Report on the Improvement of Watersupply and Sanitation at OS Helena Christina I+II and OS Latour I+II, Suriname

PAHO/WHO
Paramaribo May 2001
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1. Introduction

The 1999 Inter-American Water Day (IAWD) committee recommended in its report on the 7th celebration of IAWD, 4 November 1999, that the committee should “facilitate and coordinate improvements of water and sanitary facilities at selected schools during the year 2000 and celebrate the 8th IAWD at one of these schools”.

The objectives of the IAWD are to promote in the Americas, a better use and protection of water resources and water related issues as personal health and hygiene, through research and implementation of new technologies, public awareness, health education and community mobilization, with an emphasis on the youth and school children.

Schools are excellent entry points for public awareness and personal hygiene programs as schools offer established finite evaluable settings, with a captive audience and infrastructure and systems which can be adapted to accommodate programs for the maintenance of health and healthy lifestyles. Also, schools often function as community centers accommodating Parents Teachers Associations, play and cultural groups, women organizations and other community groups. Students themselves are members of communities and will influence parents, family and friends.

Furthermore, schools must offer an environment conducive to its teachings, including healthy lifestyles and personal hygiene. Accessibility to adequate and safe water supply and sanitary facilities at the school are essential and will:
   a. enhance working condition and learning environment;
   b. reduce costs for operation and repair;
   c. enhance sense of well being;
   d. decrease incidence of water and excreta related diseases and associated absenteeism and
e. create greater job satisfaction.

Schools also have a high level of attention and goodwill from the community and the private sector at large. Improved conditions for the development of the youth and the future of communities are close to many people’s heart.

This report will describe in detail the methodology, activities, technologies, educational and financial aspects of the renovations of the watersupply and sanitary facilities and the drainage at two schools: OS Helena Christina I+II, in Helena Christina, and OS Latour I+II in Paramaribo.

2. Methodology

In January 2000 the 8th IAWD committee was established and started with the preparation for the school project. A list of members of this committee is included in Annex 1. It was decided to:
- launch the project during World Water Forum organised as part of the celebration of World Water Day, 22 March 2000, and
- to celebrate the opening of at least one school on IAWD on the 1st Saturday in November 2000.

After a survey of 10 schools, two were selected for inclusion in the project. With technical support from the SWM, a team prepared a project document with cost estimates and submitted this to the wider private sector with requests for collaboration and donations. These estimates included costs for:
   a. technical aspects of the renovation
   b. community participation
c. basic hygiene education curriculum of schools teachers

Meetings were held with the Parents and Teachers groups of the schools to inform the teachers and the parents on the project and to solicit cooperation and participation in the renovation work. During the school holidays, the Technical Department of the Ministry of Education started with the renovations, which were supervised by PAHO with support from Mr. Hein IJvel of PROSUR and representing Rotary Paramaribo Central.

During the renovations, PAHO organized and conducted workshops for the teachers in health issues related to water and on personal hygiene. This training was executed in collaboration with BOG/GVO and the School Nurses of the RGD. The main emphasis of these workshops was to strengthen the teacher’s skills and attitudes to water supply, sanitation and health related issues. Teachers were expected to develop class activities with the school children, which could be performed and displayed during the opening celebration on Inter American Water Day and World Water Day.

3. School Selection

Mrs. Bunwaree of the BOG/GVO made a pre-selection of 10 schools based on her knowledge of the situation of watersupply and sanitation at these schools. A team consisting of representatives of the SWM, BOG, Public Works and PAHO visited these 10 schools on March 1, 2 and 3, 2000 to make a detailed assessment on coverage and functionality of watersupply, sanitary facilities and drainage.

The school survey reports are included in Annex 2. The team looked at three main criteria:
   a. Physical state of facilities;
   b. the level of anticipated community mobilization and participation and
   c. absence of outside support.

Each of these criteria was marked on a scale from 1 to 5, the highest mark on physical state relates to a very poor condition, the highest mark on social mobilization is indicative of high anticipated social mobilization and a high mark on the third criteria indicates absence of outside support.

The school survey indicates the highest scores for the public schools OS Helena Christina and OS Latour (Annex 2), which means that these schools were in the greatest need for improvements, without external support and while an active participation from the headmaster, teachers, parents and the community could be expected.

4. The Renovation

The renovations started in August 2000 at the Public School Helena Christina with the removal of broken and the installation of new toilets, cisterns and urinals by the Maintenance Department of the Ministry of Education. For the completion of the renovations at both schools the services of VIJO Construction Company were contracted. Ir. Hein IJvel of PROSUR and representing Rotary Paramaribo Central provided valuable advise and supervised the renovations at OS Helena Christina. The pre and post intervention situation at the selected schools and the implemented renovations are described in the table 1 and displayed in pictures 1-20.
### Table 1: Pre and Post Intervention Situation, OS Helena Christina and OS Latour

