19 June 2012

The Manager – Company Announcements
ASX Limited

For release to market

Copy of Announcement by Indian Pacific Resources Limited (IPR) to its own shareholders regarding assay results of its Tratramarina Prospect in Madagascar

On 5 June 2012, APA Financial Services Limited (APP) directors announced to the ASX that APA had entered into a binding Heads of Agreement with IPR for the acquisition of 100% of the capital of that company on the terms set out in the announcement published on the ASX website Code APP. The Heads of Agreement contains several conditions precedent including due diligence by both parties and approval of APP shareholders. The agreement is currently in the due diligence stage.

IPR yesterday afternoon (18 June 2012) made an announcement to the shareholders of IPR in relation to results of certain assay results for samples collected from its Tratramarina Prospect in Madagascar. A copy of that announcement is the basis of this announcement by APP.

The Directors of APP make no comment or conclusion on the announcement by IPR and release it to the APP shareholders via the ASX announcements website for the information of shareholders and the market generally.

Competent Person Statement

The text of the IPR announcement contains a statement that Mr. Scott Caithness, the Managing Director of IPR, qualifies as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Caithness consents to the release of the IPR announcement to shareholders of APP.

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SHAREHOLDER RELEASE
15 June 2012

INDIAN PACIFIC RESOURCES

TRATRAMARINA PROSPECT
ENCOURAGING INITIAL DAVIS TUBE RECOVERY RESULTS FROM DRILLHOLES

Highlights

- **High grade concentrates containing +66% Fe from initial Davis Tube Test results**
- **Concentrates have low silica, alumina and phosphorous contents with grades of less than 5% SiO_2 , 0.3% Al_2O_3 and 0.02%P**
- **High quality concentrate can be produced at coarse grind sizes with 8 of 11 intervals producing a +66% Fe concentrate at 100µm grind and all intervals producing a +65.5%Fe concentrate at 75µm grind**
- **Average mass recoveries of magnetic material (%WT Mag) range up to 53%**
- **Confirms the readily upgradeable nature of the Tratramarina mineralisation**
- **Confirms the potential for the Tratramarina Prospect to produce a high quality magnetite concentrate at low processing costs**

Indian Pacific Resources ("IPR") is pleased to announce that it has received Davis Tube Recovery ("DTR") and magnetic concentrate assay results for all eleven composite samples collected from diamond holes drilled at its wholly owned Tratramarina Prospect, located on the central east coast of Madagascar.

The DTR results, the first for the prospect, are excellent and provide significant encouragement that the Tratramarina mineralisation has the potential to produce a high quality magnetite concentrate grading +66% Fe at a coarse grind size.

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DTR Analysis

DTR is an industry standard analytical technique that measures the recovery onto magnets of magnetic material from a sample ground to a specific grain size. It provides a laboratory estimate of the potential for commercial separation of magnetite using magnetic separators. The magnetic concentrate produced through DTR is analysed using X-ray fusion ('XRF') to determine its iron content and the content of contaminants such as SiO_2, Al_2O_3 and P.

A total of eleven 10m composite samples collected from mineralised intervals in drillholes TR001-007 were submitted for DTR analysis to provide a 'sighter test' of mass recoveries and concentrate grades. The composites consisted of 5 x 2m samples collected from three mineralisation types –

1) Weathered hematite-magnetite quartzite,
2) Fresh, moderate grade (20-30% Fe), interbedded magnetite-quartzite and gneiss, and
3) Fresh, high grade (+30% Fe) magnetite-quartzite.

All samples were crushed and ground to 125µm, 100µm, 75µm and 50µm to determine the optimal grind sizes to produce a high quality concentrate. The DTR analysis was done by Genalysis in South Africa. The sample intervals and DTR results are summarised in Table 1 below and all results are included in Appendices 1 and 2.

Key conclusions

Analysis and interpretation of the DTR results received is still in progress however key initial conclusions are:

- A high quality iron concentrate grading +66% Fe can be produced
- High quality concentrate can be produced at coarse grind sizes - at a 100µm grind 8 of the 11 composite intervals have an average concentrate grade of +66% Fe; at a 75µm grind, 8 of the composite intervals have an average concentrate grade of +66% Fe with the remaining 3 composites grading +65.5% Fe.[1]
- The feed grade does not impact the quality of the concentrate – a high quality concentrate can be produced from moderate and low grade feed.
- For unweathered mineralisation, there is a very strong positive correlation between feed iron grade and DTR mass recovery, that is, the higher the feed grade the higher the mass recovery of magnetic material;

[1] Conclusion based on removing samples 192374 and 192918 from respective composites as they skew results low.

- Mass recoveries for high grade mineralisation (+30% Fe) are typically greater than 40% and range up to 60%;
- Mass recoveries for moderate grade mineralisation (20-30% Fe) are in the range of 20-40%;

- Mass recoveries for weathered, near surface mineralisation are low (less than 30%) which is expected given that magnetite has been altered to weakly magnetic hematite and goethite.

The mass recoveries of magnetic material and quality of concentrate produced demonstrate that the Tratramarina mineralisation has the potential to be readily upgradeable to a high quality concentrate at coarse grind sizes.

The grind size has significant implications for operating costs in magnetite mining operations as a finer grind requires more power consumption. Essentially, coarser grind equals less power requirement during processing which means lower operating costs and lower capital costs if construction of a power plant is required.

The DTR results provide further encouragement that the Tratramarina Prospect has the potential to host a significant magnetite iron ore deposit. IPR's exploration target at Tratramarina is 200-400Mt grading 25-35% Fe. The Exploration Potential for the entire Tratramarina Project area, which includes the Tratramarina, Ambalavato and Befosa prospects, is 500-900Mt grading 25-35% Fe. [2]

[2] The potential quality and grade of iron deposits reported as exploration potential is conceptual in nature and there has been insufficient exploration to define a Mineral Resource and its uncertain if future exploration will result in the determination of a Mineral Resource,

Competent Person Statement

The information in the release relating to exploration results is based on information complied by Mr Scott Caithness who is the Managing Director of Indian Pacific Resources Limited, a member of the Australian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Caithness consents to the inclusion in the report for the matters based on his information in the form and context in which it appears.

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Table 1: Summary of DTR Results

Drillhole	Interval (m)	Sample Numbers	Average Composite Interval Assays[3] (%)				Grind Size (µm)	Average Mass Recovery[3]%	Average Concentrate Assays[3] (%)			
			Fe	SiO_2	Al_2O_3	P			Fe	SiO_2	Al_2O_3	P
DD11TR001[4]	6-16	193703-706, 192374	32.05	42.26	7.10	0.10	125	28.04	66.29	3.46	1.62	0.049
							100	26.88	66.68	3.28	1.51	0.050
							75	24.92	66.40	3.32	1.80	0.048
							50	26.40	67.37	2.80	1.28	0.043
DD11TR002[4]	14-24	192918-921, 192378	24.85	60.46	2.17	0.077	125	20.53	64.53	7.82	0.66	0.048
							100	20.78	64.67	7.80	0.62	0.047
							75	19.80	65.19	6.83	0.63	0.046
							50	18.72	65.43	6.66	0.68	0.046
DD11TR003	172-182	192404-408	26.18	53.00	7.29	0.013	125	18.25	68.91	3.76	1.48	0.007
							100	18.30	69.71	2.72	1.30	0.007
							75	18.07	70.37	2.01	1.13	0.007
							50	18.02	70.36	1.72	1.02	0.007
DD11TR004	30-40	192445-449	29.19	45.46	6.27	0.043	125	9.68	67.86	2.33	0.81	0.014
							100	9.25	68.13	1.94	0.81	0.014
							75	8.84	68.12	2.16	0.96	0.015
							50	8.55	68.43	2.09	0.94	0.014
DD11TR004	110-120	192487-491	36.56	43.04	0.51	0.049	125	53.41	65.29	8.14	0.14	0.005
							100	52.79	66.74	6.56	0.14	0.005
							75	51.15	69.76	2.72	0.12	0.004
							50	51.46	68.43	3.93	0.16	0.005

