

**Central Reclamation, Phase III
Quarterly EM&A Report No. 25
(August 2009 through October 2009)**

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Abbreviations & Acronyms

ACL	Atkins China Limited
AL	Action Level
CEDD	Civil Engineering and Development Department
CRIII	Central Reclamation Phase III
DO	Dissolved Oxygen
EIA	Environmental Impact Assessment
EIAO	Environmental Impact Assessment Ordinance
EM&A	Environmental Monitoring and Audit
EPD	Environmental Protection Department
ER	Engineer's Representatives
ET	Environmental Team
IEC	Independent Environmental Checker
LCSD	Leisure and Cultural Services Department
LCSVO-JV	Leighton China State Van Oord Joint Venture
LL	Limit Level
PLA	People's Liberation Army Forces Hong Kong
TDD	Territory Development Department
TSP	Total Suspended Particulates
SS	Suspended Solids
WMP	Waste Management Plan

Executive Summary

The Central Reclamation Phase III (CRIII) Works, Contract No. HK 12/02, was awarded to Leighton China State Van Oord Joint Venture (LCSVO-JV) by the Civil Engineering and Development Department (CEDD). (Previously called the Territory Development Department before merger with the Civil Engineering Department on 1st July 2004.)

The works under the Contract HK 12/02 commenced on 28th February 2003. Contract HK 16/03 for the CRIII Hinterland Drainage Improvement Works was awarded to Wang Kee Construction Co. Ltd., and works for this contract commenced on 17th December 2003.

Atkins China Limited (ACL) has been commissioned by CEDD as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme described in the approved EM&A Manual for the CRIII Project.

This is the 25th quarterly EM&A Report for the works specified in Section 1.3 of the CRIII EIA Report. This report summarises the monitoring results and audit findings of the EM&A program during the reporting period from 1st August 2009 to 31st October 2009.

Environmental Monitoring and Audit Progress

Air quality, noise and water quality monitoring were conducted during this quarter. Weekly environmental site inspections were also conducted during this reporting quarter.

Exceedance of Action and Limit Levels

No exceedance in TSP level was recorded at the two monitoring stations during this reporting quarter.

110 exceedance in noise level was recorded at the City Hall monitoring station on 13th, 14th, 17th, 21st, 25th, 26th, 27th, 28th, 29th and 31st August, 1st, 2nd, 3rd, 8th, 9th, 25th, 26th, 29th, and 30th September and 20th October 2009. On 13th, 14th, 17th, 21st, 25th, 26th, 27th, 28th, 29th August and 20th October 2009, the exceedances were considered to be attributed to the extension work on Hong Kong Planning and Infrastructure Exhibition Gallery rather than the project works. The exceedances on 31st August, 1st, 2nd, 3rd, 8th and 9th September 2009 were contributed by concurrent sheet piling activities in the works area of the former Queen's Pier. ET communicated exceedances to the Contractor representative accordingly and it was suggested that the Contractor should schedule the construction activities at the former Queen's Pier carefully and that concurrent operation of both the drilling and sheet piling activities should be avoided.

Water quality exceedances were recorded on 34 sampling days in this reporting quarter. All exceedances have been investigated. All exceedances of Action/Limit Level for DO were considered to have not been related to the Project works. All exceedances of Action/Limit Level for SS were considered to have not been related to the Project works.

Complaint Log

There were no complaints received in relation to environment impact during this reporting quarter.

Notifications of Summons and Prosecutions

There were no notifications of summons or prosecutions received during this reporting quarter.

Environmental Observations

EPD communicated with the ET that a report of muddy water near the works area of FRAE was received on 14th August 2009.

Subsequent to investigation by the Contractor, they confirmed that no marine works near the eastern seawall was conducted on 14th August 2009; the barges berth near the seawall and did not have any works. The seawall construction at the location concerned has almost completed and the seawall is high enough to prevent any dispersion of silty material even during high tide. As addition precaution, the Contactor has installed a silt curtain at the Culvert K opening on 14th August 2009.

Site Inspection and Audit

Weekly environmental site inspections were carried out during this quarter. Minor deficiencies noted during the site inspections were rectified by the Contractor upon receipt of notification. The observations and findings are outlined below:

6th August 2009

The silt curtain at Culvert F was observed damaged (due to recent typhoon on 4th August 09). The Contractor has arranged for the silt curtain at Culver F to be replaced.

13th August 2009

A skip at the works area near Pier 10 contained construction waste and general refuse. The surrounding area was untidy. The Contractor was reminded to segregate different types of waste to enhance proper disposal and recycling and to tidy up the surrounding area.