<table>
<thead>
<tr>
<th></th>
<th>Pre-project Situation</th>
<th>Project Activities and Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water-supply</strong></td>
<td>Limited accessibility to drinking and wash taps in bathrooms and schoolyard, as many taps were dysfunctional missing the spindle or were disconnected from the water main. Many functional taps were leaking, resulting in excessive water losses as well as pool formation. Also inspection revealed several leaks in the water main around the school buildings.</td>
<td>Old taps were replaced and accessibility to drinking points at schoolyard increased. At Helena Christina new drinking facilities were constructed at the schoolyard with three self-closing lift-drop taps and improved drainage (Drawing 1). At OS Latour the existing four drinking taps at the school yard were replaced, the drain box cleaned and repaired and a concrete shoulder installed (Pictures 19, 20). The SWM provided very valuable assistance in repair of the water mains to and on the premises of both schools.</td>
</tr>
<tr>
<td><strong>Wash basins</strong></td>
<td>Limited coverage of hand washing facilities as several washbasins were cracked and the drainpipe dislocated. This last aspect contributed to excessive spillage and puddle formation.</td>
<td>Large, durable trough wash basins replaced the fragile ceramic basins. The trough basins were ordered and manufactured to specified size by the local company BEM. These troughs were made of the very durable material “Granito”. All facilities were provided with self-closing push tabs to minimize wastage of water. The larger sizes accommodate 3 and the smaller 2 taps (Pictures 10, 18). Please note that the walls near the wash troughs have been tiled to facilitate cleaning.</td>
</tr>
<tr>
<td><strong>Toilets</strong></td>
<td>All toilets are of the water flush principle, however few cisterns were operational. Flushing with bucket was necessary. Most toilets were filthy, used but not flushed, with dirty and wet floors. Some toilets seats were broken, cracked and out of operation.</td>
<td>Toilet bowls, flush cisterns and doors were placed where needed. The toilet doors allow a 10 cm (4”) gap at the floor (Picture 15) to avoid rotting of door at the bottom. The new bathroom units were finished with new light fixtures and a fresh coat of paint. At both schools the parents volunteered to make and install the burglar bars.</td>
</tr>
<tr>
<td><strong>Urinals</strong></td>
<td>Most urinals were of the bowl type and one trench. All urinals were smelly and dirty with a poor flush system resulting in the typical ammonia stench. The walls of trench urinals were painted black as to hide the discoloration. Cleaning of such walls was poor.</td>
<td>Improved wall trough urinals have been built (Drawing 2) with a spray-rinse system operated by a self-closing push tap. The walls have been tiled to improve cleaning and esthetics. An allowance was provided for the feet to prevent dripping on shoes. An inclined splash surface reduces splashing against legs and pants (Pictures 7, 16).</td>
</tr>
<tr>
<td><strong>Septic tanks</strong></td>
<td>At both schools the bathrooms were connected to septic tanks located between the perimeter of the school compound and the physical building. At Helena Christina several toilets were connected to a collection pit before the septic tank. This wrong practice resulted in blockage at the connection pit and subsequence stench. At OS Latour many of the discharge pipes from bathrooms to the septic tanks were cracked, resulting in exposed excreta flowing behind the school and stench.</td>
<td>At Helena Christina the wastewater collection pits were removed and new sewer lines installed to allow for direct discharge into the septic tank. At OS Latour the cracked wastewater pipes were replaced.</td>
</tr>
<tr>
<td><strong>Storm drains</strong></td>
<td>The drainage system at both schools was very poor, with blocked and cracked drains and collection pits, resulting in insufficient run off of wastewater, spilled water as well as storm water. Many stagnant pools provide ample breeding sites for especially the <em>Aedes aegypti</em> mosquito, the vector for Dengue Fever.</td>
<td>All storm drains collection pits at both schools were cleaned out and where necessary repaired and sealed to prevent mosquito breeding and collection of waste.</td>
</tr>
</tbody>
</table>
Garbage storage and collection was a problem at both schools. The perimeters of the school compounds were virtual dumpsites. Collection service was generally not provided. Garbage bins were donated and PET recycling bins placed. The Environmental Association in collaboration with the Boy Scouts of Latour carried out a large clean-up campaign before the official opening of the facilities and a total 8 Ten-ton truckloads of accumulated waste were removed for the school premises of OS Latour. An agreement has been reached with the Ministry of Public Works to include the schools in their collection service.

Table 2 below shows the coverage of operational facilities before and after the renovations. Significant improvement was achieved with the increased coverage of operational WC’s, urinals and drinking water for all students at both schools.

<table>
<thead>
<tr>
<th>Coverage of Operational Facilities</th>
<th>OS Helena Christina</th>
<th>OS Latour</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Before</td>
<td>After</td>
</tr>
<tr>
<td>Girls/WC</td>
<td>200</td>
<td>33</td>
</tr>
<tr>
<td>Boys/WC</td>
<td>400</td>
<td>67</td>
</tr>
<tr>
<td>Boys/Urinal</td>
<td>200</td>
<td>29</td>
</tr>
<tr>
<td>Students/Drinking Point</td>
<td>160</td>
<td>62</td>
</tr>
</tbody>
</table>

A common guideline for accessibility of operational toilets, urinals and drinking water points for students at schools is:

- WC’S 25 girls/WC and 50 boys/WC
- Urinals 50 boys/urinal
- Water points 50 students/water point

According to these guidelines the coverage of WC’s remains too low, while the coverage of drinking points is close to the above guideline. The construction of wall urinals has significantly increased the accessibility to above the guideline. It should be emphasized that this project involved only the restoration of the existing facilities to appropriate conditions and not the construction of new bathroom buildings.

At each school four bathroom units with a total of 32 toilets have been renovated. The initial plans for the improvement to the WC’s included repair and where necessary replacement of the metal flush cisterns of the brand “Niagara”. These cisterns are very robust and are installed in many schools in Paramaribo. However, such cisterns are not imported anymore into Suriname and the project team had to select plastic but less durable models. Where necessary the doors to the toilets were replaced. Many doors displayed severe rotting at the bottom, as most floors were wet from leaking flush cisterns. All doors were shortened by 10 cm at the bottom to allow a “dry gap”.

The project included the installation of self-closing taps to reduce water use, spillage and pool forming. SWM donated 12 lift-drop taps, which were installed in the schoolyards. These relative heavy taps allow water to flow once lifted. The water flow will stop when the lifting force ceases and the tap drops and closes under its own weight. However, school children and the janitor quickly discovered that these large taps could easily be turned out of vertical and internal friction would prevent the tap from dropping and thus the water would continue to flow. A security bracket was subsequently designed and installed (Picture 14). Table 3 indicates the number of facilities renovated or installed.
Table 3: Number of Facilities Renovated

<table>
<thead>
<tr>
<th>Facilities</th>
<th>Helena Christina</th>
<th>OS Latour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bath room units renovated</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>New toilet doors installed</td>
<td>14</td>
<td>11</td>
</tr>
<tr>
<td>New flush toilet bowls installed</td>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td>New flush toilet cisterns installed</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>New wall urinals constructed</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>New “Granito” trough basins installed</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>New self closing taps installed</td>
<td>17</td>
<td>15</td>
</tr>
<tr>
<td>New spindle taps for janitors</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Wash basins installed in classroom of preschool</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>New schoolyard standpipes installed</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Wastewater drain pits restored</td>
<td>8</td>
<td>6</td>
</tr>
</tbody>
</table>

DWV donated 12 push taps operating on an internals spring. Once pushed in the tap would allow water to flow for a short period. The remaining six push taps for hand washing were purchase locally. The push taps for the flushing of the wall urinals had to be purchased overseas as this type of tap was not available in Suriname.

However, the janitors complained that it has become tiresome to fill a bucket with water, as one has to continuously push a knob or lift a heavy device until the bucket is full. With the generally low water pressure this became an arduous task. For this reason two spindle taps were installed at OS Latour to facilitate the janitors (Picture 13).

As part of the wider Environmental Health Awareness, the project team also included garbage aspects in the project. The schools were encouraged to participate in the PET recycling and school competition project (Picture 25). Garbage bins and PET recycling bins were donated and placed to further reduce breeding sites of the *Aedes Aegypti* mosquito.

The materials used for the renovations were partly donated and partly purchased. Chapter 7 discusses the budget and provides more details on the in kind and financial donations and donors.

5. Training and Education

The new school year in Suriname starts in the first week of October and PAHO organized and conducted training workshops for all teachers on personal hygiene and water born diseases. The workshops were organized and conducted by Johanna Lakhisaran in collaboration with School Nurses of the Regional Medical Mission (RGD), the Health Promotion and Education Department of the Bureau of Public Health (BOG), and Basic Life Skills of the Ministry of Education. A more detailed report on these training workshops and the program is included in Annex 3. These workshops were supported with funds from UNICEF.

