



## ASX RELEASE

19<sup>th</sup> of October 2022

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ASX: TSL

## Further Consistent Results from Resource Infill and Extension Drilling Program

Titanium Sands Ltd confirms that it has received further results from the resource infill and extension drilling program completed in August (<sup>1</sup>ASX :TSL 25<sup>th</sup> of August 2022) at its Mannar Island Project. These latest results represent analysis of Total Heavy Mineral (THM%) from a further 702 samples from 60 RCAC drill holes. Of the 315 holes drilled in the completed program THM results have now been received from 128 drill holes. Results from the first 68 holes have previously been reported (<sup>2</sup>ASX :TSL 29<sup>th</sup> April 2022). All samples are now in the analytical laboratory in South Africa and the remainder of the Total Heavy Mineral (THM) results are being processed as quickly as possible and are expected to be completed over the next 4 to 6 weeks. To expedite incorporating the drilling results into a revised resource statement, mineralogical analyses of the Total Heavy Mineral assemblages are being carried out in batches rather than on completion of all the THM analyses.

As previously announced to the market (<sup>3</sup>ASX : TSL 4<sup>th</sup> of January 2022) the program consisted of about 300 holes with a target depth of 12m for a total meterage of around 3,600m (Figure 1). The primary objective of the drilling was to convert more of the resource in the high-grade zone from an inferred to indicated mineral resource category by decreasing the RC aircore drill line separation from a nominal 400m to 200m.

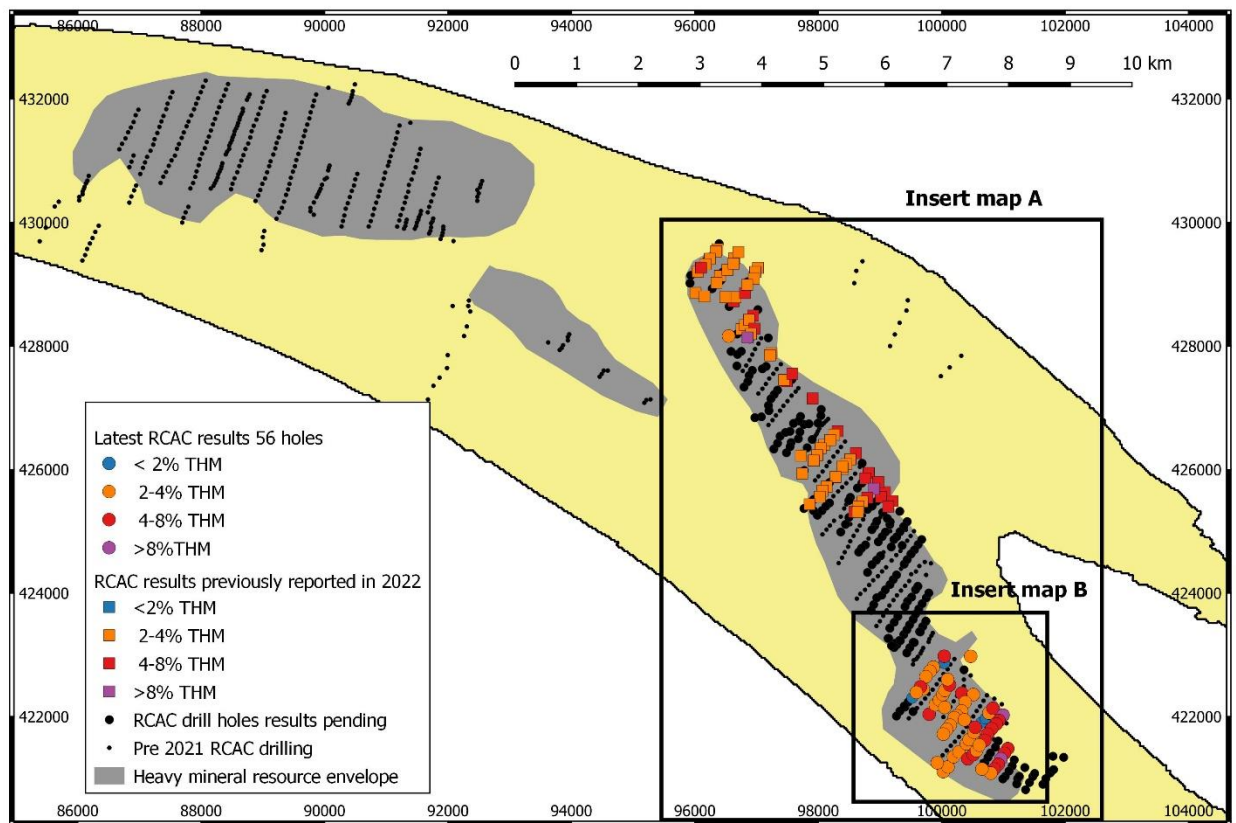
In addition, 33 holes were drilled beneath a 2 square kilometre high grade resource zone previously only drilled to 2-3m. All except for two of the 33, 12m RC aircore holes in this zone have returned intercepts of 2-9% THM below the shallow resource.

Results so far from this program are consistent with the earlier more widely spaced resource drilling. Of the 60 holes in this latest batch of results 57 returned intercepts of greater than 2% THM with heavy minerals down to depths of 12m (Table 1).

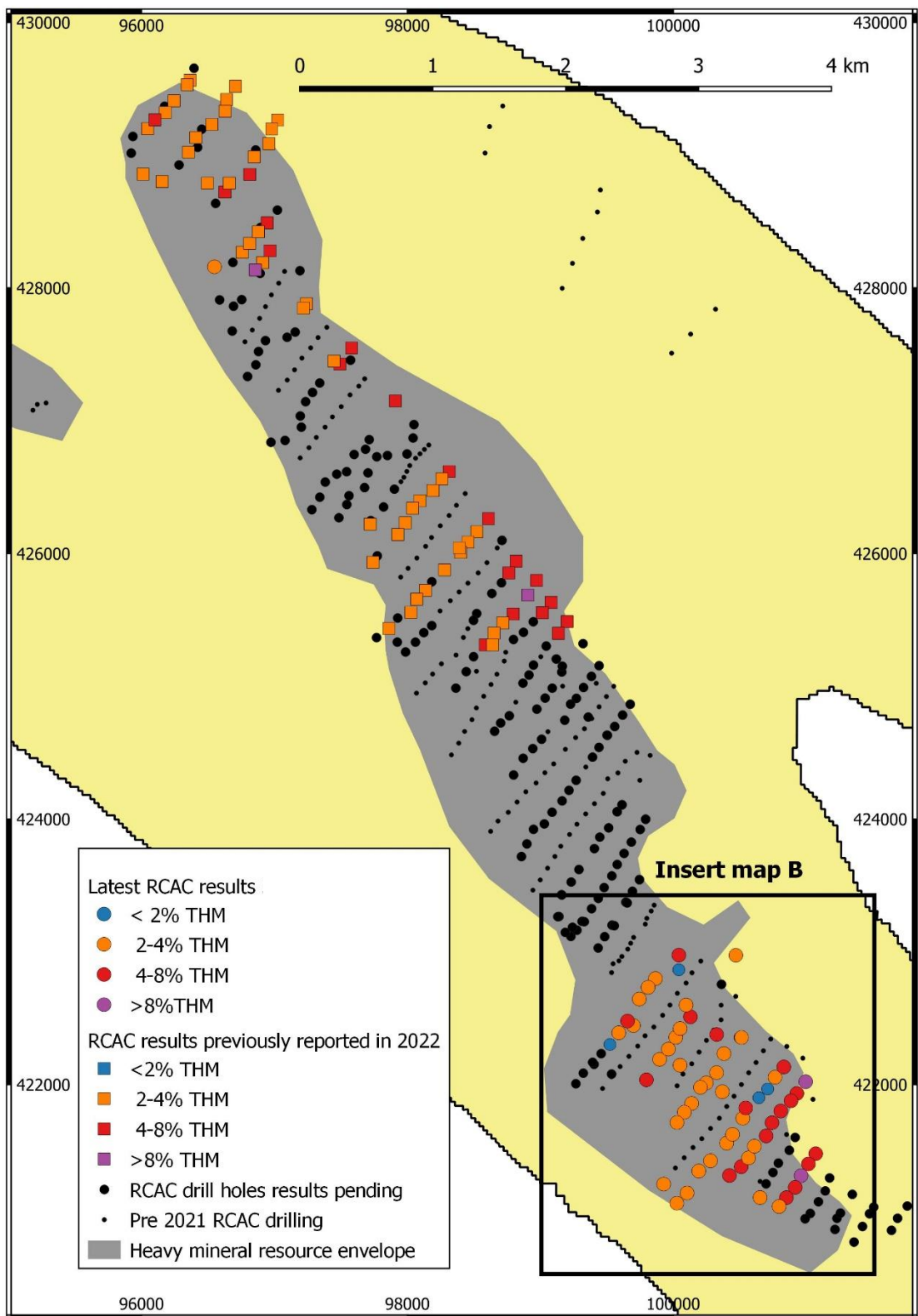
The program was contained within the Company's high grade resource zone as outlined in the initial scoping study (<sup>4</sup>ASX:TSL 16<sup>th</sup> of June 2020)(Figures 1 and 2). This high-grade zone contains a mineral resource of 93Mt at 5.24%THM of which 32% is in the indicated category (Table 2). It represents 35% of the total current mineral resource estimate for the project of 265Mt at 4.38%THM (Table 3)(<sup>5</sup>ASX :TSL 24<sup>th</sup> of September 2020). The results from this program will be used to provide an updated resource statement of this high grade resource zone that will form the basis for a more advanced scoping study analysis.