DD11TR004	140-150	192803-807	23.56	52.07	2.19	0.04	125	25.91	65.85	3.98	0.54	0.005
							100	28.41	66.63	3.28	0.58	0.005
							75	27.24	67.47	2.13	0.49	0.004
							50	26.96	66.30	2.88	0.53	0.004
DD11TR004	160-170	192813-817	37.22	42.39	0.48	0.08	125	53.74	68.66	3.70	0.21	0.008
							100	53.37	69.23	3.08	0.22	0.009
							75	52.27	68.97	3.14	0.22	0.012
							50	52.95	66.75	5.63	0.24	0.018
DD12TR005	34-44	192861-865	37.55	45.34	0.35	0.014	125	53.39	65.90	8.59	0.27	0.003
							100	53.09	66.54	7.73	0.28	0.003
							75	51.20	68.54	4.66	0.24	0.003
							50	50.22	68.69	4.42	0.25	0.003
DD12TR006	100-110	193508-512	30.60	52.37	0.34	0.041	125	43.82	65.78	7.18	0.10	0.009
							100	43.76	65.48	7.40	0.11	0.008
							75	44.45	65.64	7.16	0.11	0.010
							50	44.10	65.67	6.99	0.12	0.011
DD12TR007	70-80	192307-311	29.16	49.55	1.02	0.07	125	36.60	62.55	9.37	0.28	0.007
							100	36.59	61.81	10.50	0.28	0.007
							75	35.29	65.70	4.94	0.29	0.007
							50	35.47	66.68	4.57	0.28	0.006
DD12TR007	112-122	192329-333	34.85	44.52	0.78	0.102	125	50.69	61.37	12.83	0.27	0.013
							100	51.27	59.51	15.00	0.28	0.014
							75	47.36	65.52	7.10	0.27	0.012
							50	46.17	66.31	6.29	0.27	0.011

[3] Average Composite Interval Assays, Average Mass Recovery and Average Concentrate Assays are the respective simple averages for the five 2m samples of drillcore which make up each composite DTR interval; Note: DTR feed assays are yet to be received from the laboratory. [4] Removal of samples 192374 and 192918 from the respective composite intervals results in Average Concentrate Assays for the 8m composite intervals of 68.06% Fe and 66.25% Fe respectively at 125µm grind.

Appendix 1

Assay Results for DTR Sample Intervals

Tratramarina Prospect

Hole Number: DD11TR001
Collar Location Co-ordinates: 254905E 7796024N in grid UTM WGS 84-39 South
Relative Level: 78m
Drillhole Azimuth: 180 degrees
Drillhole Dip: -60 degrees
Analytical Technique: X-Ray Fusion - Iron Suite
Laboratory: Genalysis, South Africa

From	To	Sample Number	Core Sample type	Weight (kg)	Assay Results (%)													
					Al_2O_3	CaO	Cr_2O_3	Fe	K_2O	LOI	MgO	MnO	Na_2O	P	S	SiO_2	TiO_2	V_2O_5
6	8	193703	1/2	1	7.38	0.03	X	31.99	0.02	4.15	0.02	0.2	0.07	0.068	0.007	42.17	0.21	0.011
8	10	193704	1/2	2	1.45	0.03	0.06	39.52	X	1.49	X	0.17	0.07	0.076	0.008	40.62	0.03	0.006
10	12	193705	1/2	1.5	1.2	0.03	0.014	34.88	X	1.84	X	0.1	0.07	0.082	0.002	47.92	0.03	0.005
12	14	193706	1/2	0.5	7.67	0.03	0.009	31.41	0.03	4.79	0.03	0.16	0.07	0.116	0.007	42.38	0.23	0.013
14	16	192374			17.81	0.05	0.008	22.46	0.06	9.5	0.09	0.597	0.06	0.162	0.032	38.19	0.46	0.026
30	40			Average Assays	7.10	0.03	0.023	32.05	0.04	4.35	0.05	0.25	0.07	0.101	0.011	42.26	0.19	0.012

Hole Number: DD11TR002
Collar Location Co-ordinates: 254636E 7795739N in grid UTM WGS 84-39 South
Relative Level: 164m
Drillhole Azimuth: 180 degrees
Drillhole Dip: -60 degrees
Analytical Technique: X-Ray Fusion - Iron Suite
Laboratory: Genalysis, South Africa

From	To	Sample Number	Core Sample type	Weight (kg)	Assay Results (%)													
					Al_2O_3	CaO	Cr_2O_3	Fe	K_2O	LOI	MgO	MnO	Na_2O	P	S	SiO_2	TiO_2	V_2O_5
14	16	192918	1/2	4.5	4.3	0.05	n.a.	18.63	X	3.67	X	0.09	0.08	0.151	0.002	65.42	0.2	0.011
16	18	192919	1/2	6	1.84	0.03	n.a.	27.8	X	1.3	X	0.05	0.08	0.056	0.012	57.11	0.05	X
18	20	192920	1/2	2	0.43	0.03	n.a.	32.6	X	0.47	X	0.05	0.08	0.059	0.004	52.53	X	X
20	22	192378		0.5	0.94	0.08	0.03	22.54	0.06	<0.1	0.05	0.04	0.08	0.045	0.006	65.43	0.04	0.005
22	24	192921	1/2	2	3.36	0.03	n.a.	22.67	0.06	1.7	X	0.1	0.08	0.073	0.005	61.81	0.12	X
30	40			Average Assays	2.17	0.04	0.03	24.85	0.06	1.44	0.05	0.07	0.08	0.077	0.006	60.46	0.10	0.008

n.a. = assay not yet available

Hole Number: DD11TR003
Collar Location Co-ordinates: 254635E 7795736N in grid UTM WGS 84-39 South
Relative Level: 164m
Drillhole Azimuth: 180 degrees
Drillhole Dip: -60 degrees

Analytical Technique: X-Ray Fusion - Iron Suite
Laboratory: Genalysis, South Africa

From	To	Sample Number	Core Sample type	Weight (kg)	Assay Results (%)													
					Al_2O_3	CaO	Cr_2O_3	Fe	K_2O	LOI	MgO	MnO	Na_2O	P	S	SiO_2	TiO_2	V_2O_5
172	174	192404	1/2	5	10.36	0.77	n.a.	20.44	0.28	-0.14	1.6	0.23	0.08	0.01	0.033	57.41	0.41	0.017
174	176	192405	1/2	5	8.01	0.91	n.a.	22.64	0.56	-0.31	1.21	0.16	0.08	0.004	0.042	56.01	0.31	0.012
176	178	192406	1/2	4.5	5.84	1.2	n.a.	26.88	0.02	-0.54	0.91	0.29	0.08	0.026	0.065	53.11	0.28	0.01
178	180	192407	1/2	5.5	5.48	1	n.a.	31.01	x	-1.18	1.1	0.44	0.08	0.014	0.052	49.03	0.24	0.007
180	182	192408	1/2	6	6.75	0.65	n.a.	29.93	0.02	-1.22	1.02	0.39	0.08	0.01	0.026	49.45	0.27	0.008
172	**182**			**Average Assays**	**7.29**	**0.91**	**n.a.**	**26.18**	**0.22**	**-0.68**	**1.17**	**0.30**	**0.08**	**0.013**	**0.044**	**53.00**	**0.30**	**0.011**

n.a. = assay not yet available

Hole Number: DD11TR004
Collar Location Co-ordinates: 254837E 7795608N in grid UTM WGS 84-39 South
Relative Level: 144m
Drillhole Azimuth: 180 degrees
Drillhole Dip: -60 degrees

Analytical Technique: X-Ray Fusion - Iron Suite
Laboratory: Genalysis, South Africa

