

# Golden Star Resources Announces Drilling Results From Wassa Mine in Ghana Intersects 21.2 Meters Grading 15.8 g/t of Gold and 5.6 Meters Grading 11.9 g/t Beneath the Current Operating 'B Shoot' Pit; Intersects 36.3 Meters Grading 5.4 g/t Beneath the

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Intersects 21.2 Meters Grading 15.8 g/t of Gold and 5.6 Meters Grading 11.9 g/t Beneath the Current Operating 'B Shoot' Pit; Intersects 36.3 Meters Grading 5.4 g/t Beneath the Current Operating 'SE' Pit

DENVER, CO -- (Marketwire) -- 02/06/12 -- Golden Star Resources Ltd. (NYSE Amex: GSS) (TSX: GSC) (GHANA: GSR) ('Golden Star' or the 'Company') today provided an update on exploration activities at its Wassa operations in Ghana. Full drill results, plans and sections are posted at the Company's website at [www.gsr.com](http://www.gsr.com) or by clicking the following link: <http://www.gsr.com/Operations/Wassa.asp>

During the second half of 2011 and during January 2012, exploration programs on the Wassa Mining Lease continued to test the mineralized trends south of the current pit designs and to delineate the higher grade shoots plunging beneath the main pits.

Several holes of the deep drilling program intersected wider and higher grade mineralized zones than those currently being mined. These included hole BSDD090, which intersected 15.8 grams per tonne (g/t) over a true width of 21.2 meters (m) under the B Shoot pit. Several of the significant intersections from the 2011 drilling program are listed in the table below. A total of 155 drill holes amounting to 26,775 m were completed in the second half of 2011 on the Wassa concession, bringing the 2011 drilling program to 286 holes totaling 44,860 m.

The Wassa exploration program for 2012 is focused on delineating the extent of the high-grade zones of mineralization that were intersected below the current pit designs during the 2011 program. The Company expects to complete an updated resource estimate in the third quarter of 2012.

The drilling results received during the last half of 2011 are very encouraging and should have a positive effect on the updated resource estimate, which is expected to convert into deeper pit optimization. Three zones at Wassa are returning results that may increase the size of the pits due to their relative proximity. The resulting optimized economic pit shells will likely result in a significantly larger coalesced pit. The South East and B Shoot pits are north trending parallel zones located in the steeply dipping eastern flank of the large Wassa fold structure. These two main zones of mineralization are separated by approximately 300 m and currently are two individual pit designs. Recent drilling below both of these pits has returned significant results such as hole SEDD039 on drill section 19825 N (see website for image), which intersected three zones, the deepest at a drilled depth of 229 m to 273 m with an estimated true width of 36 m grading 5.4 g/t gold; and B Shoot hole BSDD090 drilled 50 m to the North on section 19875 N intersected significant gold mineralization at a drilled depth of 368 m and an approximate true width of 21.2 m grading 15.8 g/t of gold. This intersection includes a 1.5 m sample where abundant visible gold was observed and returned an assay of just over four ounces per tonne (128 g/t). The third zone, known as '242 zone' which is contained within the shallower dipping limb on the western flank of the large Wassa fold structure, has also recently returned some significant drill results at depth, which include hole 242DD029, which intersected an approximate 16 m true width zone from 176 m and grades 6.6 g/t gold. (See drill section 8750 WE at [www.gsr.com](http://www.gsr.com).) Further significant intersections are tabulated below.

Wassa Main Significant results for the second half of 2011 - down dip  
drilling

Hole ID	Easting (m)	Northing (m)	Elevation (m)	Azimuth (°)	Dip (°)	From (m)	To (m)	Drilled Width (m)	~ True Width (m)	Gold Grade g/t
SEDD043	40107	19900	1008	90	-50	223.5	250.6	27.1	22.5	3.1
SEDD042	40109	19950	1009	90	-50	124.0	139.5	15.5	12.9	2.8
SEDD041	40088	19800	1008	90	-49	191.0	242.0	51.0	42.8	1.7
SEDD039	40077	19825	1008	90	-50	200.0	221.6	21.6	17.9	2.5
SEDD039	40077	19825	1008	90	-50	229.5	273.3	43.8	36.3	5.4
SEDD038	40136	19850	1007	90	-53	158.5	196.7	41.2	32.9	1.6
SEDD037	40156	19825	1007	90	-54	115.0	138.0	23.0	18.1	3.2
SEDD035	40064	19874	1010	90	-59	215.5	229.2	13.7	10.0	4.8
SEDD035	40064	19874	1010	90	-59	307.6	336.2	28.6	20.9	1.9
SEDD034	40062	19922	1013	90	-49	190.9	234.0	43.1	36.1	3.9
SEDD026	40123	19777	1013	90	-55	169.0	225.0	56.0	43.5	2.2
BSDD087	39922	19776	1015	90	-50	85.5	104.5	19.0	15.6	3.0
BSDD089	39802	20125	1004	90	-50	260.8	280.0	19.2	15.7	2.3
BSDD090	39809	19875	1030	90	-58	368.3	397.3	29.0	21.2	15.8
BSDD095A	39943	20075	983	90	-51	183.6	197.5	13.9	11.2	6.2
BSDD104	39881	19725	1024	90	-53	198.1	214.1	16.0	12.8	6.9
BSDD107	39917	19875	1018	90	-50	83.5	90.3	6.8	5.6	11.9
BSDD107	39917	19875	1018	90	-50	207.2	213.5	6.3	5.2	9.5
242DD028	39616	20007	1045	325	-75	187.8	210.7	22.9	17.5	3.9
242DD029	39624	20036	1042	325	-75	176.3	197.2	20.9	16.0	6.6
242DD030	39579	20015	1050	325	-71	176.5	201.4	24.9	20.1	1.8

