

ENVIRONMENTAL AND WASTE MANAGEMENT PLAN

Besix Watpac
St George Hospital Stage 3
Kensington St, Kogarah Nsw 2217
Moits Project No. 23-005

Table of Contents

1.0	Document Control	3
2.0	Company Contact details	3
2.1	Site Contact Details	3
3.0	Environmental Policy	4
4.0	Objectives and Targets	5
5.0	Scope of Works	5
6.0	Project of Organisation Chart	5
7.0	Roles & responsibilities	7
7.1	Director	7
7.2	Project Manager	7
7.3	Site Manager/Foreman	8
7.4	Employees/Subcontractors	8
8.0	Communication	8
9.0	Subcontractors EMP & EWMS	9
10.0	Environmental Aspects/Impacts & Control Measures	9
11.0	Environmental Inspections/Audits	10
11.1	Audits	10
12.0	Storing and Handling Chemicals	10
13.0	Training & Induction Programs	10
14.0	Non- Conformance, Corrective & Preventative Action	11
15.0	Emergency Procedure	11
16.0	Environmental Incident & Investigation	11
17.0	Waste Management	11
17.1	Waste Minimisation Plan	11
17.2	Waste Transportation	12
18.0	Unexpected finds Protocol	12

1.0 Document Control

Amendments to this Environmental Management Plan are approved by the HSEQ Manager and distributed to all holders of controlled copies.

Date of Issue	Name of Recipient	Position / Organisation
	Nick Chong Sun	Construction Manager - Moits
	Peter Zwamborn	Project Manager – Moits
	Yorgo Kattan	Project Engineer – Moits
	Leonardo Silva	Site Engineer – Moits
	Mark Cahallin	Project Manager – BW
	Ruby Thompson	WHS Coordinator – BW
	Marko Neskoski	Senior Project Engineer – BW
	Tyson Foley	Site Manager – BW

Uncontrolled copies of this plan may be distributed to Moits personnel. However, these copies are not subject to automatic amendment and the receiver should verify currency of the document. Revisions to this Management Plan shall be made as required to reflect the current system requirements or the requirements of the Principal Contractor.

Revision	Date	Description	Page	Reviewed By	Approved By
1.0	Feb 18	New env and waste mgmt plan	All	Darren O’Dea	Darren O’Dea
2.0	Feb 21	Update to include additional client requirements	All	Darren O’Dea	Darren O’Dea

2.0 Company Contact Details

Company Details	
Company Name	N. Moit & Sons (NSW) Pty Ltd
ABN	76 074 571 510
Address	142 Wicks Road Macquarie Park NSW 2113
Phone	02 8026 1700
Email	Peter.zwamborn@moits.com.au

2.1 Site Contact Details

Name	Position/Role	Contact Number	Contact Email
Nick Chong Sun	Construction Manager	0477 262 555	nick.chongsun@moits.com.au
Peter Zwamborn	Project Manager	0447 841 527	Peter.zwamborn@moits.com.au
Salvatore Visalli	Supervisor	0458 415 921	Salvatore.vissali@moits.com.au

3.0 Environmental Policy

N Moit & Sons (NSW) Pty Ltd strongly believes that protecting our environment is not just a moral and legal responsibility but also an investment for our future and a prerequisite for us to achieve our primary mission of conducting demolition, excavation and civil construction to the highest standards. Moits will take all reasonable and practical steps to minimise the ecological footprint our activities place on the environment by:

- Ensuring compliance with all applicable environmental laws, regulations, standards and other requirements applicable to our operations and maintaining our Environmental Management System in accordance with ISO 14001.
- Ensuring all employees and contractors are fully aware of their environmental responsibilities and that they take reasonable care to avoid adversely impacting on the environment through any act or omissions at work.
- Implementing risk identification and hazard management systems which are relevant and suitable for Moits operational and business exposures.
- Maintaining relevant procedures, systems, information, training, recognition programs and organisational structures to support and communicate effective environmental management practices in line with company environmental objectives and targets
- Establishing and implementing procedures to ensure continued improvement in environmental compliance
- Encourage the reduction of waste and consumption of natural resources in our operations by purchasing environmentally friendly products and recycling waste wherever possible.
- Reduce energy consumption by using energy efficient products and encouraging our employees and contractors to turn off equipment from the principle power supply when not required and economically viable.
- Substituting, where practicable, environmentally harmful substances with less harmful products and providing adequate waste disposal facilities and practices for those substances that cannot be re-used or recycled.
- Effectively managing and investigating all environmental incident occurrences and ensuring that practical management and rehabilitation practices are adopted.

