

**PROJECT WELL REPORT ON THE 20 NEW DUGWELLS CONSTRUCTED IN 2008: GAIGHATA**

**Project Well**, PW, (California, USA, 2001) with the help of local NGO, **Aqua Welfare Society** (near Kolkata, West Bengal) has developed a self-supporting community-based mitigation program to provide arsenic-safe water to the villagers of the districts of North 24 Parganas of West Bengal, India.

In 2008, the Blue Planet Run/Peer Water Exchange has funded 10 dugwells in collaboration with Rotary Clubs (see below for the respective sponsors) and two dugwells were funded by Mosaique and Eco-band Valoris of Quebec, Canada, one by Rustam Stolkin, Jennifer and Philip Milner of London, UK, one by Dr. David Kalman and Cecil Hudson, Seattle, WA, and six by Project Well. The pictures of all the dugwells constructed in the month of January and June of 2008 are displayed below.



Dugwell ID	PW73SU13
Land donated by	Promod Biswas
Village	Nagbari
Panchayat	Sutia / Gaighata
District	N 24 Parganas
Location :Latitude	22.9174 N
Location :Longitude	88.80821 E
Constructed	January 2008
Arsenic level	11 PPB
Date of Report	30 <sup>th</sup> June 2008
Bacteria:TC / FC	20 / 0
Date of Report	1/12/2009
Physical qty of water	Clear water, no odor, normal
Beneficiary families	5 / 0 (require more awareness mtgs)
Beneficiary members	19 / 0
Remarks	BF: As of Sept / Dec 2008
Sponsored by	Blue Planet Run & Rotary Club of Glen Ridge (1)



Dugwell ID	PW74/GDP1
Land donated by	Bhola Biswas
Village	Gawdhadhawrpur
Panchayat / Block	Gawdhadhawrpur / Gaighata
District	N 24 Parganas
Location :Latitude	22.97164 N
Location :Longitude	88.83464 E
Constructed	January 2008
Arsenic level	8 PPB
Date of Report	30 <sup>th</sup> June 2008
Bacteria:TC/FC	0 / 0
Date of Report	1/12/2009
Physical qty of water	Clear water, no odor, normal
Beneficiary families	11
Beneficiary members	46
Remarks	BF: As of December 2008
Sponsored by	Blue Planet Run & Rotary Club of Glen Ridge (2)



PW75/GDP2

Dugwell ID	PW75/GDP2
Land donated by	Sukumar Kawpot
Village	Gawdhadhawrpur
Panchayat	Gawdhadhawrpur / Gaighata
District	N 24 Parganas
Location :Latitude	22.96833 N
Location :Longitude	88.83378 E
Constructed	January 2008
Arsenic level	12 PPB
Date of Report	30 <sup>th</sup> June 2008
Bacteria:TC / FC	9 / 3
Date of Report	1/12/2009
Physical qty of water	Clear water, no odor, normal
Beneficiary families	1 (require more awareness mtgs)
Beneficiary members	9
Remarks	As of December 2008
Sponsored by	Blue Planet Run & Rotary Club of Glen Ridge (3)



PW76/GDP3

Dugwell ID	PW76/GDP3
Land donated by	Debashis Sinha
Village	Gawdhadhawrpur
Panchayat	Gawdhadhawrpur / Gaighata
District	N 24 Parganas
Location :Latitude	22.97313 N
Location :Longitude	88.83278 E
Constructed	January 2008
Arsenic level	11 PPB
Date of Report	30 <sup>th</sup> June 2008
Bacteria:TC/FC	155 / 0
Date of Report	1/12/2009
Physical qty of water	Clear water, no odor, normal
Beneficiary families	16
Beneficiary members	66
Remarks	As of December 2008
Sponsored by	Blue Planet Run & Rotary Club of Glen Ridge (4)



