



City of Coquitlam  
**REQUEST FOR PROPOSALS**  
**RFP No. 14-05-05**

Load, Transport and Disposal of  
**Excavated and Contaminated Soils**

Proposals will be received on or before: 2:00 pm (local time)  
**Thursday, November 20, 2014**  
(Closing date and time)

**Obtaining RFP Documents**

RFP documents available for downloading from the City of Coquitlam's website:  
[www.coquitlam.ca/BidOpportunities](http://www.coquitlam.ca/BidOpportunities)

Printing of RFP documents is the sole responsibility of the Proponents.

**Non-Mandatory Site Visit**

A non-mandatory site visit is scheduled for **Monday, November 3, 2014 @ 10:00 am local time**. Proponents are to meet at the City of Coquitlam's Service Centre visitor parking lot located at the top of Service Centre Road off Mariner Drive, Coquitlam, BC.

**Addenda**

Proponents are required to check the City's website for any updated information and addenda before the closing date at the City website: [www.coquitlam.ca/BidOpportunities](http://www.coquitlam.ca/BidOpportunities)

**Proposals Submissions**

The lowest price Proposal will not necessarily be accepted. The City reserves the right to accept or reject any or all Proposals, accept a Proposal deemed to be in the best interest of the City, or cancel this RFP at any time.

The City will not be responsible for any costs incurred by Proponents in preparing a response.

D. Trudeau, Purchasing Manager

Issue Date: October 27, 2014

## DEFINITIONS

**“Agreement” “Contract”** means the contract for services or City Purchase Order that will be issued to formalize with the successful Proponent through negotiation process with the City based on the proposal submitted and will incorporate by reference the Request for Proposals, any additional subsequent information, any addenda issued, the Proponent’s response and acceptance by the City.

**“City”** means City of Coquitlam.

**“Consultant”, “Contractor”, or “Vendor”** means the person(s) firm(s) or corporation(s) appointed by the City to carry out all duties, obligations, work and services described in the Request for Proposal and all associated documentation, which may also include mutually agreed revisions subsequent to submission of a Proposal. Both “Contractor” and “Proponent” are complementary in terms of duties, obligations and responsibilities contemplated at the Request for Proposals stage, through evaluation process, execution and performance of the services and works.

**“Materials”** means any reference to “Organic Fill Material”, “Structural Fill Material”, or “Wet Fill Material” or any combination of thereof.

**“Organic Fill Material”** means excavated materials composed primarily of organic soils which may not be well suited for structural fill purposes. E.g. topsoils, sods, and ditchings.

**“Proponent”** means responder to this Request for Proposals.

**“Proposal”** means the submission by the Proponent.

**“RFP” “Request for Proposals”** shall mean and include the complete set of documents and addenda incorporated herein, and included in this Request for Proposals.

**“Services”** means and includes the provision by the successful Proponent of all services, duties and expectations as further described in this RFP.

**Structural Fill Material”** means excavated materials of various composition and gradation which are generally suitable for structural fill purposes.

**“Shall” “Must” “Will” “Mandatory”** means a requirement that must be met.

**“Wet Fill Material”** means materials which were produced by hydraulic vacuum excavation methods. Due to the higher water content created by the vacuum excavation process, these materials may require special transportation and disposal considerations.

**“Work” “Works”** shall unless the context otherwise requires, mean the whole of the work, tools, materials, labour, equipment, travel, and all that is required to be done, furnished and performed by the Contractor.

## 1. **INSTRUCTIONS TO PROPONENTS**

### 1.1. Work Description

The City of Coquitlam (“City”) requests Proposals from professional, qualified, experienced companies for the provision of **Loading, Transport and Disposal of Excavated and Contaminated Soils**.

The scope of work generally consists of the provision of all labour and equipment for loading, hauling, record keeping, supervision and disposal of various excavated materials and wet fill material from the City of Coquitlam’s Service Centre Spoils Site, located at 500 Mariner Way, Coquitlam, BC.

These excavated materials are generated mainly by the construction and maintenance work performed by the City’s Engineering Operations Department.

Contaminated soils typically consist of soils with elevated levels of soluble chloride, soluble sodium, and less frequently elevated levels metals (zinc, cadmium, and chromium). The City will provide the Contractor with a soils analytical report prior to each mobilization. Samples of Soil Analytical Results are provided in **Appendix C**.

In 2013, the City disposed of approximately the following quantities of contaminated soils:

- 6,200 tonnes of soil with concentrations of soluble chloride over 90 ug/g;
- 500 tonnes of soil with concentrations of soluble sodium over 300 ug/g;
- 105 tonnes of soil with concentrations of soluble sodium over 1,000 ug/g; and
- Smaller amounts of soil contaminated with heavy metals including copper, molybdenum, tin and zinc

Tonnages for soil which did not exceed allowable amounts are unknown.

The Contractor shall be responsible for sourcing, arranging, and coordinating approved disposal site(s) for the various excavated materials.

#### **Refer to:**

- Appendix A – Certificate of Insurance
- Appendix B – Prime Contractor Designation
- Appendix C – Sample Soil Analytical Results Reports
- Appendix D – Austin Street Spoils Site Plan

1.2. Site Description

The spoil site is a working dump site with difficult access and maneuverability for some vehicles. The site is also located underneath a BC Hydro power line which further restricts equipment height.

A spoil layout with bin volumes is provided in **Appendix D**. The site is currently under review by a Consultant who has proposed three options including alternate locations within the City. It is unlikely that any changes to the site will occur until the summer of 2015.

1.3. Term

The contract will commence January 1, 2015.

The initial term will be two (2) years and remain in effect to December 31, 2016.

The Contract may be extended for additional one (1) year terms subject to mutual agreement of price and service.

1.4. Closing Date & Time

**Proposals will be received by the City of Coquitlam on or before: 2:00 pm (local time)**

**Thursday, November 20, 2014**

1.5. Instructions for Proposal Submission

Proposal submissions are to be uploaded through Qfile, the City's file transfer service accessed at website:

<http://qfile.coquitlam.ca/bid>

1. in the "Subject" field enter: RFP Number and Name
2. Add files in .pdf format and Send  
(Ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete)

Proposals submitted shall be deemed to be successfully received when displayed as new email in the in-box of the City email address. The City will not be liable for any delay for any reason including technological delays, or issues by either party's network or email program, and the City will not be liable for any damages associated with Proposals not received.

The City reserves the right to accept Proposals received after the closing date and time but is under no obligation to evaluate.

Proposals will not be opened in public.

Proposals may be withdrawn upon request by an authorized representative of the company sent to email: [bid@coquitlam.ca](mailto:bid@coquitlam.ca) prior to time set as closing time for receiving Proposals.

1.6. Inquiries

All inquiries are to be submitted in writing by email quoting the RFP name and number sent to: [bid@coquitlam.ca](mailto:bid@coquitlam.ca)

**Questions are to be submitted 3 business days prior to the closing date.**

The City shall determine, at its sole discretion, whether the query requires response, and such responses will be made available to all Proponents by issue of Addenda posted on the City's website that will be incorporated into and become part of the RFP.

No oral conversation will affect or modify the terms of this RFP or may be relied upon by the Proponent.

1.7. Addenda

Proponents are required to check the City's website for any updated information and Addenda issued before the Closing Date at the following website address:  
[www.coquitlam.ca/BidOpportunities](http://www.coquitlam.ca/BidOpportunities)

If a change, or additional information related to the original version of the Request for Proposals is warranted, the City's response will be communicated to all Proponents by means of written Addenda prior to the closing date and posted on the City's website. Upon submitting a Proposal, Proponents are deemed to have received all Addenda posted on the City website and deemed to have considered the information for inclusion in the Proposal submitted.

Should there be any discrepancy in the documentation provided; the City's original file copy shall prevail.

1.8. Privacy

Proponents are advised that submissions are subject to the Freedom of Information and Protection of Privacy Act and contents may be disclosed if required to do so pursuant to the Act.

### 1.9. Prices

All Prices shall be all-inclusive stated in (Canadian Funds) and shall remain **FIRM** for the initial term.

### 1.10. Evaluation Criteria

The criteria for evaluation of the Proposals may include, but is not limited to:

#### Corporate

- Corporate demonstrated experience successfully fulfilling service contracts of similar nature and scope
- References
- Sub-contractors

#### Technical

- Methodology
- Locations of Disposal Facilities
- Transport Vehicles and Capacities
- Loading Equipment and Capacities
- Reporting and Record Keeping - Hauling , transport and disposal data

#### Financial

- Hauling Rates
- Disposal Rates
- Equipment Rates
- Sustainable Benefits
- Value Added

#### **And, upon selection of one or more lead proponent(s):**

- Interviews may be conducted
- references may be contacted

Upon submitting a Proposal, Proponents agree that the City may disclose their company name; however, no prices, scores, weights or totals will be provided to any Proponents.