BH ID	WGS84 N	WGS84 E	EOH	Int. m	Fr m	>2% THM
MAC553	9.0144	79.863	12	1	0	3.68
MAC554	9.0138	79.8625	12	10	0	2.05
MAC555	9.0112	79.8615	12	2	0	3.42
MAC556	9.013	79.8619	12	2	0	3.01
MAC557	9.0115	79.8611	12	3	0	5.01
MAC558	9.0107	79.8605	12	12	0	2.38
MAC560	9.0075	79.8624	12	1	0	4.65
MAC561	9.0628	79.8327	12	2	0	3.25
MAC562	9.0089	79.8633	12	2	0	2.11
MAC563	9.0096	79.8639	12	2	0	2.64
MAC564	9.0104	79.8644	12	9	0	2.84
MAC565	9.011	79.8647	12	9	0	3.27
MAC566	9.0118	79.8654	12	1	0	5.47
MAC567	9.0126	79.8651	9	8	0	2.7
MAC568	9.0133	79.3869	12	8	0	2.44
MAC569	9.014	79.8675	12	8	0	3.72
MAC570	9.0106	79.8672	9	9	0	4.71
MAC571	9.0104	79.8689	9	9	0	3.8
MAC572	9.0085	79.8647	12	8	0	3.33
MAC573	9.016	79.8646	12	9	0	4.83
MAC574	9.0093	79.8677	12	8	0	3.21
MAC575	9.008	79.8672	12	9	0	3.91
MAC576	9.0073	79.8665	12	8	0	2.68
MAC577	9.007	79.8661	12	9	0	2.6
MAC578	9.0059	79.8655	12	9	9	2.31
MAC579	9.0053	79.865	12	8	0	2.53
MAC580	9.0046	79.8645	12	8	0	3.34
MAC581	8.9991	79.8645	12	12	0	2.58
MAC582	8.9998	79.8652	10	1	0	2.5
MAC583	9.0004	79.8636	10	1	0	3.24
MAC584	9.0013	79.866	12	9	0	2.29
MAC585	9.002	79.8668	12	9	0	3.38
MAC586	9.0067	79.8676	12	11	0	3.46
MAC587	9.0032	79.8679	12	9	0	2.18
MAC588	9.0038	79.8683	12	9	0	3.25
MAC589	9.0049	79.869	12	8	0	3.1
MAC590	9.0056	79.8692	12	5	0	5.13
MAC593	9.0077	79.8712	12	2	0	3.05
MAC594	9.0084	79.8718	12	9	0	6.02
MAC595	9.0074	79.8733	12	7	0	10.24
MAC596	9.0066	79.8727	12	10	0	4.53
MAC597	9.0061	79.8723	12	8	0	4.29
MAC598	9.0054	79.8716	12	8	0	4.25
MAC599	9.0046	79.871	12	9	0	4.51
MAC600	9.0037	79.8706	12	9	0	4.53
MAC601	9.001	79.8681	12	12	0	4.04
MAC602	9.0016	79.8689	12	12	0	4.27
MAC603	9.0022	79.8694	12	9	0	2.47
MAC604	9.003	79.8698	12	9	0	2.63
MAC605	9.0025	79.874	12	10	0	6.04
MAC606	9.0018	79.8735	12	9	0	5.42
MAC607	9.001	79.873	12	9	0	8.56
MAC608	9.0002	79.8726	12	10	0	4.4
MAC609	8.9995	79.872	12	9	0	5.45
MAC610	8.9989	79.8715	12	9	0	2.64
MAC611	8.9995	79.8702	11	11	0	3.21

**Table 1 Intercepts in excess of 2% Total Heavy Minerals from the 60 holes being reported here for the first time.**



**Figure 1 RC-aircore drilling prior to the end of 2019 and the current program and results to date.**



**Figure 2 Insert Map A from Fig 1 above Results from the current RC-aircore program received to date and latest results Insert map B.**

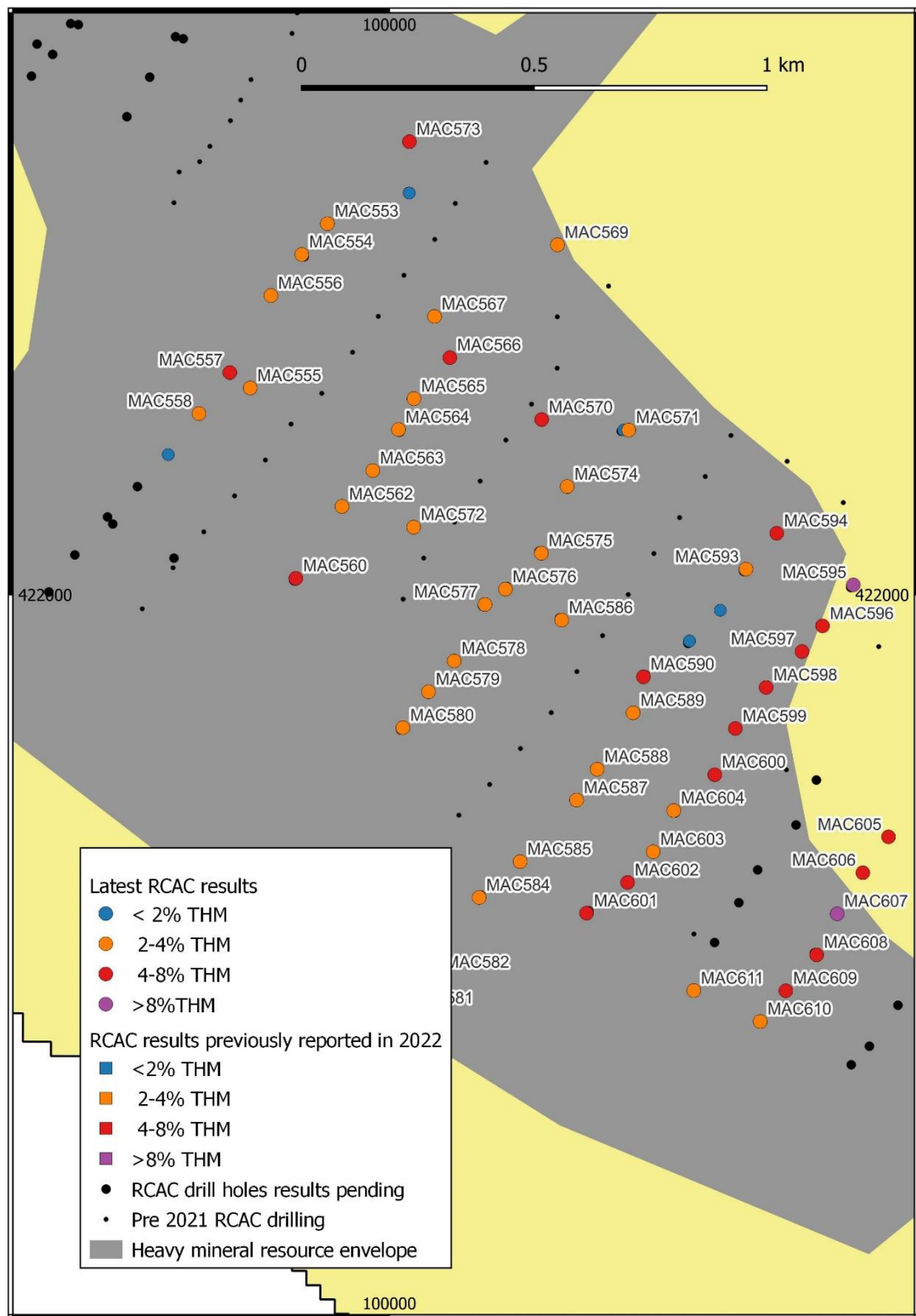


Figure 3 Insert Map B from Figs 1 and 2 showing latest drilling results.

Resource Category	Volume (Mm <sup>3</sup> )	Tonnes (M)	Thm %	Silt %	Ovz %	Ilm %	Leu %	Rut %	Zir %	Gar %
Indicated	16.96	29.51	7.25	0.75	20.39	3.25	0.62	0.1	0.12	0.9
Inferred	36.07	63.05	4.29	0.99	25.10	1.80	0.33	0.07	0.08	0.47
Total	53.03	92.56	5.24	0.92	23.60	2.27	0.42	0.08	0.09	0.61

**Table 2 Mineral resource estimate for a higher grade zone contained within the resources tabulated below for a 2% (THM) lower cut off. Previously reported to the ASX in full compliance with the JORC 2012 requirements see below <sup>5</sup>.**

Resource Category	Volume (Mm <sup>3</sup> )	Tonnes (M)	Thm %	Silt %	Ovz %	Ilm %	Leu %	Rut %	Zir %	Gar %
Indicated	37.78	66.14	5.54	0.83	11.63	2.48	0.46	0.1	0.1	0.51
Inferred	113.62	198.79	3.99	1.06	17.56	1.77	0.3	0.08	0.1	0.3
Total	151.4	264.93	4.38	1.00	16.08	1.95	0.34	0.08	0.10	0.35

**Table 3 Mineral Resource Estimate based on a lower cut off of 2% (THM). Previously reported to the ASX in full compliance with the JORC 2012 requirements see below <sup>5</sup>.**

#### Ends-

The Board of Directors of Titanium Sands Ltd authorised this announcement to be given to the ASX.

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#### Footnotes

<sup>1</sup>*Previously reported to ASX: 25<sup>th</sup> of August 2022, Mannar Island Drilling Program Completed*

<sup>2</sup>*Previously reported to ASX: 29<sup>th</sup> April 2022, Resource Drilling Program Shows Encouraging first results*

<sup>3</sup>*Previously reported to ASX: 4<sup>th</sup> of January Resource Infill and Extension Drilling Program Commences*

<sup>4</sup>*Previously reported to ASX: 16<sup>th</sup> June 2020 "Scoping Study Confirms Potential for Major Dredging Project".*

<sup>5</sup>*Previously Reported to the ASX 24<sup>th</sup> of September 2020 "Project update and garnet added to resource update".*

#### Competent Persons Statements

Except where indicated, exploration results above have been reviewed and compiled by James Searle BSc (hons), PhD, a Competent Person who is a Member of the Australian Institute of Mining and Metallurgy, with over 37 years of experience in metallic and energy minerals exploration and development, and as such has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Dr Searle is the Managing Director of Titanium Sands Limited and consents to the inclusion of this technical information in the format and context in which it appears.