From	To	Sample Number	Core Sample type	Weight (kg)														
					Al_2O_3	CaO	Cr_2O_3	Fe	K_2O	LOI	MgO	MnO	Na_2O	P	S	SiO_2	TiO_2	V_2O_5
30	32	192445	1/2	4	4.72	0.03	<0.005	30.46	0.01	3.6	0.47	0.156	<0.01	0.022	0.046	46.5	0.24	0.009
32	34	192446	1/4	2.5	6.06	0.03	0.017	28.94	0.06	4.6	0.8	0.139	0.01	0.013	0.042	46.02	0.26	0.011
34	36	192447	1/4	2.5	4.21	0.08	0.009	32.84	0.03	3.8	0.5	0.129	<0.01	0.029	0.061	44.14	0.18	0.011
36	38	192448	1/2	1	9.45	0.07	0.03	27.11	<0.01	7.9	0.31	0.133	<0.01	0.116	0.093	42.46	0.47	0.02
38	40	192449	1/4	2.5	6.93	0.13	<0.005	26.6	<0.01	4.1	1.49	0.306	<0.01	0.037	0.043	48.17	0.28	0.014
30	**40**			**Average Assays**	**6.27**	**0.07**	**0.012**	**29.19**	**0.02**	**4.80**	**0.71**	**0.17**	**0.01**	**0.043**	**0.057**	**45.46**	**0.29**	**0.013**
110	112	192487	1/4	3	0.18	2.15	0.037	38.09	0.01	<0.1	1.62	0.134	0.04	0.049	0.144	42.31	0.01	0.003
112	114	192488	1/4	2.5	0.14	2.83	0.019	36.99	<0.01	<0.1	1.61	0.124	0.07	0.061	0.081	43.15	0.02	0.003
114	116	192489	1/4	2.8	0.39	3.05	0.015	35.2	0.03	<0.1	1.91	0.127	0.11	0.037	0.062	45.1	0.03	0.003
116	118	192490	1/4	2.5	1.75	2.9	<0.005	34.22	0.25	<0.1	1.99	0.141	0.39	0.041	0.214	43.23	0.29	0.012
118	120	192491	1/4	2.8	0.09	2.24	0.015	38.28	<0.01	<0.1	1.61	0.155	0.03	0.056	0.312	41.43	<0.01	<0.002
110	**120**			**Average Assays**	**0.51**	**2.63**	**0.018**	**36.56**	**0.01**	**0.05**	**1.75**	**0.14**	**0.13**	**0.049**	**0.163**	**43.04**	**0.07**	**0.004**
140	142	192803	1/4	2	2.28	3.14	0.035	28.47	0.22	<0.1	2.87	0.14	0.05	0.046	0.874	49.19	0.09	0.005
142	144	192804	1/4	2.5	2.05	5.04	<0.005	24.18	0.2	0.4	3.01	0.169	0.07	0.044	2.14	52.14	0.08	0.005
144	146	192805	1/4	3	1.83	8.63	0.044	21.4	0.15	1	3.39	0.27	0.05	0.047	3.62	51.08	0.06	0.006
146	148	192806	1/4	2.5	1.48	8.33	0.036	22.28	0.07	0.8	3.7	0.237	0.05	0.038	2.44	51.22	0.15	0.009
148	150	192807	1/4	2.5	3.33	4.45	0.023	21.46	0.22	<0.1	3.37	0.139	0.04	0.031	0.782	56.71	0.13	0.007
140	**150**			**Average Assays**	**2.19**	**5.92**	**0.028**	**23.56**	**0.17**	**0.46**	**3.27**	**0.19**	**0.05**	**0.04**	**1.97**	**52.07**	**0.10**	**0.006**

160	162	192813	1/4	3	0.13	2.71	<0.005	38	<0.01	<0.1	1.43	0.145	<0.01	0.06	0.033	42.68	<0.01	0.003
162	164	192814	1/4	2.5	0.14	2.89	0.008	38.22	<0.01	<0.1	1.34	0.158	<0.01	0.086	0.518	40.99	0.01	0.003
164	166	192815	1/4	3	1.18	2.39	0.009	36.29	0.24	<0.1	1.31	0.105	0.11	0.084	0.087	43.31	0.06	<0.002
166	168	192816	1/4	3	0.78	3.02	0.005	36.79	0.06	<0.1	1.74	0.105	0.08	0.048	0.468	41.64	0.06	0.003
168	170	192817	1/4	2	0.15	3.14	0.022	36.78	<0.01	<0.1	1.29	0.13	<0.01	0.131	0.184	43.34	0.01	<0.002
160	**170**			**Average Assays**	**0.48**	**2.83**	**0.009**	**37.22**	**0.063**	**0.05**	**1.42**	**0.13**	**0.04**	**0.08**	**0.26**	**42.39**	**0.03**	**0.003**

n.a. = assay not yet available

Hole Number: DD12TR005
Collar Location Co-ordinates: 255297E 7795619N in grid UTM WGS 84-39 South
Relative Level: 48m
Drillhole Azimuth: 170 degrees
Drillhole Dip: -60 degrees

Analytical Technique: X-Ray Fusion - Iron Suite
Laboratory: Genalysis, South Africa

From	To	Sample Number	Core Sample type	Weight (kg)	Assay Results (%)													
					Al_2O_3	CaO	Cr_2O_3	Fe	K_2O	LOI	MgO	MnO	Na_2O	P	S	SiO_2	TiO_2	V_2O_5
34	36	192861	1/4	2.25	0.25	0.28	<0.005	35.48	<0.01	<0.1	0.58	0.126	<0.01	0.013	0.04	48.76	0.01	0.002
36	38	192862	1/4	2	0.67	0.84	<0.005	33.67	0.02	<0.1	0.72	0.134	<0.01	0.016	0.028	49.88	0.02	0.007
38	40	192863	1/4	2.25	0.47	0.68	0.007	39.01	0.03	<0.1	0.4	0.116	<0.01	0.011	0.035	43.26	0.02	0.005
40	42	192864	1/4	2	0.11	0.63	<0.005	39.89	<0.01	<0.1	0.64	0.194	<0.01	0.011	0.11	42.26	0.01	<0.002
42	44	192865	1/4	2.75	0.24	0.55	<0.005	39.69	0.01	<0.1	0.62	0.129	<0.01	0.017	0.066	42.53	0.02	0.003
34	**44**			**Average Assays**	**0.35**	**0.60**	**0.003**	**37.55**	**0.01**	**0.05**	**0.59**	**0.14**	**0.01**	**0.014**	**0.056**	**45.34**	**0.02**	**0.004**

Hole Number: DD12TR006
Collar Location Co-ordinates: 254524E 7795440N in grid UTM WGS 84-39 South
Relative Level: 138m
Drillhole Azimuth: 315 degrees
Drillhole Dip: -60 degrees

Analytical Technique: X-Ray Fusion - Iron Suite
Laboratory: Genalysis, South Africa

From	To	Sample Number	Core Sample type	Weight (kg)	Assay Results (%)													
					Al_2O_3	CaO	Cr_2O_3	Fe	K_2O	LOI	MgO	MnO	Na_2O	P	S	SiO_2	TiO_2	V_2O_5
100	102	193508	1/4	2.5	0.26	1.11	0.007	37.17	<0.01	<0.1	0.56	0.073	0.04	0.029	0.025	44.67	0.04	<0.002
102	104	193509	1/4	2	0.12	1.61	0.016	32.06	<0.01	<0.1	0.53	0.068	0.03	0.037	0.003	51.61	0.02	0.002
104	106	193510	1/4	2	0.27	1.46	<0.005	28.22	0.01	<0.1	0.67	0.076	0.03	0.03	0.035	56.44	<0.01	0.004
106	108	193511	1/4	2.25	0.63	2.61	0.011	28.32	0.02	<0.1	1.18	0.134	0.05	0.063	1.5	53.17	<0.01	0.002
108	110	193512	1/4	2.5	0.44	3.2	0.025	27.21	0.01	<0.1	1	0.122	0.14	0.046	0.162	55.95	0.01	0.003
100	**110**			**Average Assays**	**0.34**	**2.00**	**0.012**	**30.60**	**0.01**	**0.05**	**0.79**	**0.095**	**0.06**	**0.041**	**0.345**	**52.37**	**0.02**	**0.002**

Hole Number: DD12TR007
Collar Location Co-ordinates: 255543E 7795765N in grid UTM WGS 84-39 South
Relative Level: 103m
Drillhole Azimuth: 190 degrees
Drillhole Dip: -60 degrees

Analytical Technique: X-Ray Fusion - Iron Suite
Laboratory: Genalysis, South Africa

From	To	Sample Number	Core Sample type	Weight (kg)	Assay Results (%)													
					Al_2O_3	CaO	Cr_2O_3	Fe	K_2O	LOI	MgO	MnO	Na_2O	P	S	SiO_2	TiO_2	V_2O_5
70	72	192307	1/4	2.25	1.76	5.66	0.041	21.95	0.11	0.6	2.64	0.307	0.19	0.059	1.22	56.46	0.07	0.006
72	74	192308	1/4	2.5	1.31	2.78	0.017	29.84	0.13	0.1	1.55	0.204	0.2	0.06	1.82	49.58	0.05	0.003
74	76	192309	1/4	2.5	0.83	6.68	<0.005	26.69	0.06	0.5	1.99	0.289	0.03	0.087	1.14	52.7	0.07	<0.002
76	78	192310	1/4	2.25	1	4.29	0.011	30.66	0.14	<0.1	1.62	0.233	0.22	0.063	1.45	46.7	0.04	0.003
78	80	192311	1/4	3	0.19	2.79	0.016	36.67	0.01	<0.1	1.22	0.17	0.05	0.061	0.694	42.29	0.01	<0.002
70	**80**			**Average Assays**	**1.02**	**4.44**	**0.018**	**29.16**	**0.09**	**0.26**	**1.80**	**0.24**	**0.14**	**0.066**	**1.265**	**49.55**	**0.05**	**0.003**
112	114	192329	1/4	3	0.49	1.9	0.012	36.12	0.02	<0.1	1.11	0.145	0.03	0.115	0.229	44.38	0.03	0.003
114	116	192330	1/4	3	2.03	6.16	0.008	27.26	0.23	<0.1	3.29	0.25	0.24	0.111	0.344	48.23	0.08	0.006
116	118	192331	1/4	2.75	0.81	1.51	<0.005	37.84	0.05	<0.1	0.94	0.179	0.06	0.11	0.474	42	0.03	0.003
118	120	192332	1/4	2.75	0.27	0.88	<0.005	38.24	0.01	<0.1	0.62	0.191	0.11	0.106	0.841	42.34	<0.01	0.002
120	122	192333	1/4	3	0.28	0.65	0.014	34.77	<0.01	0.4	0.6	0.194	<0.01	0.07	1.91	45.64	0.01	<0.002
112	**122**			**Average Assays**	**0.78**	**2.22**	**0.008**	**34.85**	**0.06**	**0.08**	**1.31**	**0.192**	**0.09**	**0.102**	**0.760**	**44.52**	**0.03**	**0.003**
Detection Limits:					**0.01**	**0.01**	**0.005**	**0.01**	**0.01**	**0.01**	**0.01**	**0.005**	**0.01**	**0.001**	**0.002**	**0.01**	**0.01**	**0.002**

