

INVITATION TO BID (ITB) NUMBER 2520C003

RETURN THIS BID TO THE ISSUING OFFICE AT:



Department of Transportation & PF
Division of Supply & Services
2200 E. 42nd Avenue, Room 110
Anchorage, Alaska 99508

THIS IS NOT AN ORDER

DATE ITB ISSUED: JUNE 17, 2019

ITB TITLE: TSAIA Fire Pit Water Removal

SEALED BIDS MUST BE SUBMITTED TO THE DOT&PF, ANCHORAGE PROCUREMENT OFFICE FROM WHICH THEY WERE ISSUED AND MUST BE TIME AND DATE STAMPED BY THE PROCUREMENT OFFICE PRIOR TO **10:00 AM ON June 27, 2019** AT WHICH TIME THEY WILL BE PUBLICLY OPENED.

LOCATION: SEE BID SCHEDULE
DELIVERY DATE: SEE BID SCHEDULE
F.O.B. POINT: FINAL DESTINATION

IMPORTANT NOTICE: If you received this solicitation from the State's "Online Public Notice" web site, you must register with the Procurement Officer listed on this document to receive notification of subsequent amendments. Failure to contact the Procurement Officer may result in the rejection of your offer.

BIDDER'S NOTICE: By signature on this form, the bidder certifies that:

- (1) the bidder has a valid Alaska business license, or will obtain one prior to award of any contract resulting from this ITB. If the bidder possesses a valid Alaska business license, the license number must be written below or one of the following forms of evidence must be submitted with the bid:
 - a canceled check for the business license fee;
 - a copy of the business license application with a receipt date stamp from the State's business license office;
 - a receipt from the State's business license office for the license fee;
 - a copy of the bidder's valid business license;
 - a sworn notarized affidavit that the bidder has applied and paid for a business license;
- (2) The price(s) submitted was arrived at independently and without collusion and that the bidder is complying with:
 - the laws of the State of Alaska;
 - the applicable portion of the Federal Civil Rights Act of 1964;
 - the Equal Employment Opportunity Act and the regulations issued there under by the State and Federal Government; and
 - all terms and conditions set out in this Invitation to Bid (ITB).

If a bidder fails to comply with (1) at the time designated in the ITB for opening the state will disallow the Alaska Bidder Preference. If a bidder fails to comply with (2) of this paragraph, the state may reject the bid, terminate the contract, or consider the contractor in default. Bids must be also submitted under the name as appearing on the bidder's current Alaska business license in order to receive the Alaska Bidder Preference.

FRANK COPPA
PROCUREMENT OFFICER

COMPANY SUBMITTING BID

*DOES YOUR BUSINESS QUALIFY FOR THE
ALASKA BIDDER PREFERENCE?
[] YES [] NO

TELEPHONE NUMBER
907-269-0858 Phone
907-269-0863 Fax
907-269-0473 TDD

AUTHORIZED SIGNATURE

*DOES YOUR BUSINESS QUALIFY FOR THE
ALASKA VETERAN PREFERENCE?
[] YES [] NO

frank.coppa@alaska.gov

PRINTED NAME

*SEE ITB FOR EXPLANATION OF CRITERIA
TO QUALIFY.

DATE

E-MAIL ADDRESS

ALASKA BUSINESS LICENSE NUMBER

FEDERAL TAX ID NUMBER

TELEPHONE NUMBER

INSTRUCTIONS TO BIDDERS:

1. INVITATION TO BID (ITB) REVIEW: Bidders shall carefully review this ITB for defects and questionable or objectionable material. Bidders' comments concerning defects and questionable or objectionable material in the ITB must be made in writing and received by the purchasing authority at least ten (10) days before the bid opening date. This will allow time for an amendment to be issued if one is required. It will also help prevent the opening of a defective bid, upon which award cannot be made, and the resultant exposure of bidders' prices. Bidders' original comments should be sent to the purchasing authority listed on the front of this ITB.

2. BID FORMS: Bidders shall use this and attached forms in submitting bids. A photocopied bid may be submitted.

3. SUBMITTING BIDS: Envelopes containing bids must be sealed, marked, and addressed as shown in the example below. Do not put the ITB number and opening date on the envelope of a request for bid information. Envelopes with ITB numbers annotated on the outside will not be opened until the scheduled date and time.

Bidder's Return Address:

Department Transportation & PF
2200 E. 42nd Avenue, Room 110
Anchorage, Alaska 99508

ITB No.: **2520C003**

Opening Date: **June 27, 2019 at 10:00 AM**

ELECTRONIC BID SUBMISSION: If sending electronically; bids must be emailed to joel.balzer@alaska.gov, no later than the date and time listed on page one of this ITB as the deadline for receipt of bids, and must contain the ITB number in the subject line of the email. Emailed bids must be submitted as an attachment in PDF format. Please note that the maximum size of a single email (including all text and attachments) that can be received by the state is 10mb (megabytes). If the email containing the bid exceeds this size, the bid must be sent in multiple emails that are each less than 10 megabytes and each email must comply with the requirements described above. The state is not responsible for unreadable, corrupt, or missing attachments. It is the bidder's responsibility to contact the issuing office at (907) 269-0867 or 269-0858 to confirm that the bid has been received. Failure to follow the above instructions may result in the bid being found non-responsive and rejected.