## **Compliance Statement**

This report includes information (Table 2 and 3) that relates to Exploration Results and Mineral Resources prepared and first disclosed under JORC Code 2012. The information was extracted from the Company's previous ASX announcement as follows:

*Released to the ASX 24/9/2020 "Project update and garnet added to resource estimate".*

This announcement is available to view on the Company's website [www.titaniumsands.com.au](http://www.titaniumsands.com.au)

The Company confirms that it is not aware of any new information or data that materially affect the information included in the relevant market announcement and, in the case of estimates of the Company's Mineral Resources that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply with respect to the resource block model and total heavy mineral content and have not materially changed. The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the relevant original market announcements.

This report includes new exploration results and Appendix 1 contains information in compliance with JORC 2012 requirement for reporting of exploration results. Appendix 2 contains tables of all drill hole collar positions in the current program and all drill hole assay results being reported in this announcement.

## **Forward Looking Statements**

This document may include forward-looking statements. Forward-looking statements include, but are not limited to, statements concerning the Company's planned exploration program and other statements that are not historical facts. When used in this document, the words such as "could," "plan," "expect," "intend," "may", "potential," "should", "further" and similar expressions are forward-looking statements. Although the Company believes that its expectations reflected in these forward-looking statements are reasonable, such statements involve risks and uncertainties and no assurance can be given that further exploration will result in additional Mineral Resources.

## Appendix 1

### JORC TABLES sections 1 and 2

The drilling was undertaken by Sri Lankan geologists from the Sri Lankan Geological Survey and Mines Bureau Technical Services (GSMBTS) and a drilling team directed by Dr James Searle Managing Director of The Company, BSc (hons), PhD, a Member of the Australian Institute of Mining and Metallurgy. Dr Searle is responsible for the compiled JORC compliance tabulated below as well as the technical summaries and descriptions contained in the body of this announcement. Dr Searle has over 37 years of experience in metallic and energy minerals exploration and development, and has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Dr Searle consents to inclusion of this information in the format and context in which it appears.

#### Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

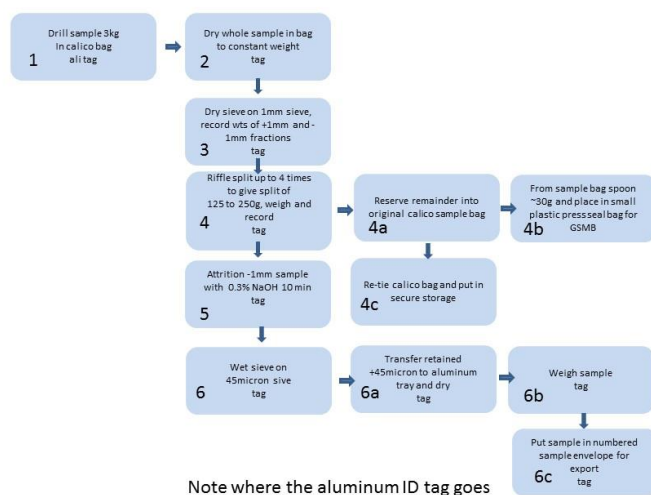
Criteria	Explanation	Commentary
<i>Sampling techniques</i>	<ul style="list-style-type: none"> <li>Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement</li> </ul>	<ul style="list-style-type: none"> <li>100% of recovered sample collected and bagged at drill site.</li> <li>Sample interval down hole every 1.0m above the water table and every 1m below the water table or part interval.</li> <li>Sampling was only undertaken down to depth where water influx into the hole was considered such that it compromised the sample accuracy.</li> <li>Visual logging of heavy minerals was however carried out to the termination depth of the hole. Total heavy mineral content supported by hand lenses, settling bottles and panning dish.</li> <li>Previous experience indicates that the site geologist can with a high degree of certainty judge if the sample has significant heavy mineral concentration, which in this deposit is considered to be over 2% Total Heavy Mineral</li> </ul>



Criteria	Explanation	Commentary
	<p>tools or systems used.</p> <ul style="list-style-type: none"> <li>Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.</li> </ul>	
<i>Drilling techniques</i>	<ul style="list-style-type: none"> <li>Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple</li> </ul>	<ul style="list-style-type: none"> <li>Tractor mounted RC aircore running HQ rods and inner tubes.</li> <li>Face sampling bit.</li> <li>Cyclone outlet sample collection.</li> <li>System air purged each sample interval.</li> <li>Air supply kept to a minimum to ensure efficient removal of sample from the bit face with minimal surrounding draw.</li> <li>Sample recoveries for each sample interval noted.</li> </ul>

Criteria	Explanation	Commentary
	<p>or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.).</p>	<ul style="list-style-type: none"> <li>• All holes vertical.</li> <li>• Material being drilled unconsolidated and only very locally lightly cemented.</li> </ul>
<i>Drill sample recovery</i>	<ul style="list-style-type: none"> <li>• Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>• Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>• Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</li> </ul>	<ul style="list-style-type: none"> <li>• Weight of sample recovered logged against estimate of 100% recovery weight.</li> </ul>
<i>Logging</i>	<ul style="list-style-type: none"> <li>• Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</li> <li>• Whether logging is qualitative or</li> </ul>	<ul style="list-style-type: none"> <li>• Recovered samples logged in standardized format for all relevant visual parameters including sediment, rounding, sorting etc.</li> <li>• Logging of visual parameters qualitative but referenced to standard parameter sheets.</li> <li>• All drill hole samples logged at drill site.</li> <li>• No sampling where water influx created slurring of sample.</li> </ul>

Criteria	Explanation	Commentary
	<p>quantitative in nature. Core (or costean, channel, etc.) photography.</p> <ul style="list-style-type: none"> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	
<i>Sub-sampling techniques and sample preparation</i>	<ul style="list-style-type: none"> <li><i>If core, whether cut or sawn and whether quarter, half or all core taken.</i></li> <li><i>If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</i></li> <li><i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i></li> <li><i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i></li> <li><i>Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling.</i></li> </ul>	<p>Sample preparation procedures being undertaken:</p> <ul style="list-style-type: none"> <li>Dried samples weighed and sieved to remove oversize (&gt;1mm).</li> <li>Oversize weighed.</li> <li>Sub sample of 125 to 250g riffle split.</li> <li>12 chute riffle splitter. Sample loaded evenly into splitter on top of removable baffle to ensure optimal split across the splitter.</li> <li>Sample deslimed (&lt;45 micron).</li> <li>Sample dried to constant weight and reweighed.</li> <li>Custody chain of samples maintained from drill site to controlled storage.</li> </ul>

Criteria	Explanation	Commentary
	<ul style="list-style-type: none"> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	
Quality of assay data and laboratory tests	<ul style="list-style-type: none"> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> <li>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>	<p>The initial drying (at between 80 to 105 degrees C via gas oven), de-sliming and oversize removal was conducted at the site Prep Facility on Mannar Island. The procedures are shown below.</p>  <pre> graph TD     1[1 Drill sample 3kg in calico bag all tag] --&gt; 2[2 Dry whole sample in bag to constant weight tag]     2 --&gt; 3[3 Dry sieve on 1mm sieve, record wts of +1mm and -1mm fractions tag]     3 --&gt; 4[4 Riffles split up to 4 times to give split of 125 to 250g, weigh and record tag]     4 --&gt; 4a[4a Reserve remainder into original calico sample bag]     4 --&gt; 4b[4b From sample bag spoon ~30g and place in small plastic press seal bag for GSMB]     4 --&gt; 5[5 Attrition -1mm sample with 0.3% NaOH 10 min tag]     4a --&gt; 4c[4c Re-tie calico bag and put in secure storage]     5 --&gt; 6[6 Wet sieve on 45micron sieve tag]     6 --&gt; 6a[6a Transfer retained +45micron to aluminum tray and dry tag]     6 --&gt; 6b[6b Weigh sample tag]     6a --&gt; 6b     6b --&gt; 6c[6c Put sample in numbered sample envelope for export tag]   </pre> <p>Note where the aluminum ID tag goes</p> <p>Analytical work on the tetra bromoethane (TBE) based THM determination and subsequent magnetic separation work will be done by Scientific Services C.C., Cape Town. XRF work was done on the fractions of the magnetic separation samples</p> <ul style="list-style-type: none"> <li>The determination of THM % sample concentrate using TBE at a specific gravity (SG) of 2.95, are as follows:</li> <li>TBE is placed into the glass flask up to the indicated mark.</li> <li>Place approximate 1 scoop of sample into the flask.</li> <li>Wash down the sides of the flask and impeller with TBE to ensure all material is in the TBE.</li> <li>Run the mixer for about 10 seconds.</li> <li>Wash down again to ensure no material is 'hung'.</li> <li>Run the impeller mixer repeatable in 10 second bursts until sure that all heavies have been liberated.</li> <li>Allow to stand for 5-10 minutes or until no more material cascades to bottom.</li> <li>Once the discharge pipe is clear of suspended material release the tube to allow the concentrate to be captured in the filter paper. Store this labeled filter paper.</li> </ul>

Criteria	Explanation	Commentary
		<ul style="list-style-type: none"> <li>• Process any remaining sample as above ensuring no concentrate is lost.</li> <li>• Finally flush out the floats by opening the tube and allowing the floats to fall into filter paper – allow this to stand capturing all the TBE which will be reused at a later stage.</li> <li>• Wash all concentrates and floats thoroughly with acetone to reclaim as much TBE as possible.</li> <li>• After the concentrate filter is acetone rinsed and dried, transfer the concentrate very carefully into a bag by opening the filter paper ensuring nothing is lost.</li> <li>• Place the floats into the waste drums unless specified by the client to do otherwise.</li> <li>• Check the SG of the TBE with the density tracers provided and re-use as appropriate.</li> </ul>
<i>Verification of sampling and assaying</i>	<ul style="list-style-type: none"> <li>• <i>The verification of significant intersections by either independent or alternative company personnel.</i></li> <li>• <i>The use of twinned holes.</i></li> <li>• <i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i></li> <li>• <i>Discuss any adjustment to assay data.</i></li> </ul>	<p>Verification procedures to be undertaken.</p> <ol style="list-style-type: none"> <li>1. Independently supervised repeat drilling will twin between 5 and 10% of holes showing significant heavy mineral mineralisation.</li> <li>2. One in 20 duplicate samples from splitting and sample preparation submitted for separate analysis.</li> </ol>
<i>Location of data points</i>	<ul style="list-style-type: none"> <li>• <i>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Drill collars located using GPS WGD84 to an accuracy typically of better than + or- 5m</li> <li>• Topographic control to be determined from subsequent DTM tie in.</li> </ul>