This policy is applicable to all Moits personnel and contractors conducting business at a Moits worksite.



MICHAEL MOIT
7 May 2019

DOCUMENT CONTROL

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4.0 Objectives and Targets

The Objective of this EMP is to provide a documented plan for management and minimisation of potential environmental impacts that the works may have on the environment through the identification of risks and control measures.

The Target is to have no environmental incidents whilst conducting work for the Principal Contractor on the Project.

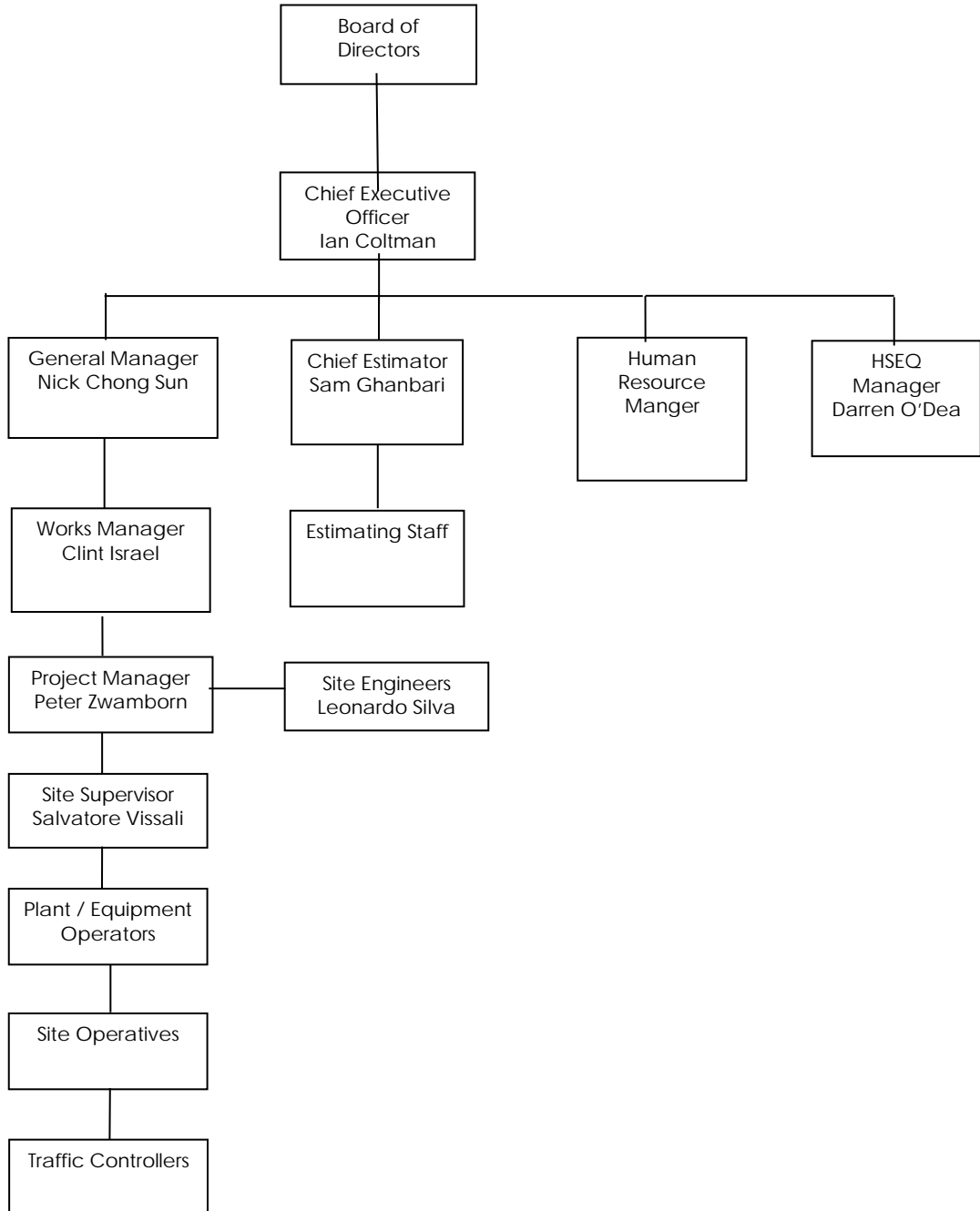
5.0 Scope of Works

- Soil remediation
- Piling and anchoring
- Shotcrete works
- Bulk and detail excavation

5.1 Project Specific Environmental Documents

- JBS&G Detailed Site Investigation Report Rev 2
- Coffey Geotechnical Report Element 2 – Site Investigation /Risk Assessment Report
- PSM Groundwater Investigation, Analysis & Advice Report

6.0 Project Organisation Chart



7.0 Roles and Responsibilities

The responsibilities of the key staff associated with this project will be as follows:

7.1 General Manager

Nick Chong Son – 0477 262 555

- Approved project environmental policy.
- Overall responsibility for environmental management
- Provision of adequate resources
- Ensure understanding and compliance with environmental legislation/regulations
- Demonstrate a commitment to environmental management

7.2 Works Manager

Clint Israel – 0403 511 192

- Prepare and implement Project Environmental Management Plan and EWMS
- Ensure non-conformances are rectified
- Monitor overall environmental management performance including EWMS
- Report compliance with regulatory and contractual requirements for client and authorities
- Ensure sub-contractors and employees comply with Moits Project Environmental Management Systems.
- Provide relevant training and conduct documented toolbox meetings where works have the potential to cause environmental harm
- Notify Principal Contractor of any environmental incidents and conduct incident investigations as required
- Ensure corrective actions resulting from incident investigations are completed
- Participate in any incident investigation as required
- Communication of environmental performance to Project Manager

7.3 Site Supervisor

Salvatore Vissali – 0458 415 921

- Implement project Environmental Management Plan
- Monitor site works and use environmental checklist/s where appropriate
