

NUCLEAR ACTIVATION SERVICES LIMITED  
 1280 MAIN STREET WEST, HAMILTON, ONTARIO, L8S 4K1  
 PHONE (416) 522-5666 TELEX 06-986947

861461  
 Heavy minerals  
 Samples  
 Analysis  
 - Platinum  
 Blonde

CERTIFICATE OF ANALYSIS

TO: PLACER DEVELOPMENT LIMITED  
 ATTN: NORM GANGNES  
 RESEARCH CENTRE  
 323 ALEXANDER STREET  
 VANCOUVER, B.C. V6A 1C4

CUSTOMER NO. 6/01/01  
 DATE SUBMITTED  
 20-AUG-87

REPORT: 9264

FILE NUMBER: 10369

60 UNPREPARED SAMPLES CUST. REF. NO. 7146-7147

WERE ANALYZED AS FOLLOWS:

ELEMENTS	DETECTION LIMIT	UNITS	METHOD	ELEMENTS	DETECTION LIMIT	UNITS	METHOD
AG	5.0000	PPM	INAA	SE	5.0000	PPM	INAA
AS	2.0000	PPM	INAA	TA	1.0000	PPM	INAA
AU	5.0000	PPB	INAA	TH	0.5000	PPM	INAA
BA	100.0000	PPM	INAA	U	0.5000	PPM	INAA
CA	1.0000	%	INAA	W	4.0000	PPM	INAA
CD	5.0000	PPM	INAA	ZN	50.0000	PPM	INAA
CR	10.0000	PPM	INAA	LA	1.0000	PPM	INAA
FE	0.0200	%	INAA	CE	3.0000	PPM	INAA
HF	1.0000	PPM	INAA	SM	0.1000	PPM	INAA
MG	5.0000	PPM	INAA	EU	0.2000	PPM	INAA
NA	0.0500	%	INAA	YB	0.2000	PPM	INAA
NI	200.0000	PPM	INAA	LU	0.0500	PPM	INAA
RB	30.0000	PPM	INAA	IR	20.0000	PPB	INAA
SB	0.2000	PPM	INAA	PT	10.0000	PPB	DCP
SC	0.1000	PPM	INAA	PD	2.0000	PPB	DCP

DATE 24-DEC-87

NUCLEAR ACTIVATION SERVICES LIMITED

CERTIFIED BY 

\*\*\* UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD ALL SAMPLES \*\*\*  
 UNPREPARED SAMPLES AFTER 30 DAYS ANY OTHER MATERIAL AFTER 120 DAYS.

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S A M P L E N U M B E R S

ELEMENT !           \*\*                   \*\*                   \*\*                   \*\*                   \*\*                   \*\*                   \*\*

& UNITS !CHP-HM4101\*\*CHP-HM4102\*\*CHP-HM4103\*\*CHP-HM4104\*\*CHP-HM4105\*\*CHP-HM4106\*\*

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AG	PPM	<5	<5	<5	<5	<5	<5
AS	PPM	<2	100	<2	<11	<6	<2
AU	PPB	<5	70	<5	<10	<5	<5
BA	PPM	<100	200	300	INTERFER	INTERFER	<400
CA	%	11	10	11	<25	<13	7
CD	PPM	33	25	28	46	26	24
CR	PPM	240	50	600	<80	230	520
FE	%	6.67	15.1	5.78	20.9	7.09	13.1
HF	PPM	3	13	8	60	16	20
MO	PPM	11	12	<5	<44	<5	<5
NA	%	0.48	0.23	0.44	0.34	0.44	0.07
NI	PPM	<200	<200	400	INTERFER	INTERFER	<200
RB	PPM	<30	<30	<30	INTERFER	<170	<30
SB	PPM	<0.2	5.9	<0.2	<2.1	<1.1	<0.2
SC	PPM	68.8	27.6	43.1	25.1	50.8	60.2
SE	PPM	<5	<5	<5	<5	<31	<5
TA	PPM	<1	<1	2	38	16	22
TH	PPM	2.3	19	6.1	260	84	180
U	PPM	<0.5	7.9	2.3	19.5	4.8	72.7
W	PPM	<4	4	<4	33	<9	<4
ZN	PPM	120	60	60	INTERFER	INTERFER	150
LA	PPM	15	126	85	3770	871	1090
CE	PPM	39	204	157	3790	907	1190
SM	PPM	4.3	18.7	13.0	74.7	29.3	28.0
EU	PPM	1.7	7.3	4.2	INTERFER	8.4	4.3
YB	PPM	2.9	13.9	3.9	25.1	7.7	37.4
LU	PPM	0.50	2.36	0.53	3.44	1.90	5.52
IR	PPB	<20	<20	<20	<20	<20	<20
PT	PPB	<10	<10	<10	<100	<10	<10
PD	PPB	11	6	<2	<20	<2	<2