Criteria	Explanation	Commentary
	<ul style="list-style-type: none"> <li>• <i>Specification of the grid system used.</i></li> <li>• <i>Quality and adequacy of topographic control.</i></li> </ul>	
<i>Data spacing and distribution</i>	<ul style="list-style-type: none"> <li>• <i>Data spacing for reporting of Exploration Results.</i></li> <li>• <i>Whether the data spacing, and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</i></li> <li>• <i>Whether sample compositing has been applied.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Drill hole spacing at this stage has been nominal on line 800m apart with drill holes 50m apart.. Subsequent RC aircore drilling will be on 50m hole spacing on lines in between the existing shallow auger drilling at 400m and 200m line spacing.</li> </ul>
<i>Orientation of data in relation to geological structure</i>	<ul style="list-style-type: none"> <li>• <i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i></li> <li>• <i>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a</i></li> </ul>	<ul style="list-style-type: none"> <li>• Shoreline concentrated heavy minerals when preserved by net coastal progradation seaward form strands of mineralisation that can vary from 10s to hundreds of metres wide but many hundreds or metres and kilometres long. Drill lines are therefore optimally oriented across the trend direction of the paleo shoreline positions. Drill hole spacing along the lines were designed to find HM strands as narrow as 25 to 50m wide. Separation of the drill lines along the paleo shoreline orientations reflects the much greater along shore dimensions of any potentially economic strands.</li> <li>• The RC aircore drilling below the dune and strand line deposit is intersecting near beach and nearshore shallow water current sorted and concentrated heavy mineral bearing sands and silts.</li> </ul>

Criteria	Explanation	Commentary
	<i>sampling bias, this should be assessed and reported if material.</i>	
<i>Sample security</i>	<ul style="list-style-type: none"> <li><i>The measures taken to ensure sample security.</i></li> </ul>	<ul style="list-style-type: none"> <li>Custody of samples documented, and integrity of packaging monitored.</li> </ul>
<i>Audits or reviews</i>	<ul style="list-style-type: none"> <li><i>The results of any audits or reviews of sampling techniques and data.</i></li> </ul>	<ul style="list-style-type: none"> <li>Duplicated sample splits and samples from twinned holes will be used to demonstrate QA/QC</li> </ul>

## Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	Explanation	
<i>Mineral tenement and land tenure status</i>	<ul style="list-style-type: none"> <li><i>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</i></li> <li><i>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</i></li> </ul>	<ul style="list-style-type: none"> <li>Granted exploration licenses.</li> <li>5% royalty to vendor.</li> <li>5% state royalty regime if exported, 4% not exported..</li> </ul>
<i>Exploration done by other parties</i>	<ul style="list-style-type: none"> <li><i>Acknowledgment and appraisal of exploration by other parties.</i></li> </ul>	<ul style="list-style-type: none"> <li>Acknowledged in referenced announcements.</li> </ul>
<i>Geology</i>	<ul style="list-style-type: none"> <li><i>Deposit type, geological setting and style of mineralisation.</i></li> </ul>	<ul style="list-style-type: none"> <li>Holocene to Modern coastal sand deposit hosted heavy mineral sands</li> </ul>
<i>Drill hole Information</i>	<ul style="list-style-type: none"> <li><i>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:</i> <ul style="list-style-type: none"> <li><i>easting and northing of the drill hole collar</i></li> <li><i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i></li> <li><i>dip and azimuth of the hole</i></li> <li><i>down hole length and interception depth</i></li> <li><i>hole length.</i></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Tabulation of all drill hole information contained within Appendix 2, below, with the exception of RL which will be provided later when a DTM is available. At this time collar elevation is considered not material due to the lack of significant elevation changes over the area.</li> </ul>

Criteria	Explanation	
	<ul style="list-style-type: none"> <li>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.</li> </ul>	
Data aggregation methods	<ul style="list-style-type: none"> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.</li> <li>Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low-grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<ul style="list-style-type: none"> <li>Intercepts calculated on the basis of total heavy mineral grades greater than or equal to visually estimated 2% total heavy mineral.</li> <li>No aggregation of sub grade results into reported intercepts.</li> </ul>
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').</li> </ul>	<ul style="list-style-type: none"> <li>Heavy mineral zones in beach sediments are flat or only very shallowly dipping. All drill holes were vertical.</li> </ul>
Diagrams	<ul style="list-style-type: none"> <li>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</li> </ul>	<ul style="list-style-type: none"> <li>Plans of drill hole locations historical and subject of this announcement are provided.</li> <li>Sectional representations above showing the relationship of previously defined near surface resources and the current RC aircore drilling..</li> </ul>
Balanced reporting	<ul style="list-style-type: none"> <li>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced avoiding misleading reporting of Exploration Results.</li> </ul>	<ul style="list-style-type: none"> <li>All holes being reported on drilled on the stated tenure with locations shown in Figures 1.2 and 3 in the main text of the announcement. Collar positions and intercepts listed in Appendix 2</li> </ul>



Criteria	Explanation	
<i>Other substantive exploration data</i>	<ul style="list-style-type: none"> <li><i>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i></li> </ul>	<ul style="list-style-type: none"> <li>Not applicable.</li> </ul>
<i>Further work</i>	<ul style="list-style-type: none"> <li><i>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</i></li> <li><i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i></li> </ul>	<ul style="list-style-type: none"> <li>Further drilling may test further lateral and depth extensions of the areas of mineralisation defined to date.</li> <li>Results from this program will be used to provide and updated resource statement for the resource zone drilled, which will provide the basis for a more advanced scoping study analysis.</li> </ul>

## Appendix 2

All drill hole collar positions in the program Table 2-1 and all assay results being reported in this announcement Table 2-2

**Table 2-1 Collar positions of all holes drilled in the current program.**

BH ID	SITE ID	Northing WGS84	Easting WGS84	Fr m	To m
MAC474	AC-576	9.0763	79.8313	0	12
MAC475	AC-575	9.0755	79.8310	0	12
MAC476	AC-574	9.0752	79.8308	0	12
MAC477	AC-573	9.0741	79.8299	0	12
MAC478	AC-1220	9.0716	79.8314	0	12
MAC479	AC-1216	9.0742	79.8335	0	12
MAC480	AC-1218	9.0725	79.8325	0	12
MAC481	AC-1217	9.0734	79.8334	0	12
MAC482	AC-1215	9.0751	79.8341	0	12
MAC483	AC-567	9.0728	79.8370	0	12
MAC484	AC-566	9.0722	79.8366	0	12
MAC485	AC-565	9.0712	79.8364	0	12
MAC486	AC-560	9.0679	79.8334	0	12
MAC487	AC-561	9.0685	79.8337	0	12
MAC488	AC-562	9.0691	79.8351	0	12
MAC489	AC-563	9.0703	79.8354	0	12
MAC490	AC-556	9.0658	79.8363	0	12
MAC491	AC-558	9.0685	79.8322	0	12
MAC492	AC-1221	9.0706	79.8309	0	12
MAC493	AC-1223	9.0691	79.8278	0	12
MAC494	AC-1224	9.0686	79.8291	0	12
MAC495	AC-572	9.0733	79.8293	0	12
MAC496	AC-570	9.0722	79.8281	0	12
MAC497	AC-571	9.0728	79.8286	0	12
MAC498	AC-552	9.0631	79.8340	0	12
MAC499	AC-553	9.0638	79.8346	0	12
MAC500	AC-554	9.0644	79.8351	0	12
MAC501	AC-555	9.0652	79.8357	0	12
MAC502	AC-1105	9.0639	79.8365	0	12
MAC503	AC-1106	9.0631	79.8360	0	12
MAC504	AC-1107	9.0624	79.8358	0	12
MAC505	AC-1108	9.0626	79.8386	0	12
MAC506	AC-1109	9.0606	79.8346	0	12
MAC507	AC-1110	9.0605	79.8331	0	12
MAC508	AC-1111	9.0601	79.8340	0	12
MAC509	AC-1114	9.0562	79.8413	0	12
MAC510	AC-1115	9.0564	79.8409	0	12
MAC511	AC-1097	9.0603	79.8390	0	12
MAC512	AC-1098	9.0600	79.8388	0	12