- Ensure sub-contractors and employees comply with Environmental Management Plan requirements.
- Report any environmental issues to the Site Manager
- Assist in the development of EWMS for the project
- Implementation of controls required by EWMS
- Make sure that work activities are carried out in an environmentally sound manner
- Actioning environmental inspection reports received from the Principal Contractor
- Communicate performance to the Site Manager

7.4 Employees/subcontractors

- Ensure compliance with directions given regarding environmental management and in accordance with the Principal Contractor’s Project Induction.
- Participate in toolbox talk on Environmental Work Method Statement and sign-on
- Assist in the development of EWMS for the Project as required
- Reporting any Environmental impacts and incident to the site Manager/Foreman
- Seeking assistance if unsure of Environmental site rules
- Comply with emergency and evacuation procedures

8.0 Communication

Moits will consult with the Principal Contractor through regular meetings on environmental matters. Information will be promulgated to employees concerning environmental management issues and regulatory requirements via toolbox meetings and pre-start meetings. All formal correspondence will be issued via Aconex.

EVENT	FREQUENCY	PARTICIPANTS	RECORD
Work activity induction (in EWMS or equivalent)	Prior to commencing work	Personnel carrying out specific work activities	Record of training – listed on the EWMS or Toolbox Talk Record
Prestart/Toolbox meetings	Daily & Weekly	Personnel carrying out specific work activities	Prestart/Toolbox meeting record
Subcontractor meetings	Weekly	Site Supervisor/ Project Manager	Minutes of meeting

9.0 Subcontractors Environmental Management Plans and EWMS

All subcontractors are required to operate within the requirements of their EMP and associated documents. Where a subcontractor is determined to be working in an area identified as high risk for potential impact to the environment, additional management controls will be put in place. These may include the submission of a dedicated EMP / EWMS to address the specific work area and it must be submitted for review prior to commencement of work on site. Comments resulting from the review will be issued to the subcontractor for action and where required, re-submission. The EMP / EWMS must assess the level of environmental risk and implement appropriate management controls for the subcontractor’s scope of work

Moits DOES intend to subcontract all or part of the works.