Note: All Average Assays use 50% of detection limit where assay is below detection limit

Appendix 2

DTR Sample Mass Recoveries and Concentrate Assays

ELEMENTS	%Mag	Feed	MagWT	Non-MagWT	Fe	Al2O4	CaO	Cr2O4	K2O	MgO	MnO	Na2O	P2O5	P	S	SiO2	TiO2	V2O5
UNITS	%	g	g	g	%	%	%	%	%	%	%	%	%	%	%	%	%	%
DETECTION	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.01	0.01	0.005	0.01	0.001	0.001	0.002	0.01	0.01	0.002
METHOD	/DTR	/DTR	/DTR	/DTR	XR20L	XR20L	XR20L	XR20L	XR20L	XR20L	XR20L	XR20L	XR20L	XR20L	XR20L	XR20L	XR20L	XR20L
TOLERANCE					10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
SAMPLE NUMBERS					IUSJKT	IUSJKT	IUSJKT	IUSJKT	IUSJKT	IUSJKT	IUSJKT	IUSJKT	IUSJKT	IUSJKT	IUSJKT	IUSJKT	IUSJKT	IUSJKT
192404 125um Mag	7.01	19.98	1.4	17.46	68.48	1.44	0.09	0.091	<0.01	0.12	0.081	0.15	0.015	0.007	0.095	4.47	0.23	0.019
192405 125um Mag	15.15	20	3.03	15.66	70.24	1.14	0.08	0.026	<0.01	0.06	0.048	0.14	0.015	0.006	0.033	2.87	0.2	0.025
192406 125um Mag	20.92	20.03	4.19	14.92	68.37	1.6	0.19	0.043	<0.01	0.1	0.093	0.13	0.018	0.008	0.02	4.34	0.27	0.027
192407 125um Mag	27.18	20.05	5.45	13.43	69.39	1.23	0.15	0.032	<0.01	0.08	0.099	0.12	0.015	0.007	0.026	2.89	0.29	0.03
192408 125um Mag	20.98	20.07	4.21	14.46	68.06	1.99	0.18	0.059	<0.01	0.08	0.113	0.13	0.016	0.007	0.199	4.24	0.45	0.04
192404 100um Mag	6.25	20	1.25	17.4	70.02	1.07	0.07	0.048	<0.01	0.07	0.066	0.14	0.014	0.006	0.076	2.43	0.24	0.018
192405 100um Mag	14.28	20.03	2.86	15.91	70.34	0.94	0.07	0.026	<0.01	0.03	0.041	0.13	0.014	0.006	0.019	2.25	0.16	0.018
192406 100um Mag	23.03	20.02	4.61	14.35	70.05	1.22	0.11	0.037	<0.01	0.05	0.067	0.13	0.016	0.007	0.03	2.33	0.26	0.025
192407 100um Mag	28.95	20	5.79	13.15	69.24	1.43	0.2	0.03	<0.01	0.08	0.128	0.13	0.016	0.007	0.023	3.1	0.29	0.026
192408 100um Mag	19	20	3.8	14.97	68.89	1.82	0.16	0.043	<0.01	0.07	0.098	0.13	0.015	0.007	0.169	3.48	0.46	0.046
192404 75um Mag	7.34	20.03	1.47	17.24	69.85	0.98	0.07	0.127	<0.01	0.05	0.061	0.13	0.015	0.007	0.037	1.75	0.23	0.02
192405 75um Mag	13.68	20.03	2.74	15.86	71.98	0.92	0.06	0.082	<0.01	0.04	0.036	0.13	0.015	0.006	0.021	1.46	0.2	0.031
192406 75um Mag	23.35	20	4.67	13.93	70.06	1.1	0.1	0.052	<0.01	0.04	0.053	0.12	0.015	0.007	0.014	1.86	0.25	0.027
192407 75um Mag	24.49	20.05	4.91	13.86	69.98	1.22	0.16	0.061	<0.01	0.06	0.099	0.13	0.015	0.007	0.024	2.39	0.31	0.033
192408 75um Mag	21.5	20	4.3	14.32	70	1.44	0.12	0.069	<0.01	0.06	0.078	0.12	0.015	0.007	0.196	2.6	0.42	0.041
192404 50um Mag	6.3	20	1.26	17.44	71.1	0.98	0.07	0.129	<0.01	0.08	0.054	0.13	0.016	0.007	0.046	1.59	0.24	0.021
192405 50um Mag	12.87	20.04	2.58	15.85	71.29	0.91	0.07	0.098	<0.01	0.03	0.037	0.13	0.014	0.006	0.022	1.4	0.18	0.027
192406 50um Mag	22.7	20	4.54	14.21	71.03	1	0.09	0.078	<0.01	0.05	0.053	0.12	0.016	0.007	0.014	1.56	0.26	0.026
192407 50um Mag	27.49	20.01	5.5	12.85	70.59	0.96	0.12	0.056	<0.01	0.06	0.072	0.12	0.015	0.007	0.022	1.81	0.3	0.031
192408 50um Mag	20.75	20	4.15	14.74	69.78	1.26	0.1	0.084	<0.01	0.05	0.072	0.12	0.015	0.007	0.171	2.23	0.45	0.041
192445 125um Mag	13.07	20.04	2.62	16.79	67.31	0.86	0.02	0.015	<0.01	<0.01	0.031	<0.01		0.013	0.031	2.12	0.25	0.017
192446 125um Mag	8.45	20.01	1.69	17.31	68.04	0.7	0.01	0.021	<0.01	<0.01	0.029	<0.01		0.006	0.017	2.8	0.28	0.026
192447 125um Mag	17.02	20.04	3.41	15.83	67.93	0.76	0.02	0.031	<0.01	<0.01	0.029	<0.01		0.01	0.014	2.33	0.18	0.014
192448 125um Mag	1.7	20.01	0.34	18.97	67.42	0.97	<0.01	0.037	<0.01	<0.01	0.034	<0.01		0.031	0.021	2.14	0.15	0.025
192449 125um Mag	8.15	20.01	1.63	17.66	68.62	0.75	0.02	0.05	<0.01	0.03	0.039	<0.01		0.01	0.012	2.24	0.3	0.031
192487 125um Mag	53.52	20.01	10.71	8.56	65.96	0.11	0.2	0.024	<0.01	0.18	0.152	<0.01		0.004	0.041	7.38	<0.01	0.003
192488 125um Mag	55.04	20.04	11.03	8.03	65.82	0.09	0.32	0.006	<0.01	0.2	0.134	0.01		0.005	0.015	7.57	<0.01	0.002
192489 125um Mag	51.15	20.02	10.24	8.94	63.5	0.12	0.48	0.013	<0.01	0.3	0.131	0.02		0.004	0.037	10.36	0.02	<0.002
192490 125um Mag	47.88	20.03	9.59	9.28	66.76	0.32	0.28	0.005	0.03	0.19	0.155	0.05		0.004	0.06	6.19	0.11	0.006
192491 125um Mag	59.45	20.05	11.92	7.27	64.43	0.07	0.28	0.009	<0.01	0.23	0.167	<0.01		0.007	0.173	9.22	<0.01	0.003
192803 125um Mag	36.45	20.08	7.32	11.71	66.52	0.72	0.34	0.014	0.02	0.32	0.097	<0.01		0.005	0.91	4.9	0.09	0.007
192804 125um Mag	28.85	20.07	5.79	13.14	65.87	0.53	0.42	0.031	0.02	0.29	0.12	<0.01		0.005	5.36	4.52	0.06	0.009
192805 125um Mag	21.27	20.03	4.26	14.63	64.71	0.42	0.35	0.062	<0.01	0.19	0.118	<0.01		0.005	11.81	3.36	0.04	0.006
192806 125um Mag	22.35	20	4.47	14.34	65.46	0.47	0.52	0.066	<0.01	0.29	0.147	<0.01		0.005	9.37	3.21	0.07	0.011
192807 125um Mag	20.65	20	4.13	14.8	66.67	0.55	0.56	0.062	<0.01	0.35	0.13	<0.01		0.004	5.77	3.92	0.09	0.012
192813 125um Mag	51.72	20.01	10.35	8.9	69.2	0.14	0.16	0.032	<0.01	0.1	0.162	<0.01		0.003	0.011	3.29	<0.01	0.003
192814 125um Mag	53.22	20.01	10.65	8.86	68.33	0.16	0.43	0.032	<0.01	0.22	0.182	0.04		0.013	0.377	4.36	0.01	0.002