BH ID	SITE ID	Northing WGS84	Easting WGS84	Fr m	To m
MAC513	AC-1113	9.0573	79.8421	0	12
MAC514	AC-1033	9.0537	79.8451	0	12
MAC515	AC-1039	9.0521	79.8464	0	12
MAC516	AC-1045	9.0489	79.8488	0	12
MAC517	AC-1046	9.0484	79.8483	0	12
MAC518	AC-1047	9.0469	79.8468	0	12
MAC519	AC-1048	9.0476	79.8477	0	12
MAC520	AC-1049	9.0464	79.8463	0	12
MAC521	AC-1050	9.0454	79.8458	0	12
MAC522	AC-1132	9.0446	79.8453	0	12
MAC523	AC-1139	9.0453	79.8434	0	12
MAC524	AC-1135	9.0427	79.8436	0	12
MAC525	AC-1051	9.0457	79.8515	0	12
MAC526	AC-1052	9.0448	79.8507	0	12
MAC527	AC-1053	9.0441	79.8501	0	12
MAC528	AC-1054	9.0434	79.8496	0	12
MAC529	AC-1055	9.0437	79.8495	0	12
MAC530	AC-1056	9.0422	79.8485	0	12
MAC531	AC-1142	9.0408	79.8472	0	12
MAC532	AC-1143	9.0402	79.8466	0	12
MAC533	AC-1144	9.0393	79.8462	0	12
MAC534	AC-1145	9.0389	79.8453	0	12
MAC535	AC-1146	9.0382	79.8447	0	12
MAC536	AC-1147	9.0376	79.8439	0	12
MAC537	AC-1057	9.0428	79.8534	0	12
MAC538	AC-1058	9.0420	79.8529	0	12
MAC539	AC-1069	9.0400	79.8558	0	12
MAC540	AC-1070	9.0393	79.8552	0	12
MAC541	AC-1063	9.0415	79.8548	0	12
MAC542	AC-1064	9.0405	79.8542	0	12
MAC543	AC-1065	9.0371	79.8513	0	12
MAC544	AC-1066	9.0392	79.8532	0	12
MAC545	AC-1067	9.0386	79.8525	0	12
MAC546	AC-1068	9.0379	79.8519	0	12
MAC547	AC-1165	9.0371	79.8518	0	12
MAC548	AC-1163	9.0366	79.8458	0	12
MAC549	AC-1071	9.0387	79.8546	0	12
MAC550	AC-1074	9.0387	79.8569	0	12
MAC551	AC-1075	9.0379	79.8563	0	12
MAC552	AC-740	9.0150	79.8646	0	12
MAC553	AC-739	9.0144	79.8630	0	12
MAC554	AC-738	9.0138	79.8625	0	12
MAC555	AC-736	9.0112	79.8615	0	12
MAC556	AC-737	9.0130	79.8619	0	12

BH ID	SITE ID	Northing WGS84	Easting WGS84	Fr m	To m
MAC557	AC-735	9.0115	79.8611	0	12
MAC558	AC-723	9.0107	79.8605	0	12
MAC559	AC-724	9.0099	79.8599	0	12
MAC560	AC-1202	9.0075	79.8624	0	12
MAC561	AC-1201	9.0628	79.8327	0	12
MAC562	AC-1200	9.0089	79.8633	0	12
MAC563	AC-1199	9.0096	79.8639	0	12
MAC564	AC-1198	9.0104	79.8644	0	12
MAC565	AC-1197	9.0110	79.8647	0	12
MAC566	AC-1196	9.0118	79.8654	0	12
MAC567	AC-1195	9.0126	79.8651	0	9
MAC568	AC-1194	9.0133	79.3869	0	12
MAC569	AC-1193	9.0140	79.8675	0	12
MAC570	AC-1203	9.0106	79.8672	0	9
MAC571	AC-1204	9.0104	79.8688	0	9
MAC572	AC-1205	9.0085	79.8647	0	12
MAC573	AC-606	9.0160	79.8646	0	12
MAC574	AC-1206	9.0093	79.8677	0	12
MAC575	AC-1207	9.0080	79.8672	0	12
MAC576	AC-1208	9.0073	79.8665	0	12
MAC577	AC-1209	9.0070	79.8661	0	12
MAC578	AC-1210	9.0059	79.8655	0	12
MAC579	AC-1211	9.0053	79.8650	0	12
MAC580	AC-1212	9.0046	79.8645	0	12
MAC581	AC-675	8.9991	79.8645	0	12
MAC582	AC-674	8.9998	79.8652	0	10
MAC583	AC-673	9.0004	79.8636	0	10
MAC584	AC-672	9.0013	79.8660	0	12
MAC585	AC-671	9.0020	79.8668	0	12
MAC586	AC-670	9.0067	79.8676	0	12
MAC587	AC-669	9.0032	79.8679	0	12
MAC588	AC-668	9.0038	79.8683	0	12
MAC589	AC-667	9.0049	79.8690	0	12
MAC590	AC-666	9.0056	79.8692	0	12
MAC591	AC-665	9.0063	79.8701	0	12
MAC592	AC-664	9.0069	79.8707	0	8
MAC593	AC-663	9.0077	79.8712	0	12
MAC594	AC-662	9.0084	79.8718	0	12
MAC595	AC-676	9.0074	79.8733	0	12
MAC596	AC-677	9.0066	79.8727	0	12
MAC597	AC-678	9.0061	79.8723	0	12
MAC598	AC-679	9.0054	79.8716	0	12
MAC599	AC-680	9.0046	79.8710	0	12
MAC600	AC-681	9.0037	79.8706	0	12

BH ID	SITE ID	Northing WGS84	Easting WGS84	Fr m	To m
MAC601	AC-685	9.0010	79.8681	0	12
MAC602	AC-684	9.0016	79.8689	0	12
MAC603	AC-683	9.0022	79.8694	0	12
MAC604	AC-682	9.0030	79.8698	0	12
MAC605	AC-692	9.0025	79.8740	0	12
MAC606	AC-693	9.0018	79.8735	0	12
MAC607	AC-694	9.0010	79.8730	0	12
MAC608	AC-695	9.0002	79.8726	0	12
MAC609	AC-696	8.9995	79.8720	0	12
MAC610	AC-697	8.9989	79.8715	0	12
MAC611	AC-691	8.9995	79.8702	0	11
MAC612	AC-690	9.0004	79.8706	0	12
MAC613	AC-689	9.0012	79.8711	0	12
MAC614	AC-688	9.0019	79.8714	0	12
MAC615	AC-687	9.0027	79.8722	0	12
MAC616	AC-686	9.0036	79.8726	0	12
MAC617	AC-701	9.0008	79.8750	0	12
MAC618	AC-702	9.0000	79.8747	0	12
MAC619	AC-703	8.9992	79.8742	0	12
MAC620	AC-704	8.9984	79.8736	0	12
MAC621	AC-705	8.9981	79.8733	0	12
MAC622	AC-710	8.9981	79.8755	0	12
MAC623	AC-711	8.9985	79.8757	0	12
MAC624	AC-712	8.9973	79.8753	0	12
MAC625	AC-709	8.9997	79.8765	0	10
MAC626	AC-716	8.9965	79.8766	0	12
MAC627	AC-715	8.9975	79.8772	0	12
MAC628	AC-714	8.9984	79.8777	0	12
MAC629	AC-713	8.9989	79.8780	0	12
MAC630	AC-718	8.9973	79.8792	0	12
MAC631	AC-717	8.9981	79.8796	0	12
MAC632	AC-722	8.9989	79.8803	0	12
MAC633	AC-721	8.9994	79.8808	0	12
MAC634	AC-720	9.0012	79.8822	0	12
MAC635	AC-719	9.0014	79.8807	0	12
MAC636	AC-1192	9.0211	79.8619	0	12
MAC637	AC-1156	9.0203	79.8614	0	12
MAC638	AC-1157	9.0196	79.8610	0	12
MAC639	AC-1158	9.0195	79.8611	0	12
MAC640	AC-1159	9.0180	79.8600	0	12
MAC641	AC-1160	9.0172	79.8595	0	12
MAC642	AC-1161	9.0165	79.8591	0	12
MAC643	AC-767	9.0183	79.8580	0	12
MAC644	AC-768	9.0177	79.8576	0	12

BH ID	SITE ID	Northing WGS84	Easting WGS84	Fr m	To m
MAC645	AC-769	9.0173	79.8572	0	12
MAC646	AC-766	9.0192	79.8586	0	12
MAC647	AC-765	9.0199	79.8591	0	12
MAC648	AC-764	9.0206	79.8595	0	12
MAC649	AC-763	9.0214	79.8600	0	12
MAC650	AC-762	9.0222	79.8604	0	12
MAC651	AC-761	9.0229	79.8608	0	12
MAC652	AC-760	9.0237	79.8613	0	12
MAC653	AC-759	9.0246	79.8619	0	12
MAC654	AC-758	9.0253	79.8623	0	12
MAC655	AC-1188	9.0252	79.8623	0	10
MAC656	AC-1189	9.0262	79.8607	0	10
MAC657	AC-1190	9.0258	79.8604	0	12
MAC658	AC-1191	9.0247	79.8598	0	12
MAC659	AC-1150	9.0240	79.8592	0	12
MAC660	AC-1151	9.0232	79.8588	0	12
MAC661	AC-1152	9.0258	79.8603	0	10
MAC662	AC-1153	9.0218	79.8577	0	9
MAC663	AC-1154	9.0210	79.8572	0	9
MAC664	AC-1155	9.0201	79.8566	0	12
MAC665	AC-1187	9.0201	79.8566	0	12
MAC666	AC-1186	9.0227	79.8538	0	12
MAC667	AC-1185	9.0235	79.8542	0	12
MAC668	AC-1184	9.0245	79.8546	0	10
MAC669	AC-1183	9.0249	79.8554	0	9
MAC670	AC-1182	9.0257	79.8559	0	9
MAC671	AC-1181	9.0265	79.8566	0	11
MAC672	AC-1180	9.0272	79.8571	0	9
MAC673	AC-1179	9.0279	79.8575	0	9
MAC674	AC-1096	9.0295	79.8587	0	9
MAC675	AC-1095	9.0301	79.8591	0	9
MAC676	AC-1094	9.0310	79.8596	0	9
MAC677	AC-1092	9.0323	79.8607	0	9
MAC678	AC-1093	9.0316	79.8602	0	9
MAC679	AC-1091	9.0331	79.8612	0	9
MAC680	AC-1085	9.0357	79.8591	0	9
MAC681	AC-1086	9.0350	79.8586	0	9
MAC682	AC-1087	9.0342	79.8580	0	9
MAC683	AC-1088	9.0335	79.8575	0	9
MAC684	AC-1089	9.0331	79.8571	0	9
MAC685	AC-1090	9.0320	79.8568	0	9
MAC686	AC-1173	9.0307	79.8552	0	9
MAC687	AC-1174	9.0300	79.8546	0	9
MAC688	AC-1175	9.0294	79.8539	0	9