### 1.11. Negotiation

The City reserves the right, prior to contract award, to negotiate changes to the scope of the services or to the contract documents (including pricing to meet budget) with the proponent or any one or more proponents, proposing the “best value” without having any duty to advise any other proponent or to allow them to vary their proposal as a result of changes to the scope of the services or to the contract documents; and the City may enter into a changed or different contract with the proponent(s) proposing the “best value”, without liability to proponents who are not awarded the contract.

1.12. Irrevocability and Acceptance of Proposals

The City requests that Proposals remain open for acceptance for a period of not less than sixty (60) days from the closing date and time.

The City reserves the right to waive formalities in, accept or reject any or all Proposals, cancel this RFP, or accept the Proposal deemed most favourable in the interest of the City.

The City reserves the right to accept or reject any or all Proposals. The lowest Proposal may not necessarily be accepted, rather will be analyzed to determine best overall value to the City.

The City reserves the right to cancel this RFP at any time without recourse by the Proponent. The City has the right to not award this work for any reason including choosing to complete the work with the City's own forces.

No alterations, amendments or additional information will be accepted after the closing date and time unless invited by the City.

Should a Proposal be accepted, a purchase order will be placed for the provision of these services. Contract documents may be utilized to document the agreement fully and completely.

1.13. No Claim

Except as expressly and specifically permitted in these Instructions to Proponents, no Proponent shall have any claim for any compensation of any kind whatsoever, relating to this RFP, including accepting a non-compliant bid, and by submitting a Proposal, each Proponent shall be deemed to have agreed that it has no claim.

No contractual, tort, or other legal obligations are created or imposed on the City, or any other individual, officer or employee of the City with respect to the RFP documentation or by submission or consideration by the City of any Proposal.

1.14. Conflict of Interest

Proponents shall disclose any actual or potential conflicts of interest and existing business relationships it may have with the City, its elected or appointed officials or employees.

1.15. Non-Solicitation

Proponents and their agents will not contact any member of the City Council with respect to this RFP at any time prior to the award of a Contract or the termination of the RFP, and the City may reject the Proposal of any Proponent that makes any such contact.

1.16. Liability for Errors

While the City has used considerable effort to ensure an accurate representation of information in this RFP, the information contained is supplied solely as a guideline for Proponents. The information is not guaranteed or warranted to be accurate by the City, nor is it necessarily comprehensive or exhaustive. Nothing in this RFP is intended to relieve the Proponents from forming their own opinions and conclusions with respect to the work in this RFP.

1.17. Examination of Proposal Documents

The Proponent must carefully examine the Proposal Documents. The Proponent may not claim, after the submission of a Proposal, that there was any misunderstanding with respect to the requirements and conditions imposed by the City of Coquitlam.

There will be no opportunity to make any additional claim for compensation or invoice for additional charges that were not considered and included in the Proposal price submitted, unless the City, at its sole discretion, deems that it would be unreasonable to do so, or there are additional work requirements due to unforeseen circumstances.

All information in this RFP Document and any resulting Addenda will be incorporated into any Contract between the City and the successful Proponent, and therefore must be considered by the Proponent in preparing their Proposal.



## 2. **GENERAL CONDITIONS OF CONTRACT**

### 2.1. Notification of Award

The City will notify the successful Proponent (“Contractor”) in writing of its decision to award the services. The following general conditions will apply to this Contract. Proponents are to include with their proposal submission a full description of any deviations if they are unable to comply with any of these general conditions.

### 2.2. Health and Safety Requirements

The Contractor shall strictly comply with the current Industrial Health and Safety regulations of WorkSafeBC and the safety policies/procedures of the City of Coquitlam. Other applicable federal, provincial and local regulations and policies concerning the health and safety of workers and general public shall also be followed.

### 2.3. Indemnity

The Contractor shall indemnify and save harmless the City from and against all losses and all claims, demands, payments, suits, actions, recoveries, and judgements of every nature and description brought or recovered against him and/or the City, by reason of any act or omission of the Contractor, its agents, Sub-contractors or employees in the execution of the work.

### 2.4. Insurance Requirements

The Contractor shall submit, upon award by the *City*, Certificates of Insurance signed by the Insurance Company certifying that the required insurance policies are in force and that:

- a) The Contractor shall carry Commercial General Liability (CGL) Insurance satisfactory to the *City* in the amount of FIVE MILLION DOLLARS (\$5,000,000.) inclusive per occurrence, and include:
  - the *City* being named as an additional insured; and
  - the Commercial General Liability insurance include a cross liability clause;
  - insurance policy shall not be cancelled, lapsed, transferred, assigned or materially altered without at least thirty (30) days written notice to the *City* and the *City*’s written approval of the cancellation, transfer, assignment or alteration; and
- b) Automobile Liability insurance, in an amount of not less than THREE MILLION DOLLARS (\$3,000,000.) is required on all licensed vehicles owned or used by the Contractor.

- c) Contractor's Equipment Insurance is required for all equipment owned or rented by the Contractor and employees that provides coverage against all risks of loss or damage.
- d) Evidence of such insurance policies are to be provided no later than then then (10) days prior to commencement of the Work;
- e) Such Certificates of Insurance are to be as shown in **Appendix "A"**.

The Contractor shall ensure that all Sub-contractors carry insurance in the form and limits specified in this clause.

#### 2.5. Independent Contractor

The Contractor is an independent Contractor and this contract does not render the Contractor an agent or employee of the City.

#### 2.6. Business Licence

The Contractor shall maintain a valid City of Coquitlam Business License. For information, contact the City's License Department (Tel: 604-927-3085).

#### 2.7. WorkSafeBC Coverage

The Contractor shall be in good standing with WorkSafeBC and provide a WorkSafeBC Registration Number.

The Contractor is responsible for having the site secured in accordance with WorkSafeBC regulations and to perform the work so that there is no risk of danger or hazard to the staff and public at any time during the progress of the work until completion.

#### 2.8. Prime Contractor

The Contractor shall be deemed to be the "prime contractor" as defined by WorkSafeBC and be absolutely responsible for having the site secured in accordance with WorkSafeBC regulations. Refer to **Appendix B – Prime Contractor Designation**.

#### 2.9. Clean Up

The Contractor shall ensure the site is safe and secure and, at the conclusion of work, the Contractor shall clean out all debris promptly remove any equipment or materials and leave the site of the work in a clean and tidy condition.

#### 2.10. Operations and Coordination of the Services

The Contractor shall agree to coordinate the execution of the Services with the City such that disruption of the work of all involved is minimized.

2.11. Equipment, Materials and Workmanship

The Contractor shall ensure that they are qualified and experienced and have the necessary resources for the successful completion of the work including any amendments as they may occur during the execution of the work.

All equipment, materials and labour utilized and all workmanship shall comply with all current codes, standards, regulations and statutes pertaining to the services including, but not exclusively:

- a) WorkSafeBC
- b) BC Provincial Motor Vehicle Act
- c) Transportation of Dangerous Goods Act & Regulations (TDG)
- d) British Columbia Ministry of Environment
- e) Any other applicable municipal, provincial, and federal regulations

Equipment must be in good mechanical repair and not require excessive maintenance or create excessive down time that jeopardizes the Contractors ability to provide the services agreed to.

2.12. WHMIS

All products purchased by the City are considered to be required for use in the workplace. All products are required to be labelled as a hazardous or controlled product and a material safety data sheet (MSDS) is to accompany the shipment and is required as a condition of purchase. Shipment of goods which do not comply will be returned to the Contractor at their expense.

2.13. Inspection of Services

- a) All services provided shall be subject to inspection and shall meet the approval of the City or a designated representative. If they are not approved, the City shall have the right to reject them or to require correction.
- b) Acceptance or rejection of the work shall be made as promptly as practical, but failure to accept or reject the work shall not relieve the Contractor from responsibility for services provided not in accordance with the contract.
- c) The City will not be deemed to have accepted the services by virtue of a partial or full payment for it.
- d) The City or a designated representative shall be the final judge of all services and its decisions of all questions in dispute will be final.

- e) The Contractor will not be liable for any excess costs if failure to perform is due to strike, lockout, or circumstances beyond control. The City will not be liable where sites are not available due to strike, lockout, or unique circumstances.

#### 2.14. Damage and Defects

The Contractor shall use due care so that no persons are injured, or no property damaged or lost in providing the services. The Contractor shall be solely responsible for all loss, damages, costs and expenses in respect of any injury to persons, damage of property, or infringement of the rights of others incurred in the performance of the services or caused in any other manner whatsoever by the Contractor or its employees. The Contractor shall rectify any loss or damage for which, in the opinion of the City, the Contractor is responsible, at no charge to the City and to the satisfaction of the City.

Alternatively, the City may repair the loss or damage and the Contractor shall pay to the City the costs of repairing the loss or damage upon demand from the City. Where, in the opinion of the City, it is not practical or desirable to repair the loss or damage, the City may estimate the cost of the loss or damage and deduct such estimated amount from the amount owing to the Contractor.