All teachers and maintenance personnel of both schools, in total 54 persons, have participated in these workshops. Special emphasis was placed on attitudinal change and good practices with regards to the better use of toilet, washing and drinking facilities in order to improve cleanliness and hygiene and to reduce water use, excessive wear and tear and vandalism. All teachers were encouraged to visit the bathrooms with the students. Although there was some initial reluctance, most teachers complied and are now convinced that their visits to the bathrooms will also influence students to keep these facilities in a proper state and increase the use of the bathrooms. Some teachers now consistently use the students’ facilities with an improved cleanliness as a result.
Every participant of the workshop received a Dutch edition of the guidebook “Boys and Girls in Action”. This book provides a rich base of knowledge and motivation of the school staff for further implementation of the healthy school initiative. The workshop participants were also encouraged to form a School Health Commission. At both schools these committees have been established (see Annex 3) and the main tasks are to:

a. initiate and guide health related activities;

b. maintain the contact point of PAHO’s hygiene educator;

c. prepare future IAWD activities in their respective schools.

6. Handing-over at Water Day Celebrations

As announced on 22 March 2000 (World Water Day), the handing over of the first renovated school (OS Helena Christina) to the Ministry of Education took place on Inter-American Water Day. This day was celebrated in Suriname on Friday 23 November 2000. The facilities at OS Latour were handed over on 21 March 2001, during the week of activities related to World Water Day (22 March 2001). The handing over ceremonies were attended by the Ministers of Health and Education, directors and other dignitaries, representatives of donor agencies and the private sector, schools staff, parents, students and other guests.

The Minister of Education, the Honorable W. Sandriman and the Minister of Health, the Honorable R. Khudabux and the new PWR of PAHO/WHO, Dr. Carol Vlassoff give short presentations during the IAWD celebrations and handing over ceremony at OS Helena Christina.

The programs of the handing over ceremonies are included in Annex 4 and a full report on the 8th IAWD celebrations was published separately in February 2001.

At both schools the artistic performances (plays, songs, poems) and displays at the exhibition (drawings, collages and craftwork) of the students thrilled and impressed the audience. The work clearly showed their increased awareness of the importance of good personal hygiene practices and adequate water supply and sanitary facilities. The representative of the Ministry of Education unveiled a huge wall painting of the IAWD 2000 poster in the schoolyards in commemoration of the celebrations and renovation. This mural also contains the names of all donors and will remind the students and teachers of their role model in watersupply, sanitation and hygiene practices.

The renovated and improved facilities were then officially handed over to the Ministry of Education. Before the keys to the new bathroom facility were given to the representative of the Ministry of Education a Declaration of Transfer was read by the Environmental Health Advisor of PAHO and signed by the Representatives of the Ministry of Education, the PAHO and both Headmasters of the Schools. This declaration basically states that the school received the renovated watersupply and sanitary facilities in good condition. The signatories realize that the school must provide a healthy learning and working environment. The school accepts the responsibility to maintain the facilities in good order in support of health and personal hygiene practices. A copy of each declaration is added in Annex 5.
7. **Budget, Donors and Donations**

The costs of the project are summarized in table 4, page 8, and divided in three components: technical, educational and promotional. The total project cost for these three components at the two schools amounted to US$ 14,173.26. The total amount of financial donations received is: US$ 8,589.72. The in kind contributions amounted to US$ 2,326.58. PAHO’s financial contribution (not including personnel costs) amounts to US$ 3,256.97.

**The technical component** includes all cost related to the physical renovations, i.e. purchase of materials, donations of materials, transportation, contractual agreements with contractor. This totaled to US$ 11,044.56 (78 % of total costs)

**The educational component** includes all cost related to the community meetings, teachers training workshops, handouts and educational materials and booklets. These costs totaled to US$ 1,689.17 (12 % of total expenditures).

**The promotional component** includes all cost related to the celebration of Inter American Water Day and World Water Day, the official opening of the facilities at the schools and the printing of this report. These costs totaled to US$ 1,439.53 (10 %).

<table>
<thead>
<tr>
<th>Credit</th>
<th>Debit</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAHO Contribution</td>
<td>2,272.06</td>
<td>20.6%</td>
</tr>
<tr>
<td>External Financial Donations</td>
<td>7,084.55</td>
<td>64.1%</td>
</tr>
<tr>
<td>Materials Purchased</td>
<td>6,290.61</td>
<td>57.0%</td>
</tr>
<tr>
<td>Material Donations in Kind</td>
<td>1,687.95</td>
<td>15.3%</td>
</tr>
<tr>
<td>Contracts</td>
<td>3,066.00</td>
<td>27.8%</td>
</tr>
<tr>
<td><strong>Technical Component of Project</strong></td>
<td><strong>11,044.56</strong></td>
<td><strong>77.9 %</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Credit</th>
<th>Debit</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational handouts</td>
<td>1,505.17</td>
<td></td>
</tr>
<tr>
<td>Material Donations in Kind</td>
<td>184.00</td>
<td>184.00</td>
</tr>
<tr>
<td><strong>Educational Component of Project</strong></td>
<td><strong>1,689.17</strong></td>
<td><strong>11.9 %</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credit</th>
<th>Debit</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAHO Contribution</td>
<td>984.90</td>
<td></td>
</tr>
<tr>
<td>IAWD Celebrations</td>
<td>984.90</td>
<td></td>
</tr>
<tr>
<td>In kind donations for IAWD</td>
<td>454.63</td>
<td>454.63</td>
</tr>
<tr>
<td><strong>Promotional Component of Project</strong></td>
<td><strong>1,439.53</strong></td>
<td><strong>10.2 %</strong></td>
</tr>
</tbody>
</table>

**Total Cost of Project** | **14,173.26** | **14,173.26** |

Initially, the project was estimated at US$ 9,816, not including labor costs (Annex 6.1). The actual project cost without the expenditures for labor are US$ 11,107.26, which is 11.3% over the estimation.
A complete list with sponsors and their donations, cash and in kind, are included in Annex 6.2. PAHO and the organizing committee wishes to express their sincere gratitude for the generous donations and active participation of all involved in this project.

The school continues to hold “snoep pauzes” to raise funds for the maintenance of the facilities (Picture 26)

8. **Conclusions and Recommendations**

8.1 **Conclusions**

a. Although the school survey has a small sample size and the results are thus not statistically significant, it is fair to state that many schools in Suriname do not provide learning environment favorable with good health and personal hygiene.

b. There is enormous interest from the private sector to participate and support schools and students in watersupply and sanitation projects.

c. Selection of schools with an active headmaster is essential for the success of the project at the school and to mobilize the teachers, the students and the community.

d. Watersupply and sanitation renovation at schools in conjunction with personal hygiene and environmental health education are excellent entry point to reach and to mobilize wider community.

e. Although the parents participated actively, the anticipated cost savings from this participation in the project budget estimates was too optimistic and unrealistic.

f. The user attention and cleanliness of student bathroom facilities is highly improved when teachers share these facilities with the students.

g. After the renovation and the workshops, it has been observed and reported that the school children are keen to keep the facilities clean and control each other in good practices

h. As the bathroom facilities are clean, students also use the taps at the washbasin for drinking, thus reducing the user load at the standpipes in the schoolyard.