4. FAX BID SUBMISSION: If faxing a bid; send to **(907) 269-0872**, no later than the date and time listed on page one of this ITB as the deadline for receipt of bids. It is the bidder's responsibility to contact the issuing office at (907) 269-0867 or 269-0858 to make arrangements prior to faxing the bid and to confirm that the bid has been received. Failure to follow the above instructions may result in the bid being found non-responsive and rejected.

5. PRICES: The bidder shall state prices in the units of issue on this ITB. Prices quoted for commodities must be in U.S. funds and include applicable federal duty, brokerage fees, packaging, and transportation cost to the FOB point so that upon transfer of title the commodity can be utilized without further cost. Prices quoted for services must be quoted in U.S. funds and include applicable federal duty, brokerage fee, packaging, and transportation cost so that the services can be provided without further cost. Prices quoted in bids must be exclusive of federal, state, and local taxes. If the bidder believes that certain taxes are payable by the State, the bidder may list such taxes separately, directly below the bid price for the affected item. The State is exempt from Federal Excise Tax except the following:

- Coal - Internal Revenue Code of 1986 (IRC), Section 4121 - on the purchase of coal;
- "Gas Guzzler" - IRC, Section 4064 - on the purchase of low m.p.g. automobiles, except that police and other emergency type vehicles are not subject to the tax;
- Air Cargo - IRC, Section 4271 - on the purchase of property transportation services by air;
- Air Passenger - IRC, Section 4261 - on the purchase of passenger transportation services by air carriers.
- Leaking Underground Storage Tank Trust Fund Tax (LUST) - IRC, Section 4081 - on the purchase of Aviation gasoline, Diesel Fuel, Gasoline, and Kerosene.

6. VENDOR TAX ID NUMBER: If goods or services procured through this ITB are of a type that is required to be included on a Miscellaneous Tax Statement, as described in the Internal Revenue Code, a valid tax identification number must be provided to the State of Alaska before payment will be made.

7. FILING A PROTEST: A bidder may protest the award of a contract or the proposed award of a contract for supplies, services, or professional services. The protest must be filed in writing and include the following information: (1) the name, address, and telephone number of the protester; (2) the signature of the protester or the protester's representative; (3) identification of the contracting agency and the solicitation or contract at issue; (4) a detailed statement of the legal and factual grounds of the protest, including copies of relevant documents; and (5) the form of relief requested. Protests will be treated in accordance with Alaska Statutes (AS) 36.30.560-36.30.610.

CONDITIONS:

1. AUTHORITY: This ITB is written in accordance with AS 36.30 and 2 AAC 12.

2. COMPLIANCE: In the performance of a contract that results from this ITB, the contractor must comply with all applicable federal, state, and borough regulations, codes, and laws; be liable for all required insurance, licenses, permits and bonds; and pay all applicable federal, state, and borough taxes.

3. SUITABLE MATERIALS, ETC.: Unless otherwise specified, all materials, supplies or equipment offered by a bidder shall be new, unused, and of the latest edition, version, model or crop and of recent manufacture.

4. SPECIFICATIONS: Unless otherwise specified in the ITB, product brand names or model numbers specified in this ITB are examples of the type and quality of product required, and are not statements of preference. If the specifications describing an item conflict with a brand name or model number describing the item, the specifications govern. Reference to brand name or number does not preclude an offer of a comparable or better product, if full specifications and descriptive literature are provided for the product. Failure to provide such specifications and descriptive literature may be cause for rejection of the offer.

5. FIRM OFFER: For the purpose of award, offers made in accordance with this ITB must be good and firm for a period of ninety (90) days from the date of bid opening.

6. EXTENSION OF PRICES: In case of error in the extension of prices in the bid, the unit prices will govern; in a lot bid, the lot prices will govern.

7. BID PREPARATION COSTS: The State is not liable for any costs incurred by the bidder in bid preparation.

8. CONSOLIDATION OF AWARDS: Due to high administrative costs associated with processing of purchase orders, a single low bid of \$50 or less may, at the discretion of the State, be awarded to the next low bidder receiving other awards for consolidation purposes. This paragraph is not subject to the protest terms enumerated in *"INSTRUCTION TO BIDDERS"*, *"FILING A PROTEST"* above.