20th August 2009

Dark smoke emission was observed from the excavator near the RE office. The contractor was reminded to undergo maintenance of site equipment to prevent dark smoke emission.

EPD communicated with the ET that a report of muddy water near the works area of FRAE was received on 14th August 2009.

Subsequent to investigation by the Contractor, they confirmed that no marine works near the eastern seawall was conducted on 14th August 2009, the barges berth near the seawall and did not conduct any works. The seawall construction at the location concerned has almost completed and the seawall is high enough to prevent any dispersion of silty material even during high tide. As addition precaution, the Contactor has installed a silt curtain at the Culvert K opening.

27th August 2009

N.A.

3rd September 2009

Noisy Activities was observed in the works area of former Queen's Pier. Two sheet piling activities were concurrent operated during site inspection. Contractor was reminded to schedule the construction activities at the former Queen's Pier carefully.

Concurrent operation of sheet piling activities should be avoided. Short breaks between noisy activities should also be taken as far as practicable.

A part of the access roads in FRAE were observed dry during inspection. The Contractor was reminded to ensure that access roads are watered appropriately especially in dry weather.

10th September 2009

N.A.

17th September 2009

N.A.

24th September 2009

Rubbish was trapped by the silt curtain at the south-east corner at FRAE workarea. The Contractor was reminded to collect the rubbish which trapped by silt curtain regularly.

30th September 2009

N.A.

8th October 2009

The silt curtain at the mouth of Culvert F was seen to have detached from the side during site inspection. The Contractor was reminded to ensure the silt curtains are installed properly.

Small amount of debris was seen to have accumulated at the inner layer silt curtain further upstream of Culvert F. The Contractor was reminded to remove debris caught at silt curtains regularly.

15th October 2009

Dark smoke emission was found from air compressor in the FRAW workarea. The Contractor was reminded to maintain and inspect equipment appropriately to prevent smoke emission.

Muddy water discharge was observed from an outfall at the CR-6 works area. Discharge from this outfall is from external sources and as such, is not related to the Project construction works.

22nd October 2009

A container of unidentifiable chemicals was placed on the ground without a drip tray at the FRAE works area. The contractor was reminded to label and store chemicals appropriately.

29th October 2009

The Chemical Waste Storage Area at FRAE workarea was found that have not enough spacing between the top of enclosure wall and the ceiling for ventilation. The contractor was arranged the workman to make the ventilation spacing for Chemical Waste Storage Area.

The leakage of muddy water from the soil bund was found in the works area of FRAW near the mouth of culvert F during site inspection. The contractor was rebuilt the soil bund immediately to stop the leakage of muddy water. The contractor was

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arranged to excavate temporary trench between works area and culvert F for the future precaution.

1. INTRODUCTION

1.1 Basic Project Information

The Main Works Contract HK 12/02 for CRIII commenced on 28th February 2003 and was awarded to Leighton-China State-Van Oord Joint Venture (LCSVO-JV) for the construction of the CRIII Engineering Works. The main construction works that were identified in the EIA Report for the Project, requiring environmental monitoring and audit, have commenced.

This is the 25th quarterly EM&A Report for the works specified in Section 1.3 of the CRIII EIA Report. This report summarises the monitoring results and audit findings of the EM&A program during the reporting period from 1st August 2009 to 31st October 2009.

The Contractor's works programme for the quarter is provided in **Annex E**.

1.2 Project Organisation and Management Structure

Atkins China Limited (ACL) has been commissioned by CEDD as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme described in the approved EM&A Manual and required under Clause 4 of the Variation of Further Environmental Permit (No. EP-01/122/2003/A) issued to Leighton-China State-Van Oord Joint Venture in December 2007 for the CRIII Project. A variation of the Further Environmental Permit for the Project (EP-01/122/2003/B) and (EP-01/122/2003/C) were granted on 26 May 2008 and 17 July 2009. This was then superseded by another variation of Further Environmental Permit for the Project (EP-01/122/2003/D) granted on 1 September 2009. The CRIII Project Organisation is shown in **Annex A**.

1.3 Works Undertaken

The works undertaken in the project area requiring environmental monitoring and audit as identified in the EIA Report (not including Chai Wan Basin) during this reporting quarter include:

- Type A filling in FRAW and FRAE above +2.5mPD;
- Surcharging in FRAW and FRAE;
- Rockfilling behind the seawalls in FRAE;
- Construction of cantilever slab at caisson;
- Piling for Culvert F;
- Sheet piling, excavation, structural works and backfilling for Culvert F;
- Architectural & E & M works for Public Pier East (Pier No.10);
- General filling works above +2.5 mPD in IRAE;
- Construction of storm and foul drainage and gullies in hinterlands for Road P2, Road D7, Road D8 and Road D9 and adjacent to the GPO;
- Roadworks along Lung Wui Road, Tim Wa Avenue (Road D8) and Road P2;
- Backfilling to Culvert K extension ;
- Precasting for seawall blocks and retaining wall (offsite);
- Installation of cooling water mains for Tamar Development Project at IRAE;
- Construction of staircase structure of Man Yiu Street Footbridge;
- Installation of lift at Man Yiu Street footbridge

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- Diaphragm walling and barrettes for CWB Works.