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ELEMENT	!	**	**	**	**	**	**	**	**
UNITS	!	CHP-HM4107	CHP-HM4108	CHP-HM4109	CHP-HM4110	CHP-HM4111	CHP-HM4112	**	**
S	PPM	<5	<5	<5	<5	<5	<5		
S	PPM	<2	110	<7	<5	<7	6		
U	PPB	<5	560	12	<5	<5	13		
A	PPM	<200	<900	INTERFER	1300	INTERFER	<800		
A	%	7	7	21	6	<7	5		
U	PPM	17	31	37	28	19	39		
R	PPM	470	140	230	250	130	130		
E	%	24.0	18.5	7.27	11.1	19.7	11.9		
E	PPM	43	19	32	26	89	30		
D	PPM	<5	15	<5	21	<6	<15		
A	%	<0.05	0.26	0.38	0.25	0.13	0.32		
I	PPM	<200	<300	<300	<300	INTERFER	<300		
B	PPM	<30	<40	<50	<50	140	<50		
B	PPM	1.9	2.4	2.1	1.5	<1.5	2.4		
C	PPM	64.5	52.5	45.5	61.2	51.3	48.6		
E	PPM	<6	<5	<6	<7	<5	<8		
A	PPM	78	25	16	39	32	9		
H	PPM	210	150	120	120	380	130		
	PPM	36.0	9.6	14.7	31.2	46.7	6.4		
	PPM	<4	10	16	18	21	<7		
N	PPM	110	110	100	150	260	210		
A	PPM	1110	667	1350	787	1830	680		
E	PPM	1280	800	1290	888	2040	744		
M	PPM	49.7	32.4	32.9	37.6	81.7	33.1		
U	PPM	6.1	3.2	6.7	6.9	13.2	8.2		
B	PPM	18.9	5.0	10.0	11.4	6.9	5.5		
U	PPM	2.80	0.64	1.56	2.26	1.54	1.77		
R	PPB	<20	<20	<20	<20	<20	<20		
T	PPB	<10	<10	10	<40	<10	<10		
D	PPB	<2	7	<2	<8	<2	9		

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ELEMENT !                   \*\*                   \*\*                   \*\*                   \*\*                   \*\*                   \*\*                   \*\*