PW77/GDP4

Dugwell ID	PW77/GDP4
Land donated by	Nadia Chandra Biswas
Village	Gawdhadhawrpur
Panchayat	Gawdhadhawrpur / Gaighata
District	N 24 Parganas
Location :Latitude	22.97284 N
Location :Longitude	88.82425 E
Constructed	January 2008
Arsenic level	17 PPB
Date of Report	30 <sup>th</sup> June 2008
Bacteria:TC/FC	0 / 0
Date of Report	1/12/2009
Physical qty of water	Clear water, no odor, normal
Beneficiary families	0 (require more awareness mtgs)
Beneficiary members	0
Remarks	As of December 2008, need AP
Sponsored by	Blue Planet Run & Rotary Club of Glen Ridge (5)



Dugwell ID	PW78/SU14
Land donated by	Samir Biswas
Village	East Bisnupur
Panchayat	Sutia / Gaighata
District	N 24 Parganas
Location :Latitude	22.91492 N
Location :Longitude	88.79496 E
Constructed	January 2008
Arsenic level	19 PPB
Date of Report	30 <sup>th</sup> June 2008
Bacteria:TC/FC	0 / 0
Date of Report	1/12/2009
Physical qty of water	Clear water, no odor, normal
Beneficiary families	6
Beneficiary members	23
Remarks	As of December 2008
Sponsored by	Blue Planet Run & Rotary Club of Bloomfield (6)



Dugwell ID	PW79/SU15
Land donated by	Madhusudan Ray
Village	East Bisnupur
Panchayat	Sutia / Gaighata
District	N 24 Parganas
Location :Latitude	22.91672 N
Location :Longitude	88.79785 E
Constructed	January 2008
Arsenic level	11 PPB
Date of Report	30 <sup>th</sup> June 2008
Bacteria:TC/FC	0 / 0
Date of Report	1/12/2009
Physical qty of water	Clear water, no odor, normal
Beneficiary families	6 (require more awareness mtgs)
Beneficiary members	26 prospective users
Remarks	As of December 2008
Sponsored by	Blue Planet Run & Rotary Club of Bloomfield (7)



Dugwell ID	PW80/GDP4
Land donated by	Uttam Biswas
Village	Duma
Panchayat/Block	Duma / Gaighata
District	N 24 Parganas
Location :Latitude	22.96773 E
Location :Longitude	88.83214 N
Constructed	January 2008
Arsenic level	8 PPB
Date of Report	30 <sup>th</sup> June 2008
Bacteria:TC/FC	8 / 0
Date of Report	1/12/2009
Physical qty of water	Clear water, no odor, normal
Beneficiary families	0 (require more awareness mtgs)
Beneficiary members	0
Remarks	As of December 2008
Sponsored by	Blue Planet Run & Rotary Club of Bloomfield (8)



Dugwell ID	PW81/SU16
Land donated by	Bashudeb Pramanik
Village	Bishnupur/Khaldhar
Panchayat	Sutia / Gaighata
District	N 24 Parganas
Location :Latitude	22.90823 E
Location :Longitude	88.78076 N
Constructed	January 2008
Arsenic level	22 PPB
Date of Report	30 <sup>th</sup> June 2008
Bacteria:TC/FC	290 / 54
Date of Report	1/12/2009
Physical qty of water	Clear water, no odor, normal
Beneficiary families	8 (require more awareness mtgs)
Beneficiary members	36
Remarks	As of December 2008
Sponsored by	Blue Planet Run & Rotary Club of Bloomfield (9)



Dugwell ID	PW82/SU17
Land donated by	Lankeshwar Munda
Village	Bishnupur
Panchayat	Sutia / Gaighata
District	N 24 Parganas
Location :Latitude	22.90516 E
Location :Longitude	88.78405 N
Constructed	January 2008
Arsenic level	7 PPB
Date of Report	30 <sup>th</sup> June 2008
Bacteria:TC/FC	0 / 0
Date of Report	1/12/2009
Physical qty of water	Clear water, no odor, normal
Beneficiary families	6 (require more awareness mtgs)
Beneficiary members	22
Remarks	As of December 2008
Sponsored by	Blue Planet Run (10)