9. CONTRACT FUNDING: Bidders are advised that funds are available for the initial purchase and/or the first term of the contract. Payment and performance obligations for succeeding purchases and/or additional terms of the contract are subject to the availability and appropriation of funds.

10. CONFLICT OF INTEREST: An officer or employee of the State of Alaska may not seek to acquire, be a party to, or possess a financial interest in, this contract if (1) the officer or employee is an employee of the administrative unit that supervises the award of this contract; or (2) the officer or employee has the power to take or withhold official action so as to affect the award or execution of the contract.

11. ASSIGNMENT(S): Assignment of rights, duties, or payments under a contract resulting from this ITB is not permitted unless authorized in writing by the procurement officer of the contracting agency. Bids that are conditioned upon the State's approval of an assignment will be rejected as nonresponsive.

- 12. SUBCONTRACTOR(S):** Within five (5) working days of notice from the state, the apparent low bidder must submit a list of the subcontractors that will be used in the performance of the contract. The list must include the name of each subcontractor and the location of the place of business for each subcontractor and evidence of each subcontractor's valid Alaska business license.
- 13. FORCE MAJEURE** (Impossibility to perform): The parties to a contract resulting from this ITB are not liable for the consequences of any failure to perform, or default in performing, any of its obligations under the contract, if that failure or default is caused by any unforeseeable Force Majeure, beyond the control of, and without the fault or negligence of, the respective party. For the purposes of this ITB, Force Majeure will mean war (whether declared or not); revolution; invasion; insurrection; riot; civil commotion; sabotage; military or usurped power; lightning; explosion; fire; storm; drought; flood; earthquake; epidemic; quarantine; strikes; acts or restraints of governmental authorities affecting the project or directly or indirectly prohibiting or restricting the furnishing or use of materials or labor required; inability to secure materials, machinery, equipment or labor because of priority, allocation or other regulations of any governmental authorities.
- 14. LATE BIDS:** Late bids are bids received after the time and date set for receipt of the bids. Late bids will not be accepted.
- 15. CONTRACT EXTENSION:** Unless otherwise provided in this ITB, the State and the successful bidder/contractor agree: (1) that any holding over of the contract excluding any exercised renewal options, will be considered as a month-to-month extension, and all other terms and conditions shall remain in full force and effect and (2) to provide written notice to the other party of the intent to cancel such month-to-month extension at least thirty (30) days before the desired date of cancellation.
- 16. DEFAULT:** In case of default by the contractor, for any reason whatsoever, the State of Alaska may procure the goods or services from another source and hold the contractor responsible for any resulting excess cost and may seek other remedies under law or equity.
- 17. DISPUTES:** If a contractor has a claim arising in connection with a contract resulting from this ITB that it cannot resolve with the State by mutual agreement, it shall pursue a claim, if at all, in accordance with the provisions of AS 36.30.620 – 632.
- 18. CONSUMER ELECTRICAL PRODUCT:** AS 45.45.910 requires that "...a person may not sell, offer to sell, or otherwise transfer in the course of the person's business a consumer electrical product that is manufactured after August 14, 1990, unless the product is clearly marked as being listed by an approved third party certification program." Electrical consumer products manufactured before August 14, 1990, must either be clearly marked as being third party certified or be marked with a warning label that complies with AS 45.45.910(e). Even exempted electrical products must be marked with the warning label. By signature on this bid the bidder certifies that the product offered is in compliance with the law. A list of approved third party certifiers, warning labels and additional information is available from: Department of Labor and Workforce Development, Labor Standards & Safety Division, Mechanical Inspection Section, P.O. Box 107020, Anchorage, Alaska 99510-7020, (907)269-4925.
- 19. SEVERABILITY:** If any provision of the contract is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions will not be affected; and, the rights and obligations of the parties will be construed and enforced as if the contract did not contain the particular provision held to be invalid.
- 20. GOVERNING LAW; FORUM SELECTION:** A contract resulting from this ITB is governed by the laws of the State of Alaska. To the extent not otherwise governed by section 17 of these Standard Terms and Conditions, any claim concerning the contract shall be brought only in the Superior Court of the State of Alaska and not elsewhere.

SPECIAL CONDITIONS:

1.ORDER DOCUMENTS: Except as specifically allowed under this ITB, an ordering agency will not sign any vendor contract. The State is not bound by a vendor contract signed by a person who is not specifically authorized to sign for

the State under this ITB. The State of Alaska Purchase Order, Contract Award and Delivery Order are the only order documents that may be used to place orders against the contract(s) resulting from this ITB.

2. BILLING INSTRUCTIONS: Invoices must be billed to the ordering agency's address shown on the individual Purchase Order, Contract Award or Delivery Order, not to the Division of General Services. The ordering agency will make payment after it receives the merchandise or service and the invoice. Questions concerning payment must be addressed to the ordering agency.