8.2 **Recommendations**

a. Continue the facilitation and coordination from PAHO to improve, with community participation and support, the watersupply and sanitation facilities at selected schools in rural and coastal areas. Highlight progress and achievements of these projects on World Water Day and Inter American Water Day.

b. Utilize the school projects as spear points to sensitize the communities in the rural areas to establish Water Committees to improve and manage watersupply and sanitation facilities in their own community.

c. Expand this initiative in coordination and cooperation with relevant partners such as the Ministry of Education, relevant NGO’s, Parents-Teachers groups and the local community.

d. Expand training and guidance of teachers from selected schools in water, hygiene and sanitation to create a good base for further implementation of the Global School Health Initiative.

e. Further develop simple materials to facilitate teachers to improve School Sanitation and Hygiene education (video films, folders etc) for inclusion in the school curriculum.
f. Incorporate Health and Hygiene Education Curricula (water, sanitation and personal hygiene) in the curriculum of the Teacher Colleges for the primary schools teachers (IOL, SPI, CPI)

g. Increase accessibility of WC’s on schools and utilize the durable “Niagara” cisterns for the planned future projects.

List of Acronyms and Abbreviations

BEM: Beton Exploitatie Maatschappy (Concrete Manufacturing Company)
BOG/GVO: Bureau van Openbare Gezondheidszorg/GezondheidsVoorlichting en Opvoeding (Bureau of Public Health/Health Promotion and Education)
DWV: Dienst Watervoorziening (Department of Water Supply)
IAWD: Inter American Water Day
MINOV: Ministerie van Onderwijs en Volksontwikkeling (Ministry of Education and Public Development)
OS: Openbare School (Public School)
OW: Openbare Werken (Public Works)
PAHO: Pan American Health Organisation
PET: PolyEthyleen Tereftalaat (polyester used for i.e. bottles)
RGD: Regionale Gezondheids Dienst (Regional Health Services)
STIBULA: Stichting Buurtontwikkeling Latour (Foundation Community Development Latour)
SWM: Surinaamsche Water Maatschappy (Surinam Water Company)
UNICEF: United Nations Children Fund

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Picture 23: Latour, Children Perform Water Play at Ceremony
Picture 24: Latour, Miniature Bathrooms as part of Exhibition
Picture 25: Latour, Students Bring PET for Recycling
Picture 26: Latour, Fund Raising at “Snoep Pauzes”
ANNEX 4.1

Drain Box and Drain

Self Closing Lift-Drop Taps

Cross section A-A

Cross section B-B

November 2000
ANNEX 4.2

Self-closing push taps and spray arms
Privacy walls
Inclined Splash Surface
Feet Space

Cross Section B - B
Cross Section A - A

November 2000
Drawing not
Report Watersupply and Sanitation Helena Christina and Latour, Pictures 1-4

**Picture 1:** Latour, Dysfunctional Toilet Bowl

**Picture 2:** HC, Main Leak Behind Classroom

**Picture 3:** HC, Dysfunctional Urinals

**Picture 4:** HC, Old Standpipe with Puddles
Report Watersupply and Sanitation Helena Christina and Latour, Pictures 5-8

Picture 5: Latour, Dysfunctional Urinals

Picture 6: Latour, Missing Wash Basin

Picture 7: HC, Boy at Trough Urinal

Picture 8: Latour, Girls Wash Hands After Using Bathroom
Picture 9: HC, School Yard Standpipes

Picture 10: Latour: Trough Wash Basin

Picture 11: HC, Washing Hands as Part of Hygiene Education

Picture 12: Latour, Watersupply and Washbasin for pre-schoolers
Picture 21: HC, Signing of Transfer Agreement, 23-11-00

Picture 22: Latour, Signing of Transfer Agreement, 21-03-01

Picture 23: Latour, Children Perform Water Play at Ceremony

Picture 24: Latour, Miniature Bathrooms as part of Exhibition
8th Inter American Water Day
23 November 2000

Inter American Water Day Committee Members

1. Mr. A. Vlugman, PAHO/WHO
2. Mrs. J. Lakhisaran, Environmental Union Suriname
3. Mr. Blufpand, Suriname Water Company
4. Mrs. J. Rosheuvel, Suriname Water Company
5. Mr. A. Linger, Suriname Water Company
6. Mr. J. Ferrier Ministry of Natural Resources
7. Mr. M. Amatali, Ministry of Publics Works
8. Mrs. G. Sno, BOG
9. Ms. P. Playfair, BOG/GVO
10. Ms. S. Deekman, BOG/GVO
11. Mr. M. Tirtotaroeno, SURINAME Aluminum Company
12. Mr. E. Tsai Meu Chong, SESCON GROUP
13. Mrs. R. Bouterse, Suriname State Oil Company
14. Mrs. E. Perk, UNICEF
15. Mrs. Gilds, Basic Life Skills
16. Mr. Hein IJvel, PROSUR
17. Ms. I. Abdoel Aziz, Regional Health Service
18. Mrs. M. Wongsowidjojo, Regional Health Service
19. Mrs. S. Rosthamkhan, Regional Health Service
20. Mrs. E. Tjokrodipo, Regional Health Service
21. Mrs. S. Lang, Regional Health Service
22. Mrs. Hongodikromo, Regional Health Service
23. Mr. R. Wezenhagen, Ministry of Education
24. Mr. K. Binda, Ministry of Education
25. Mr. P. Leeflang, Ministry of Education, Headmaster OS Helena Christina School I
26. Mr. K. Bisoeamb, Ministry of Education, Headmaster OS Helena Christina School II
27. Mr. R.E. Melcherts, Ministry of Education, Headmaster OS Latour I
28. Mr. F. Kent, Ministry of Education, Headmaster OS Latour II
School Survey  

Team: M. Bunwaree (BOG), Mr. Amatali (OW), Mr. J. Ngadenan (SWM), A. Vlugman (PAHO)