2. EM&A REQUIREMENTS

2.1 Summary of Impact EM&A Requirements

The EM&A programme requires environmental monitoring for air quality, noise, waster quality, waste management and landscape and visual aspects as specified in the CRIII Project EIA. The EM&A requirements for each issue area are described in subsequent sections including:

- All required monitoring parameters;
- Action and Limit Levels; and
- Event-Action Plans.

A summary of impact EM&A requirements is presented in **Table 2-1**.

Table 2.1 - Summary of Impact EM&A Requirements

Parameters	Descriptions	Locations	Frequencies	Duration
TSP	24-Hour TSP	2 Locations	Once every 6 days	During dust generating construction works
	1-Hour TSP	2 Locations	Three times in every 6 days	During dust generating construction works
Noise	Leq (30 mins), L ₁₀ , L ₉₀ .	1 Location	Continuous measurements	Two weeks before Construction and During Construction
Water Quality	Dissolved Oxygen; Salinity; Temp; Suspended Solids; Turbidity.	8 Locations	3 times a week, Mid-ebb/flood tides	During Marine Works and for 4 weeks after completion of Marine Works
Waste	On-Site Waste Audit	Active Work Sites	Periodically	During Construction
	On-Site Waste Inspection			
Landscape and Visual	Audits to ensure effective implementation of mitigation measures			During Construction
General Site Conditions	Environmental Site Inspection	Works areas and areas affected by works	Periodically	During Construction

2.2 Environmental Quality Performance Limits

Environmental Quality Performance Limits for air quality, noise and water quality have been established as part of the Baseline Monitoring Report and are provided in **Annex B**.

2.3 Event Action Plan

Event Action Plans for air quality, noise and water quality have been developed as part of the Baseline Monitoring Report and are provided in **Annex C**.

3. ENVIRONMENTAL STATUS

3.1 Implementation of Environmental Measures

The Contractor has implemented relevant mitigation measures listed in the EIA Report, EM&A Manual and Further Environmental Permit.

3.2 Environmental Monitoring Locations

Drawings showing the project area and locations of the monitoring stations are provided in **Annex D**.

3.3 Air Quality Monitoring Results

The graphical plot of air quality monitoring results for this reporting quarter is provided in **Annex F**.

3.4 Noise Quality Monitoring Results

The graphical plot of noise monitoring results for this reporting quarter is provided in **Annex G**.

3.5 Water Quality Monitoring Results

The graphical plot of water quality monitoring results for this reporting quarter is provided in **Annex H**.

3.6 Solid and Liquid Waste Management Status

Solid and liquid waste management was implemented according to the Waste Management Plan during this reporting quarter.

3.7 Landscape and Visual Audit

As the works undertaken during this reporting quarter were mainly related to reclamation, buildings and infrastructure works, the landscape and visual impacts are considered to be minimal.

4. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

4.1 Environmental Exceedances

No exceedance in TSP level was recorded at the two monitoring stations during this reporting quarter.

110 exceedance in noise level was recorded at the City Hall monitoring station on 13th, 14th, 17th, 21st, 25th, 26th, 27th, 28th, 29th and 31st August, 1st, 2nd, 3rd, 8th, 9th, 25th, 26th, 29th, and 30th September and 20th October 2009. On 13th, 14th, 17th, 21st, 25th, 26th, 27th, 28th, 29th August and 20th October 2009, the exceedances were considered to be attributed to the extension work on Hong Kong Planning and Infrastructure Exhibition Gallery rather than the project works. The exceedances on 31st August, 1st, 2nd, 3rd, 8th and 9th September 2009 were contributed by concurrent sheet piling activities in the works area of the former Queen’s Pier. ET communicated exceedances to the Contractor representative accordingly and it was suggested that the Contractor should schedule the construction activities at the former Queen’s Pier carefully and that concurrent operation of both the drilling and sheet piling activities should be avoided.

Water quality exceedances were recorded on 34 sampling days in this reporting quarter. All exceedances have been investigated. All exceedances of Action/Limit Level for DO were considered to have not been related to the Project works. All exceedances of Action/Limit Level for SS were considered to have not been related to the Project works.