3. CONTINUING OBLIGATION OF CONTRACTOR: Notwithstanding the expiration date of a contract resulting from this ITB, the contractor is obligated to fulfill its responsibilities until warranty, guarantee, maintenance and parts availability requirements have completely expired.

PREFERENCES:

1. ALASKA BIDDER PREFERENCE: Award will be made to the lowest responsive and responsible bidder after an Alaska bidder preference of five percent (5%) has been applied. The preference will be given to a person who: (1) holds a current Alaska business license at the time designated in the invitation to bid for bid opening; (2) submits a bid for goods or services under the name on the Alaska business license; (3) has maintained a place of business within the state staffed by the bidder, or an employee of the bidder, for a period of six months immediately preceding the date of the bid; (4) is incorporated or qualified to do business under the laws of the state, is a sole proprietorship and the proprietor is a resident of the state, is a limited liability company organized under AS 10.50 and all members are residents of the state, or is a partnership under AS 32.06 or AS 32.11 and all partners are residents of the state; and, (5) if a joint venture, is composed entirely of ventures that qualify under (1) - (4) of this subsection. AS 36.30.170, AS 36.30.321(a) and AS 36.30.990(2)

2. ALASKA VETERAN PREFERENCE: If a bidder qualifies for the Alaska bidder preference under AS 36.30.321(a) and AS 36.30.990(2) and is a qualifying entity as defined in AS 36.30.321(f), they will be awarded an Alaska veteran preference of five percent (5%). The preference will be given to a (1) sole proprietorship owned by an Alaska veteran; (2) partnership under AS 32.06 or AS 32.11 if a majority of the partners are Alaska veterans; (3) limited liability company organized under AS 10.50 if a majority of the members are Alaska veterans; or (4) corporation that is wholly owned by individuals and a majority of the individuals are Alaska veterans, and may not exceed \$5,000. The bidder must also add value by actually performing, controlling, managing, and supervising the services provided, or for supplies, the bidder must have sold supplies of the general nature solicited to other state agencies, other governments, or the general public - AS 36.30.321(i).

3. USE OF LOCAL FOREST PRODUCTS: In a project financed by state money in which the use of timber, lumber and manufactured lumber is required, only timber, lumber and manufactured lumber products originating in this state from Alaska forests shall be used unless the use of those products has been determined to be impractical, in accordance with AS 36.15.010 and AS 36.30.322.

4. LOCAL AGRICULTURAL AND FISHERIES PRODUCTS PREFERENCE: When agricultural, dairy, timber, lumber, or fisheries products are purchased using state money, a seven percent (7%) preference shall be applied to the price of the products harvested in Alaska, or in the case of fisheries products, the products harvested or processed within the jurisdiction of Alaska, in accordance with AS 36.15.050.

5. ALASKA PRODUCT PREFERENCE: A bidder that designates the use of an Alaska Product which meets the requirements of the ITB specification and is designated as a Class I, Class II or Class III Alaska Product by the Department of Community & Economic Development shall receive a preference in the bid evaluation in accordance with AS 36.30.332 and 3 AAC 92.010.

6. EMPLOYMENT PROGRAM PREFERENCE: If a bidder qualifies for the Alaska bidder preference under AS 36.30.321(a) and AS 36.30.990(2), and is offering goods or services through an employment program as defined under 36.30.990(12), they will be awarded an Employment Program Preference of fifteen percent (15%) in accordance with AS 36.30.321(b).

7. ALASKANS WITH DISABILITIES PREFERENCE: If a bidder qualifies for the Alaska bidder preference under AS 36.30.321(a) and AS 36.30.990(2), and is a qualifying entity as defined in AS 36.30.321(d), they will be awarded an Alaskans with Disabilities Preference of ten percent (10%) in accordance with AS 36.30.321(d). A bidder may not receive both an Employment Program Preference and an Alaskans with Disabilities Preference.

8. PREFERENCE QUALIFICATION LETTER: Regarding preferences 6 and 7 above, the Division of Vocational Rehabilitation in the Department of Labor and Workforce Development maintains lists of Alaskan; [1] employment programs that qualify for preference, and [2] individuals who qualify for preference as Alaskan's with disabilities. In accordance with AS 36.30.321(i), in order to qualify for one of these preferences, a bidder must add value by actually performing, controlling, managing, and supervising the services provided, or for supplies, a bidder must have sold supplies of the general nature solicited to other state agencies, governments, or the general public.

As evidence of an individual's or a business' right to a certain preference, the Division of Vocational Rehabilitation will issue a certification letter. To take advantage of the preferences 6 or 7 above, an individual or business must be on the appropriate Division of Vocational Rehabilitation list at the time the bid is opened, and must attach a copy of their certification letter to their bid. The bidder's failure to provide this certification letter with their bid will cause the State to disallow the preference.