If engaged, the sub-subcontractors intended to be used on this site are:

Business	Contact Details
APG - Piling	0410 274 274 (Ramzi)
AGT - Capping beam/Anchor/Shotcrete	9433 431 510 (Sav)

Moits will ensure that the above mentioned subcontractors provide an EMP or EWMS for their specialised work, and that Moits shall review the EMP or EWMS.

10.0 Environmental Aspects, Impact s and Control Measures

An Environmental Work Method Statement (EWMS) detailing procedures addressing the identified aspects in the table below will be submitted with this EMP.

Note: The below aspects provide an indication of the different types of environmental aspects that may be encountered for particular stages of construction and scopes of work. The Moits EMP will reflect this in the EWMS and be kept on the project records. Additional aspects may be added at the discretion of Moits

ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT				
	Land/ Machines	Air/Hazmat removal	Noise/ Vibration	Chemical	Water
Water quality	✓	✓	✓	✓	✓
Washout System					
Erosion and sediment control	✓	✓	✓	✓	✓
Site contamination	✓	✓	✓	✓	✓
Air quality including emissions i.e. dust	✓	✓	✓	✓	✓
Noise and vibration	✓	✓	✓	✓	✓
Hazardous chemicals and storage	✓	✓	✓	✓	✓
Cultural heritage					
Flora and fauna	✓	✓	✓	✓	✓
Waste management	✓	✓	✓	✓	✓

11.0 Environmental Inspections

Moits will conduct environmental inspections weekly. Inspections will be filed and available for audit purposes. The Environmental Inspection Checklist is located in the SEQ management Plan on site.

11.1 Audits

Internal audits will be conducted throughout the course of the project to gauge the environmental performance of the project and the team working with the EMP

12.0 Storing and Handling Chemicals

Moits provides a current (within 5 years of the date of issue) SDS to the principal Contractor for all products and substances to be used for the work activity. All employees involved in the use of products classified as hazardous, are provided with information and training to allow safe completion of the required task

All storage and handling of chemicals is to be in accordance with the SDS and legislative requirements for each product being used on the Project.

13.0 Training and Induction Programs

All personnel working on the Project will complete the Principal Contractor's Project Induction which includes advice on environmental management and compliance requirements detailed for the site. All personnel will participate in the Environmental Work Method Statement 'toolbox meetings' and Project Risk Workshops as required. All participants will sign the attendance sheet as proof of training.

Training programs will remain current and be reviewed at least annually or:

- » When new or unforeseen workplace requirements are identified
- » Following a significant incident
- » Following changes in legislation
- »

14.0 Non- Conformance, Corrective Action

A non-conformance is defined as a failure to comply with BESIX/WATPAC documented procedures, management plans and/or a breach of conditions imposed on the Project. This includes a breach of statutory requirements or licence condition.

Non-conformances identified during audits and site inspections shall be recorded on the Audit Report or Aconex field and actioned. In the event of a non-conformance being raised, BESIX/WATPAC shall document this on the Non-Conformance Report on Aconex.

When a non-conformance is identified, the recipient and/or BESIX/WATPAC shall identify strategies in order to rectify the non-conformance. Where appropriate, the recipient and/or BESIX/WATPAC shall also develop measures to prevent recurrence of the non-conformance. The measures to rectify and to prevent recurrence of the non-conformance shall be documented on the Non-Conformance Report and a time frame established. The instigator shall carry out a follow-up review and close out of the Non-Conformance Report to verify completion of measures taken to rectify and to prevent recurrence

15.0 Emergency Procedures

All emergencies will be in accordance with the Principal Contractor's Emergency Management Plan which is covered in the Project induction. Any evacuations will be handled in accordance with the Emergency Evacuation Plan and under direction of the Principal Contractor's Emergency Management Team.