& UNITS !FHP-HM4110\*\*FHP-HM4111\*\*FHP-HM4112\*\*FHP-HM4113\*\*FHP-HM4026\*\*FHP-HM4027\*\*

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ELEMENT	UNITS	FHP-HM4110	FHP-HM4111	FHP-HM4112	FHP-HM4113	FHP-HM4026	FHP-HM4027
AG	PPM	<5	<5	<5	<5	<5	<5
AS	PPM INTERFER	INTERFER	INTERFER	INTERFER	INTERFER	<4	INTERFER
AU	PPB	<14	11	<5	31	INTERFER	<5
BA	PPM	700	<300	400	200	300	500
CA	%	<5	7	5	2	14	4
CO	PPM	39	28	58	15	55	36
CR	PPM	920	480	300	120	360	200
FE	%	17.2	25.6	14.5	4.42	9.78	6.75
HF	PPM	50	45	22	6	7	35
MG	PPM	<5	33	<5	<5	<13	<5
NA	%	<0.60	<0.50	0.57	0.54	0.85	1.3
NI	PPM	<700	<300	<300	<200	<200	<200
RB	PPM	<110	<80	<40	<30	<30	50
SB	PPM	<1.8	<1.1	<0.8	<0.6	<0.8	<0.6
SC	PPM	92.8	63.0	70.9	29.3	64.0	51.2
SE	PPM	<14	<6	8	<5	40	<5
TA	PPM	92	50	26	9	20	11
TH	PPM	330	460	190	48	59	60
U	PPM	91.2	36.0	13.3	10.6	5.0	16.0
W	PPM INTERFER	INTERFER	INTERFER	INTERFER	INTERFER	<8	INTERFER
ZN	PPM	290	190	130	<50	110	110
LA	PPM	1650	2230	960	248	393	384
CE	PPM	2140	2760	1210	296	364	548
SM	PPM	82.0	160	51.1	44.6	19.1	35.8
EU	PPM	8.5	6.9	7.1	1.7	5.3	6.0
YB	PPM	45.2	13.2	12.7	3.9	3.8	9.3
LU	PPM	6.30	1.77	1.56	0.60	0.63	1.09
IR	PPB	<20	<20	<20	<20	<20	<20
PT	PPB	<140	<50	<40	<20	<130	<30
PD	PPB	<28	<10	7	18	<25	<7

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ELEMENT	!	**	**	**	**	**	**
& UNITS	!	CHN-HM4101	CHN-HM4102	CHN-HM4103	CHN-HM4104	CHN-HM4105	CHN-HM4106
AG	PPM	<5	<5	<5	<5	<5	<5
AS	PPM	<3	71	<2	INTERFER	INTERFER	<7
AU	PPB	<5	3600	<5	<5	<5	<5
BA	PPM	700	1400	<300	<1000	2600	3500
CA	%	17	13	12	<2	<18	<16
CO	PPM	30	13	32	11	10	22
CR	PPM	120	200	680	170	360	250
FE	%	5.13	3.51	3.94	6.66	1.78	2.52
HF	PPM	59	100	55	760	740	320
MO	PPM	<5	<5	<9	<5	<5	<5
NA	%	0.74	1.2	0.65	<1.6	<1.1	0.30
NI	PPM	<300	<200	<300	<1100	<600	<500
RB	PPM	<40	<30	<40	<200	<150	<80
SB	PPM	<0.6	6.6	<0.5	<5.0	<3.6	5.9
SC	PPM	73.9	17.4	61.8	26.3	25.4	28.7
SE	PPM	<8	15	<9	<49	<39	<50
TA	PPM	18	83	13	500	340	150
TH	PPM	63	180	34	1100	530	330
U	PPM	20.8	76.0	5.9	274	284	137
W	PPM	16	INTERFER	<5	INTERFER	27	47
ZN	PPM	90	<50	70	420	<50	180
LA	PPM	183	870	195	4790	2750	1240
CE	PPM	237	1470	275	6050	4110	1600
SM	PPM	37.0	215	46.0	355	387	452
EU	PPM	12.8	50.0	11.0	72.5	76.4	57.0
YB	PPM	13.1	40.0	8.9	101	90.1	63.6
LU	PPM	2.34	5.39	1.35	16.1	12.9	8.92
IR	PPB	<20	<20	<20	<20	<20	<20
PT	PPB	<30	<20	<10	<20	<10	<30
PD	PPB	<7	<5	<2	<4	<2	<7