#### 2.15. Default

The City reserves the right, at its sole discretion, to immediately terminate the contract, in whole or in part, and utilize the services of any other Contractor, if the successful Contractor:

- Fails to make delivery of the services
- Fails to perform any provision of the contract within the time specified, or within a reasonable amount of time if no time is specified, as determined by the City
- Fails to meet the City's standard of expected and agreed level of service and performance
- Be adjudged bankrupt or makes general assignment for the benefit of creditors

#### 2.16. Cancellation

The contract may be cancelled by the City for any reason without cause or penalty upon 30 days written notice.

The Contractor would be compensated for all work provided at the date of notification.

#### 2.17. Dispute Resolution

The parties will make reasonable efforts to resolve any dispute, claim or controversy arising out of this contract using the following dispute resolution procedures:

- a) Negotiation – the parties will make reasonable efforts to resolve any dispute by amicable negotiations and will provide frank, candid and timely disclosure of all relevant facts, information and documents to facilitate negotiations.
- b) Mediation – If all or any of a Dispute cannot be resolved by good faith negotiations within 30 days, either party may refer the matter to mediation. Within 10 days of delivery of notice, the parties will mutually appoint a mediator. If the parties fail to agree on the appointment of the mediator, then either party may apply to the BC International Commercial Arbitration Centre for appointment of a mediator. The parties will continue to negotiate in good faith to resolve the Dispute with the assistance of the mediator. The place of mediation will be Coquitlam, British Columbia. Each party will bear its own costs of participating in the mediation.
- c) Litigation – If within 90 days of the request of the mediation, the Dispute is not settled, or if the mediator advises that there is no reasonable possibility of the parties reaching a negotiated resolution, then either party may without further notice, commence litigation.

#### 2.18. Confidentiality

The Contractor agrees that proprietary City information obtained in providing the services will be treated as confidential and shall not be disclosed.

#### 2.19. Advertisement

The Contractor shall not advertise its relationship with the City without prior written consent from the City.

#### 2.20. Subletting

The Contractor will not, without the written consent of the City of Coquitlam, assign, sublet or transfer any subsequent contract or any part thereof.

#### 2.21. Law

The RFP and any resultant award shall be governed by and construed in accordance with the laws of the Province of British Columbia.

#### 2.22. Non-exclusivity

The intent of the City is to have one service provider but the acceptance of any proposal, and upon award, does not entitle any Contractor to exclusive rights for the provision of the services.

### 2.23. Payments – Invoicing

- a) Invoices are to be submitted in .pdf format sent to email: [apinvoices@coquitlam.ca](mailto:apinvoices@coquitlam.ca)
- b) Invoices should reference the Purchase Order or Purchase Contract number, the name of the person requesting the services, and include a separate summary of the costs to transport and dispose of each type of material.
- c) Extremely light loads (i.e. leaf debris) which weigh less than 50% of the payload capacity of the vehicle will be paid at the agreed to flat rate. Where the light loads are greater than 50% of the payload capacity, the City will pay the Contractor for a full load.
- d) Reporting that needs to be attached to the invoice must include:
  - Scale tickets showing tonnages, dates, times, disposal facility, and vehicle/driver information for each load;
  - Tolling information where a vehicle must use a tolled crossing to access an approved dump site; and
  - Breakout of higher/lower contaminant levels
- e) The Contractor shall be paid net 30 days or best effort from receipt of invoice and acceptance of the goods and/or services, whichever is the later, unless alternate payment terms have been agreed to between the Contractor and the City.
- f) Taxes shall be shown separately.

### 2.24. Fuel Emissions Data

The Contractor shall report on the quantity of fuel (gasoline, diesel, natural gas, propane, and bio-fuel blends) used to operate vehicles, equipment and machinery as part of the delivery of the Services “in scope” on a mutually agreeable basis. Fuel consumption associated with the provision of these Services must be provided to the City relating to the Services provided in the previous period, in the following sample format.

<b>Sample Report:</b>	
<b>P.O. Number</b>	<b>567932</b>
<b>Date Range</b>	<b>March 1 – September 15</b>
<b>Gasoline (litres)</b>	<b>1,200</b>
<b>Diesel (litres)</b>	<b>4,500</b>
<b>Prorated Based on</b>	<b>Service hours</b>

Data provided should include the following information:

Litres of fossil fuels consumed in relation to the service delivered under the Agreement in each vehicle class, and the fuel type, for the Goods and Services provided in the previous period.

The City can provide direction, if necessary, to calculate this information.

### 3. SCOPE OF SERVICES

#### 3.1 General Requirements

The City requires **Loading, Transport and Disposal of Excavated and Contaminated Soils** services to ensure a cost effective removal solution for the City that will comply with all governing regulations.

The scope of work generally consists of the provision of all labour and equipment for loading, hauling, record keeping, supervision and disposal of various excavated materials and wet fill material from the City of Coquitlam's Service Centre dump site, located at 500 Mariner Way, Coquitlam, BC.

The City will provide the Contractor with a soil analytical report in advance of mobilization. Upon receipt of the soil analytical report, the Contractor will have three (3) days to mobilize and commence loading and hauling of the materials. Loading and hauling must be completed within three (3) days of mobilization unless the City and the Contractor can agree upon a time extension.

The scope of services will include but is not limited to:

- Manifest creation
- Loading - Excavated and contaminated soils loading
- Transport - Excavated and contaminated soils transport
- Disposal - Excavated and contaminated soils disposal
- Reporting and Recording of all loading, transport and disposals

Transport trucks hauling Wet Fill Materials must be outfitted with boxes that seal tightly such that liquids do not leak out during transport. The Contractor will be responsible for any spillage of Wet Fill Materials.

All work shall be completed in strict accordance with all applicable policies, guidelines and standards from authorities having jurisdiction.

Proponents **MUST** identify any specific requirements with which they are unwilling or unable to comply.

#### 3.2 Public Relations

Good public relations must be maintained at all times by the Contractor, the Contractor's employees, and representatives. All enquiries and complaints must be satisfactorily resolved in a courteous and businesslike manner and be acted upon within a 24 hour period.



### 3.3 Permits

All permits required to complete assigned work are the sole responsibility of the Contractor.

### 3.4 Utilities and Services

All utilities and/or other services required by the Contractor shall be the responsibility of the Contractor. With respect to existing site utilities and services, it is the responsibility of the Contractor to contact BC One-call to determine their exact location on the site.

### 3.5 WHMIS

The Contractor shall be responsible for ensuring that its employees are trained and comply, where applicable, with the Workplace Hazardous Material Information System (“WHMIS”). Such compliance shall include, but not be limited to:

- a) Provision of Material Safety data Sheets for all materials being used;
- b) Training of employees in the proper handling and storage of such materials;
- c) Furnishing and use of workplace labels for such materials.

### 3.6 Dangerous Materials

Any and all dangerous or hazardous materials removed from the site are to be separated and disposed of in accordance with all applicable policies, guidelines and standards from authorities having jurisdiction.

### 3.7 Site Control and Organization

The Contractor shall at all times be responsible for maintaining safety zones around the worksite with safety barricades and signage.

The Contractor is to use barriers and signage to create safe detours around the work zone as required. When unsafe, or not practical to create safe detours, the contractor is to use barriers and signage at the top and bottom egress points, to close the area for public access.

The Contractor shall at all times keep the site secure, safe, clean and orderly.

### 3.8 Quality of Work

All Work shall be performed by qualified skilled personnel trained in transporting and disposal of hazardous materials in strict accordance with the applicable Municipal, Provincial, Federal and other laws, regulations, standards, codes, etc.

The Contractor and persons hired by it to perform the Work shall at all times be properly attired and shall be courteous to the public and perform the work in a manner that minimizes any inconvenience or nuisance to the public.

### 3.9 Environmental Protection

The Contractor shall be responsible to take all necessary measures to comply with requirements of the Federal and Provincial Environmental Protection Agencies and Municipal Acts and Bylaws in respect to air, earth and water pollution.

### 3.10 Protection of the Public

The Contractor shall take adequate measures to protect the public, City staff, and all others on site from injury, damage, or other loss resulting from maintenance operations and related activities.

### 3.11 Hours of Work

The Contractor shall carry out the “*Work*” during normal working hours, and in compliance with the City’s Noise Bylaw. The exception would be emergency work as directed by the City.



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1. **In the "Subject" field enter:** RFP Number and Name
2. **Add files in .pdf format and Send**  
(ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete)

Proponents are responsible to allow ample time to complete the submission process.

For assistance Phone 604-927-3060 or Fax 604-927-3035.

**PROPOSAL SUBMISSION FORM**

**Complete and return this Proposal Submission Form**

**Submitted by:** \_\_\_\_\_  
(company name)

Proponents are asked to provide as much information as possible when replying to each point throughout the proposal.