16.0 Environmental Incidents and Investigations

Upon the potential for or an actual environmental incident occurring, the incident form will be completed and submitted to the Principal Contractor as soon as possible.

It should be noted that the Principal Contractor is to be contacted immediately in the event of an environmental incident.

An environmental incident is identified as an activity that has the potential to or is causing material environmental harm which includes costs exceeding or in aggregate of \$10,000 in accordance with the Protection of the Environment and Operations Act 1997 (NSW).

17.0 Waste Management

17.1 Waste Minimisation Plan

N Moit & Sons Pty Ltd will ensure that all waste material produced as a result of the demolition works carried out will be recycled or disposed of in accordance with the Waste Minimisation and Management Act 1995 and Local Councils Waste Minimisation Policies

N Moit & Sons is committed to recycling and the minimisation of waste materials created through its demolition process and has adopted the waste minimisation hierarchy as its basis for reducing waste:

- Avoid waste at the source
- Reuse materials and components
- Recycle materials into new products
- Dispose of in a responsible manner as a last resort

All employees and subcontractors shall be made aware of Moits commitment to recycling and the importance of separating materials during the demolition / excavation process, not after.

All waste materials created by the demolition / excavation process will be sorted into the following categories and disposed of at authorised salvage, recycling or waste management centres.

- Brick, Concrete & Masonry
- Scrap Metals
- Timber
- Glass
- Cardboard & Plastics
- Non-recyclable items
- Oils, gases
- General Solid Waste (GSW)
- Virgin Excavated Natural Material (VENM)
- Excavated Natural Material (ENM)
- Contaminated Soils (acid sulphate, asbestos etc.)
- Asbestos Containing Material (ACM)

17.2 Waste Transportation

The waste materials created by the works will be removed from site by Moits vehicles and hired bins. Any subcontractors used will be made aware of all requirements including the covering of loads, work hours and specific traffic routes to be taken

18. Unexpected finds Protocol

If an unexpected find is identified during earthworks, the following procedure will be followed:

1. Cease disturbance of the affected portion of the site.
2. Immediately implement controls if it is considered that the unexpected find may pose an immediate risk of harm to human health or the environment, and it is safe to do so.
3. Notify the relevant authorities if required (i.e. NSW EPA, SafeWork NSW).
4. Contact the site supervisor and the Environmental Consultant/ Occupational Hygienist to inspect the area.
5. Conduct an assessment of the location and extent of the unexpected find, if safe to do so.
6. Work Health and Safety (WHS) and environmental controls shall be established based on initial observations, if required. These may include but not be limited to:
 - a. Controlling access by establishment of barricades and warning signs.
 - b. Encapsulating with clean soil, plastic or geofabric.
 - c. Establishing erosion and sediment controls
 - d. Employing dust mitigation measures.
 - e. Air monitoring.
7. Notify the client of the unexpected find and immediate controls established, if required.
8. Further visual assessment, sample collection and analysis may be required by a qualified environmental consultant or occupational hygienist, where further information is needed to assess the extent and/or inform the controls required. If necessary, samples shall be collected and analysed at a laboratory for contaminants of potential concern using National Association of Testing Authorities (NATA) accredited methods. The scope of work may be required to be reviewed by the client.
9. Depending on the outcome of the assessment by the environmental consultant/ occupational Hygienist, the unexpected find may need to be further assessed, managed, remediated or disposed of offsite in accordance with regulatory requirements.
10. Agree the scope with the client and implement works to mitigate identified risks associated with the unexpected find and collect evidence to demonstrate such works have been effective.
11. Affected areas shall be reopened for earthworks following a clearance of the location and issuing of a report by the environmental consultant / occupational hygienist and/or instruction from the client.

Any unexpected finds encountered should be listed on a UFP register via Moits Central, which should include the action taken and the status of the unexpected find. Prior to closing out an unexpected find it is required that all appropriate documentation has been obtained and uploaded to Moits Central.