The water quality exceedances during this reporting quarter are summarised in Table 4.1.

Table 4.1 - Summary Water Quality Exceedances from August 2009 to October 2009

Date	Tide	Parameter	Exceedance	Station
Water Quality Monitoring in Accordance with EM&A Manual				
5 th August 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B and M6
	Mid-Flood	DO	AL	M1A, M4B, M5B and M6
7 th August 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6, M8(S/M) and M10(S/M)
	Mid-Flood	DO	AL	M4B, M8(S/M) and M10(S/M)
			LL	M1A, M5B and M6
10 th August 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B and M6
	Mid-Flood	DO	AL	M1A, M4B, M5B and M8(S/M)
			LL	M6
12 th August 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6, M8(S/M) and M10(S/M)
	Mid-Flood	DO	AL	M1A, M8(S/M), M10(S/M)
			LL	M4B, M5B and M6
14 th August 2009	Mid-Ebb	DO	AL	M1A, M8(S/M), M8(B) and M10(B)
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6, M8(S/M), and M10(S/M)
19 th August 2009	Mid-Flood	DO	AL	M4B and M5B
21 st August 2009	Mid-Flood	DO	AL	M6
24 th August 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6 and M7(S/M)
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6 and M9(S/M)

Date	Tide	Parameter	Exceedance	Station
26 th August 2009	Mid-Flood	DO	AL	M1A, M4B, M5B and M6
		SS	LL	M6
31 st August 2009	Mid-Ebb	DO	AL	M7(B) and M9(B)
	Mid-Flood	DO	AL	M7(B) and M9(B)
2 nd September 2009	Mid-Flood	DO	AL	M1A, M4B and M5B
		SS	AL	M5B and M6
4 th September 2009	Mid-Ebb	DO	AL	M4B, M5B and M6
	Mid-Flood	DO	AL	M4B and M5B
LL			M1A	
7 th September 2009	Mid-Ebb	DO	AL	M4B, M5B, M6 and M7(S/M)
			LL	M1A and M9(S/M)
	Mid-Flood	DO	AL	M1A and M6
			LL	M4B, M5B, M7(S/M) and M9(S/M)
9 th September 2009	Mid-Ebb	DO	AL	M1A, M4B and M6
			LL	M5B, M7(S/M) and M9(S/M)
	Mid-Flood	DO	AL	M4B, M5B and M6
			LL	M1A, M7(S/M) and M9(S/M)
		SS	LL	M6
11 th September 2009	Mid-Ebb	DO	AL	M4B, M5B, M7(S/M) and M9(S/M)
			LL	M1A
	Mid-Flood	DO	AL	M4B, M5B, M6, M7(S/M) and M9(S/M)
			LL	M1A
14 th September 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B and M6
			LL	M7(S/M) and M9(S/M)
16 th September 2009	Mid-Ebb	DO	AL	M1A and M6
		SS	AL	M1A
	Mid-Flood	DO	AL	M4B, M5B, M6, M7(S/M) and M9(S/M)
		SS	AL	M6
18 th September 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6 and M7(S/M)
	Mid-Flood	DO	AL	M1A, M4B, M5B and M6
21 st September 2009	Mid-Flood	DO	AL	M1A, M4B, M5B and M6
		SS	LL	M1A, M4B, M5B, M6, M7(S/M) and M9(S/M)
23 rd September 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6 and M9(S/M)
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6 and M9(S/M)
25 th September 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B and M6
	Mid-Flood	DO	AL	M1A, M4B, M5B and M6
28 th September 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6, M7(S/M) and M9(S/M)
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6, M7(S/M) and M9(S/M)
30 th September 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B and M6
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6, M7(S/M) and M9(S/M)
2 nd October 2009	Mid-Ebb	DO	AL	M7(S/M) and M9(S/M)
	Mid-Flood	DO	AL	M6, M7(S/M) and M9(S/M)
5 th October 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6, M7(S/M), M7(B), M9(S/M) and M9(B)