Dugwell ID	PW83/DUM2
Land donated by	Prdip Chaulis
Village	Besati
Panchayat/Block	Duma / Gaighata
District	N 24 Parganas
Location :Latitude	22.99025 E
Location :Longitude	88.83090 N
Constructed	August 2008
Arsenic level	11 PPB
Date of Report	21 <sup>st</sup> November 2008
Bacteria:TC/FC	0 / 0
Date of Report	1/12/2009
Physical qty of water	Clear water, no odor, normal
Beneficiary families	4 (require more awareness mtgs)
Beneficiary members	13
Remarks	As of December 2008
Sponsored by	Project Well

PROJECT WELL\_

Village report on construction of NEW dugwells in 2008



Dugwell ID	PW84/DUM3
Land donated by	Hazari Sarkar
Village	Besati
Panchayat	Duma / Gaighata
District	N 24 Parganas
Location :Latitude	22.99338 E
Location :Longitude	88.83038 N
Constructed	August 2008
Arsenic level	34 PPB
Date of Report	21 <sup>st</sup> November 2008
Bacteria:TC/FC	17 / 13
Date of Report	1/12/2009
Physical qty of water	Clear water, no odor, normal
Beneficiary families	4 (require more awareness mtgs)
Beneficiary members	15
Remarks	As of December 2008
Sponsored by	Project Well



Dugwell ID	PW85/JDN4
Land donated by	Amar Mondol
Village	Golam Bathan
Panchayat	Jhowdanga / Gaighata
District	N 24 Parganas
Location :Latitude	22.95720 N
Location :Longitude	88.83065 E
Constructed	2008
Arsenic level	26 PPB
Date of Report	21 <sup>st</sup> November 2008
Bacteria:TC/FC	49 / 5
Date of Report	1/12/2009
Physical qty of water	Turbid (slight) organic odor (med)
Beneficiary families	3 (require more awareness mtgs)
Beneficiary members	13
Remarks	As of December 2008
Sponsored by	Project Well



Dugwell ID	PW86/RMN4
Land donated by	Nimai Mondol
Village	Piply
Panchayat/Block	Ramnagar / Gaighata
District	N 24 Parganas
Location :Latitude	22.94683 E
Location :Longitude	88.88867 N
Constructed	August 2008
Arsenic level	20 PPB
Date of Report	21 <sup>st</sup> November 2008
Bacteria:TC/FC	0 / 0
Date of Report	1/12/2009
Physical qty of water	Organic odor (light), normal taste
Beneficiary families	9 (require more awareness mtgs)
Beneficiary members	33
Remarks	As of December 2008
Sponsored by	Project Well Pvt.



Dugwell ID	PW87/RMN5
Land donated by	Subash Biswas
Village	Gordjila
Panchayat	Ramnagar / Gaighata
District	N 24 Parganas
Location :Latitude	22.92303 E
Location :Longitude	88.89751 N
Constructed	August 2008
Arsenic level	14 PPB
Date of Report	21 <sup>st</sup> November 2008
Bacteria:TC/FC	0 / 0
Date of Report	1/12/2009
Physical qty of water	Turbidity (m), organic odor (m)
Beneficiary families	4 (require more awareness mtgs)
Beneficiary members	15
Remarks	BF: As of December 2008
Sponsored by	Project Well



Dugwell ID	PW88/JDN1
Land donated by	Kanai Ray
Village	Gordjilla
Panchayat	Ramnagar / Gaighata
District	N 24 Parganas
Location :Latitude	22.92207 E
Location :Longitude	88.90213 N
Constructed	August 2008
Arsenic level	7 PPB
Date of Report	21 <sup>st</sup> December 2008
Bacteria:TC/FC	0 / 0
Date of Report	1/12/2009
Physical qty of water	Clear water, organic odor (low)
Beneficiary families	10
Beneficiary members	42
Remarks	BF: As of December 2008
Sponsored by	Rustam Stolkin, Jennifer and Philip Milner, London, UK