BH ID	SITE ID	Northing WGS84	Easting WGS84	Fr m	To m
MAC689	AC-1176	9.0282	79.8533	0	9
MAC690	AC-1178	9.0322	79.8584	0	9
MAC691	AC-1177	9.0327	79.8548	0	9
MAC692	AC-1084	9.0335	79.8554	0	9
MAC693	AC-1083	9.0342	79.8559	0	9
MAC694	AC-1082	9.0353	79.8565	0	9
MAC695	AC-1081	9.0357	79.8566	0	9
MAC696	AC-1080	9.0361	79.8562	0	9
MAC697	AC-1079	9.0372	79.8580	0	9
MAC698	AC-1078	9.0351	79.8543	0	9
MAC699	AC-1169	9.0345	79.8539	0	9
MAC700	AC-770	9.0179	79.8573	0	9
MAC701	AC-771	9.0175	79.8568	0	9
MAC702	AC-772	9.0186	79.8564	0	9
MAC703	AC-773	9.0186	79.8563	0	9
MAC704	AC-1170	9.0323	79.8530	0	9
MAC705	AC-1171	9.0318	79.8524	0	9
MAC706	AC-1172	9.0312	79.8520	0	9
MAC707	AC-1062	9.0392	79.8507	0	9
MAC708	AC-1060	9.0406	79.8517	0	9
MAC709	AC-1059	9.0413	79.8524	0	9
MAC710	AC-1140	9.0442	79.8524	0	9
MAC711	AC-1134	9.0431	79.8439	0	9
MAC712	AC-1077	9.0357	79.8546	0	12
MAC713	AC-1073	9.0375	79.8532	0	9
MAC714	AC-1076	9.0370	79.8555	0	9
MAC715	AC-1072	9.0380	79.8539	0	9
MAC716	AC-1061	9.0388	79.8505	0	9
MAC717	AC-1061T	9.0388	79.8505	0	9
MAC718	AC-1166	9.0363	79.8505	0	9
MAC719	AC-1167	9.0353	79.8500	0	9
MAC720	AC-1168	9.0341	79.8493	0	9
MAC721	AC-1164	9.0373	79.8465	0	9
MAC722	AC-1162	9.0373	79.8453	0	9
MAC723	AC-1148	9.0384	79.8476	0	9
MAC724	AC-1141	9.0414	79.8476	0	9
MAC725	AC-1149	9.0379	79.8471	0	9
MAC726	AC-726	9.0085	79.8588	0	9
MAC727	AC-725	9.0093	79.8593	0	9
MAC728	AC-727	9.0079	79.8581	0	9
MAC729	AC-728	9.0072	79.8576	0	9
MAC730	AC-557	9.0667	79.8370	0	12
MAC731	AC-564	9.0708	79.8355	0	12
MAC732	AC-1219	9.0722	79.8318	0	12

BH ID	SITE ID	Northing WGS84	Easting WGS84	Fr m	To m
MAC733	AC-559	9.0671	79.8328	0	12
MAC734	AC-1222	9.0697	79.8303	0	12
MAC735	AC-569	9.0717	79.8271	0	12
MAC736	AC-568	9.0705	79.8270	0	12
MAC737	AC-568T	9.0705	79.8270	0	12
MAC738	AC-1099	9.0584	79.8382	0	12
MAC739	AC-1100	9.0580	79.8377	0	12
MAC740	AC-1101	9.0578	79.8362	0	12
MAC741	AC-1102	9.0570	79.8357	0	12
MAC742	AC-1103	9.0561	79.8355	0	12
MAC743	AC-1104	9.0553	79.8350	0	12
MAC744	AC-1137	9.0465	79.8443	0	11
MAC745	AC-1054	9.0436	79.8495	0	9
MAC746	AC-1138	9.0436	79.8495	0	9
MAC747	AC-1139	9.0455	79.8434	0	9
MAC748	AC-1129	9.0472	79.8419	0	9
MAC749	AC-1128	9.0478	79.8430	0	9
MAC750	AC-1044	9.0488	79.8432	0	9
MAC751	AC-1043	9.0499	79.8438	0	9
MAC752	AC-1042	9.0500	79.8446	0	9
MAC753	AC-1040	9.0512	79.8463	0	9
MAC754	AC-1136	9.0477	79.8451	0	9
MAC755	AC-1113	9.0565	79.8420	0	9
MAC756	AC-1113T	9.0565	79.8420	0	9
MAC757	AC-1116	9.0549	79.8399	0	9
MAC758	AC-1120	9.0519	79.8387	0	9
MAC759	AC-1121	9.0510	79.8376	0	9
MAC760	AC-1122	9.0509	79.8366	0	9
MAC761	AC-1119	9.0527	79.8386	0	9
MAC762	AC-1131	9.0457	79.8413	0	9
MAC763	AC-1130	9.0466	79.8418	0	9
MAC764	AC-1127	9.0463	79.8394	0	9
MAC765	AC-1126	9.0471	79.8400	0	9
MAC766	AC-1125	9.0482	79.8403	0	9
MAC767	AC-1124	9.0487	79.8411	0	9
MAC768	AC-1123	9.0489	79.8418	0	9
MAC769	AC-1117	9.0543	79.8394	0	9
MAC770	AC-1118	9.0536	79.8390	0	9
MAC771	AC-1112	9.0584	79.8339	0	9
MAC772	AC-1036	9.0511	79.8433	0	9
MAC773	AC-1037	9.0504	79.8431	0	9
MAC774	AC-1038	9.0500	79.8423	0	9
MAC775	AC-1034	9.0538	79.8451	0	9
MAC776	AC-1041	9.0501	79.8459	0	9



BH ID	SITE ID	Northing WGS84	Easting WGS84	Fr m	To m
MAC777	AC-1041T	9.0501	79.8459	0	9
MAC778	AC-1220T	9.0709	79.8315	0	9
MAC779	AC-572T	9.0737	79.8293	0	9
MAC780	AC-555T	9.0655	79.8358	0	9
MAC781	AC-726T	9.0087	79.8587	0	9
MAC782	AC-1208T	9.0079	79.8600	0	9
MAC783	AC-1159T	9.0180	79.8602	0	9
MAC784	AC-767T	9.0183	79.8581	0	9
MAC785	AC-1192T	9.0211	79.8619	0	12
MAC786	AC-1189T	9.0262	79.8607	0	9
MAC787	AC-1094T	9.0310	79.8597	0	9
MAC788	AC-1080T	9.0361	79.8562	0	9

**Table 2-2**

**All assay results being reported in this announcement.**

BH ID	fr (m)	to (m)	THM%
MAC552	0	1	1.25
MAC552	1	2	0.53
MAC552	2	3	0.81
MAC552	3	4	2.11
MAC552	4	5	1.86
MAC552	5	6	2.53
MAC552	6	7	1.04
MAC552	7	8	0.98
MAC552	8	9	2.2
MAC552	9	10	3.45
MAC552	10	11	0.73
MAC552	11	12	0.78
MAC553	0	1	3.68
MAC553	1	2	1.15
MAC553	2	3	1.76
MAC553	3	4	1.43
MAC553	4	5	1.82
MAC553	5	6	1.92
MAC553	6	7	0.72
MAC553	7	8	2.36
MAC553	8	9	3.02
MAC553	9	10	1.59
MAC553	10	11	0.68
MAC553	11	12	0.88
MAC554	0	1	2.39
MAC554	1	2	1.28
MAC554	2	3	0.22
MAC554	3	4	0.85

BH ID	fr (m)	to (m)	THM%
MAC554	4	5	3.21
MAC554	5	6	2.84
MAC554	6	7	2.04
MAC554	7	8	2.9
MAC554	8	9	2.28
MAC554	9	10	2.47
MAC554	10	11	1.2
MAC554	11	12	2.17
MAC555	0	1	4.6
MAC555	1	2	2.23
MAC555	2	3	1.59
MAC555	3	4	1.25
MAC555	4	5	1.55
MAC555	5	6	2.37
MAC555	6	7	1.38
MAC555	7	8	1.83
MAC555	8	9	2.08
MAC555	9	10	1.66
MAC555	10	11	1.07
MAC555	11	12	1.19
MAC556	0	1	1.87
MAC556	1	2	4.16
MAC556	2	3	0.57
MAC556	3	4	0.83
MAC556	4	5	2.11
MAC556	5	6	1.9
MAC556	6	7	2.12
MAC556	7	8	2.33

BH ID	fr (m)	to (m)	THM%
MAC556	8	9	3.7
MAC556	9	10	0.92
MAC556	10	11	1.02
MAC556	11	12	0.88
MAC557	0	1	6.91
MAC557	1	2	5.78
MAC557	2	3	2.33
MAC557	3	4	1.01
MAC557	4	5	1.1
MAC557	5	6	2.45
MAC557	6	7	0.69
MAC557	7	8	2.61
MAC557	8	9	2.04
MAC557	9	10	2.88
MAC557	10	11	1.73
MAC557	11	12	2.37
MAC558	0	1	3.07
MAC558	1	2	2.26
MAC558	2	3	0.33
MAC558	3	4	0.68
MAC558	4	5	1.23
MAC558	5	6	0.97
MAC558	6	7	0.81
MAC558	7	8	2.32
MAC558	8	9	5.04
MAC558	9	10	4.42
MAC558	10	11	3.82
MAC558	11	12	3.65
MAC559	0	1	1.6
MAC559	1	2	1.02
MAC559	2	3	0.52
MAC559	3	4	1.1
MAC559	4	5	1.67
MAC559	5	6	1.37
MAC559	6	7	1.29
MAC559	7	8	1.64
MAC559	8	9	3.24
MAC559	9	10	3.7
MAC559	10	11	3.1
MAC559	11	12	3.25
MAC560	0	1	4.65
MAC560	1	2	1.55
MAC560	2	3	1.45
MAC560	3	4	1.66
MAC560	4	5	1.55