192815 125um Mag	54.02	20.03	10.82	8.64	68.67	0.23	0.16	0.005	<0.01	0.12	0.118	0.02	0.005	0.011	3.48	0.01	<0.002
192816 125um Mag	58.19	20.02	11.65	7.41	69.28	0.34	0.17	0.014	<0.01	0.15	0.098	0.02	0.004	0.431	2.43	0.04	0.004
192817 125um Mag	51.54	20.08	10.35	8.86	67.84	0.17	0.42	<0.005	<0.01	0.19	0.143	<0.01	0.015	0.082	4.94	<0.01	<0.002
192445 100um Mag	11.9	20	2.38	16.66	67.02	0.95	0.02	0.006	<0.01	<0.01	0.031	<0.01	0.013	0.018	2.05	0.25	0.015
192446 100um Mag	8.17	20.07	1.64	17.41	68.65	0.64	0.01	0.05	<0.01	<0.01	0.024	0.02	0.005	0.01	2.07	0.27	0.027
192447 100um Mag	16.61	20.05	3.33	15.72	68.35	0.76	0.02	0.021	<0.01	<0.01	0.028	0.01	0.01	0.013	1.82	0.18	0.015
192448 100um Mag	1.75	20	0.35	18.51	68.41	1	0.02	0.058	<0.01	0.02	0.041	0.01	0.032	0.021	1.84	0.17	0.028
192449 100um Mag	7.8	20	1.56	17.14	68.22	0.69	0.02	0.021	<0.01	0.03	0.032	<0.01	0.01	0.017	1.9	0.29	0.029
192488 100um Mag	54.25	20	10.85	7.98	67.58	0.11	0.22	0.024	<0.01	0.19	0.154	<0.01	0.006	0.04	6.98	<0.01	0.002
192489 100um Mag	52.7	20	10.54	8.45	66.99	0.1	0.3	0.007	<0.01	0.19	0.136	0.03	0.005	0.023	5.95	<0.01	0.002
192490 100um Mag	47.41	20.08	9.52	9.06	64.97	0.11	0.43	0.026	<0.01	0.27	0.135	0.01	0.004	0.034	8.66	0.02	0.004
192491 100um Mag	56.8	20.07	11.4	7.78	67.43	0.33	0.27	0.046	0.03	0.18	0.159	0.07	0.004	0.064	4.8	0.12	0.006
192803 100um Mag	35.96	20.05	7.21	11.63	66.75	0.07	0.21	0.012	<0.01	0.19	0.175	<0.01	0.006	0.178	6.42	<0.01	0.003
192804 100um Mag	29.14	20.01	5.83	13.06	67.39	0.72	0.33	0.023	0.02	0.31	0.101	0.02	0.005	0.919	4.38	0.1	0.009
192805 100um Mag	26.06	20.07	5.23	13.87	65.59	0.53	0.34	0.036	0.01	0.26	0.116	0.02	0.005	5.52	3.39	0.06	0.009
192807 100um Mag	22.49	20.01	4.5	14.27	65.36	0.41	0.29	0.04	<0.01	0.16	0.115	<0.01	0.005	12.39	2.68	0.04	0.005
192813 100um Mag	53.74	20.06	10.78	8.27	66.54	0.45	0.44	0.048	<0.01	0.26	0.144	<0.01	0.005	9.48	2.73	0.07	0.009
192814 100um Mag	55.11	20.05	11.05	7.76	68.26	0.78	0.37	0.036	<0.01	0.27	0.121	0.01	0.004	2.71	3.24	0.1	0.012
192815 100um Mag	52.82	20.03	10.58	8.74	70.16	0.14	0.15	0.007	<0.01	0.1	0.167	0.01	0.003	0.012	2.52	<0.01	0.004
192817 100um Mag	51.8	19.98	10.35	8.59	67.83	0.16	0.43	<0.005	<0.01	0.21	0.178	<0.01	0.014	0.362	4.12	<0.01	<0.002
192445 75um Mag	10.25	20	2.05	16.87	69.45	0.25	0.16	<0.005	<0.01	0.12	0.122	0.03	0.006	0.017	2.76	0.01	0.003
192446 75um Mag	8.6	20	1.72	17.09	69.94	0.35	0.19	0.01	<0.01	0.16	0.102	<0.01	0.005	0.512	2.44	0.04	0.004
192447 75um Mag	16.18	20.02	3.24	15.77	68.78	0.18	0.38	0.009	<0.01	0.17	0.143	0.01	0.015	0.081	3.54	<0.01	<0.002
192448 75um Mag	1.95	20.03	0.39	18.39	68.02	0.97	0.02	0.059	<0.01	0.02	0.037	0.02	0.013	0.012	1.78	0.25	0.017
192449 75um Mag	7.24	20.02	1.45	17.46	68.74	0.72	0.02	0.095	<0.01	<0.01	0.031	0.01	0.005	0.011	1.83	0.26	0.031
192487 75um Mag	53.42	20.01	10.69	8.69	69.09	0.8	0.02	0.057	<0.01	0.02	0.032	<0.01	0.009	0.012	1.59	0.18	0.017
192488 75um Mag	51.62	20.01	10.33	8.74	66.13	1.52	0.02	0.075	<0.01	0.03	0.05	<0.01	0.035	0.026	3.67	0.19	0.033
192489 75um Mag	50.1	19.98	10.01	8.98	68.62	0.77	0.02	0.04	<0.01	0.03	0.039	<0.01	0.011	0.01	1.92	0.29	0.03
192490 75um Mag	45.92	19.99	9.18	9.96	69.61	0.11	0.12	0.024	<0.01	0.11	0.157	0.02	0.005	0.032	3.05	<0.01	0.002
192491 75um Mag	54.69	20.06	10.97	8.11	69.64	0.09	0.21	0.02	<0.01	0.13	0.136	0.01	0.005	0.014	2.92	0.01	<0.002
192803 75um Mag	33.32	20.05	6.68	12.34	69.6	0.09	0.19	0.023	<0.01	0.12	0.14	0.02	0.003	0.033	3.17	0.02	0.005
192804 75um Mag	27.94	20.04	5.6	12.91	69.91	0.25	0.19	0.018	0.02	0.12	0.163	0.05	0.003	0.052	2.09	0.1	0.007
192805 75um Mag	24.45	20	4.89	13.52	70.02	0.07	0.1	0.02	<0.01	0.08	0.175	<0.01	0.004	0.161	2.38	<0.01	<0.002
192807 75um Mag	23.25	20	4.65	13.36	69	0.58	0.17	0.015	0.01	0.18	0.094	0.01	0.004	0.954	1.93	0.1	0.009
192813 75um Mag	55.74	20.02	11.16	7.93	66.81	0.51	0.35	0.063	0.02	0.25	0.118	0.02	0.005	5.81	2.78	0.07	0.009
192814 75um Mag	54.15	20	10.83	7.98	66.21	0.4	0.22	0.059	<0.01	0.13	0.117	<0.01	0.004	11.49	1.67	0.04	0.008
192815 75um Mag	51.3	20.02	10.27	8.57	66.99	0.46	0.29	0.07	<0.01	0.19	0.145	<0.01	0.004	9.88	1.78	0.07	0.012
192816 75um Mag	48.05	20	9.61	9.56	68.32	0.52	0.29	0.079	0.01	0.23	0.12	0.02	0.004	2.81	2.51	0.1	0.015
192817 75um Mag	52.1	20.02	10.43	8.32	70.25	0.14	0.18	0.026	<0.01	0.11	0.165	0.01	0.003	0.015	1.96	<0.01	0.004
192445 50um Mag	10.85	20	2.17	16.54	66.77	0.16	0.67	0.011	<0.01	0.32	0.183	<0.01	0.02	0.393	5.53	0.01	<0.002
192446 50um Mag	7.4	20	1.48	17.57	70.33	0.27	0.15	0.039	<0.01	0.11	0.123	0.01	0.005	0.016	2	0.02	0.004
192447 50um Mag	16.35	20	3.27	15.56	69.92	0.34	0.18	0.031	<0.01	0.14	0.102	0.02	0.004	0.489	1.72	0.05	0.005
192448 50um Mag	1.55	20	0.31	18.61	67.58	0.18	0.65	0.019	<0.01	0.27	0.147	0.02	0.026	0.094	4.49	<0.01	<0.002
192449 50um Mag	6.6	20	1.32	17.79	67.93	0.93	0.02	0.035	<0.01	<0.01	0.031	0.01	0.013	0.016	1.66	0.24	0.017
192487 50um Mag	52.97	20.03	10.61	8.53	68.45	0.77	0.03	0.04	<0.01	0.02	0.03	<0.01	0.005	0.016	1.67	0.26	0.028