ALASKA BUSINESS LICENSE AND OTHER REQUIRED LICENSES: Prior to the award of a contract, a bidder must hold a valid Alaska business license. However, in order to receive the Alaska Bidder Preference and other related preferences, such as the Alaska Veteran and Alaskans with Disabilities Preference, a bidder must hold a valid Alaska business license at the time designated for bid opening. Bidders should contact the Department of Commerce, Community and Economic Development, Division of Corporations, Business, and Professional Licensing for information on these licenses.

Website: <https://www.commerce.alaska.gov/web/cbpl/ProfessionalLicensing.aspx>

Phone: (907) 465-2550

Email: license@alaska.gov

Acceptable evidence that the bidder possesses a valid Alaska business license may consist of any one of the following:

- (a) copy of an Alaska business license;
- (b) certification on the bid that the bidder has a valid Alaska business license and has included the license number in the bid (see front page);
- (c) a canceled check for the Alaska business license fee;
- (d) a copy of the Alaska business license application with a receipt stamp from the state's occupational licensing office; or
- (e) a sworn and notarized statement that the bidder has applied and paid for the Alaska business license.

You are not required to hold a valid Alaska business license at the time bids are opened if you possess one of the following licenses and are offering services or supplies under that specific line of business:

- fisheries business licenses issued by Alaska Department of Revenue or Alaska Department of Fish and Game,
- liquor licenses issued by Alaska Department of Revenue for alcohol sales only,
- insurance licenses issued by Alaska Department of Commerce, Community and Economic Development, Division of Insurance, or
- Mining licenses issued by Alaska Department of Revenue.

At the time designated for bid opening, all bidders must hold any other necessary applicable professional licenses required by Alaska Statute.

ALASKA BIDDER PREFERENCE: An Alaska Bidder Preference of five percent will be applied prior to evaluation. The preference will be given to a bidder who:

- (1) holds a current Alaska business license at the time designated for bid opening;
- (2) submits a proposal for goods or services under the name appearing on the bidder's current Alaska business license;

- (3) has maintained a place of business within the state staffed by the bidder, or an employee of the bidder, for a period of six months immediately preceding the date of the bid;
- (4) is incorporated or qualified to do business under the laws of the state, is a sole proprietorship and the proprietor is a resident of the state, is a limited liability company (LLC) organized under AS 10.50 and all members are residents of the state, or is a partnership under AS 32.06 or AS 32.11 and all partners are residents of the state; and
- (5) if a joint venture, is composed entirely of ventures that qualify under (1)-(4) of this subsection.

Alaska Bidder Preference Statement

In order to receive the Alaska Bidder Preference, the bid must also include a statement certifying that the bidder is eligible to receive the Alaska Bidder Preference.

If the bidder is a LLC or partnership as identified in (4) of this subsection, the statement must also identify each member or partner and include a statement certifying that all members or partners are residents of the state.

If the bidder is a joint venture which includes a LLC or partnership as identified in (4) of this subsection, the statement must also identify each member or partner of each LLC or partnership that is included in the joint venture and include a statement certifying that all of those members or partners are residents of the state.

BIDDERS WITH DISABILITIES: The State of Alaska complies with Title II of the Americans with Disabilities Act of 1990. Individuals with disabilities who may need auxiliary aids, services, and/or special modifications to participate in this procurement should contact the Division of Supply & Services at one of the following numbers no later than ten (10) days to make any necessary arrangements.

Telephone: 269-0858
Fax: 269-0872
TDD: 269-0473

COMPLIANCE WITH ADA: By signature of their bid the bidder certifies that they comply with the Americans with Disabilities Act of 1990 and the regulations issued thereunder by the federal government.

Services or activities furnished to the general public on behalf of the state must be fully accessible. This is intended to ensure that agencies are in accordance with 28 CFR Part 35 Section 35.130 and that services, programs or activities furnished to the public through a contract do not subject qualified individuals with a disability to discrimination based on the disability.

PREFERENCE QUALIFICATION: In order to qualify for an Alaska Veterans Preference, Employment Program Preference, or Alaskans with Disabilities Preference, a bidder must add value by actually performing, controlling, managing, and supervising the services provided, or a bidder must have sold supplies of the general nature solicited to other state agencies, governments, or the general public.

CONTRACT PERFORMANCE LOCATION: By signature on their bid, the bidder certifies that all services provided under this contract by the contractor and all subcontractors shall be performed in the United States.

If the bidder cannot certify that all work will be performed in the United States, the bidder must contact the procurement officer in writing to request a waiver at least 10 days prior to the deadline for receipt of bids.

The request must include a detailed description of the portion of work that will be performed outside the United States, where, by whom, and the reason the waiver is necessary.

Failure to comply with these requirements may cause the state to reject the bid as non-responsive, or cancel the contract.

