0.44	3.7	0.21	2.3	4.1	0.20	5	2.6	1.2
STD DS7	Standard	13	180	1.02	408	0.126	36	1.03	0.099	0.45	3.3	0.23	2.7	4.2	0.20	5	3.3	1.5
STD DS7	Standard	14	190	1.04	388	0.129	43	1.00	0.103	0.45	3.4	0.22	2.9	3.9	0.16	5	3.3	1.1
STD DS7	Standard	13	191	1.04	409	0.122	37	1.04	0.097	0.45	3.3	0.22	2.6	4.2	0.18	5	3.3	1.6
STD OREAS45PA	Standard	16	705	0.11	187	0.137	<20	3.30	0.012	0.07	<0.1	0.03	41.2	<0.1	<0.05	16	0.6	<0.2
STD OREAS45PA	Standard	15	769	0.11	179	0.114	<20	3.14	0.014	0.07	<0.1	0.02	41.3	<0.1	<0.05	16	0.8	0.3

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Project: Roop L

Report Date: October 12, 2010

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QUALITY CONTROL REPORT

WHI10000504.1

		1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX U ppm 0.1	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01	1DX P % 0.001
STD OREAS45PA	Standard	0.9	541.8	19.2	110	0.3	253.6	92.7	943	15.48	4.7	1.2	48.8	6.6	13	0.1	0.1	0.2	188	0.20	0.031
STD OREAS45PA	Standard	0.9	536.7	18.7	116	0.3	264.1	101.4	1047	15.64	5.3	1.3	42.1	6.9	15	0.1	0.2	0.2	187	0.22	0.032
STD OREAS45PA	Standard	0.9	538.1	18.3	117	0.3	271.8	97.0	1018	15.04	4.4	1.2	42.1	6.7	15	<0.1	0.1	0.2	186	0.22	0.035
STD OREAS45PA	Standard	0.8	550.1	17.1	111	0.3	256.0	97.1	1013	16.12	5.2	1.0	46.2	6.0	14	0.1	0.1	0.2	185	0.21	0.032
STD OREAS45PA	Standard	0.9	576.0	17.9	115	0.3	269.5	103.2	1018	16.55	5.1	1.1	45.2	6.5	14	<0.1	0.1	0.2	189	0.22	0.034
STD OREAS45PA	Standard	0.9	605.2	17.8	112	0.3	283.0	102.8	1038	16.62	4.9	1.1	44.4	6.4	14	0.1	0.1	0.2	182	0.22	0.034
STD OREAS45PA	Standard	1.0	576.9	18.2	113	0.3	279.6	102.1	1023	16.52	5.3	1.1	48.7	6.4	13	<0.1	0.1	0.2	205	0.22	0.031
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
STD OREAS45PA Expected		0.9	600	19	119	0.3	281	104	1130	16.559	4.2	1.2	43	6	14	0.09	0.13	0.18	221	0.2411	0.034
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Report Date: October 12, 2010

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QUALITY CONTROL REPORT

WHI10000504.1

		1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Ti ppm	1DX S %	1DX Ga ppm	1DX Se ppm	1DX Te ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD OREAS45PA	Standard	15	696	0.10	180	0.112	<20	2.95	0.010	0.06	<0.1	0.03	36.4	<0.1	<0.05	16	0.8	<0.2
STD OREAS45PA	Standard	16	711	0.11	175	0.135	<20	3.11	0.011	0.07	<0.1	0.03	39.0	<0.1	<0.05	16	<0.5	<0.2
STD OREAS45PA	Standard	15	686	0.12	163	0.135	<20	3.23	0.012	0.07	<0.1	0.02	39.9	<0.1	0.05	16	0.9	<0.2
STD OREAS45PA	Standard	16	708	0.11	177	0.138	<20	3.21	0.012	0.07	<0.1	0.01	42.4	<0.1	<0.05	17	<0.5	<0.2
STD OREAS45PA	Standard	16	712	0.11	177	0.128	<20	3.26	0.013	0.07	<0.1	0.03	44.2	<0.1	<0.05	18	0.8	<0.2
STD OREAS45PA	Standard	16	735	0.12	176	0.135	<20	3.29	0.013	0.07	<0.1	0.03	46.8	<0.1	<0.05	17	<0.5	<0.2
STD OREAS45PA	Standard	15	783	0.10	174	0.137	<20	3.25	0.009	0.07	<0.1	0.03	41.6	<0.1	<0.05	17	0.7	<0.2
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
STD OREAS45PA Expected		16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	43	0.07	0.03	16.8	0.54	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2