<table>
<thead>
<tr>
<th>Score</th>
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<tr>
<td>Social Mobilization</td>
<td>poor</td>
<td></td>
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<td>good</td>
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<tr>
<td>Outside support available.</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td>No</td>
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<table>
<thead>
<tr>
<th>School: Buchner School (300), Lozingweg 9, Paramaribo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headmaster: Mr. Lang, Tel: 402-178</td>
</tr>
<tr>
<td>Description:</td>
</tr>
<tr>
<td>Girls: 5 WC, 2 washbasins (status pour flush)</td>
</tr>
<tr>
<td>Boys: 4WC, 4 Urinals, 2 was basins (status pour flush)</td>
</tr>
<tr>
<td>Teachers: 1 WC, 1 was basin (Status OK)</td>
</tr>
<tr>
<td>Notes:</td>
</tr>
<tr>
<td>Security is very poor and signs of many break ins and</td>
</tr>
<tr>
<td>vandalism apparent.</td>
</tr>
<tr>
<td>School renovations in progress supported by EBG</td>
</tr>
<tr>
<td>According to headmaster parent participation is poor</td>
</tr>
<tr>
<td>Score:</td>
</tr>
<tr>
<td>A: 5</td>
</tr>
<tr>
<td>B: 2</td>
</tr>
<tr>
<td>C: 1 +</td>
</tr>
<tr>
<td>S: 8</td>
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<table>
<thead>
<tr>
<th>School: O.S. Latour 1+2 (412+362) + preschool (76), Indira Gandhi Weg 95, Paramaribo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headmaster: Mr. Melcherts, Tel: 481-750</td>
</tr>
<tr>
<td>Notes:</td>
</tr>
<tr>
<td>Security is very poor and signs of many break ins and vandalizing apparent.</td>
</tr>
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<td>School renovations in progress supported by EBG</td>
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</tr>
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<td>B: 2</td>
</tr>
<tr>
<td>C: 1 +</td>
</tr>
<tr>
<td>S: 8</td>
</tr>
<tr>
<td>Description:</td>
</tr>
<tr>
<td>--------------</td>
</tr>
<tr>
<td>Girls: 8 WC, 7 out of order (status pour flush), 1 washbasin</td>
</tr>
<tr>
<td>Boys: 4WC (1 stolen), 4 Urinals (2 stolen) Status pour flush. Toilets either un-operational or flush by pouring bucket</td>
</tr>
<tr>
<td>Day care: girls 3 WC and boys 1 WC and 2 urinals, was basin stolen</td>
</tr>
<tr>
<td>Drinking water tap in yard broken and spill basin overflowing. Large pool formation in and around basin.</td>
</tr>
</tbody>
</table>
School Survey 1 March 2000

Team: M. Bunwaree (BOG), Mr. Amatali (OW), Mr. J. Ngadenan (SWM), A. Vlugman (PAHO)

<table>
<thead>
<tr>
<th>Score</th>
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<tr>
<td>Social Mobilization</td>
<td>poor</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Outside support avail.</td>
<td>Yes</td>
<td></td>
<td></td>
<td>good</td>
<td>No</td>
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**Veritaschool (638),** Nw Weergevondenweg, Paramaribo
Headmaster: Mr. Akseldongen, tel: 481-368

**Description:**
Shortage of water compensated by hydrofoor installation and two 1.5 CuM rain tanks
Girls: 5 WC’s, 1 wash basin (operational)
Boys: 1 WC, 2 urinals, 1 basin (operational)

Much too few WC’s should be at least 1 WC per 25 girls and 1 WC and 2 Urinals per 75 boys

**Notes:**
School is supported by 7th day Adventage Church
Security good

**Score:**
A: 3
B: 3
C: 2+
S: 8

**HPG Latour (578),** Sapakarastraat 43, tel: 482-461
Headmaster: Mr. Blackman (team met with Mr. Paulus)

**Description:**
Water tank with hydrofoor installation, very good supply of water.
Girls: 7 WC’s (OK) and 1 wash basin (not working)
Boys: 3 WC’s (OK), 1 trench urinal for 4 persons (flush not OK).
Teachers: 1 WC and 1 wash basin (OK)
Drinking water point at playground overflowing due to drain blockage and large pool formation.

**Notes:**
This school is supported by foundation set up in the Netherlands by ex-students. Toilets, water installation and security bars in very good condition

**Score:**
A: 1
B: 3
C: 2+
S: 8
School Survey 2 March 2000

Team: Mr. J. Ngadenan (SWM), A. Vlugman (PAHO)

<table>
<thead>
<tr>
<th>School</th>
<th>Address</th>
<th>Headmaster</th>
<th>Deputy</th>
<th>Telephone</th>
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<tbody>
<tr>
<td>OS Mijnzorg</td>
<td>Mijnzorgweg 28, Lelydorp</td>
<td>Mrs. Mataw</td>
<td>Mrs. Radjaram</td>
<td>036-6878</td>
</tr>
<tr>
<td>OS Helena Christina 1+2</td>
<td>Helena Christina Weg, Lelydorp</td>
<td>Mr. Leeflang</td>
<td></td>
<td>036-7118</td>
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### Score

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<th>5</th>
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<td>poor</td>
<td>good</td>
<td></td>
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<tr>
<td>Yes</td>
<td>No</td>
<td></td>
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### Notes:

- **OS Mijnzorg (265)**
  - Building privately owned, problems with payment of rent by Ministry and also with repairs.
  - Score: A: 5, B: 2, C: 4+, S: 11

- **OS Helena Christina 1+2 (512+288)**
  - Very large school with limited provision for sanitation.
  - Headmaster mobilizes community for supplies and repair (fence donated by wood supplier)
  - Score: A: 4, B: 4, C: 5+, S: 13
School Survey 2 March 2000

Team: Mr. J. Ngadenan (SWM), A. Vlugman (PAHO)

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<td></td>
<td></td>
<td>poor</td>
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<tr>
<td>Social Mobilization</td>
<td>poor</td>
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<td>good</td>
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<tr>
<td>Outside support avail.</td>
<td>Yes</td>
<td></td>
<td></td>
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</table>

### Talboth School (196+42), Indira Gandhiweg, Lelydorp

Headmaster: Mrs. Mac-Nack, tel: 036-7292

**Description:**
- Water supply from SWM, 1 drinking point in yard with large puddle. Bucket flush for toilets, which are in very poor conditions
- Girls: 2 WC’s, no wash basins
- Boys: 1 WC, 2 trough urinals, no wash basins
- Toddlers: use above WC’s, plastic basin at door to wash hands

**Notes:**
- Facilities in poor condition. School supported from the American Methodist Episcopal Church (AMEC)

**Score:**
- A: 5
- B: 3
- C: 4+
- S: 12
School Survey

Team: Mr. J. Ngadenan (SWM), A. Vlugman (PAHO)

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<td>Social Mobilization</td>
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<tr>
<td>Outside support avail.</td>
<td>Yes</td>
<td>No</td>
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</table>

Baithul Rohman Primary School (105 + 36 toddlers), Marienburg, Commewijne
Headmaster: Mrs. Chung, tel: 495-075, Deputy Mrs. Huang, tel: 432-123,

Description:
Girls: 2 WC, 2 washbasins (status pour flush)
Boys: 2WC, 1 Trench urinals, 2 was basins (status pour flush)
Toddler: 2 WC’s
Teachers: 1 WC, 1 was basin (Status OK)

There is no water supply but hose connected to large water storage pond provides some water, which is collected in drum.