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ELEMENT & UNITS	!CHN-HM4107**	**CHN-HM4108**	**CHN-HM4109**	**CHN-HM4110**	**CHN-HM4111**	**CHN-HM4112**
AG PPM	<5	<5	<5	<5	<5	<5
AS PPM	INTERFER	INTERFER	<22	INTERFER	INTERFER	INTERFER
AU PPB	830	52000	<5	<5	<5	5
BA PPM	2500	4100	3200	1500	3400	3700
CA %	INTERFER	<1	<16	<7	INTERFER	INTERFER
CD PPM	12	18	14	<5	<18	32
CR PPM	650	330	260	470	470	760
FE %	2.24	2.21	3.08	2.13	<0.78	4.34
HF PPM	420	140	850	370	120	210
MO PPM	<5	<370	<5	<5	INTERFER	<5
NA %	INTERFER	INTERFER	INTERFER	<6.8	INTERFER	INTERFER
NI PPM	<1000	<500	<800	<400	<2300	<1000
RB PPM	<160	120	<140	<70	<50	<200
SB PPM	<3.9	<2.7	4.7	10	16	7.0
SC PPM	30.7	19.6	32.9	6.7	8.9	40.5
SE PPM	<39	19	37	<18	<98	<6
TA PPM	150	37	250	260	81	80
TH PPM	2200	2300	610	3000	9700	2900
U PPM	284	148	166	533	627	303
W PPM	INTERFER	230	INTERFER	INTERFER	6300	1900
ZN PPM	280	190	<50	370	<590	<240
LA PPM	7200	8180	2730	10300	30700	10600
CE PPM	8080	8460	3680	13800	31700	12400
SM PPM	627	843	312	<0.1	1770	619
EU PPM	61.0	49.5	51.4	115	110	91.8
YB PPM	61.0	24.5	74.7	118	42.1	68.4
LU PPM	9.80	3.57	12.9	17.9	5.49	9.18
IR PPB	<20	<20	<20	<20	<20	<20
PT PPB	<10	440	<10	<50	<20	<20
PD PPB	<2	470	<2	<10	<5	5

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ELEMENT !           \*\*               \*\*               \*\*               \*\*               \*\*               \*\*               \*\*

& UNITS !CHN-HM4113\*\*CHN-HM4026\*\*CHN-HM4027\*\*FHN-HM4101\*\*FHN-HM4102\*\*FHN-HM4103\*\*

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AG	PPM	<5	<5	<5	<5	<5	<5
AS	PPM	INTERFER	<3	INTERFER	INTERFER	90	INTERFER
AU	PPB	4200	<5	<5	86	2000	16
BA	PPM	<1300	<400	5100	1700	1700	900
CA	%	INTERFER	15	<1	15	5	37
CD	PPM	32	19	20	14	8	42
CR	PPM	420	670	470	70	50	640
FE	%	3.62	3.80	4.38	2.50	1.22	7.59
HF	PPM	150	95	400	79	81	200
MD	PPM	<5	<5	<5	<5	<5	<5
NA	%	INTERFER	0.59	<8.0	3.7	3.8	1.0
NI	PPM	<1500	<400	<300	<200	<200	<200
RB	PPM	<260	<60	<90	200	80	<30
SB	PPM	<5.8	<0.7	4.1	4.9	2.4	1.4
SC	PPM	44.4	52.5	45.6	23.8	11.6	85.6
SE	PPM	<49	<12	<7	<16	<7	<5
TA	PPM	100	30	180	28	24	34
TH	PPM	4300	160	360	110	110	140
U	PPM	313	23.6	98.0	53.0	37.7	39.0
W	PPM	INTERFER	9	150	INTERFER	INTERFER	310
ZN	PPM	380	230	<50	<120	70	<50
LA	PPM	14500	582	2160	545	440	756
CE	PPM	15200	781	3630	762	693	1170
SM	PPM	800	109	354	71.4	86.0	87.4
EU	PPM	78.4	18.4	100	20.5	17.3	24.8
YB	PPM	50.9	18.9	76.6	16.8	16.7	24.6
LU	PPM	6.76	2.74	11.3	2.50	2.58	3.58
IR	PPB	<20	<20	<20	<20	<20	<20
PT	PPB	<10	<10	<10	<30	<40	<20
PD	PPB	7	<2	<2	9	<8	<4