HUMAN TRAFFICKING: By signature on their bid, the bidder certifies that the bidder is not established and headquartered or incorporated and headquartered in a country recognized as Tier 3 in the most recent United States Department of State's Trafficking in Persons Report.

The most recent United States Department of State's Trafficking in Persons Report can be found at the following website: <http://www.state.gov/g/tip/>

Failure to comply with this requirement will cause the state to reject the bid as non-responsive, or cancel the contract

CONTRACT INTENT: This invitation to Bid (ITB) is intended to result in removal and disposal of the fire pit water to include treatment services for the Ted Stevens Anchorage International Airport.

PREBID SITE VISIT: There will be a pre-bid site visit on June 20, 2019, beginning at 1:00 PM located at *5501 Captain Hill Court at the Kulis Hanger in Anchorage, Alaska 99502*. Parking spaces marked for visitor parking are available and transportation to the actual fire pit will be provided. The conference may length is estimated to last one (1) hour depending on discussion of individual provisions. Participants should read the ITB and come to the meeting prepared to discuss any concerns. This will be a site visit at the actual site of water removal and potential bidders are strongly encouraged to attend.

NOTICE OF INTENT TO AWARD: After the responses to this ITB have been opened and evaluated, a tabulation of the bids will be prepared. This tabulation, called a Notice of Intent to Award, serves two purposes. It lists the name of each company or person that offered a bid and the price they bid. It also provides notice of the state's intent to award a contract(s) to the bidder(s) indicated. A copy of the Notice of Intent will be mailed to each company or person who responded to the ITB. Bidders identified as the apparent low responsive bidders are instructed not to proceed until a Purchase Order, Contract Award, Lease, or some other form of written notice is given by the contracting officer. A company or person who proceeds prior to receiving a Purchase Order, Contract Award, Lease, or some other form of written notice from the contracting officer does so without a contract and at their own risk.

PAYMENT FOR STATE PURCHASES: Payment for agreements under \$500,000 for the undisputed purchase of goods or services provided to a state agency, will be made within 30 days of the receipt of a proper billing or the delivery of the goods or services to the location(s) specified in the agreement, whichever is later. A late payment is subject to 1.5% interest per month on the unpaid balance. Interest

will not be paid if there is a dispute or if there is an agreement that establishes a lower interest rate or precludes the charging of interest.

Prompt Payment For State Purchases

The state is eligible to receive a 5% discount for all invoices paid within 15 business days from the date of receipt of the commodities or services and/or a correct invoice, whichever is later. The discount shall be taken on the full invoice amount. The state shall consider payment being made as either the date a printed warrant is issued or the date an electronic funds transfer (EFT) is initiated.

CONTRACT ADMINISTRATION: The administration of this contract is the responsibility of Frank Coppa (procurement officer) and/or by Scott Lytle, (project manager), Department of Transportation.

SHIPPING DAMAGE: The state will not accept or pay for damaged goods. The contractor must file all claims against the carrier(s) for damages incurred to items in transit from the point of origin to the ultimate destination. The state will provide the contractor with written notice when damaged goods are received. The state will deduct the cost of the damaged goods from the invoice prior to payment. The contractor must file all claims against the carrier(s) for reimbursement of the loss.

INDEMNIFICATION: The contractor shall indemnify, hold harmless, and defend the contracting agency from and against any claim of, or liability for error, omission or negligent act of the contractor under this agreement. The contractor shall not be required to indemnify the contracting agency for a claim of, or liability for, the independent negligence of the contracting agency. If there is a claim of, or liability for, the joint negligent error or omission of the contractor and the independent negligence of the Contracting agency, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Contractor" and "Contracting agency", as used within this and the following article, include the employees, agents and other contractors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the Contracting agency's selection, administration, monitoring, or controlling of the contractor and in approving or accepting the contractor's work.

INSURANCE: Without limiting contractor's indemnification, it is agreed that contractor shall purchase at its own expense and maintain in force at all times during the performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the contractor's policy contains higher limits, the state shall be entitled to coverage to the extent of such higher limits. Certificates of Insurance must be furnished to the contracting officer prior to beginning work and must provide for a notice of cancellation, non-renewal, or material change of conditions in accordance with policy provisions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the contractor's services. All insurance policies shall comply with, and be issued by insurers licensed to transact the business of insurance under AS 21.

Proof of insurance is required for the following:

Workers' Compensation Insurance: The contractor shall provide and maintain, for all employees engaged in work under this contract, coverage as required by AS 23.30.045, and; where applicable, any other statutory obligations including but not limited to Federal U.S.L. & H. and Jones Act requirements. The policy must waive subrogation against the state.

Commercial General Liability Insurance: covering all business premises and operations used by the contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per occurrence.

Commercial Automobile Liability Insurance: covering all vehicles used by the contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per occurrence.

Failure to supply satisfactory proof of insurance within the time required will cause the state to declare the bidder non-responsive and to reject the bid.