In addition to the deeper drilling at Wassa, the Company has been testing the strike extent of the main ore trends to the south and has been successful in extending the mineralized trend over a distance of approximately one kilometer. These mineralized zones are continuous and characterized by broader zones of lower grade material (

Wassa Main Significant results for the second half of 2011 - South Extension drilling

Hole ID	Easting (m)	Northing (m)	Elevation (m)	Azimuth (°)	Dip (°)	From (m)	To (m)	Drilled Width (m)	~ True Width (m)	Gold Grade g/t
NSARC179	40329	19025	1009	90	-50	54.0	69.0	15.0	11.5	1.4
NSARC182	39969	19275	1034	90	-50	19.0	30.0	11.0	8.4	1.9
NSARC189	40382	19425	999	90	-50	1.0	43.0	42.0	32.2	1.1
NSARC200	40345	19425	993	90	-50	42.0	71.0	29.0	22.2	1.1
NSARC207	40330	19600	998	90	-50	5.0	24.0	19.0	14.6	2.3
NSARC211	39981	18675	1025	270	-50	64.0	84.0	20.0	15.3	1.0
NSARC227	39991	18375	1011	270	-50	81.0	94.0	13.0	10.0	1.6
NSARC239	40316	18825	1002	90	-57	30.0	54.0	24.0	16.4	1.9
NSARC256	39994	18358	1011	270	-65	53.0	64.0	11.0	6.3	1.9

Mitchel Wasel, Vice President of Exploration, commented, 'We have been drilling the Wassa extensions for over a year now and our efforts are beginning to pay off with promising results at depth and along strike. If our interpretation of the B shoot and 242 zones linking at depth around the F3 fold closure are realized, there is great potential to significantly change the dynamics of the Wassa deposit. Our drilling efforts for 2012 will focus on the Wassa main deposit testing this interpretation.'

## COMPANY PROFILE

Golden Star Resources holds the largest land package in one of the world's largest and most prolific gold producing regions. The Company holds a 90% equity interest in Golden Star (Bogoso/Prestea) Limited and Golden Star (Wassa) Limited, which respectively own the Bogoso/Prestea and Wassa/HBB open-pit gold mines in Ghana, West Africa. In addition, Golden Star has an 81% interest in the currently inactive Prestea Underground mine in Ghana, as well as gold exploration interests elsewhere in Ghana, in other parts of West Africa and in Brazil in South America. Golden Star has approximately 259 million shares outstanding. Additional information is available at [www.gsr.com](http://www.gsr.com).

**Statements Regarding Forward-Looking Information:** Some statements contained in this news release are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 and other applicable securities laws. Such statements include: our expectations regarding our planned drilling and exploration activities for the remainder of 2012 and the timing thereof; the impact of our results of exploration on our reserves and resources for 2012 and on the Wassa pit; and the timing of updates of our resource models. Investors are cautioned that forward-looking statements are inherently uncertain and involve risks and uncertainties. Factors that could cause actual results to differ materially include timing of and unexpected events during exploration; variations in ore grade; variations in relative amounts of refractory, non-refractory and transition ores; technical or permitting issues, and fluctuations in gold price and costs. There can be no assurance that future developments affecting the Company will be those anticipated by management. Please refer to the discussion of these and other factors in our Form 10-K for 2010 and subsequent Forms 10-Q for 2011 and other filings of the Company with the United States Securities and Exchange Commission and the applicable Canadian securities regulatory authorities. The forecasts contained in this press release constitute management's current estimates, as of the date of this press release, with respect to the matters covered thereby. We expect that these estimates will change as new information is received. While we may elect to update these estimates at any time, we do not undertake to update any estimate at any particular time or in response to any particular event.

## QA/QC:

The technical contents of this press release have been reviewed by S. Mitchel Wasel, BSc Geology, a Qualified Person pursuant to National Instrument 43-101. Mr. Wasel is Vice President of Exploration for Golden Star and an active member and Registered Chartered Professional of the Australasian Institute of Mining and Metallurgy.

The results for Wassa quoted herein are based on the analysis of saw-split HQ/NQ diamond half core or a three kilogram single stage riffle split of a nominal 25 to 30 kg Reverse Circulation chip sample which has been sampled over nominal one meter intervals (adjusted where necessary for mineralized structures). Sample preparation and analyses have been carried out at SGS Laboratories in Tarkwa using a 1,000 gram slurry of sample and tap water which is prepared and subjected to an accelerated cyanide leach (LEACHWELL). The sample is then rolled for twelve hours before being allowed to settle. An aliquot of solution is then taken, gold extracted into Di-iso Butyl Ketone (DiBK), and determined by flame Atomic Absorption Spectrophotometry (AAS). Detection Limit is 0.01ppm.

All analytical work is subject to a systematic and rigorous Quality Assurance-Quality Control (QA-QC). At least 5% of samples are certified standards and the accuracy of the analysis is confirmed to be acceptable from comparison of the recommended and actual 'standards' results. The remaining half core is stored on site for future inspection and detailed logging, to provide valuable information on mineralogy, structure, alteration patterns and the controls on gold mineralization.

For additional information regarding our mineral reserves and mineral resources as at December 31, 2010, please see our news release dated February 23, 2011.

For further information, please contact:

**GOLDEN STAR RESOURCES LTD.**

Bruce Higson-Smith

Senior Vice President Finance and Corporate Development

1-800-553-8436

**INVESTOR RELATIONS**

Jay Pfeiffer

Pfeiffer High Investor Relations, Inc.

303-393-7044

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