Dugwell ID	PW89/RMN7
Land donated by	Gulam Mondol
Village	Gordjilla
Panchayat/Block	Ramnagar / Gaighata
District	N 24 Parganas
Location :Latitude	22.92131 E
Location :Longitude	88.90008 N
Constructed	August 2008
Arsenic level	33 PPB
Date of Report	21 <sup>st</sup> November 2008
Bacteria:TC/FC	0 / 0
Date of Report	1/12/2009
Physical qty of water	Clear water, organic odor (low)
Beneficiary families	0 (require more awareness mtgs)
Beneficiary members	0
Remarks	BF: As of December 2008
Sponsored by	Project Well



Dugwell ID	PW90SML3
Land donated by	Amulya Mondol
Village	Mohishakati
Panchayat/Block	Simulpur / Gaighata
District	N 24 Parganas
Location :Latitude	22.92556 E
Location :Longitude	88.92195 N
Constructed	August 2008
Arsenic level	30 PPB
Date of Report	21 <sup>st</sup> November 2008
Bacteria:TC/FC	92 / 38
Date of Report	1/12/2009
Physical qty of water	Clear, organic odor is high
Beneficiary families	0 (require more awareness mtgs)
Beneficiary members	0
Remarks	BF: As of December 2008
Sponsored by	Group Mosaique, Sagney, Canada



Dugwell ID	PW91/SU18
Land donated by	Uttam Das
Village	Bishnupur
Panchayat/Block	Sutia / Gaighata
District	N 24 Parganas
Location :Latitude	22.90207 E
Location :Longitude	88.79161 N
Constructed	August 2008
Arsenic level	10 PPB
Date of Report	21 <sup>st</sup> November 2008
Bacteria:TC/FC	0 / 0
Date of Report	1/12/2009
Physical qty of water	Clear, organic odor is slight
Beneficiary families	16
Beneficiary members	76
Remarks	BF: As of December 2008
Sponsored by	David Kalman and Cecil Hudson, Seattle, WA



Dugwell ID	PW92/SU19
Land donated by	Jayanti Biswas
Village	Bishnupur
Panchayat/Block	Sutia / Gaighata
District	N 24 Parganas
Location :Latitude	22.90207 E
Location :Longitude	88.79161 N
Constructed	August 2008
Arsenic level	20 PPB
Date of Report	21 <sup>st</sup> November 2008
Bacteria:TC/FC	0 / 0
Date of Report	1/12/2009
Physical qty of water	Clear, organic odor is slight
Beneficiary families	2 (require more awareness mtgs)
Beneficiary members	9
Remarks	BF: As of December 2008
Sponsored by	Group Mosaique, Sagney, Canada

In 2008 one pilot dugwell (PW74) was constructed in February to increase the depth of dugwells in the areas where due to sand boiling at the depth of 12 to 14 feet the very shallow dugwells become dry in summer. The new design, dug-cum-tube well, is 21 feet and water was available throughout summer. By April ten dugwells were completed and two members from the Rotary club of New Jersey (joint fund provider with Blue Planet Run Foundation) had visited the villages to see a few dugwells.

Construction of ten more dugwells was completed by August 2008. The delay was due to the following reasons:

- a) Gram Panchayat election in the month of May when village meetings could not be held,
- b) non availability of sand for some time,
- c) non availability of diggers and masons due to the harvesting season and
- d) cancellation and re-allotment of few sites after some close by tubewell water showed arsenic concentration as below 50 PPB.

And during the monsoon season and after water of some of the dugwells are turbid hence the number of users is still low. Health meetings at the new and old communities have been increased and the target to complete 64 health meetings by February 2009.

Please contact [mmhsmith@berkeley.edu](mailto:mmhsmith@berkeley.edu) if there are any questions or comments. For more information and published articles visit <<http://www.projectwellusa.org>>.

Visitors in Gaighata: 13<sup>th</sup> December 2008



Members and staff of Aqua Welfare Society in discussion 13<sup>th</sup> December 2008