ANNOTATED LITERATURE: Bidders must annotate their product literature to identify for the state the location of the supporting information regarding each product specification set out in this ITB. A bidder's failure to comply with this clause, within the time set by the state, will cause the state to consider the offer non-responsive and reject the bid.

SUPPORTING INFORMATION: The state strongly desires that bidders submit all required technical, specification, and other supporting information with their bid, so that a detailed analysis and determination can be made by the contracting officer that the product offered meets the ITB specifications and that other requirements of the ITB have been met. However, provided a bid meets the requirements for a definite, firm, unqualified, and unconditional offer, the state reserves the right to request supplemental information from the bidder, after the bids have been opened, to ensure that the products offered completely meet the ITB requirements. The requirement for such supplemental information will be at the reasonable discretion of the state and may include the requirement that a bidder will provide a sample product(s) so that the state can make a first-hand examination and determination.

A bidder's failure to provide this supplemental information or the product sample(s), within the time set by the state, will cause the state to consider the offer non-responsive and reject the bid.

FIRM, UNQUALIFIED AND UNCONDITIONAL OFFER: Bidders must provide enough information with their bid to constitute a definite, firm, unqualified and unconditional offer. To be responsive a bid must constitute a definite, firm, unqualified and unconditional offer to meet all of the material terms of the ITB. Material terms are those that could affect the price, quantity, quality, or delivery. Also included as material terms are those which are clearly identified in the ITB and which, for reasons of policy, must be complied with at risk of bid rejection for non-responsiveness.

NONDISCLOSURE AND CONFIDENTIALITY: Contractor agrees that all confidential information shall be used only for purposes of providing the deliverables and performing the services specified herein and shall not disseminate or allow dissemination of confidential information except as provided for in this section. The contractor shall hold as confidential and will use reasonable care (including both facility physical security and electronic security) to prevent unauthorized access by, storage, disclosure, publication, dissemination to and/or use by third parties of, the confidential information. "Reasonable care" means compliance by the contractor with all applicable federal and state law, including the Social Security Act and HIPAA. The contractor must promptly notify the state in writing if it becomes aware of any storage, disclosure, loss, unauthorized access to or use of the confidential information.

Confidential information, as used herein, means any data, files, software, information or materials (whether prepared by the state or its agents or advisors) in oral, electronic, tangible or intangible form and however stored, compiled or memorialized that is classified confidential as defined by State of Alaska classification and categorization guidelines (i) provided by the state to the contractor or a contractor agent or otherwise made available to the contractor or a contractor agent in connection with this contract, or (ii) acquired, obtained or learned by the contractor or a contractor agent in the performance of this contract. Examples of confidential information include, but are not limited to: technology infrastructure, architecture, financial data, trade secrets, equipment specifications, user lists, passwords, research data, and technology data (infrastructure, architecture, operating systems, security tools, IP addresses, etc).

If confidential information is requested to be disclosed by the contractor pursuant to a request received by a third party and such disclosure of the confidential information is required under applicable state or federal law, regulation, governmental or regulatory authority, the contractor may disclose the confidential information after providing the state with written notice of the requested disclosure (to the extent such notice to the state is permitted by applicable law) and giving the state opportunity to review the request. If the contractor receives no objection from the state, it may release the confidential information within 30 days. Notice of the requested disclosure of confidential information by the contractor must be provided to the state within a reasonable time after the contractor's receipt of notice of the requested disclosure and, upon request of the state, shall seek to obtain legal protection from the release of the confidential information.

The following information shall not be considered confidential information: information previously known to be public information when received from the other party; information freely available to the general public; information which now is or hereafter becomes publicly known by other than a breach of confidentiality hereof; or information which is disclosed by a party pursuant to subpoena or other legal process and which as a result becomes lawfully obtainable by the general public.

CONTRACT PERIOD: From date of award through August 15, 2019.

CONTRACT PRICES: Contract prices are to remain firm through the duration the contract(s) and the extension or renewal of the contract(s). Renewals are to be exercised solely by the state.

PRICE DECREASES: During the period of the contract all price decreases experienced by the contractor must be passed on to the state. A contractor's failure to strictly and faithfully adhere to this clause, within the time required, will be considered in breach of contract.

ALTERATIONS: The contractor must obtain the written approval from the contracting officer prior to making any alterations to the specifications contained in this ITB. The state will not pay for alterations that are not approved in advance and in writing by the contracting officer.

DELIVERY: Indicate, in the space provided under "Bid Schedule", the time required to make delivery after the receipt of an order.

SITE INSPECTION: Bidders are encouraged to visit the work site so that they can see the conditions under which the work described in this ITB will be performed. The bidder's failure to visit the work site will in no way relieve the bidder of the responsibility of performing the work in strict compliance with the true intent and meaning of the terms, conditions and specifications of this ITB. The site may be

inspected by attending the pre-bid site visit scheduled. Interested bidders are strongly encouraged to attend the pre-bid site visit scheduled.