192488 50um Mag	50.9	20	10.18	8.71	68.65	0.8	0.02	0.049	<0.01	<0.01	0.029	0.01	0.009	0.026	1.48	0.18	0.015
192489 50um Mag	51.6	20	10.32	8.93	66.62	1.38	0.04	0.078	<0.01	0.05	0.046	0.02	0.033	0.039	3.42	0.22	0.03
192490 50um Mag	46.87	19.99	9.37	9.43	68.57	0.81	0.03	0.051	<0.01	0.06	0.042	<0.01	0.01	0.02	2.22	0.29	0.032
192491 50um Mag	54.95	20	10.99	8.02	68.73	0.11	0.2	0.016	<0.01	0.15	0.156	<0.01	0.005	0.033	3.81	<0.01	<0.002
192803 50um Mag	32.85	20	6.57	12.49	67.96	0.1	0.42	0.016	<0.01	0.24	0.144	0.03	0.006	0.016	4.73	0.01	0.002
192804 50um Mag	29.05	20	5.81	13.24	68.83	0.1	0.21	0.017	<0.01	0.13	0.14	<0.01	0.003	0.035	3.48	0.02	0.006
192805 50um Mag	24.31	20.03	4.87	13.76	67.6	0.44	0.42	0.032	0.05	0.27	0.165	0.09	0.005	0.066	4.16	0.15	0.008
192806 50um Mag	25.44	20.01	5.09	13.82	69.04	0.07	0.22	0.008	<0.01	0.17	0.179	0.01	0.006	0.167	3.45	<0.01	<0.002
192807 50um Mag	23.15	20.04	4.64	14.02	67.47	0.69	0.36	0.02	0.02	0.34	0.1	<0.01	0.005	0.928	3.71	0.1	0.009
192813 50um Mag	55.6	20	11.12	7.96	65.52	0.53	0.48	0.047	0.02	0.32	0.122	<0.01	0.005	4.91	3.53	0.07	0.008
192814 50um Mag	54.7	20.02	10.95	7.96	65.28	0.45	0.38	0.06	<0.01	0.2	0.12	0.02	0.005	11.67	2.17	0.05	0.006
192815 50um Mag	52.67	20.03	10.55	8.45	65.52	0.51	0.33	0.091	<0.01	0.23	0.139	0.01	0.004	7.69	2.36	0.08	0.013
192816 50um Mag	48.95	20	9.79	9.47	67.7	0.49	0.32	0.057	0.01	0.26	0.12	0.01	0.003	2.54	2.62	0.1	0.013
192817 50um Mag	52.85	20	10.57	9.04	68.48	0.16	0.43	0.02	<0.01	0.25	0.165	0.01	0.006	0.015	4.11	<0.01	0.004
					60.13	0.18	1.4	<0.005	<0.01	0.65	0.182	<0.01	0.046	0.458	13.26	<0.01	<0.002
193703 125um Mag	27.61	20.03	5.53	14.03	68.72	0.32	0.29	0.012	0.02	0.19	0.122	0.02	0.007	0.017	3.46	0.02	0.003
193704 125um Mag	36.38	20.04	7.29	12.18	68.85	0.36	0.29	0.029	<0.01	0.2	0.102	0.06	0.005	0.471	2.61	0.04	0.003
193705 125um Mag	23.35	20	4.67	14.77	67.57	0.18	0.66	0.009	<0.01	0.27	0.146	<0.01	0.024	0.086	4.7	<0.01	<0.002
193706 125um Mag	31.12	20.02	6.23	12.91	67.68	0.82	X	0.015	X	0.03	0.16	X	0.052	0.009	3.2	0.06	0.012
192374 125um Mag	21.76	20.04	4.36	14.22	59.2	5.08	0.02	X	0.02	0.05	0.26	X	0.064	0.013	7.89	0.21	0.025
192918 125um Mag	14.38	20.03	2.88	16.32	55.92	0.53	X	0.098	X	X	0.08	X	0.07	0.009	19.16	0.04	0.012
192919 125um Mag	18.27	20.03	3.66	15.3	65.05	0.36	X	0.075	X	0.04	0.06	X	0.028	0.009	7.31	X	0.007
192920 125um Mag	23.08	20.02	4.62	14.22	68.2	0.45	X	X	X	0.03	0.08	X	0.044	0.005	2.99	X	X
192921 125um Mag	25.29	20.01	5.06	13.63	66.93	1.32	X	0.009	X	0.02	0.08	0.02	0.052	0.006	3.85	0.1	0.005
192378 125um Mag	21.64	20.01	4.33	14.3	66.54	0.62	0.03	0.01	0.01	0.02	0.08	0.02	0.044	0.005	5.77	0.05	0.005
192861 125um Mag	49.25	20.04	9.87	9.22	66.13	0.35	0.04	0.029	X	0.11	0.05	0.01	0.003	0.016	8.46	0.03	X
192862 125um Mag	44.08	20.03	8.83	10.32	65.4	0.44	0.07	0.037	X	0.15	0.06	X	0.002	0.021	9.14	0.03	0.007
192863 125um Mag	58.1	20	11.62	7.73	65.58	0.21	0.07	0.025	X	0.07	0.09	0.01	0.003	0.011	9.08	0.01	X
192864 125um Mag	60.17	20.01	12.04	6.69	64.77	0.13	0.08	0.022	X	0.11	0.09	X	0.003	0.073	10.16	0.01	X
192865 125um Mag	55.37	20.01	11.08	7.9	67.62	0.2	0.04	0.025	X	0.07	0.08	0.01	0.002	0.019	6.1	0.02	X
193703 100um Mag	25.35	20	5.07	14.27	68.49	0.91	0.01	0.044	X	0.04	0.28	X	0.042	0.009	1.93	0.03	0.013
193704 100um Mag	38.23	20.01	7.65	11.65	68.68	0.68	X	0.032	X	0.04	0.22	X	0.05	0.007	1.7	0.04	0.005
193705 100um Mag	20.62	20.03	4.13	15.2	68.27	0.53	X	0.067	X	0.03	0.16	0.02	0.038	0.01	2.18	0.06	0.009
193706 100um Mag	30.4	20.03	6.09	13.29	66.68	0.97	X	0.012	X	0.03	0.16	X	0.057	0.009	4.32	0.07	0.011
192374 100um Mag	19.78	20.02	3.96	15.23	61.28	4.44	0.02	0.007	0.02	0.05	0.23	X	0.061	0.013	6.28	0.2	0.023
192918 100um Mag	15.23	20.03	3.05	16.23	54.9	0.53	X	0.089	X	X	0.08	X	0.069	0.009	20.8	0.04	0.012
192919 100um Mag	17.58	20.02	3.52	15.62	65.61	0.27	X	0.088	X	X	0.06	X	0.027	0.009	6.7	X	0.009
192920 100um Mag	23.85	20	4.77	14.25	68.49	0.44	X	X	X	0.02	0.08	X	0.044	0.005	2.72	X	X
192921 100um Mag	25.89	20.01	5.18	13.77	67.23	1.27	X	0.013	X	0.02	0.08	X	0.051	0.006	3.64	0.1	0.007
192378 100um Mag	21.34	20.01	4.27	14.11	67.11	0.61	0.03	0.012	X	0.03	0.09	X	0.043	0.004	5.16	0.05	X
192861 100um Mag	50.45	20	10.09	8.87	67.22	0.32	0.03	0.028	X	0.09	0.05	X	0.003	0.014	6.87	0.03	0.005
192862 100um Mag	43.58	20.01	8.72	10.16	65.97	0.34	0.06	0.039	X	0.12	0.06	X	0.003	0.019	8.37	0.02	0.007
192863 100um Mag	59.34	20.02	11.88	7.16	65.39	0.3	0.07	0.025	X	0.11	0.09	X	0.002	0.012	9.38	X	X
192864 100um Mag	56.52	20.01	11.31	7.56	66.6	0.13	0.06	0.022	X	0.09	0.09	X	0.003	0.054	7.69	X	X
192865 100um Mag	55.57	20.03	11.13	7.63	67.51	0.32	0.04	0.023	X	0.12	0.08	0.06	0.003	0.03	6.32	X	X