Date	Tide	Parameter	Exceedance	Station
		SS	AL	M1A
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6, M7(S/M), M7(B), M9(S/M) and M9(B)
7 th October 2009	Mid-Ebb	DO	AL	M1A, M5B, M6, M7(S/M), M7(B), M9(S/M) and M9(B)
		SS	AL	M1A and M6
			LL	M5B
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6, M7(S/M), M7(B), M9(S/M) and M9(B)
		SS	AL	M5B
			LL	M6
9 th October 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6, M7(S/M), M7(B), M9(S/M) and M9(B)
		SS	LL	M5B
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6, M7(S/M), M7(B), M9(S/M) and M9(B)
		SS	AL	M1A
12 th October 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6, M7(S/M), M7(B), M9(S/M) and M9(B)
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6, M7(S/M), M7(B), M9(S/M) and M9(B)
		SS	AL	M1A, M5B and M6
14 th October 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6, M7(B), M9(S/M) and M9(B)
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6, M7(S/M), M7(B), M9(S/M) and M9(B)
		SS	AL	M6
16 th October 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6, M7(S/M), M7(B), M9(S/M) and M9(B)
		SS	AL	M1A and M7(DA)
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6, M7(S/M), M7(B), M9(S/M) and M9(B)
19 th October 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B and M6
		SS	AL	M1A
	Mid-Flood	DO	AL	M1A, M4B, M5B and M6
21 st October 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6, M7(B) and M9(B)
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6, M7(B) and M9(B)
		SS	AL	M6
23 rd October 2009	Mid-Ebb	DO	AL	M1A, M4B, M5B, M6, M7(B) and M9(B)
	Mid-Flood	DO	AL	M1A, M4B, M5B, M6, M7(B) and M9(B)
27 th October 2009	Mid-Ebb	DO	AL	M1A and M6
	Mid-Flood	DO	AL	M4B, M5B and M6
		SS	AL	M6

A statistical analysis (presented in **Annex D**) of the suspended solids monitoring results found that the quarterly mean is significantly less than 1.3 times of the ambient mean recorded during the baseline period. This indicates that the Project construction works did not cause adverse impacts during the reporting period with respect to the baseline condition.

4.2 Non-Compliance

No non-compliance with regard to site environmental audit was recorded during the reporting period.

4.3 Summary of Actions Taken by the Contractor

The Contractor has implemented the following measures to prevent air and water quality impacts:

- Contractor has implemented their Drainage Management Plan to Control Site Run-off for the wet season – actions completed and underway include: repair and improvement of existing bunds/sandbags on the edge of the reclamation; installation of additional bunds; compaction of soil surface and paths where possible to prevent erosion, creation of drainage channels and soak pits;
- Provision of additional settlement tanks to remove suspended solids from discharge waters;
- Provision of catch pits to collect spill over from wheel washing facilities and increased frequency of cleaning of catch-pits; and
- Water browsing of haul roads and other areas of the site and covering of stockpiles.

4.4 Environmental Enquiries

No environmental enquiries were received during this reporting quarter.

4.5 Environmental Complaints and Prosecutions

No environmental complaints were received during this reporting quarter.

4.6 Environmental Observations

EPD communicated with the ET that a report of muddy water near the works area of FRAE was received on 14th August 2009.

Subsequent to investigation by the Contractor, they confirmed that no marine works near the eastern seawall was conducted on 14th August 2009; the barges berth near the seawall and did not have any works. The seawall construction at the location concerned has almost completed and the seawall is high enough to prevent any dispersion of silty material even during high tide. As addition precaution, the Contactor has installed a silt curtain at the Culvert K opening on 14th August 2009.

4.7 Record of Environmental Complaints and Summons & Prosecutions

There was no record of environmental complaints during this reporting quarter.

There were no notifications of summons and prosecutions during this reporting quarter.

5. CONCLUSION

During the environmental site inspections conducted within this reporting quarter, no non-compliances were noted and no prosecutions were received during this reporting quarter.

No exceedance in TSP level was recorded at the two monitoring stations during this reporting quarter.

110 exceedance in noise level was recorded at the City Hall monitoring station on 13th, 14th, 17th, 21st, 25th, 26th, 27th, 28th, 29th and 31st August, 1st, 2nd, 3rd, 8th, 9th, 25th, 26th, 29th, and 30th September and 20th October 2009. On 13th, 14th, 17th, 21st, 25th, 26th, 27th, 28th, 29th August and 20th October 2009, the exceedances were considered to be attributed to the extension work on Hong Kong Planning and Infrastructure Exhibition Gallery rather than the project works. The exceedances on 31st August, 1st, 2nd, 3rd, 8th and 9th September 2009 were contributed by concurrent sheet piling activities in the works area of the former Queen's Pier. ET communicated exceedances to the Contractor representative accordingly and it was suggested that the Contractor should schedule the construction activities at the former Queen's Pier carefully and that concurrent operation of both the drilling and sheet piling activities should be avoided.

Water quality exceedances were recorded on 34 sampling days in this reporting quarter. All exceedances have been investigated. All exceedances of Action/Limit Level for DO were considered to have not been related to the Project works. All exceedances of Action/Limit Level for SS were considered to have not been related to the Project works.