BH ID	fr (m)	to (m)	THM%
MAC560	5	6	1.59
MAC560	6	7	1.08
MAC560	7	8	2.64
MAC560	8	9	2.5
MAC560	9	10	2.63
MAC560	10	11	1.52
MAC560	11	12	1.96
MAC561	0	1	3.72
MAC561	1	2	2.78
MAC561	2	3	0.9
MAC561	3	4	0.96
MAC561	4	5	1.82
MAC561	5	6	1.03
MAC561	6	7	1.32
MAC561	7	8	2.08
MAC561	8	9	2.02
MAC561	9	10	2.18
MAC561	10	11	1.72
MAC561	11	12	2.19
MAC562	0	1	1.49
MAC562	1	2	2.72
MAC562	2	3	1.21
MAC562	3	4	0.96
MAC562	4	5	1.7
MAC562	5	6	1.56
MAC562	6	7	1.34
MAC562	7	8	2.24
MAC562	8	9	3.34
MAC562	9	10	1.88
MAC562	10	11	2.16
MAC562	11	12	1.95
MAC563	0	1	2.63
MAC563	1	2	2.64
MAC563	2	3	1.55
MAC563	3	4	0.94
MAC563	4	5	1.51
MAC563	5	6	2.1
MAC563	6	7	1.52
MAC563	7	8	2.37
MAC563	8	9	1.9
MAC563	9	10	1.53
MAC563	10	11	1.54
MAC563	11	12	1.01
MAC564	0	1	3.48
MAC564	1	2	6.39

BH ID	fr (m)	to (m)	THM%
MAC564	2	3	0.93
MAC564	3	4	1.95
MAC564	4	5	2.29
MAC564	5	6	1.7
MAC564	6	7	3.05
MAC564	7	8	2.09
MAC564	8	9	3.72
MAC564	9	10	1.76
MAC564	10	11	1.3
MAC564	11	12	1.29
MAC565	0	1	6.01
MAC565	1	2	5.65
MAC565	2	3	1.99
MAC565	3	4	1.61
MAC565	4	5	2.39
MAC565	5	6	3.18
MAC565	6	7	2.82
MAC565	7	8	2.49
MAC565	8	9	3.27
MAC565	9	10	1.18
MAC565	10	11	0.84
MAC565	11	12	0.76
MAC566	0	1	5.47
MAC566	1	2	1.6
MAC566	2	3	0.91
MAC566	3	4	2.25
MAC566	4	5	3.07
MAC566	5	6	2.41
MAC566	6	7	3.29
MAC566	7	8	3.42
MAC566	8	9	2.07
MAC566	9	10	0.75
MAC566	10	11	0.93
MAC566	11	12	0.74
MAC567	0	1	4.07
MAC567	1	2	1.23
MAC567	2	3	1.45
MAC567	3	4	0.27
MAC567	4	5	4.39
MAC567	5	6	2.82
MAC567	6	7	2.76
MAC567	7	8	4.58
MAC567	8	9	1.31
MAC568	0	1	2.4
MAC568	1	2	1.72

BH ID	fr (m)	to (m)	THM%
MAC568	2	3	1.77
MAC568	3	4	1.86
MAC568	4	5	2.87
MAC568	5	6	2.63
MAC568	6	7	2.8
MAC568	7	8	3.43
MAC568	8	9	1.18
MAC568	9	10	1.15
MAC568	10	11	1.23
MAC568	11	12	0.83
MAC569	0	1	4.33
MAC569	1	2	2.25
MAC569	2	3	2.05
MAC569	3	4	3.15
MAC569	4	5	7.4
MAC569	5	6	4.09
MAC569	6	7	2.79
MAC569	7	8	3.7
MAC569	8	9	1.29
MAC569	9	10	1.08
MAC569	10	11	1.31
MAC569	11	12	1.01
MAC570	0	1	1.56
MAC570	1	2	4.87
MAC570	2	3	4.12
MAC570	3	4	5.96
MAC570	4	5	7.31
MAC570	5	6	8.62
MAC570	6	7	2.69
MAC570	7	8	4.17
MAC570	8	9	3.07
MAC571	0	1	3.27
MAC571	1	2	3.05
MAC571	2	3	1.79
MAC571	3	4	3.34
MAC571	4	5	5.8
MAC571	5	6	6.27
MAC571	6	7	4.32
MAC571	7	8	2.46
MAC571	8	9	3.89
MAC572	0	1	3.55
MAC572	1	2	0.4
MAC572	2	3	1.46
MAC572	3	4	3.26
MAC572	4	5	6.05

BH ID	fr (m)	to (m)	THM%
MAC572	5	6	5.23
MAC572	6	7	3.65
MAC572	7	8	3.06
MAC572	8	9	1.43
MAC572	9	10	0.8
MAC572	10	11	0.48
MAC572	11	12	0.6
MAC573	0	1	9.53
MAC573	1	2	2.78
MAC573	2	3	2.9
MAC573	3	4	4.43
MAC573	4	5	7.84
MAC573	5	6	5.68
MAC573	6	7	4.77
MAC573	7	8	3.32
MAC573	8	9	2.19
MAC573	9	10	1.08
MAC573	10	11	1.26
MAC573	11	12	0.9
MAC574	0	1	4.11
MAC574	1	2	1.17
MAC574	2	3	2.41
MAC574	3	4	3.12
MAC574	4	5	2.57
MAC574	5	6	2.84
MAC574	6	7	5.12
MAC574	7	8	4.33
MAC574	8	9	1.68
MAC574	9	10	1.52
MAC574	10	11	1.03
MAC574	11	12	0.85
MAC575	0	1	3.48
MAC575	1	2	7.63
MAC575	2	3	3.74
MAC575	3	4	1.87
MAC575	4	5	3.06
MAC575	5	6	2.99
MAC575	6	7	3.66
MAC575	7	8	4.36
MAC575	8	9	4.42
MAC575	9	10	1.73
MAC575	10	11	1.06
MAC575	11	12	1.32
MAC576	0	1	2.34
MAC576	1	2	2.96

BH ID	fr (m)	to (m)	THM%
MAC576	2	3	1.85
MAC576	3	4	1.2
MAC576	4	5	2.78
MAC576	5	6	3.02
MAC576	6	7	3.45
MAC576	7	8	3.85
MAC576	8	9	1.52
MAC576	9	10	0.87
MAC576	10	11	0.74
MAC576	11	12	0.94
MAC577	0	1	2.23
MAC577	1	2	2.9
MAC577	2	3	4.67
MAC577	3	4	2.24
MAC577	4	5	1.59
MAC577	5	6	1.65
MAC577	6	7	1.38
MAC577	7	8	4.1
MAC577	8	9	2.67
MAC577	9	10	1.41
MAC577	10	11	1.59
MAC577	11	12	1.16
MAC578	0	1	4.15
MAC578	1	2	1.75
MAC578	2	3	1.39
MAC578	3	4	0.96
MAC578	4	5	2.04
MAC578	5	6	1.69
MAC578	6	7	2.24
MAC578	7	8	3.13
MAC578	8	9	3.48
MAC578	9	10	1.38
MAC578	10	11	1.69
MAC578	11	12	1.42
MAC579	0	1	3.93
MAC579	1	2	3.07
MAC579	2	3	1.2
MAC579	3	4	1.99
MAC579	4	5	2.39
MAC579	5	6	2.31
MAC579	6	7	2
MAC579	7	8	3.33
MAC579	8	9	1.54
MAC579	9	10	1.69
MAC579	10	11	1.9

BH ID	fr (m)	to (m)	THM%
MAC579	11	12	2
MAC580	0	1	8.13
MAC580	1	2	5.4
MAC580	2	3	1.75
MAC580	3	4	2.16
MAC580	4	5	2.83
MAC580	5	6	1.85
MAC580	6	7	2.22
MAC580	7	8	2.41
MAC580	8	9	1.63
MAC580	9	10	1.8
MAC580	10	11	2.01
MAC580	11	12	1.74
MAC581	0	1	4.26
MAC581	1	2	0.43
MAC581	2	3	0.85
MAC581	3	4	1.59
MAC581	4	5	1.74
MAC581	5	6	1.48
MAC581	6	7	3.17
MAC581	7	8	4.26
MAC581	8	9	2.85
MAC581	9	10	2.29
MAC581	10	11	4.76
MAC581	11	12	3.32
MAC582	0	1	2.5
MAC582	1	2	0.68
MAC582	2	3	0.54
MAC582	3	4	0.84
MAC582	4	5	1.39
MAC582	5	6	2.46
MAC582	6	7	2.52
MAC582	7	8	4.47
MAC582	8	9	2.56
MAC582	9	10	2.13
MAC583	0	1	3.24
MAC583	1	2	2.02
MAC583	2	3	0.95
MAC583	3	4	1.56
MAC583	4	5	2.33
MAC583	5	6	1.37
MAC583	6	7	2.43
MAC583	7	8	4.07
MAC583	8	9	2.4
MAC583	9	10	2

BH ID	fr (m)	to (m)	THM%
MAC584	0	1	3.78
MAC584	1	2	2.73
MAC584	2	3	0.91
MAC584	3	4	0.9
MAC584	4	5	1.3
MAC584	5	6	2.02
MAC584	6	7	2.4
MAC584	7	8	3.24
MAC584	8	9	3.38
MAC584	9	10	1.89
MAC584	10	11	1.97
MAC584	11	12	1.34
MAC585	0	1	6.09
MAC585	1	2	5.97
MAC585	2	3	2.07
MAC585	3	4	2.1
MAC585	4	5	2.51
MAC585	5	6	2.31
MAC585	6	7	2.59
MAC585	7	8	3.16
MAC585	8	9	3.63
MAC585	9	10	1.54
MAC585	10	11	1.78
MAC585	11	12	2.33
MAC586	0	1	4.82
MAC586	1	2	10.48
MAC586	2	3	3.05
MAC586	3	4	2.8
MAC586	4	5	2.83
MAC586	5	6	2.66
MAC586	6	7	1.97
MAC586	7	8	3.11
MAC586	8	9	2.35
MAC586	9	10	1.86
MAC586	10	11	2.14
MAC586	11	12	1.81
MAC587	0	1	2.18
MAC587	1	2	1.62
MAC587	2	3	1.52
MAC587	3	4	2.69
MAC587	4	5	2.26
MAC587	5	6	2.04
MAC587	6	7	1.6
MAC587	7	8	3.72
MAC587	8	9	2.01