**1. PRICE**

1.1 Schedule of Unit Prices

These rates are all inclusive without limitation, including all loading, labour, wages, benefits, equipment, transportation, fuel, mobilization, disposal, overhead and profit.

**SCHEDULE OF UNIT PRICES**  
**for**  
**Loading, labour, equipment, transport, and disposal**  
*(All prices shall exclude taxes)*

ITEM No.	DESCRIPTION	UNIT OF MEASURE	UNIT PRICE	MINIMUM FLAT RATE
1.	Organic Fill Material	Metric Tonne	\$	\$
2.	Structural Fill Material	Metric Tonne	\$	\$
3.	Wet Fill Material	Metric Tonne	\$	\$
<b>CONTAMINATED SOILS</b>				
4.	Soluble Chloride - (35 - 89 ug/g)	Cubic Metre	\$	\$
5.	Soluble Chloride - (>90 ug/g)	Cubic Metre	\$	\$
6.	Soluble Sodium - (200 - 999 ug/g)	Cubic Metre	\$	\$
8.	Soluble Sodium - (>1000 ug/g)	Cubic Metre	\$	\$
9.	Excavator (Loading)	Hourly	\$	\$
10.			\$	\$

**2. Disposal Sites**

The following facility locations will be utilized for the disposal of contaminated soils.

	Facility Name	Facility Address/Location	Materials Accepted	Scale (Yes/No)	Truck Access Limitations
1.					
2.					
3.					
4.					
5.					

**3. Subcontractors**

The following Sub-contractors will be utilized in provision of the services and will comply with all the terms and conditions of this RFP:

	Type of Service	Company Name	Phone	Email
1.				
2.				
3.				
4.				
5.				

**4. VEHICLES AND EQUIPMENT**

List Proponent’s and Subcontractors vehicles and equipment owned or leased that would be used in providing the services. Demonstration of the vehicles and equipment offered may be required and must comply with all governing regulations.

	<b>EQUIPMENT</b>	<b>MAKE / MODEL</b>	<b>CAPACITY/PAYLOAD</b>	<b>YEAR</b>
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				

**5. METHODOLOGY**

Fully describe the methodology of how the loading and transporting will be performed to optimize efficiencies at a cost savings to the City.

Include information on truck and trailer size, loading equipment and capacities in correlation with the equipment listed above in Item 4.

**6. NON-COMPLIANCE**

Fully describe any deviations to the City’s requirements outlined in this RFP that your company is unable to comply with.

**7. SUSTAINABLE PRACTISES AND INITIATIVES**

Describe all initiatives, policies or programs that illustrate your firm’s efforts towards sustainable practises and responsibility in providing the services.

**(Social/Ethical, Environmental, Economic/Financial)**

**8. VALUE ADDED**

Provide information on what makes your firm innovative, what is your competitive advantage, and what other services your firm provides that would assist or be of benefit to the City:

**9. TRAINING AND SAFETY PROGRAM**

a) Does your firm have a training and safety program in place that meets the requirements of WorkSafeBC?

Yes  No

b) If no is checked, describe how safety training is accomplished.

**10. ATTACH EXAMPLES**

Submit with your “Proposal Submission Form”, examples of:

**Contaminated Soils Scale Tickets**

**Manifest**

**Invoice**

**Other s**

**11. EXPERIENCE AND REFERENCES**

Proponents shall be competent and capable of performing the services requested and successfully delivered service contracts of similar size, scope and complexity.

<b>Year Started</b>	
<b>Year Completed</b>	
<b>Description of Contract</b>	
<b>Company</b>	
<b>Contact Person</b>	
<b>Telephone and Email</b>	
<b>Contract Value</b>	

<b>Year Started</b>	
<b>Year Completed</b>	
<b>Description of Contract</b>	
<b>Company</b>	
<b>Contact Person</b>	
<b>Telephone and Email</b>	
<b>Contract Value</b>	

<b>Year Started</b>	
<b>Year Completed</b>	
<b>Description of Contract</b>	
<b>Company</b>	
<b>Contact Person</b>	
<b>Telephone and Email</b>	
<b>Contract Value</b>	

**12. ACCEPTANCE**

The City requests that Proposals remain open for acceptance for a period of not less than sixty (60) days from the closing date.

We, the undersigned, confirm that this proposal is open for acceptance by the City for a period of: \_\_\_\_\_ days.



**13. ADDENDA**

We acknowledge receipt of the following Addenda related to this Request for Proposals and have incorporated the information received in preparing this Proposal:

<b>Addendum No.</b>	<b>Date Issued</b>	<b>Date Received</b>

**14. AUTHORIZATION**

We hereby submit our Proposal for the services as specified and undertake to carry out the work in strict accordance with all referenced Terms & Conditions, Regulations and Codes, Specifications, and information provided in **Appendix A & B** applicable to this RFP.

<b>Company Name</b>	
<b>Street Address</b>	
<b>City, Province &amp; Postal Code</b>	
<b>Tel No.</b>	
<b>Fax No.</b>	
<b>E-mail</b>	
<b>GST Registration No.</b>	
<b>WorkSafeBC Account No.</b>	
<b>Name and Title</b> (please print)	
<b>Signature</b>	
<b>Date:</b>	

**For the purpose of this Proposal submission, electronic signatures will be accepted.**

**- End of Proposal Submission Form -**

# Appendix A

## Certificate of Insurance

(Required at time of award)

Consisting of:

- **Certificate of Insurance Form**

**THIS FORM IS TO BE COMPLETED BY THE INSURANCE BROKER**

(A fillable form is also available for electronic completion on the City's website):  
[http://www.coquitlam.ca/Libraries/Coquitlam\\_Forms/Certificate\\_of\\_Insurance\\_-\\_Standard\\_Form.sflb.ashx](http://www.coquitlam.ca/Libraries/Coquitlam_Forms/Certificate_of_Insurance_-_Standard_Form.sflb.ashx)

This certifies that policies of insurance as described below have been issued to the Insured named below and are in full force and effect at this time. It is understood and agreed that **thirty (30) days' notice of cancellation** or reduction in applicable limit of any of the policies listed below, with the exception of ICBC, will be given to the holder of this certificate.

**NOTE: INSURANCE COMPANIES MUST BE LICENSED TO OPERATE IN BRITISH COLUMBIA.**

This Certificate is issued to: **City of Coquitlam**, 3000 Guildford Way, Coquitlam, BC V3B 7N2

<b>Insured</b>	<b>Name:</b>		
	<b>Address:</b>	<b>Email:</b>	<b>Phone:</b>

<b>Broker</b>	<b>Name:</b>		<b>Agent's Name:</b>
	<b>Address:</b>	<b>Email:</b>	<b>Phone:</b>

**Project to which this Certificate applies:**

<b>Contract No.:</b> 14-05-05	<b>Project Name &amp; Description:</b> Excavated and Contaminated Soils
-------------------------------	---

**COMMERCIAL GENERAL LIABILITY** coverage is required to insure against liability from the activities arising out of operations or work in connection with the above-described project, including liability arising out of the use of City property.

Type of Insurance	Insurer Name and Policy Number	Policy Term (dd/mm/yy)	Limits of Liability/Amounts
<b>Section 1: Commercial General Liability</b> <input checked="" type="checkbox"/> Occurrence Form <input type="checkbox"/> Claims Made Form		From:	Bodily Injury, Death & Property Damage
		To:	\$ _____ Per Occurrence <input checked="" type="checkbox"/> <b>MINIMUM \$5,000,000</b>
<input type="checkbox"/> Umbrella Liability		From:	\$ _____ Aggregate
		To:	\$ _____ Deductible
<input type="checkbox"/> Excess Liability		From:	\$ _____ Umbrella Limit
		To:	\$ _____ Excess Limit
<b>Section 2 Other:</b>		From:	\$ _____ Limit
		To:	\$ _____ Deductible

**Particulars of General Liability Insurance (Sections 1 & 2):**  indicates that the coverage is included.

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> City of Coquitlam as Additional Insured<br><input checked="" type="checkbox"/> Premises & Operations<br><input checked="" type="checkbox"/> Broad Form Products & Completed Operations<br><input checked="" type="checkbox"/> Owners & Contractors Protective<br><input checked="" type="checkbox"/> Blanket Contractual<br><input checked="" type="checkbox"/> Unlicensed Automobile Liability<br><input checked="" type="checkbox"/> Cross Liability/Severability of Interests<br><input checked="" type="checkbox"/> Employees As Additional Insureds<br><input checked="" type="checkbox"/> Non-Owned Automobile<br><input checked="" type="checkbox"/> Attached Machinery<br><input checked="" type="checkbox"/> Occurrence Property Damage<br><input checked="" type="checkbox"/> Contingent Employer's Liability<br><input checked="" type="checkbox"/> Broad Form Loss of Use | <input checked="" type="checkbox"/> Coverage is Primary and not contributory<br><input checked="" type="checkbox"/> Personal Injury<br><input type="checkbox"/> Use of explosives for blasting<br><input type="checkbox"/> Vibration from pile driving or caisson work<br><input type="checkbox"/> Demolition<br><input type="checkbox"/> Shoring and Underpinning Hazard<br><br><input type="checkbox"/> Water Ingress Coverage<br><input type="checkbox"/> Work below ground level over 3 meters (XCU extension) | <input type="checkbox"/> 12 months Completed Operations<br><input type="checkbox"/> 24 months Completed Operations<br><br><input type="checkbox"/> Aircraft/Aviation Liability<br><input type="checkbox"/> Non-owned aircraft liability<br><br><input type="checkbox"/> Watercraft liability<br><input type="checkbox"/> Non-owned watercraft liability<br><br><input type="checkbox"/> Pollution Liability<br><input type="checkbox"/> Asbestos |
|---|--|--|