Some puddles as result rainwater from roof.

Notes:
School well maintained and organized. School curriculum based on islamic religion, but no external funds. Deputy Headmaster informed community is rather poor and moneys raised from “snoep pauzes” are used for school development

Score:
A: 3
B: 3
C: 5+
S: 11

O.S. Marienburg (174) + preschool (40), Project C, Marienburg, Commewijne,
Headmaster: Mr. Wasarali (no phone at school).
Deputy Head Soeknanda tel: 322-583

Description:
Water supply from 4 rainwater tanks, however, community “steals” water from tank.
Hydrooof installation present.
Girls: 4 WC (one out of operation), 3 was basin
Boys: 1 WC, 2 urinals, 1 basin (operational).
Toddles use bathroom of boys/girls.
Teachers 2 WC and 2 washbasins.

Notes:
School is very well maintained, but there is no water supply.
Community participation limited

Score:
A: 1
B: 3
C: 5+
S: 9
School Survey 3 March 2000

Team: Mr. J. Ngadenan (SWM), A. Vlugman (PAHO)

<table>
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<tr>
<td>Outside support avail.</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td>No</td>
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</table>

### H.M. Bielkeschool, Liliendaal, (93 + 17 Toddlers), Commewijne. tel: NA

Headmaster: Mevr. Doelwijt, Koningstraat 17, Paramaribo, tel: 403-758

Description:
Drinking water provided from neighboring school with corrugated zinc roof. Roof at Bielke from AC, exposed. Large water reservoir 40 M³ present, but not used for drinking water storage. 4 large tanks available for storage of flush water for toilets. Girls: 4 WC’s, 1 washbasin Boys: 4 WC’s 8 urinals, 2 wash basins Toddlers: 3 WC’s and 2 wash basins Puddle forming observed at reservoir and tanks.

Notes:
Facilities in fairly good condition, lack piped water for flushing and washing. Support from EBG.

Score:
A: 2
B: 3
C: 3+
S: 8

Snoep pauzes to raise funds.
Report on Training Workshop Healthy Schools: Helena Christina 1+2 and OS Latour 1+2

General Purpose of the Workshop:
1- Increase awareness on the need for the physical improvements in watersupply, sanitation and drainage at school
2- Improve attitude and skills in respect of hygiene education
3- Strengthen curricula in health and personal hygiene education
4- Prepare for the celebration of IAWD 2000 and World Water Day
5- Plan of action for implementation to become a model in Healthy school (Aspects: Water and Sanitation and Hygiene)

Objective of Workshop:
1. To transfer knowledge on the important relationship between good watersupply, adequate sanitation and personal hygiene and health
2. To train participants in educational skills in personal hygiene education
3. To create better attitudes and practices towards the use and cleaning of toilets, washing and drinking facilities in order to improve cleanliness, proper use and reduce vandalism and excessive wear and tear.
4. To train teachers in classroom exercises and student activities related to water, sanitation and personal hygiene.
5. To commence preparations for the celebration of IAWD 2000

Resource Persons:

Mr. A. Vlugman, Environmental Health Advisor, Pan American Health Organization
- PAHO Healthy School Initiative
- Water source of life – Relationship between water and health

Ms. J. Lakhisaran, Secretary Environmental Union Suriname
- Inter American Water Day Celebration in Latin America and the Wider Caribbean
- Toward a Healthy School

Ms. P. Playfair, Head Health Communication, BOG, Ministry of Health
- Environment, Water and sanitation

Ms. Y. Hongodikromo, School Nurse Regional Health Service in Suriname
- Water Health and Hygiene

Training:

For the program of the workshops please refer to Annex 3.3. At OS Helena Christina 1 & 2 the workshop was held on 10 October 2000 from 8.00 – 13.00 hours.
This workshop was attended by 27 persons, headmaster (2), teachers (22) and maintenance personnel (3). Resource persons from PAHO/WHO (2), Regional Health Service (4) and Bureau of Public Health (2).

The Workshop at OS Latour 1 & 2 was held at STIBULA on 11 October 2000 from 8.00 – 13.00 hours. 27 persons, including 2 headmasters and 25 teachers, attended this workshop. Resource persons from PAHO/WHO (2), Regional Health Service (2) and Bureau of Public Health (1).

**Decisions**
1. In the coming 3 weeks after the workshop there will be a strong focus on the topics Water, Environment, Sanitation and Hygiene to prepare for IAWD Celebration.
2. All teachers will prepare presentation with their students (acts, drawings, posters, games etc) for an exhibition as a start towards a healthy school.
3. Basic sanitation will become part of the curriculum (Hand washing etc.)
4. Teachers will list what kind of material are needed for the presentations to be provided by the IAWD committee.
5. A Healthy School Committee will be installed at the school to further guide and develop the Healthy Schools Project.
6. Volunteers OS Helena Christina: Mw. Bhoendie L., Mr. Bhawani A., Ms. Thajkoerdien K.,
7. Volunteers for OS Latour: Ms. Liefde, Mr. Dillenburg, and Ms. Meyer.
6. IAWD celebration will be held in OS Helena Christina 23 November 2001
8. The next workshop to make a plan of action for further implementation will be after the IAWD celebration.

**Education team**
1. Mrs. J. Lakhisaran, Environmental Union Suriname
2. Ms. P. Playfair, BOG/GVO
3. Ms. S. Deekman, BOG/GVO
4. I. Abdoel Aziz, Regional Health Service
5. Mrs. S. Rosthamkhan, Regional Health Service
6. Mrs. E. Tjokrodipo, Regional Health Service
7. Mrs. S. Lang, Regional Health Service
8. Mrs. Hongodikromo, Regional Health Service
9. Mrs. E. Perk, UNICEF
10. Mrs. Gilds, Basic Life Skills

**School Health Committee OS Helena Christina I & II School**
1. Ms. L. Bhoendie (Chairmen)
2. Mr. A. Bhawani
3. Ms. K. Thajkoerdien
School Health Committee OS Latour I & II School

1. Ms. Liefde (Chairmen)
2. Mr. Dillenburg
8th Inter American Water Day
23 November 2000

Healthy Schools & Water and Sanitation Training Workshop
10 October 2000, OS Helena Christina
11 October 2000, STIBULA for OS Latour

Program

8.00 - 8.15
Registration,
*Make my day*

8.15 – 8.25
Denki A Tori
*Water wastage: a second nature of mankind??*

8.25 – 8.30
Opening
Mr. Adrianus Vlugman
*Environmental Health Advisor*
*Pan American Health Organization*