BH ID	fr (m)	to (m)	THM%
MAC587	9	10	1.75
MAC587	10	11	1.83
MAC587	11	12	1.25
MAC588	0	1	3.47
MAC588	1	2	4.38
MAC588	2	3	6.27
MAC588	3	4	2.55
MAC588	4	5	1.74
MAC588	5	6	0.91
MAC588	6	7	2.87
MAC588	7	8	2.69
MAC588	8	9	4.39
MAC588	9	10	0.84
MAC588	10	11	0.83
MAC588	11	12	0.35
MAC589	0	1	4.98
MAC589	1	2	4.76
MAC589	2	3	1.36
MAC589	3	4	1.36
MAC589	4	5	2.74
MAC589	5	6	3.3
MAC589	6	7	2.41
MAC589	7	8	3.88
MAC589	8	9	1.79
MAC589	9	10	0.98
MAC589	10	11	0.88
MAC589	11	12	0.85
MAC590	0	1	2.91
MAC590	1	2	7.18
MAC590	2	3	9.69
MAC590	3	4	1.91
MAC590	4	5	3.93
MAC590	5	6	0.33
MAC590	6	7	0.43
MAC590	7	8	0.92
MAC590	8	9	1.19
MAC590	9	10	0.12
MAC590	10	11	0.05
MAC590	11	12	0.09
MAC591	0	1	1.45
MAC591	1	2	0.59
MAC591	2	3	0.81
MAC591	3	4	0.77
MAC591	4	5	0.32
MAC591	5	6	0.62

BH ID	fr (m)	to (m)	THM%
MAC591	6	7	1.33
MAC591	7	8	0.15
MAC591	8	9	0.36
MAC591	9	10	0.04
MAC591	10	11	0.07
MAC591	11	12	0.04
MAC592	0	1	1.06
MAC592	1	2	0.42
MAC592	2	3	0.03
MAC592	3	4	0.7
MAC592	4	5	0.78
MAC592	5	6	0.79
MAC592	6	7	0.63
MAC592	7	8	1.05
MAC593	0	1	1.47
MAC593	1	2	4.62
MAC593	2	3	1.18
MAC593	3	4	0.98
MAC593	4	5	1.8
MAC593	5	6	1.3
MAC593	6	7	1.24
MAC593	7	8	2.97
MAC593	8	9	1.17
MAC593	9	10	1.65
MAC593	10	11	1.27
MAC593	11	12	1.36
MAC594	0	1	9.55
MAC594	1	2	3.19
MAC594	2	3	5.84
MAC594	3	4	8.97
MAC594	4	5	9.53
MAC594	5	6	7.49
MAC594	6	7	4.33
MAC594	7	8	2.5
MAC594	8	9	2.82
MAC594	9	10	1.78
MAC594	10	11	1.93
MAC594	11	12	0.65
MAC595	0	1	19.96
MAC595	1	2	4.22
MAC595	2	3	7.87
MAC595	3	4	12.5
MAC595	4	5	13.17
MAC595	5	6	8.56
MAC595	6	7	5.42

BH ID	fr (m)	to (m)	THM%
MAC595	7	8	1.97
MAC595	8	9	1.58
MAC595	9	10	1.43
MAC595	10	11	1.5
MAC595	11	12	2.75
MAC596	0	1	5.61
MAC596	1	2	1.29
MAC596	2	3	5.9
MAC596	3	4	8.83
MAC596	4	5	8.51
MAC596	5	6	4.06
MAC596	6	7	3.76
MAC596	7	8	1.81
MAC596	8	9	2.41
MAC596	9	10	3.16
MAC596	10	11	1.46
MAC596	11	12	0.56
MAC597	0	1	5.04
MAC597	1	2	0.82
MAC597	2	3	4.34
MAC597	3	4	4.69
MAC597	4	5	6.53
MAC597	5	6	5.67
MAC597	6	7	4.63
MAC597	7	8	2.57
MAC597	8	9	0.35
MAC597	9	10	2.01
MAC597	10	11	1.19
MAC597	11	12	0.59
MAC598	0	1	5.98
MAC598	1	2	1.82
MAC598	2	3	1.62
MAC598	3	4	5.22
MAC598	4	5	6.32
MAC598	5	6	5.48
MAC598	6	7	4.44
MAC598	7	8	3.15
MAC598	8	9	1.04
MAC598	9	10	1.12
MAC598	10	11	2.27
MAC598	11	12	1.02
MAC599	0	1	8.74
MAC599	1	2	6.87
MAC599	2	3	2.86
MAC599	3	4	2.97

BH ID	fr (m)	to (m)	THM%
MAC599	4	5	4.03
MAC599	5	6	4.08
MAC599	6	7	4.48
MAC599	7	8	4.54
MAC599	8	9	2
MAC599	9	10	1.08
MAC599	10	11	0.91
MAC599	11	12	0.79
MAC600	0	1	10.72
MAC600	1	2	7.9
MAC600	2	3	1.54
MAC600	3	4	3.25
MAC600	4	5	3.55
MAC600	5	6	2.68
MAC600	6	7	4.18
MAC600	7	8	4.03
MAC600	8	9	2.96
MAC600	9	10	1.03
MAC600	10	11	0.92
MAC600	11	12	0.58
MAC601	0	1	11.86
MAC601	1	2	4.31
MAC601	2	3	1.76
MAC601	3	4	2.37
MAC601	4	5	2.62
MAC601	5	6	3.06
MAC601	6	7	3.76
MAC601	7	8	3.91
MAC601	8	9	3.43
MAC601	9	10	3.48
MAC601	10	11	4.73
MAC601	11	12	3.16
MAC602	0	1	5.61
MAC602	1	2	13.5
MAC602	2	3	6.7
MAC602	3	4	2.36
MAC602	4	5	2.58
MAC602	5	6	1.38
MAC602	6	7	4.88
MAC602	7	8	3.48
MAC602	8	9	2.18
MAC602	9	10	2.25
MAC602	10	11	3.64
MAC602	11	12	2.63
MAC603	0	1	3.98

BH ID	fr (m)	to (m)	THM%
MAC603	1	2	3.09
MAC603	2	3	1.61
MAC603	3	4	1.96
MAC603	4	5	1.81
MAC603	5	6	1.82
MAC603	6	7	2.58
MAC603	7	8	3.3
MAC603	8	9	2.04
MAC603	9	10	1.68
MAC603	10	11	1.63
MAC603	11	12	0.98
MAC604	0	1	4.07
MAC604	1	2	4.56
MAC604	2	3	1.52
MAC604	3	4	0.78
MAC604	4	5	1.08
MAC604	5	6	2.46
MAC604	6	7	3.31
MAC604	7	8	2.78
MAC604	8	9	3.15
MAC604	9	10	1.74
MAC604	10	11	1.37
MAC604	11	12	1.23
MAC605	0	1	13.81
MAC605	1	2	9.56
MAC605	2	3	4.57
MAC605	3	4	3.05
MAC605	4	5	7.52
MAC605	5	6	4.35
MAC605	6	7	6.82
MAC605	7	8	4.08
MAC605	8	9	2.71
MAC605	9	10	3.91
MAC605	10	11	0.92
MAC605	11	12	0.39
MAC606	0	1	15.17
MAC606	1	2	1.25
MAC606	2	3	6.8
MAC606	3	4	5.49
MAC606	4	5	3.53
MAC606	5	6	4.19
MAC606	6	7	4.76
MAC606	7	8	4.34
MAC606	8	9	3.26
MAC606	9	10	1.21

BH ID	fr (m)	to (m)	THM%
MAC606	10	11	1.45
MAC606	11	12	0.93
MAC607	0	1	6.91
MAC607	1	2	15.17
MAC607	2	3	22.58
MAC607	3	4	8.43
MAC607	4	5	4.93
MAC607	5	6	7.35
MAC607	6	7	5.39
MAC607	7	8	4.23
MAC607	8	9	2.04
MAC607	9	10	1.18
MAC607	10	11	1.61
MAC607	11	12	1.28
MAC608	0	1	5.64
MAC608	1	2	9.22
MAC608	2	3	3.6
MAC608	3	4	3.02
MAC608	4	5	3.46
MAC608	5	6	4.06
MAC608	6	7	5.02
MAC608	7	8	5.41
MAC608	8	9	2.13
MAC608	9	10	2.4
MAC608	10	11	0.98
MAC608	11	12	0.83
MAC609	0	1	10.59
MAC609	1	2	14.49
MAC609	2	3	5.7
MAC609	3	4	2.57
MAC609	4	5	3.41
MAC609	5	6	2.79
MAC609	6	7	3.3
MAC609	7	8	3.94
MAC609	8	9	2.23
MAC609	9	10	1.14
MAC609	10	11	0.93
MAC609	11	12	0.85
MAC610	0	1	2.95
MAC610	1	2	2.01
MAC610	2	3	1.13
MAC610	3	4	2.04
MAC610	4	5	3.58
MAC610	5	6	3.86
MAC610	6	7	2.83



BH ID	fr (m)	to (m)	THM%
MAC610	7	8	3.28
MAC610	8	9	2.09
MAC610	9	10	1.06
MAC610	10	11	1.22
MAC610	11	12	1.19
MAC611	0	1	7.13
MAC611	1	2	2.89
MAC611	2	3	3.67

BH ID	fr (m)	to (m)	THM%
MAC611	3	4	2.28
MAC611	4	5	3.2
MAC611	5	6	3.25
MAC611	6	7	2.97
MAC611	7	8	2.95
MAC611	8	9	2.84
MAC611	9	10	1.6
MAC611	10	11	2.55