<b>Section 3: Automobile Liability</b> (owned or leased vehicles)	If insured by ICBC, attach a copy of the ICBC form APV-47	From:	Personal Injury & Property Damage
		To:	\$ _____ Limit <input checked="" type="checkbox"/> <b>MINIMUM \$3,000,000</b>

It is understood and agreed any deductible or reimbursement clause contained in the policy shall be the sole responsibility of the Named Insured.

**Broker Authorization (Signature & Stamp)** \_\_\_\_\_

\_\_\_\_\_ Date

**INTERNAL USE ONLY**

Certificate  Approved  Not Approved

**COMPLETE & SUBMIT TO: CITY OF COQUITLAM**  
Email: [bid@coquitlam.ca](mailto:bid@coquitlam.ca)

## **Appendix B**

### **Prime Contractor Designation**

(Required at time of Award)

Consisting of:

- **Prime Contractor Designation Form**



City of Coquitlam  
**Prime Contractor Designation**

(A fillable form is also available for electronic completion on the City's website):

[http://www.coquitlam.ca/Libraries/Coquitlam\\_Forms/Prime\\_Contractor\\_Designation\\_Form.sflb.ashx](http://www.coquitlam.ca/Libraries/Coquitlam_Forms/Prime_Contractor_Designation_Form.sflb.ashx)

**Subject:** Prime Contractor Designation

**Contract / Permit #:** City of Coquitlam RFP No. 14-05-05

**Project / Site Location:** Excavated and Contaminated Soils

\_\_\_\_\_ (the "Contractor") represents, acknowledges and agrees that:  
(Company Name)

1. in accordance with section 118 of the Workers Compensation Act, R.S.B.C. 1996, c. 492 (the "Workers Compensation Act"), the Contractor shall be the "Prime Contractor" and is qualified to act as the "Prime Contractor" in respect of the Project ;
2. the Contractor accepts the duties and responsibilities for coordination of health and safety in accordance with the Workers Compensation Act and further agrees that it will do everything necessary to establish and maintain a system or process that will insure compliance with the Workers Compensation Act and the Regulations thereto;
3. the Contractor shall fulfill all the obligations of an "Owner" under section 119 of the Workers Compensation Act in respect of the Project site; and
4. that the City of Coquitlam has fulfilled its obligations as an "Owner" under section 119 of the Workers Compensation Act, in respect of the Project site.

**Prime Contractor Name:** \_\_\_\_\_

**Prime Contractor Address:** \_\_\_\_\_

\_\_\_\_\_  
**Prime Contractor Signature**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Print Name**

Please return a signed copy of this memo to the City of Coquitlam, 3000 Guildford Way, Coquitlam, BC, V3B 7N2

If you have any questions, please contact the City of Coquitlam Health & Safety Advisor at 604-927-3068.

## **Appendix C**

### **Sample Soil Analytical Results Reports**

Consisting of:

- **Thurber Engineering Historical Reports**

**Appendix C – Sample Soil Analytical Results Reports**  
City of Coquitlam RFP No. 14-05-05 – Excavated and Contaminated Soils

**Table 1: Soil Analytical Results (Fall)**

Sample ID Lab Certificate Sampling Date	BC CSR Schedule 7 Column II*	BC CSR Schedule 7 Column III**	Commercial / Industrial Standard***	SP13-1-1	SP13-1-2	SP13-1-3	SP13-1-4	SP13-1-5	SP13-1-C	SP13-2-1
				13V778134 31-Oct-13	13V778134 31-Oct-13	13V778134 31-Oct-13	13V778134 31-Oct-13	13V778134 31-Oct-13	13V778134 31-Oct-13	13V778134 31-Oct-13
Soluble (2:1) pH				7.1	6.7	-	-	6.2	6.6	-
<b>Metals</b>										
Total Antimony (Sb)	20	20	40	0.62	0.95	-	-	0.21	0.32	-
Total Arsenic (As)	15	15	15	2.2	3.9	-	-	2.4	2.8	-
Total Barium (Ba)	400	400	400	58.1	65.1	-	-	45.6	46.4	-
Total Beryllium (Be)	4	4	8	0.15	0.15	-	-	0.15	0.15	-
Total Boron (Bo)	ns	2	ns	0.2	0.3	-	-	0.1	0.2	-
Total Cadmium (Cd)	1.5	1.5	1.5-150****	0.17	0.2	-	-	0.12	0.14	-
Total Chromium (Cr)	60	50	60	16	16	-	-	14	14	-
Total Cobalt (Co)	50	40	300	5.5	4.9	-	-	5	5	-
Total Copper (Cu)	90	90	90-250****	23.9	39.8	-	-	21.6	20.1	-
Total Iron (Fe)	ns	ns	ns	19200	17600	-	-	18100	17900	-
Total Lead (Pb)	100	100	100-4000****	7.5	14.9	-	-	9.7	9	-
Total Lithium (Li)	ns	ns	20000	5	5.3	-	-	5	5	-
Total Magnesium (Mg)	ns	ns	ns	4500	4070	-	-	4120	4550	-
Total Manganese (Mn)	ns	ns	19000	269	230	-	-	238	254	-
Total Mercury (Hg)	15	0.6	40	0.02	0.03	-	-	0.03	0.02	-
Total Molybdenum (Mo)	10	5	40	0.71	1.14	-	-	0.51	0.56	-
Total Nickel (Ni)	100	150	500	12.9	11	-	-	8.8	10.5	-
Total Selenium (Se)	3	2	10	<0.1	<0.1	-	-	0.1	<0.1	-
Total Silver (Ag)	20	20	40	<0.05	0.06	-	-	<0.05	<0.05	-
Total Sodium (Na)	ns	ns	ns	349	290	-	-	307	213	-
Total Strontium (Sr)	ns	ns	100000	31.4	28.5	-	-	22.1	22.1	-
Total Thallium (Tl)	ns	2	ns	0.06	<0.05	-	-	<0.05	<0.05	-
Total Tin (Sn)	50	5	300	0.68	1.12	-	-	0.38	0.45	-
Total Uranium (U)	ns	ns	200	0.36	0.34	-	-	0.3	0.3	-
Total Vanadium (V)	200	200	ns	43	43	-	-	44	41	-
Total Zinc (Zn)	150	150	150-600****	63	83	-	-	40	49	-
<b>Hydrocarbons</b>										
EPH (C10-C19)	1000	1000	2000	22	<20	-	-	<20	<20	-
EPH (C19-C32)	1000	1000	5000	252	100	-	-	124	96	-
<b>Soluble Sodium and Chloride</b>										
Chloride, Soluble	35	35	90	34	52	14	103	95	-	44
Sodium, Soluble	200	200	1000	36	46	9	36	35	-	20

**Notes**

CSR = Contaminated Sites Regulation

EPH = Extractable Petroleum Hydrocarbons

Values in ug/g unless otherwise stated

\* Relocation to nonagricultural land

\*\* Relocation to agricultural land

\*\*\*Standards provided in Schedules 4 and 5 of the BC Contaminated Sites Regulation. Schedule 5 Site specific factors include intake of contaminated soil, toxicity to soil invertebrates and plants, groundwater used for drinking water and groundwater flow to surface water used by aquatic life (freshwater and marine).