8.30 - 9.00
Introduction Inter American Water Day: Towards a Healthy School
Ms. Johanna Lakhisaran
*Environmental Union Suriname*

9.00 – 9.30
Introduction Water and Sanitation and the Environment
Ms. Pearl Playfair
*Department Public Health (BOG/GVO)*

9.30 – 10.00
Introduction Water, Health and Hygiene
Ms. Y. Honggodikromo
*School Nurses Program, Regional Health Service*

10.00 – 10.30
Break

10.30 – 12.00
Work Group Assignments

12.30 – 13.00
Presentation working groups Recommendations

13.00
Closure
The Inter American Water Day Celebration 2000
23 November 2000, OS Helena Christina

Agenda

10:00 – 10.05 Welcome (MC)

10.05 - 10.15 Introduction
    Environmental Health Advisor PAHO/WHO,
    Ir. Adrianus Vlugman

10.15 - 10.25 Sketch (School children)

10.25 - 10.30 Message
    PAHO/WHO Representative in Suriname,
    Dr. Carol Vlassoff

10.30 - 10.40 Poems (School children)

10.40 - 10.50 Message
    Minister of Education, Minister Walter Sandriman

10.50 - 10.55 Song (School children)

11.00 -11.15 Message
    Minister of Public Health, Minister Rakieb Khudabux.

11.15 -11.20 Closing Remarks

Ceremonies

11.20 – 11.30 Unveil wall painting (Minister Education)

11.20 -11.30 Opening & Transfer of Facilities (IAWD Committee)

11.30 - 11.35 Youth Games (School children)

11.35 – 11.40 Opening of Exhibition “Watra Ibri Dropu E Terie, No Frumorsu

11.40 – 12.00 Visit to Exhibition

12.00 Departure
Opening Renovated Watersupply and Sanitation Facilities
OS Latour, 21 March 2001

Program

10:00 – 10.05 Welcome (MC)
10.05 - 10.15 Introduction
Environmental Health Advisor PAHO/WHO,
Ir. Adrianus Vlugman
10.15 - 10.25 Sketch (School children)
10.25 - 10.30 Message
Director of Inspection Unit, Ministry of Education,
Mr. S. Soekoe
10.30 - 10.40 Rendition (School children)
10.40 - 10.50 Message
Head Health Education Department, Bureau of Public Health
Ms. P. Playfair
10.50 - 10.55 Song (School children)
11.00 -11.20 Closing Remarks.

Ceremonies

11.20 – 11.30 Unveil wall painting
(Director of Inspection Unit, Ministry of Education)
11.20 -11.30 Opening & Transfer of Facilities
(PAHO/WHO, Director of Inspection, Headmasters)
11.30 – 11.35 Opening of Exhibition “Watra Ibri Dropu E Terie, No Frumorsu”
11.35 – 12.00 Visit to Exhibition
12.00 Departure
Translation Of The Transfer Agreement

(Original Agreements on following pages)

Lelydorp 23 November 2000

At the occasion of the 8\textsuperscript{th} Inter American Water Day in Suriname, celebrated at OS Helena Christina, the Water Day Committee here by hands over the renovated toilets, drinking watersupply, sanitary and drainage facilities to the Ministry of Education and Peoples’ Development under the responsibility of the Headmaster of OS Helena Christina I, Mr. P Leeflang, and the Headmaster of OS Helena Christina II, Mr. K. Bisoembar.

Mr. Leeflang and Mr. Bisoembar are thoroughly convinced that every school should provide a healthy learning environment for students and work environment for teachers. Only in a good state of maintenance and cleanliness can these facilities contribute to the health of the students and personnel and to the proper attitude towards personal hygiene.

Latour, 21 March 2001

At the occasion of the World Water Day in Suriname, celebrated at OS Latour, the Water Day Committee here by hands over the renovated toilets, drinking watersupply, sanitary and drainage facilities to the Ministry of Education and Peoples’ Development under the responsibility of the Headmaster of OS Latour I, Mr. R.E Melcherts and the Headmaster of OS Latour II, Mr. F. Kent.

Mr. Melcherts and Mr. Kent are thoroughly convinced that every school should provide a healthy learning environment for students and work environment for teachers. Only in a good state of maintenance and cleanliness can these facilities contribute to the health of the students and personnel and to the proper attitude towards personal hygiene.
Lelydorp, 23 November 2000

Ter gelegenheid van de 8ste Inter-Amerikaanse Waterdag in Suriname, gevierd op OS Helena Christina, draagt het Waterdag Committee de gerenoveerde toiletten, drinkwatervoorzieningen en afvoersysteem over aan het Ministerie van Onderwijs en Volksontwikkeling en onder verantwoordelijkheid van het hoofd van OS Helena Christina I, de heer P. Leeftlang, en het hoofd van OS Helena Christina II, de heer K. Bisoembar.

De heer Leeftlang en de heer Bisoembar zijn ervan doordrongen dat elke school een gezonde leeromgeving voor leerlingen en een gezonde werkplaats voor personeel moet zijn. Alleen in goede staat van onderhoud kunnen deze voorzieningen bijdragen aan de gezondheid van hun leerlingen en personeel en aan de juiste attitude met betrekking tot persoonlijke hygiëne.

Hon. Drs. W. Sandriman
Minister van Onderwijs en Volksontwikkeling

Dr. Carol Vlassoff
PAHO/WHO Representative

de heer P. Leeftlang
Hoofd der School
OS Helena Christina I

Iz. Top Vlugman
namens het Waterdag Committee

de heer K. Bisoembar
Hoofd der School
OS Helena Christina II
Latour, 21 maart 2001


De heer Kent en de heer Melcherts zijn ervan doordrongen dat elke school een gezonde leernomgeving voor leerlingen en een gezonde werkplaats voor personeel moet zijn. Alleen in goede staat van onderhoud kunnen deze voorzieningen bijdragen aan de gezondheid van hun leerlingen en personeel en aan de juiste attitude met betrekking tot persoonlijke hygiëne.