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ELEMENT & UNITS	! FHN-HM4104	** FHN-HM4105	** FHN-HM4106	** FHN-HM4107	** FHN-HM4108	** FHN-HM4109	**
AG	PPM <5	<5	<5	<5	<5	<5	<5
AS	PPM INTERFER	INTERFER	INTERFER	INTERFER	INTERFER	INTERFER	INTERFER
AU	PPB <10	99	87	6000	3300	<10	<10
BA	PPM 200	1800	1800	2800	1800	2200	2200
CA	% <9	16	3	<7	<3	<8	<8
CO	PPM 12	12	7	<5	8	8	8
CR	PPM 70	300	140	290	170	210	210
FE	% 0.93	2.07	1.90	1.31	1.35	0.86	0.86
HF	PPM 980	1600	500	430	140	1100	1100
MG	PPM <5	<5	<5	<5	<5	<5	<5
NA	% 3.6	1.3	2.3	2.2	<8.0	1.5	1.5
NI	PPM 1300	<700	600	<1100	<500	<600	<600
RB	PPM 230	<110	150	<290	<100	<30	<30
S3	PPM 3.1	5.4	0.9	6.5	<2.4	8.2	8.2
SC	PPM 19.9	28.1	19.7	18.4	12.0	15.8	15.8
SE	PPM <37	<37	<8	<45	<36	<30	<30
TA	PPM 360	280	84	62	210	220	220
TH	PPM 1100	1000	750	3400	1700	770	770
U	PPM 420	922	306	402	250	425	425
W	PPM 1000	INTERFER	INTERFER	2000	780	INTERFER	INTERFER
ZN	PPM <120	160	150	<60	<130	<110	<110
LA	PPM 1920	2170	1980	10200	5910	1660	1660
CE	PPM 2980	3040	2690	12200	6850	2480	2480
SM	PPM 193	276	38.9	858	408	269	269
EU	PPM 28.1	42.2	32.9	53.3	32.8	34.9	34.9
YB	PPM 94.8	116	51.0	39.7	13.5	84.4	84.4
LU	PPM 16.8	21.8	9.42	6.56	2.91	14.6	14.6
IR	PPB <20	<20	<20	<20	<20	<20	<20
PT	PPB <100	<100	<20	<50	520	<100	<100
PD	PPB <20	<20	<4	<10	59	<20	<20



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ELEMENT & UNITS	!	**	**	**	**	**	**
	!	FHN-HM4110	FHN-HM4111	FHN-HM4112	FHN-HM4113	FHN-HM4026	FHN-HM4027
AG	PPM	<5	<5	<5	<5	<5	<5
AS	PPM INTERFER		<480	<120	<120	<54	<29
AU	PPB	570	5	5	1600	47	120
BA	PPM	11000	4000	1200	3800	800	1900
CA	% INTERFER		<29	<8	<8	11	23
CO	PPM	<24	<7	5	<10	20	28
CR	PPM	460	320	100	240	310	160
FE	%	3.80	0.79	0.52	1.59	3.60	3.32
HF	PPM	1200	340	110	270	140	450
MG	PPM	<5	<260	<5	<40	<5	16
NA	% INTERFER		<77	2.9	<0.90	1.7	2.0
NI	PPM	<2900	<900	<300	<200	<200	<400
RB	PPM	<200	<190	<60	<150	30	180
SB	PPM	<8.0	7.4	3.0	2.1	0.8	3.4
SC	PPM	34.2	11.6	6.9	8.0	35.4	39.0
SE	PPM	<40	<33	<13	78	<5	<15
TA	PPM	170	19	15	<8	20	75
TH	PPM	12000	5900	1100	1300	300	330
U	PPM	394	333	133	50.0	46.0	102
W	PPM	900	<4	130	120	<68	<100
ZN	PPM	<200	<50	100	<90	<50	<70
LA	PPM	34800	16300	6110	12300	960	1170
CE	PPM	48500	26800	10400	14600	1300	2390
SM	PPM	2640	1360	527	960	133	149
EU	PPM	173	117	68.0	55.3	16.8	44.5
YB	PPM	118	33.4	26.2	29.9	15.3	35.3
LU	PPM	24.1	4.75	5.20	3.24	2.41	6.90
IR	PPB	<20	<20	<20	<20	<20	<20
PT	PPB	<290	<40	<40	<70	<10	<70
PD	PPB	<58	9	<8	16	3	<14