\*\*\*\*Standard is pH dependent

**XXX.XX** = Exceeds Soil Relocation and/or Commercial Standards (Chloride<300)

**XXX.XX** = Exceeds Soil Relocation and/or Commercial Standards (Sodium<300, Chloride>300)

**XXX.XX** = Exceeds Both Commercial and Applicable Soil Relocation Standards (Sodium >1000)

**Appendix C – Sample Soil Analytical Results Reports**  
City of Coquitlam RFP No. 14-05-05 – Excavated and Contaminated Soils

**Table 1: Soil Analytical Results (Fall)**

Sample ID Lab Certificate Sampling Date	BC CSR Schedule 7 Column II*	BC CSR Schedule 7 Column III**	Commercial / Industrial Standard***	SP13-2-2	SP13-2-3	SP13-2-4	SP13-2-5	SP13-2-C
				13V778134 31-Oct-13	13V778134 31-Oct-13	13V778134 31-Oct-13	13V778134 31-Oct-13	13V778134 31-Oct-13
Soluble (2:1) pH				-	6.8	6.8	6.9	6.9
<b>Metals</b>								
Total Antimony (Sb)	20	20	40	-	0.29	0.12	0.38	0.29
Total Arsenic (As)	15	15	15	-	2.8	2	4	2.8
Total Barium (Ba)	400	400	400	-	44.9	39.6	65.9	46.6
Total Beryllium (Be)	4	4	8	-	0.15	0.12	0.21	0.14
Total Boron (Bo)	ns	2	ns	-	0.2	0.1	1	0.4
Total Cadmium (Cd)	1.5	1.5	1.5-150****	-	0.14	0.09	0.53	0.17
Total Chromium (Cr)	60	50	60	-	11	14	17	12
Total Cobalt (Co)	50	40	300	-	4.9	4.3	4.6	4.8
Total Copper (Cu)	90	90	90-250****	-	19.8	12.5	31.3	33.4
Total Iron (Fe)	ns	ns	ns	-	15900	14800	14300	15500
Total Lead (Pb)	100	100	100-4000****	-	8.9	4.5	20.3	10.7
Total Lithium (Li)	ns	ns	20000	-	5.1	4.9	5.9	4.9
Total Magnesium (Mg)	ns	ns	ns	-	4060	3830	4070	3870
Total Manganese (Mn)	ns	ns	19000	-	269	231	313	263
Total Mercury (Hg)	15	0.6	40	-	0.03	0.02	0.09	0.03
Total Molybdenum (Mo)	10	5	40	-	0.5	0.46	0.66	0.41
Total Nickel (Ni)	100	150	500	-	8.3	7.4	12.9	8.4
Total Selenium (Se)	3	2	10	-	0.1	0.2	1.2	0.2
Total Silver (Ag)	20	20	40	-	<0.05	<0.05	0.1	0.05
Total Sodium (Na)	ns	ns	ns	-	262	220	120	228
Total Strontium (Sr)	ns	ns	100000	-	33.2	28.7	79.3	39.3
Total Thallium (Tl)	ns	2	ns	-	<0.05	<0.05	<0.05	<0.05
Total Tin (Sn)	50	5	300	-	0.49	0.22	0.87	0.47
Total Uranium (U)	ns	ns	200	-	0.31	0.27	0.8	0.41
Total Vanadium (V)	200	200	ns	-	38	35	33	36
Total Zinc (Zn)	150	150	150-600****	-	50	30	120	63
<b>Hydrocarbons</b>								
EPH (C10-C19)	1000	1000	2000	-	<20	<20	<20	<20
EPH (C19-C32)	1000	1000	5000	-	141	43	110	105
<b>Soluble Sodium and Chloride</b>								
Chloride, Soluble	35	35	90	26	111	58	18	-
Sodium, Soluble	200	200	1000	17	37	22	10	-

**Notes**

CSR = Contaminated Sites Regulation

EPH = Extractable Petroleum Hydrocarbons

Values in ug/g unless otherwise stated

\* Relocation to nonagricultural land

\*\* Relocation to agricultural land

\*\*\*Standards provided in Schedules 4 and 5 of the BC Contaminated Sites Regulation. Schedule 5 Site specific factors include intake of contaminated soil, toxicity to soil invertebrates and plants, groundwater used for drinking water and groundwater flow to surface water used by aquatic life (freshwater and marine).

\*\*\*\*Standard is pH dependent

**XXX.XX** = Exceeds Soil Relocation and/or Commercial Standards (Chloride<300)

**XXX.XX** = Exceeds Soil Relocation and/or Commercial Standards (Sodium<300, Chloride>300)

**XXX.XX** = Exceeds Both Commercial and Applicable Soil Relocation Standards (Sodium >1000)



**Appendix C – Sample Soil Analytical Results Reports**  
City of Coquitlam RFP No. 14-05-05 – Excavated and Contaminated Soils

**Table 2: Soil Analytical Results (Winter)**

Sample ID Lab Certificate Sampling Date	BC CSR Schedule 7 Column II*	BC CSR Schedule 7 Column III**	Commercial / Industrial Standard***	SP14-1-1	SP14-1-2	SP14-1-3	SP14-1-4	SP14-1-5	SP14-1-C	SP14-2-1	SP14-2-2	SP14-2-3
				14V798618 6-Jan-14	14V798618 6-Jan-14	14V798618 6-Jan-14	14V798618 6-Jan-14	14V798618 6-Jan-14	14V798618 6-Jan-14	14V798618 6-Jan-14	14V798618 6-Jan-14	14V798618 6-Jan-14
Soluble (2:1) pH				-	-	8.2	8.1	8.0	7.8	7.7	7.5	7.4
<b>Metals</b>												
Total Antimony (Sb)	20	20	40	-	-	1.6	0.9	0.6	1	<0.5	0.5	<0.5
Total Arsenic (As)	15	15	15	-	-	6	4	3	5	3	2	2
Total Barium (Ba)	400	400	400	-	-	104	83	56	88	50	70	47
Total Beryllium (Be)	4	4	8	-	-	0.3	0.2	<0.2	0.2	<0.2	<0.2	<0.2
Total Boron (Bo)	ns	2	ns	-	-	0.4	0.3	0.2	0.3	0.2	0.1	0.1
Total Cadmium (Cd)	1.5	1.5	1.5-150****	-	-	0.3	0.2	<0.1	0.2	0.1	0.1	<0.1
Total Chromium (Cr)	60	50	60	-	-	33	22	16	28	14	33	13
Total Cobalt (Co)	50	40	300	-	-	9	7	6	8	6	7	6
Total Copper (Cu)	90	90	90-250****	-	-	70	38	29	51	37	32	49
Total Iron (Fe)	ns	ns	ns	-	-	25900	20300	17600	22500	18400	19500	18700
Total Lead (Pb)	100	100	100-4000****	-	-	31	20	12	28	8	13	7
Total Lithium (Li)	ns	ns	20000	-	-	7	7	6	7	5	7	6
Total Magnesium (Mg)	ns	ns	ns	-	-	5620	4830	4400	4840	4760	5150	5170
Total Manganese (Mn)	ns	ns	19000	-	-	399	315	268	344	292	325	309
Total Mercury (Hg)	15	0.6	40	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Molybdenum (Mo)	10	5	40	-	-	1.4	0.9	0.7	1.1	0.8	1	<0.5
Total Nickel (Ni)	100	150	500	-	-	17	13	10	15	9	11	8
Total Selenium (Se)	3	2	10	-	-	<1	<1	<1	<1	<1	<1	<1
Total Silver (Ag)	20	20	40	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Sodium (Na)	ns	ns	ns	-	-	1150	998	910	914	1350	2110	1780
Total Strontium (Sr)	ns	ns	100000	-	-	44	34	29	39	31	40	26
Total Thallium (Tl)	ns	2	ns	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Tin (Sn)	50	5	300	-	-	2.5	1.5	1	1.6	1	0.8	<0.5
Total Uranium (U)	ns	ns	200	-	-	0.7	0.5	<0.5	0.6	<0.5	<0.5	<0.5
Total Vanadium (V)	200	200	ns	-	-	68	57	45	61	46	57	43
Total Zinc (Zn)	150	150	150-600****	-	-	136	89	60	122	52	61	38
<b>Hydrocarbons</b>												
EPH (C10-C19)	1000	1000	2000	-	-	85	50	27	58	24	21	<20
EPH (C19-C32)	1000	1000	5000	-	-	477	440	184	640	190	152	28
<b>Soluble Sodium and Chloride</b>												
Chloride, Soluble	35	35	90	63	191	537	452	590	-	775	1120	1560
Sodium, Soluble	200	200	1000	28	104	281	241	337	-	445	673	873

**Notes**

CSR = Contaminated Sites Regulation

EPH = Extractable Petroleum Hydrocarbons

Values in ug/g unless otherwise stated

\* Relocation to nonagricultural land

\*\* Relocation to agricultural land

\*\*\*Standards provided in Schedules 4 and 5 of the BC Contaminated Sites Regulation. Schedule 5 Site specific factors include intake of contaminated soil, toxicity to soil invertebrates and plants, groundwater used for drinking water and groundwater flow to surface water used by aquatic life (freshwater and marine).