De heer S. Soekhoe
Hoofd Inspecteur VOS
Ministerie van Onderwijs en Volksontwikkeling

Hr. Ton Vlugman
Waterdag Committee

de heer R.E. Melcherts
Hoofd der School
OS Latour I

de heer F. Kent
Hoofd der School
OS Latour II
## School Watersupply and Sanitation Project

### Initial Cost Estimates, March 2000

<table>
<thead>
<tr>
<th>Description</th>
<th>OS H. Christina</th>
<th>OS Latour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constructural works for renovation of bathrooms</td>
<td>1,400,000</td>
<td>2,800,000</td>
</tr>
<tr>
<td>Labor costs</td>
<td>Community Participation</td>
<td>Community Participation</td>
</tr>
<tr>
<td>Sanitary works</td>
<td>2,940,000</td>
<td>3,870,000</td>
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<tr>
<td>Labor costs</td>
<td>Community Participation</td>
<td>Community Participation</td>
</tr>
<tr>
<td>Security (burglar bars)</td>
<td>425,500</td>
<td>785,000</td>
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<tr>
<td>Labor costs</td>
<td>Community Participation</td>
<td>Community Participation</td>
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<tr>
<td>Paintworks</td>
<td>1,457,500</td>
<td>2,137,500</td>
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<tr>
<td>Labor costs</td>
<td>Community Participation</td>
<td>Community Participation</td>
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<tr>
<td>Light fixtures</td>
<td>147,000</td>
<td>183,000</td>
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<tr>
<td>Labor costs</td>
<td>Community Support</td>
<td>Community Support</td>
</tr>
<tr>
<td>Hygiene and Health Education</td>
<td>450,000</td>
<td>450,000</td>
</tr>
<tr>
<td>Workshops and Training Teachers</td>
<td>Community meetings</td>
<td>Community meetings</td>
</tr>
<tr>
<td>Educational materials for students</td>
<td>1,475,000</td>
<td>1,475,000</td>
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<tr>
<td>Reproduktion poster</td>
<td>375,000</td>
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<tr>
<td>Promotion</td>
<td>175,000</td>
<td>175,000</td>
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<tr>
<td>Official opening incl. Expositie</td>
<td>Refreshments and snacks</td>
<td>Refreshments and snacks</td>
</tr>
<tr>
<td>Total (without Labor costs)</td>
<td>9,095,000</td>
<td>12,500,500</td>
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<tr>
<td></td>
<td>$4,134</td>
<td>$5,682</td>
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</tbody>
</table>
School Watersupply and Sanitation Project

<table>
<thead>
<tr>
<th>Donor, Contributor</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staatsolie</td>
<td>Sfl 1,000,000</td>
<td>Donation</td>
</tr>
<tr>
<td>Shell</td>
<td>Sfl 250,000</td>
<td>Donation</td>
</tr>
<tr>
<td>Esso</td>
<td>Sfl 500,000</td>
<td>Donation</td>
</tr>
<tr>
<td>Rotary Centraal</td>
<td>US$ 400</td>
<td>Donation, Cash</td>
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<tr>
<td>Surdelco</td>
<td>Sfl 300,000</td>
<td>Donation</td>
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<tr>
<td>NGO-Forum</td>
<td>NF 5,000</td>
<td>Donation</td>
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<tr>
<td>Assuria</td>
<td>Sfl 250,000</td>
<td>Donation, Cash</td>
</tr>
<tr>
<td>Lions Club Commewijne</td>
<td>Sfl 50,000</td>
<td>Donation</td>
</tr>
<tr>
<td>Fernandes Bottling Co</td>
<td>Sfl 400,000</td>
<td>Donation</td>
</tr>
<tr>
<td>Billiton</td>
<td>Sfl 1,940,000</td>
<td>Donation</td>
</tr>
<tr>
<td>UNICEF</td>
<td>US$ 3,000</td>
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<tr>
<td>Rotary Paramaribo Central</td>
<td>in kind</td>
<td>Supervision of construction</td>
</tr>
<tr>
<td>KuldipSingh</td>
<td>in kind</td>
<td>Garbage storage container</td>
</tr>
<tr>
<td>Jules de Vries</td>
<td>in kind</td>
<td>Burglar bars, protective paint and welding materials</td>
</tr>
<tr>
<td>DWV</td>
<td>in kind</td>
<td>9 gls putty for windswpanes</td>
</tr>
<tr>
<td>SWM</td>
<td>in kind</td>
<td>12 water taps for wash basins</td>
</tr>
<tr>
<td>CIC</td>
<td>in kind</td>
<td>12 drop taps for school yard standpipes</td>
</tr>
<tr>
<td>Ministry of Education</td>
<td>in kind</td>
<td>46 wash basins and 46 buckets for hygiene education</td>
</tr>
<tr>
<td>Fernandes Bottling Co</td>
<td>in kind</td>
<td>16 pcs toilet bowls</td>
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<tr>
<td>Lea Club Kankantrie</td>
<td>in kind</td>
<td>Building blocks, cement, sand, tiles</td>
</tr>
<tr>
<td>Varossiabeau Suriname NV</td>
<td>in kind</td>
<td>Softdrinks for ceremonies at Helena Christina and OS Latour</td>
</tr>
<tr>
<td>Parents Lateur</td>
<td>in kind</td>
<td>PET Recycling containers and collection</td>
</tr>
<tr>
<td>Parents Helena Christina</td>
<td>in kind</td>
<td>Snack during ceremony at Helena Christina</td>
</tr>
<tr>
<td>Boy scouts Latour</td>
<td>in kind</td>
<td>For painting the bathrooms and yard taps at Helena Christina</td>
</tr>
<tr>
<td></td>
<td>in kind</td>
<td>Paint material for the muros at HC and Latour</td>
</tr>
<tr>
<td></td>
<td>in kind</td>
<td>Installation of lights and welding and installation of burglar bars in bathrooms</td>
</tr>
<tr>
<td></td>
<td>in kind</td>
<td>Installation of lights and welding and installation of burglar bars in bathrooms</td>
</tr>
<tr>
<td></td>
<td>in kind</td>
<td>Clean-up campaign OS Latour</td>
</tr>
</tbody>
</table>

PAHO and the IAWD committee wishes to express their sincere gratitude for the generous donations and active participation of all involved in this project.
PAHO and the IAWD committee wishes to express their sincere gratitude for the generous donations and active participation of those who contributed to the success of this project:

Assuria NV  
Basic Life Skills (MINOV)  
Boyscouts Latour  
Dienst Watervoorziening (DWV, Min. of Natural Resources)  
Esso Standard Oil SA Ltd  
Fernandes Bottling Company  
Gezondheids Voorlichting en Onderwijs (BOG/GVO)  
Handelsmaatschappij Kulip Singh NV  
Hein Jod  
Jules de Vries Stichting  
Lee Club Kankanrie  
Lions Club Commerciale  
Milieu Bond Suriname  
Milieu Technische Dienst (BOG)  
NV Consolidated Industries Corporation (CIC)  
NV Billiton Maatschappij Suriname  
Ouders OS Helena Christina I+II  
Ouders OS Latour I+II  
Regionale Gezondheids Dienst (RGD)  
Rotary Club Paramaribo Central  
SESCHON Group  
Shell Suriname Verkoop Maatschappij NV  
Staatsolie Mij Suriname NV  
Stichting Bureau Forum Ngo's  
Stichting Buurontwikkeling Latour (STIBULA)  
Surinaamse Waterleiding Maatschappij NV  
Surinam Aluminium Company, LLC  
Technisch Dienst (MINOV)  
UNICEF  
Varossieau Suriname NV  
Waterloopkundige Afdeling (Min. of Public Works)