EXPLANATION OF CODES

INTERFER - DETECTION NOT POSSIBLE DUE TO INTERFERENCE

VARIABLE DETECTION LIMITS DUE TO SAMPLE COMPOSITION

C.F. MINERAL RESEARCH LTD.  
 263 LAKE AVENUE  
 KELOWNA, BRITISH COLUMBIA  
 CANADA V1Y 5W6

TEL (604) 763-1815  
 (604) 860 8525

PLACER DEVELOPMENT LIMITED  
 R. PINSENT  
 28/07/87

C.F.M. 87-424

SAMPLE NO.	ORIGINAL WEIGHT (KG)	FRACTION	WEIGHT (GMS)	GRAINS OF SCHEELITE
04026	9.000			
04026		-35+150HM	265.28	
04026		-35+150HP	289.70	
04026		-35+150HN	89.40	NIL
04026		-150HM	18.31	
04026		-150HP	15.14	
04026		-150HN	17.03	
04027	7.300			
04027		-35+150HM	206.03	
04027		-35+150HP	106.53	
04027		-35+150HN	23.43	NIL
04027		-150HM	8.94	
04027		-150HP	7.11	
04027		-150HN	3.56	
04101	9.000			
04101		-35+150HM	603.60	
04101		-35+150HP	401.69	
04101		-35+150HN	47.32	NIL
04101		-150HM	16.65	
04101		-150HP	27.10	
04101		-150HN	6.29	
04102	7.300			
04102		-35+150HM	117.15	
04102		-35+150HP	92.39	
04102		-35+150HN	8.64	NIL
04102		-150HM	9.46	
04102		-150HP	10.99	
04102		-150HN	5.64	
04103	9.500			
04103		-35+150HM	396.30	
04103		-35+150HP	528.77	
04103		-35+150HN	190.22	NIL
04103		-150HM	13.78	
04103		-150HP	14.10	
04103		-150HN	12.89	

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SAMPLE NO.	ORIGINAL WEIGHT (KG)	FRACTION	WEIGHT (CMS)	GRAINS OF SCHEELITE
04104	8.700			
04104		-35+150HM	73.24	
04104		-35+150HP	17.71	
04104		-35+150HN	13.20	NIL
04104		-150HM	5.93	
04104		-150HP	2.22	
04104		-150HN	2.33	
04105	8.200			
04105		-35+150HM	184.35	
04108		-35+150HP	92.48	
04105		-35+150HN	16.47	NIL
04105		-150HM	16.27	
04105		-150HP	9.81	
04105		-150HN	2.44	
04106	8.400			
04106		-35+150HM	217.73	
04106		-35+150HP	136.19	
04106		-35+150HN	50.90	NIL
04106		-150HM	11.91	
04106		-150HP	10.01	
04108		-150HN	10.70	
04107	8.500			
04107		-35+150HM	39.15	
04107		-35+150HP	77.05	
04107		-35+150HN	17.56	NIL
04107		-150HM	0.93	
04107		-150HP	3.36	
04107		-150HN	4.77	
04108	9.000			
04108		-35+150HM	419.43	
04108		-35+150HP	207.83	
04108		-35+150HN	28.36	NIL
04108		-150HM	20.90	
04108		-150HP	12.41	
04108		-150HN	13.55	

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SAMPLE NO.	ORIGINAL WEIGHT (KG)	FRACTION	WEIGHT (GMS)	GRAINS OF SCHEELITE
04109	9.000			
04109		-35+150HM	227.14	
04109		-35+150HP	67.12	
04109		-35+150HN	20.91	NIL
04109		-150HM	12.13	
04109		-150HP	6.07	
04109		-150HN	2.54	
04110	9.100			
04110		-35+150HM	6.13	
04110		-35+150HP	29.36	
04110		-35+150HN	3.96	NIL
04110		-150HM	0.39	
04110		-150HP	1.58	
04110		-150HN	0.67	
04111	7.700			
04111		-35+150HM	109.61	
04111		-35+150HP	73.00	
04111		-35+150HN	8.95	NIL
04111		-150HM	6.82	
04111		-150HP	4.13	
04111		-150HN	4.98	
04112	8.000			
04112		-35+150HM	112.68	
04112		-35+150HP	59.67	
04112		-35+150HN	11.52	NIL
04112		-150HM	9.07	
04112		-150HP	5.43	
04112		-150HN	5.14	
04113	8.000			
04113		-35+150HM	170.35	
04113		-35+150HP	167.15	
04113		-35+150HN	16.70	NIL
04113		-150HM	5.55	
04113		-150HP	8.58	
04113		-150HN	3.97	