193703 75um Mag	24.55	20	4.91	14.56	68.79	0.89	X	0.051	X	0.04	0.28	X	0.038	0.009	1.45	0.03	0.012
193704 75um Mag	34.85	20.03	6.98	12.67	68.22	0.67	X	0.032	X	0.05	0.22	X	0.046	0.009	2.09	0.04	0.007
193705 75um Mag	21.61	20.04	4.33	14.88	68.79	0.55	X	0.07	X	0.05	0.16	0.03	0.037	0.012	1.72	0.06	0.009
193706 75um Mag	I/S	I/S	I/S	I/S	67.95	0.67	X	0.018	X	0.03	0.16	X	0.045	0.009	3.4	0.06	0.012
192374 75um Mag	18.66	20.04	3.74	14.84	58.23	6.24	0.03	0.006	0.02	0.06	0.28	X	0.073	0.017	7.94	0.23	0.027
192918 75um Mag	12.03	20.03	2.41	17.11	57.11	0.64	X	0.134	X	0.05	0.08	0.03	0.066	0.014	17.52	0.05	0.014
192919 75um Mag	16.49	20.01	3.3	15.94	65.41	0.28	X	0.095	X	0.02	0.06	X	0.028	0.01	6.84	X	0.007
192920 75um Mag	23.07	20.03	4.62	14.4	69.05	0.44	0.01	0.012	X	0.02	0.08	X	0.042	0.007	1.89	0.01	X
192921 75um Mag	25.55	20	5.11	13.72	67.17	1.18	0.02	0.015	X	0.02	0.08	X	0.048	0.009	3.54	0.1	0.005
192378 75um Mag	21.84	20.01	4.37	14.12	67.19	0.6	0.03	0.01	0.01	0.03	0.08	X	0.044	0.005	4.35	0.05	X
192861 75um Mag	45.15	20.02	9.04	9.9	69.09	0.29	0.03	0.039	X	0.08	0.05	X	0.003	0.012	3.91	0.03	X
192862 75um Mag	44.4	20	8.88	9.98	68.86	0.35	0.07	0.048	X	0.12	0.06	0.02	0.002	0.018	4.13	0.03	0.011
192863 75um Mag	56.49	20.04	11.32	7.78	67.07	0.21	0.06	0.028	X	0.07	0.09	X	0.003	0.01	6.37	X	X
192864 75um Mag	55	20.02	11.01	7.86	68.23	0.12	0.07	0.026	X	0.08	0.09	X	0.002	0.052	5.25	X	X
192865 75um Mag	54.95	20	10.99	7.76	69.44	0.23	0.03	0.025	X	0.06	0.08	X	0.003	0.016	3.64	X	X
193703 50um Mag	24.54	20.01	4.91	14.42	68.47	1	0.01	0.057	X	0.06	0.28	0.01	0.036	0.013	1.97	0.03	0.014
193704 50um Mag	35.75	20	7.15	12.11	68.35	0.63	0.01	0.032	X	0.03	0.21	0.01	0.045	0.007	1.96	0.04	0.007
193705 50um Mag	20.05	20	4.01	15.34	68.78	0.54	0.01	0.075	X	0.05	0.16	0.03	0.034	0.014	1.83	0.06	0.011
193706 50um Mag	32.08	20.01	6.42	12.98	68.03	0.66	0.01	0.022	X	0.02	0.16	0.02	0.045	0.011	3.2	0.06	0.009
192374 50um Mag	19.56	20.04	3.92	15.14	63.24	3.59	0.02	0.022	0.02	0.05	0.23	X	0.053	0.013	5.06	0.18	0.023
192918 50um Mag	10.4	20	2.08	17.37	57.61	0.68	X	0.155	X	0.07	0.08	0.07	0.064	0.019	17.1	0.05	0.016
192919 50um Mag	14.74	20.01	2.95	16.49	66.28	0.25	X	0.104	X	0.02	0.06	X	0.027	0.009	5.86	X	0.009
192920 50um Mag	21.05	20	4.21	15.08	68.97	0.57	X	0.009	X	0.09	0.08	0.06	0.045	0.016	2.02	X	X
192921 50um Mag	25.8	20.04	5.17	13.58	67.71	1.26	X	0.013	X	0.03	0.08	0.03	0.05	0.01	2.88	0.1	0.005
192378 50um Mag	21.6	20	4.32	14.37	66.56	0.64	0.03	0.013	X	0.03	0.09	X	0.045	0.007	5.46	0.05	X
192861 50um Mag	43.25	20	8.65	10.23	69.09	0.24	0.03	0.034	X	0.05	0.05	X	0.003	0.012	3.84	0.03	X
192862 50um Mag	41.85	20	8.37	10.24	68.8	0.34	0.07	0.048	X	0.11	0.06	X	0.003	0.017	4.14	0.03	0.007
192863 50um Mag	55.7	20	11.14	7.73	67.5	0.26	0.1	0.029	X	0.09	0.1	X	0.002	0.013	6.19	X	0.005
192864 50um Mag	56.92	20.01	11.39	7.17	68.04	0.16	0.07	0.026	X	0.09	0.09	X	0.003	0.053	5.37	X	X
192865 50um Mag	53.4	20.02	10.69	8.16	>70.00	0.25	0.05	0.028	X	0.08	0.08	0.02	0.003	0.023	2.56	0.02	0.005

ELEMENTS	Vessel + Mag weight	Feed	MagWT	Non-MagWT
UNITS	g	g	g	g
DETECTION	0.01	0.01	0.01	0.01
METHOD	/DTR	/DTR	/DTR	/DTR

)4 (25/05/2012) CLIENT O/N: SUE-008 1/1

SAMPLE NUMBERS																	
192307 125um Mag	153.69	20.01	4.06	14.94	63.75	0.37	0.61	0.008	0.01	0.33	0.108	0.02	0.007	1.67	8.08	0.05	0.003
192308 125um Mag	156.66	20.04	7.67	11.26	64.4	0.38	0.33	0.017	0.01	0.24	0.106	0.01	0.007	2.72	6.16	0.04	<0.002
192309 125um Mag	155.81	20.02	5.93	13.03	62.36	0.35	0.99	0.007	0.01	0.36	0.136	0.01	0.006	1.49	9.25	0.07	0.004
192310 125um Mag	154.25	20.02	8.25	10.8	62.23	0.19	0.71	0.011	<0.01	0.33	0.131	0.02	0.007	2.2	9.28	0.02	<0.002
192311 125um Mag	164.06	20.01	10.73	8.41	60.03	0.12	0.55	0.005	<0.01	0.28	0.106	<0.01	0.007	0.773	14.07	0.02	<0.002