\*\*\*\*Standard is pH dependent

**XXX.XX** = Exceeds Soil Relocation and/or Commercial Standards (Chloride<300)

**XXX.XX** = Exceeds Soil Relocation and/or Commercial Standards (Chloride>300)

**XXX.XX** = Exceeds Both Commercial and Applicable Soil Relocation Standards (Sodium >1000)

**Appendix C – Sample Soil Analytical Results Reports**  
City of Coquitlam RFP No. 14-05-05 – Excavated and Contaminated Soils

**Table 2: Soil Analytical Results (Winter)**

Sample ID	BC CSR	BC CSR	Commercial /	SP14-2-4	SP14-2-5	SP14-2-C
Lab Certificate	Schedule 7	Schedule 7	Industrial	14V798618	14V798618	14V798618
Sampling Date	Column II*	Column III**	Standard***	6-Jan-14	6-Jan-14	6-Jan-14
Soluble (2:1) pH				-	-	7.3
<b>Metals</b>						
Total Antimony (Sb)	20	20	40	-	-	<0.5
Total Arsenic (As)	15	15	15	-	-	2
Total Barium (Ba)	400	400	400	-	-	56
Total Beryllium (Be)	4	4	8	-	-	<0.2
Total Boron (Bo)	ns	2	ns	-	-	0.1
Total Cadmium (Cd)	1.5	1.5	1.5-150****	-	-	<0.1
Total Chromium (Cr)	60	50	60	-	-	18
Total Cobalt (Co)	50	40	300	-	-	6
Total Copper (Cu)	90	90	90-250****	-	-	40
Total Iron (Fe)	ns	ns	ns	-	-	18500
Total Lead (Pb)	100	100	100-4000****	-	-	9
Total Lithium (Li)	ns	ns	20000	-	-	6
Total Magnesium (Mg)	ns	ns	ns	-	-	4680
Total Manganese (Mn)	ns	ns	19000	-	-	286
Total Mercury (Hg)	15	0.6	40	-	-	<0.1
Total Molybdenum (Mo)	10	5	40	-	-	0.7
Total Nickel (Ni)	100	150	500	-	-	12
Total Selenium (Se)	3	2	10	-	-	<1
Total Silver (Ag)	20	20	40	-	-	<0.5
Total Sodium (Na)	ns	ns	ns	-	-	1360
Total Strontium (Sr)	ns	ns	100000	-	-	30
Total Thallium (Tl)	ns	2	ns	-	-	<0.5
Total Tin (Sn)	50	5	300	-	-	1
Total Uranium (U)	ns	ns	200	-	-	<0.5
Total Vanadium (V)	200	200	ns	-	-	53
Total Zinc (Zn)	150	150	150-600****	-	-	53
<b>Hydrocarbons</b>						
EPH (C10-C19)	1000	1000	2000	-	-	<20
EPH (C19-C32)	1000	1000	5000	-	-	67
<b>Soluble Sodium and Chloride</b>						
Chloride, Soluble	35	35	90	197	439	-
Sodium, Soluble	200	200	1000	122	276	-

**Notes**

CSR = Contaminated Sites Regulation

EPH = Extractable Petroleum Hydrocarbons

Values in ug/g unless otherwise stated

\* Relocation to nonagricultural land

\*\* Relocation to agricultural land

\*\*\*Standards provided in Schedules 4 and 5 of the BC Contaminated Sites Regulation. Schedule 5 Site specific factors include intake of contaminated soil, toxicity to soil invertebrates and plants, groundwater used for drinking water and groundwater flow to surface water used by aquatic life (freshwater and marine).

\*\*\*\*Standard is pH dependent

**XXX.XX** = Exceeds Soil Relocation and/or Commercial Standards (Chloride<300)

**XXX.XX** = Exceeds Soil Relocation and/or Commercial Standards (Chloride>300)

**XXX.XX** = Exceeds Both Commercial and Applicable Soil Relocation Standards (Sodium >1000)

**Appendix C – Sample Soil Analytical Results Reports**  
City of Coquitlam RFP No. 14-05-05 – Excavated and Contaminated Soils

**Table 3: Soil Analytical Results (Spring/Summer)**

Sample ID	BC CSR Schedule 7	BC CSR Schedule 7	BC CSR Industrial Standard***	SP14-1-1	SP14-1-2	SP14-1-3	SP14-1-4	SP14-1-5	SP14-1-C	SP14-2-1	SP14-2-2	SP14-2-3	SP14-2-4
Lab Certificate	Column II*	Column III**	Standard***	14V857472	14V857472	14V857472	14V857472	14V857472	14V857472	14V857472	14V857472	14V857472	14V857472
Sampling Date				27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14
Soluble (2:1) pH				-	-	7.3	7.0	7.1	6.5	7.1	6.7	7	-
<b>Metals</b>													
Total Antimony (Sb)	20	20	40	-	-	0.2	0.2	0.2	0.2	0.9	0.8	0.8	-
Total Arsenic (As)	15	15	15	-	-	2	1.8	1.8	2	2.4	2.5	2.3	-
Total Barium (Ba)	400	400	400	-	-	32.1	38.1	38.8	42.9	72.4	74.5	88.9	-
Total Beryllium (Be)	4	4	8	-	-	0.2	0.2	0.2	0.2	0.3	0.2	0.2	-
Total Boron (Bo)	ns	2	ns	-	-	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	-
Total Cadmium (Cd)	1.5	1.5	1.5-150****	-	-	0.09	0.1	0.11	0.11	0.16	0.15	0.11	-
Total Chromium (Cr)	60	50	60	-	-	12	14	13	12	34	18	27	-
Total Cobalt (Co)	50	40	300	-	-	4.8	4.9	5.2	5.5	6.1	6.2	6.5	-
Total Copper (Cu)	90	90	90-250****	-	-	11.9	13.3	16.4	16.5	46.5	55.5	40.9	-
Total Iron (Fe)	ns	ns	ns	-	-	15600	17700	17600	18200	19700	19600	21500	-
Total Lead (Pb)	100	100	100-4000****	-	-	10	10.8	10.6	10.1	14.1	13.5	12.1	-
Total Lithium (Li)	ns	ns	20000	-	-	5.9	5.5	6	6.1	5.9	6.5	6.5	-
Total Magnesium (Mg)	ns	ns	ns	-	-	2960	3350	3610	3710	4500	4390	4520	-
Total Manganese (Mn)	ns	ns	19000	-	-	223	222	240	258	294	287	296	-
Total Mercury (Hg)	15	0.6	40	-	-	0.04	0.05	0.04	0.04	0.04	0.04	0.04	-
Total Molybdenum (Mo)	10	5	40	-	-	0.3	0.4	0.4	0.4	1.2	1	1.2	-
Total Nickel (Ni)	100	150	500	-	-	9	8.8	9.5	9.5	12.5	11.9	12.3	-
Total Selenium (Se)	3	2	10	-	-	0.2	0.5	0.5	0.4	0.5	0.3	0.3	-
Total Silver (Ag)	20	20	40	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Total Sodium (Na)	ns	ns	ns	-	-	199	256	294	306	467	449	447	-
Total Strontium (Sr)	ns	ns	100000	-	-	14	18	20	22	35	35	35	-
Total Thallium (Tl)	ns	2	ns	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
Total Tin (Sn)	50	5	300	-	-	0.3	0.4	0.4	0.6	1.2	1	1.9	-
Total Uranium (U)	ns	ns	200	-	-	0.3	0.4	0.3	0.4	0.4	0.4	0.4	-
Total Vanadium (V)	200	200	ns	-	-	37	42	42	43	46	46	52	-
Total Zinc (Zn)	150	150	150-600****	-	-	35	30	34	33	73	72	92	-
<b>Hydrocarbons</b>													
EPH (C10-C19)	1000	1000	2000	-	-	<20	56	44	77	22	56	30	-
EPH (C19-C32)	1000	1000	5000	-	-	85	210	181	266	244	367	279	-
<b>Soluble Sodium and Chloride</b>													
Chloride, Soluble	35	35	90	86	84	72	95	109	-	116	89	121	20
Sodium, Soluble	200	200	1000	70	178	62	71	76	-	93	109	97	34

**Notes**

CSR = Contaminated Sites Regulation

EPH = Extractable Petroleum Hydrocarbons

Values in ug/g unless otherwise stated

\* Relocation to nonagricultural land

\*\* Relocation to agricultural land

\*\*\*Standards provided in Schedules 4 and 5 of the BC Contaminated Sites Regulation.

Schedule 5 Site specific factors include intake of contaminated soil, toxicity to soil invertebrates and plants, groundwater used for drinking water and groundwater flow to surface water used by aquatic life (freshwater and marine).