192329 125um Mag	16.97	20.04	11.34	7.51	59.56	0.27	0.36	0.032	<0.01	0.25	0.083	<0.01	0.016	0.117	15.69	0.03	<0.002
192330 125um Mag	155.32	20.02	6.33	12.66	59.97	0.45	0.88	0.027	0.03	0.5	0.081	0.02	0.018	0.356	14.51	0.09	0.004
192331 125um Mag	160.89	20.00	11.02	8.02	62.73	0.3	0.25	0.027	<0.01	0.21	0.096	<0.01	0.013	0.33	10.85	0.04	<0.002
192332 125um Mag	157.6	20.02	11.6	7.42	64.39	0.17	0.1	0.053	<0.01	0.11	0.13	<0.01	0.009	0.472	9.18	0.02	<0.002
192333 125um Mag	163.78	20.01	10.45	8.63	60.22	0.16	0.1	0.032	<0.01	0.14	0.14	<0.01	0.008	1.21	13.91	0.02	<0.002
193508 125um Mag	160.45	20.03	10.82	8.08	67.29	0.09	0.32	0.033	<0.01	0.21	0.086	0.02	0.005	0.009	5.08	0.03	<0.002
193509 125um Mag	158.41	20.02	9.42	9.75	66.27	0.02	0.53	<0.005	<0.01	0.21	0.084	<0.01	0.01	0.006	6.57	<0.01	<0.002
193510 125um Mag	157.95	20.02	8.08	10.97	64.97	0.11	0.51	<0.005	<0.01	0.26	0.106	<0.01	0.008	0.014	8.35	0.01	<0.002
193511 125um Mag	153.8	20.04	7.8	11.21	65.77	0.18	0.46	<0.005	<0.01	0.33	0.152	<0.01	0.009	0.483	7.38	0.01	<0.002
193512 125um Mag	161.09	20.02	7.76	11.4	64.62	0.1	0.73	0.011	<0.01	0.25	0.125	<0.01	0.011	0.036	8.51	<0.01	<0.002
192307 100um Mag	153.85	20.00	4.22	14.54	60.2	0.37	0.86	0.01	0.01	0.43	0.116	<0.01	0.008	2.08	12.88	0.04	0.003
192308 100um Mag	156.75	20.02	7.76	11.26	63.56	0.38	0.47	<0.005	<0.01	0.3	0.115	0.01	0.007	2.86	8.35	0.03	<0.002
192309 100um Mag	155.69	20.00	5.82	13.09	61.82	0.35	1.04	<0.005	0.01	0.38	0.14	0.02	0.006	1.58	9.83	0.07	0.002
192310 100um Mag	154.11	20.03	8.11	10.86	62.51	0.19	0.67	<0.005	<0.01	0.31	0.129	<0.01	0.006	2.19	8.66	0.02	<0.002
192311 100um Mag	164.04	20.01	10.71	8.45	60.95	0.12	0.5	0.013	<0.01	0.26	0.103	<0.01	0.006	0.703	12.79	0.02	<0.002
192329 100um Mag	161.25	20.00	11.62	7.07	57.11	0.28	0.41	<0.005	<0.01	0.28	0.085	<0.01	0.018	0.156	18.66	0.02	<0.002
192330 100um Mag	155.39	20.00	6.4	12.35	57.52	0.47	1.03	<0.005	0.04	0.56	0.086	0.02	0.019	0.429	16.71	0.07	0.003
192331 100um Mag	161.13	20.08	11.26	7.75	60.85	0.32	0.28	<0.005	0.01	0.25	0.098	<0.01	0.015	0.357	13.6	0.03	<0.002
192332 100um Mag	157.53	20.00	11.53	7.54	61.94	0.17	0.12	<0.005	<0.01	0.12	0.13	0.01	0.01	0.567	12.22	<0.01	<0.002
192333 100um Mag	163.83	20.00	10.5	8.52	60.15	0.17	0.11	0.008	<0.01	0.13	0.138	0.48	0.009	1.26	13.79	0.01	<0.002
193508 100um Mag	160.59	20.00	10.96	7.87	66.37	0.12	0.41	<0.005	<0.01	0.26	0.087	<0.01	0.007	0.011	6.37	0.03	<0.002
193509 100um Mag	156.38	20.00	9.39	9.5	65.05	0.03	0.5	<0.005	<0.01	0.19	0.084	<0.01	0.009	0.005	7.21	<0.01	<0.002
193510 100um Mag	157.8	20.00	7.93	10.99	64.52	0.11	0.51	0.006	<0.01	0.25	0.109	<0.01	0.008	0.011	9.01	0.01	<0.002
193511 100um Mag	153.83	20.00	7.83	11.01	65.04	0.19	0.5	<0.005	<0.01	0.32	0.15	<0.01	0.008	0.486	7.53	<0.01	<0.002
193512 100um Mag	160.98	20.00	7.65	11.02	66.4	0.1	0.59	<0.005	<0.01	0.21	0.125	<0.01	0.009	0.03	6.87	0.01	<0.002
192307 75um Mag	157.44	20.04	4.11	14.58	64.48	0.34	0.61	0.013	0.01	0.33	0.119	0.02	0.007	1.72	6.47	0.05	0.003
192308 75um Mag	153.46	19.97	7.46	11.28	65.41	0.41	0.32	0.013	0.01	0.23	0.108	<0.01	0.007	2.81	4.58	0.03	<0.002
192309 75um Mag	155.78	20.00	5.91	13.32	65.7	0.34	0.8	<0.005	<0.01	0.28	0.135	0.01	0.007	1.45	5.09	0.07	0.004
192310 75um Mag	157.00	20.00	8.01	11.31	64.78	0.22	0.52	<0.005	0.01	0.26	0.126	0.01	0.007	2.27	4.8	0.01	<0.002
192311 75um Mag	159.44	20.03	9.81	9.37	68.12	0.12	0.26	0.008	<0.01	0.14	0.107	<0.01	0.005	0.684	3.76	0.02	<0.002
192329 75um Mag	164.02	20.10	10.69	8.01	64.92	0.29	0.33	<0.005	<0.01	0.21	0.083	<0.01	0.017	0.101	8.73	0.02	<0.002
192330 75um Mag	151.74	20.02	5.74	12.93	62.61	0.41	0.77	0.021	0.03	0.43	0.08	0.02	0.016	0.375	10.1	0.08	0.004
192331 75um Mag	160.37	20.02	10.53	8.42	66.42	0.31	0.25	<0.005	<0.01	0.18	0.097	<0.01	0.013	0.267	6.02	0.03	<0.002
192332 75um Mag	159.85	20.01	10.87	8.12	66.76	0.17	0.13	<0.005	<0.01	0.13	0.142	<0.01	0.01	0.473	5.78	<0.01	<0.002
192333 75um Mag	159.2	20.00	9.6	9.33	66.87	0.16	0.07	<0.005	<0.01	0.09	0.148	<0.01	0.006	0.913	4.87	<0.01	<0.002
193508 75um Mag	164.43	20.00	11.11	7.81	65.99	0.11	0.48	<0.005	<0.01	0.28	0.088	0.01	0.008	0.013	6.87	0.02	<0.002
193509 75um Mag	155.31	20.00	9.33	9.52	66.91	0.03	0.53	0.047	<0.01	0.2	0.092	<0.01	0.01	0.003	5.68	<0.01	0.003
193510 75um Mag	157.12	20.04	8.18	10.73	64.4	0.12	0.59	<0.005	<0.01	0.29	0.108	<0.01	0.009	0.014	8.93	<0.01	<0.002
193511 75um Mag	157.95	20.00	8.12	10.55	64.28	0.21	0.59	0.006	<0.01	0.38	0.153	<0.01	0.011	0.498	8.32	0.01	0.002
193512 75um Mag	157.34	20.00	7.73	11.02	66.62	0.1	0.67	<0.005	<0.01	0.23	0.127	<0.01	0.011	0.031	5.98	<0.01	<0.002
192307 50um Mag	157.4	20.02	4.09	14.56	66.41	0.31	0.47	0.025	<0.01	0.25	0.112	0.02	0.005	1.64	4.74	0.06	0.005
192308 50um Mag	153.5	20.00	7.52	11.32	65.99	0.41	0.34	0.007	0.01	0.24	0.113	0.01	0.007	2.74	4.49	0.04	0.002
192309 50um Mag	154.71	20.00	5.75	13.16	66.24	0.34	0.8	0.017	<0.01	0.27	0.136	0.02	0.007	1.49	4.95	0.07	0.005
192310 50um Mag	157.77	20.00	7.93	11.05	66.55	0.23	0.53	0.022	0.01	0.25	0.13	0.02	0.007	2.28	4.57	0.02	<0.002
192311 50um Mag	159.44	20.00	10.18	8.91	68.2	0.13	0.32	0.008	<0.01	0.16	0.109	0.01	0.006	0.698	4.12	0.02	<0.002

192329 50um Mag	163.34	20.01	10.03	8.85	65.27	0.27	0.27	0.007	<0.01	0.18	0.081	<0.01	0.014	0.101	7.87	0.03	<0.002
192330 50um Mag	151.58	20.00	5.61	13.14	63.59	0.42	0.8	0.007	0.03	0.44	0.08	0.03	0.015	0.372	9	0.08	0.004
192331 50um Mag	159.33	20.01	10.38	8.78	67.28	0.3	0.23	<0.005	<0.01	0.17	0.098	0.01	0.012	0.26	5.26	0.03	0.002
192332 50um Mag	160.56	20.01	10.73	8.42	68.25	0.18	0.11	<0.005	<0.01	0.12	0.141	<0.01	0.009	0.453	4.4	<0.01	<0.002
192333 50um Mag	158.72	20.03	9.45	9.34	67.15	0.17	0.09	<0.005	<0.01	0.11	0.154	0.02	0.006	0.97	4.92	<0.01	<0.002
193508 50um Mag	164.16	20.00	10.83	7.87	66.99	0.1	0.43	0.006	<0.01	0.26	0.088	0.02	0.007	0.01	5.53	0.02	<0.002
193509 50um Mag	155.33	20.00	9.33	9.49	65.79	0.04	0.63	0.009	<0.01	0.24	0.087	<0.01	0.013	0.004	6.98	<0.01	<0.002
193510 50um Mag	157.12	20.00	8.15	10.72	65.01	0.13	0.58	<0.005	<0.01	0.29	0.114	<0.01	0.008	0.01	8.19	<0.01	<0.002
193511 50um Mag	157.99	20.01	8.14	10.64	63.83	0.23	0.63	0.02	<0.01	0.41	0.152	0.01	0.012	0.496	8.68	0.01	<0.002
193512 50um Mag	156.91	20.00	7.65	11.1	66.72	0.11	0.71	0.017	<0.01	0.26	0.128	<0.01	0.013	0.031	5.56	0.02	<0.002