\*\*\*\*Standard is pH dependent

**XXX.XX** = Exceeds Soil Relocation and/or Industrial Standards (Chloride<300)

**Appendix C – Sample Soil Analytical Results Reports**  
City of Coquitlam RFP No. 14-05-05 – Excavated and Contaminated Soils

**Table 3: Soil Analytical Results (Spring/Summer)**

Sample ID	BC CSR Schedule 7	BC CSR Schedule 7	BC CSR Industrial	SP14-2-5	SP14-2-C	SP14-3-1	SP14-3-2	SP14-3-3	SP14-3-4	SP14-3-5	SP14-3-C	Cell 1	Cell 2
Lab Certificate	Schedule 7	Schedule 7	Industrial	14V857472	14V857472	14V857472	14V857472	14V857472	14V857472	14V857472	14V857472	14V857472	14V857472
Sampling Date	Column II*	Column III**	Standard***	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14	27-Jun-14
Soluble (2:1) pH				-	6.6	7	7	-	-	7.3	6.8	7	6.9
<b>Metals</b>													
Total Antimony (Sb)	20	20	40	-	0.7	0.5	0.7	-	-	0.5	0.6	1	0.9
Total Arsenic (As)	15	15	15	-	2.4	1.6	1.7	-	-	1.2	1.9	3	2.8
Total Barium (Ba)	400	400	400	-	71.7	56.4	71.3	-	-	58.6	64.2	85.1	82.7
Total Beryllium (Be)	4	4	8	-	0.2	0.2	0.2	-	-	0.1	0.2	0.3	0.2
Total Boron (Bo)	ns	2	ns	-	0.1	0.1	<0.1	-	-	<0.1	<0.1	0.2	0.3
Total Cadmium (Cd)	1.5	1.5	1.5-150****	-	0.16	0.13	0.17	-	-	0.1	0.11	0.21	0.18
Total Chromium (Cr)	60	50	60	-	18	14	18	-	-	20	19	18	20
Total Cobalt (Co)	50	40	300	-	6.4	5.3	5.5	-	-	4.8	5.8	7.6	7.3
Total Copper (Cu)	90	90	90-250****	-	41.5	38.3	104	-	-	30.7	32.9	43.7	41.2
Total Iron (Fe)	ns	ns	ns	-	20700	18300	19000	-	-	18500	19700	22500	20900
Total Lead (Pb)	100	100	100-4000****	-	12.8	8.5	8.6	-	-	17.5	8.5	15.7	18.8
Total Lithium (Li)	ns	ns	20000	-	6.2	5.4	5.8	-	-	4.2	5.3	6.8	6.8
Total Magnesium (Mg)	ns	ns	ns	-	4290	4250	4490	-	-	4230	4330	4900	5010
Total Manganese (Mn)	ns	ns	19000	-	290	238	256	-	-	235	256	332	316
Total Mercury (Hg)	15	0.6	40	-	0.04	0.02	0.02	-	-	<0.01	0.02	0.04	0.03
Total Molybdenum (Mo)	10	5	40	-	0.9	0.6	1.5	-	-	21.6	1.1	1.1	1
Total Nickel (Ni)	100	150	500	-	11.6	9.7	12	-	-	7.6	11.2	12.7	12.7
Total Selenium (Se)	3	2	10	-	0.4	0.1	0.3	-	-	0.1	0.2	0.4	0.3
Total Silver (Ag)	20	20	40	-	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5
Total Sodium (Na)	ns	ns	ns	-	413	604	403	-	-	395	418	589	516
Total Strontium (Sr)	ns	ns	100000	-	34	30	30	-	-	34	33	38	42
Total Thallium (Tl)	ns	2	ns	-	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1
Total Tin (Sn)	50	5	300	-	1	0.6	1	-	-	0.8	1.8	1.3	1.3
Total Uranium (U)	ns	ns	200	-	0.4	0.3	0.3	-	-	0.7	0.3	0.5	0.5
Total Vanadium (V)	200	200	ns	-	48	46	45	-	-	44	50	50	49
Total Zinc (Zn)	150	150	150-600****	-	68	64	73	-	-	63	62	85	95
<b>Hydrocarbons</b>													
EPH (C10-C19)	1000	1000	2000	-	39	<20	23	-	-	31	<20	47	34
EPH (C19-C32)	1000	1000	5000	-	361	279	312	-	-	202	191	482	378
<b>Soluble Sodium and Chloride</b>													
Chloride, Soluble	35	35	90	14	-	211	60	77	37	10	-	176	135
Sodium, Soluble	200	200	1000	27	-	174	98	75	45	40	-	143	108

**Notes**

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Values in ug/g unless otherwise stated

\* Relocation to nonagricultural land

\*\* Relocation to agricultural land

\*\*\*Standards provided in Schedules 4 and 5 of the BC Contaminated Sites Regulation.

Schedule 5 Site specific factors include intake of contaminated soil, toxicity to soil invertebrates and plants, groundwater used for drinking water and groundwater flow to surface water used by aquatic life (freshwater and marine).

\*\*\*\*Standard is pH dependent

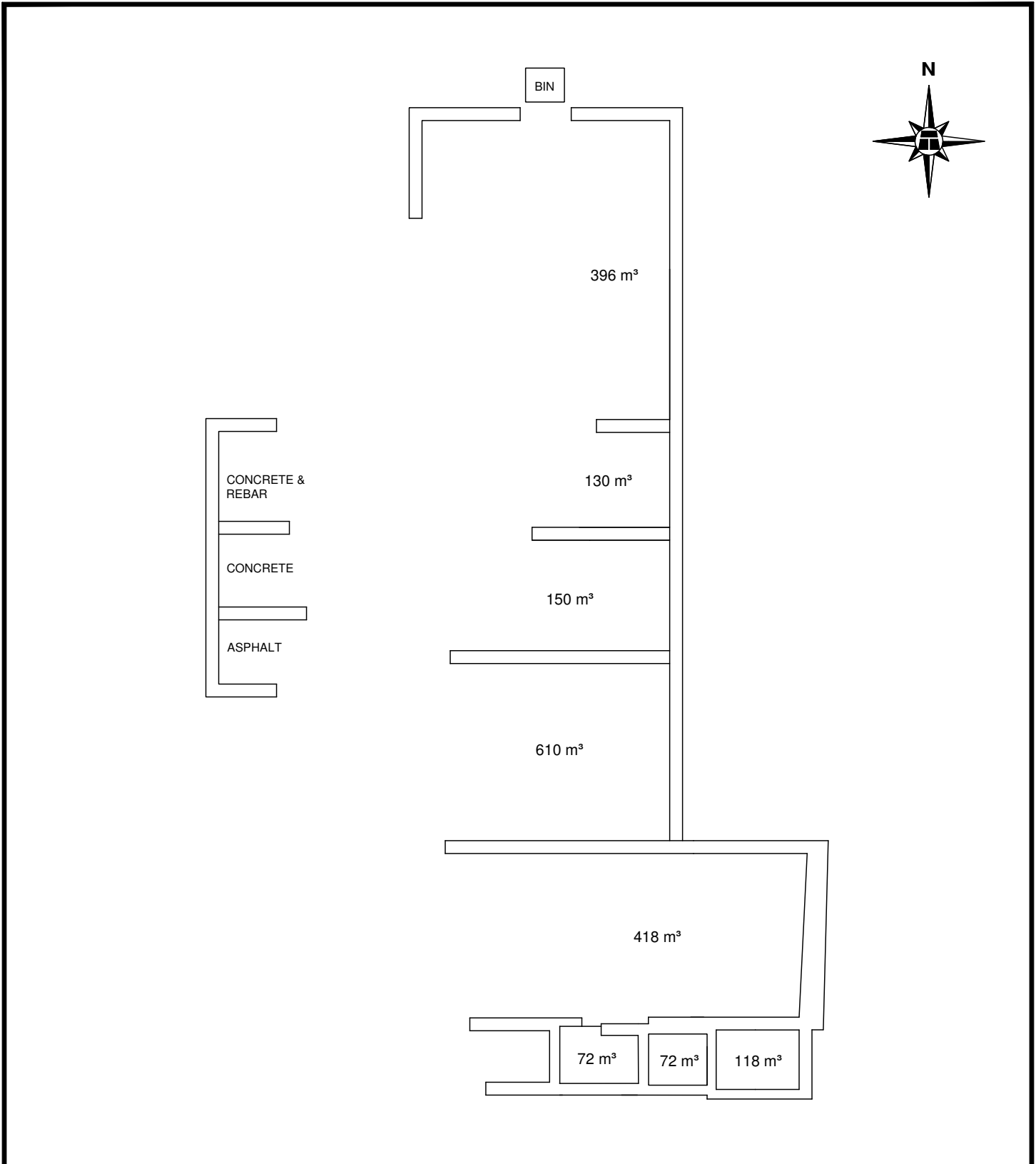
**XXX.XX** = Exceeds Soil Relocation and/or Industrial Standards (Chloride<300)

# **Appendix D**

## **Austin Street Spoils Site Layout**

Consisting of:


- **Drawing – Austin Street Spoils Site Layout**



CITY OF COQUITLAM

**AUSTIN STREET  
SPOIL SITE**

2647 AUSTIN AVENUE COQUITLAM, BC



**THURBER ENGINEERING LTD.**

ENGINEER: MCD	DRAWN: MCD	FILE NO. 14-46-55
DATE: OCT 2014	SCALE: NTS	FIGURE NO. 1