Any questions the bidders have must be directed to the procurement officer named on the front page of this ITB.

INVOICES: Invoices must be sent directly to the ordering agency's address shown on the individual Purchase Order, Contract Award or Delivery Order. The ordering agency will only make payment after it receives the merchandise or service and the invoice. Question concerning payment must be addressed to the ordering agency.

THIRD-PARTY FINANCING AGREEMENTS NOT ALLOWED: Because of the additional administrative and accounting time required of state agencies when third party financing agreements are permitted, they will not be allowed under this contract.

ESTIMATED QUANTITIES: The quantities referenced in this ITB are the state's estimated requirements and may vary more or less from the quantities actually purchased.

WORKMANSHIP & MATERIALS: All work must be performed in a thorough and workmanlike manner and in accordance with current industry practices. The contractor will be held responsible for the quality of the service, maintenance and inspections. Service, maintenance and inspections that are improperly done will be done over, by the contractor, at the contractor's risk and expense.

CONTRACT CANCELLATION: The state reserves the right to cancel the contract at its convenience upon 30 calendar days written notice to the contractor. The state is liable only for payment in accordance with the payment provisions of this contract for services or supplies provided before the effective date of termination.

METHOD OF AWARD: Award will be made by lot, there is one lot, to the lowest responsive and responsible bidder. In order to be considered responsive, bidders must bid on all items.

SPECIFICATIONS

ANC Fire Pit water removal, treatment, and disposal.

Scope of work. Remove water from the fire training pit at Anchorage International Airport to prepare pit for annual fire fighter training. Remove a minimum of 40,000 gallons of water with an upper limit of 70,000 gallons. Amounts above 40,000 gallons will be in measure in minimum 100 gallon increments. The water has PFAS chemicals in it. It may also contain residue jet-A fuel and combustion products from previous training events. Attached is lab results from this fall prior to freeze up of PFAS levels in pit water.

The contractor is responsible for following all laws for proper transport and disposal of the water. As part of bid, must submit description of any processing or treatment of the water (state chosen treatment the PFAS water, e.g., with granulated activated carbon (GAC), anion exchange resin or high pressure membrane unit). In addition, must state where treated water will be disposed. Description must include regulatory or facility limits on accepting PFAS waste, treated water, and/or other waste.

Contractor is responsible for all necessary equipment, personnel, testing and supplies to remove water from the pit, transport and dispose. Contractor will test water by an approved laboratory via Method 537. Samples will be collected by a qualified environmental professional BEFORE and AFTER treatment to determine the pretreatment levels and the post treatment levels meet approved discharge levels.

The pit is located on the south side of the airport within the secured area. Contractor will not need to obtain an airport badge. Airport will escort the contractor to and from the fire pit through the gate located at the former Kulis Air National Guard Base. Route shown on attached drawing. Escort is available between 8 am to 4:30 pm, M-F, excluding state holidays. Escort must be arranged at least 2 business days prior.

Water must be removed from the pit by 4:30 pm on August 15, 2019. Start date can be any time that water is thawed. The fire pit is usually ice free by April 15th but may vary based on actual weather and temperatures. Water removal can happen over multiple days. Cost per gallon price will include all charges and fees.

Bids: Cost per gallon.

See Attachments:

- A) PFAS Test results.
- B) Route and location of fire pit.
- C) Photos of Fire pit.

BID SCHEDULE

ITEM NO.	EST QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1.	40,000	GALLONS	Water Removal and Disposal	\$_____	\$_____

Guaranteed to be completed by: August 15, 2019.

ORDERING ADDRESS:

Contact: _____

Phone: _____

Kenton Curtis
AK DOT-PF Anch Intl Airport
4100 Aircraft Drive
Anchorage, AK 99502

Results via Engage

Work Order:	1186238
	Fire Pit Sampling
Client:	AK DOT-PF Anch Intl Airport
Report Date:	December 03, 2018

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. If you have any questions regarding this report, or if we can be of any other assistance, please contact your SGS Project Manager at 907-562-2343. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO 17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities. The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCC/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.
All DRO/RRO analyses are integrated per SOP.

SGS NORTH AMERICA INC. CHAIN OF CUSTODY RECORD

off

<http://www.sqs.com/terms-and-conditions>

F101_eCOC_Revised_2015-8-28



e-Sample Receipt Form

SGS Workorder #:

1186238



1 1 8 6 2 3 8

Review Criteria		Condition (Yes, No, N/A)	Exceptions Noted below	
Chain of Custody / Temperature Requirements			n/a	Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location?		n/a	hand delivered	
COC accompanied samples?		yes		
yes**Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		n/a	Cooler ID:	@ °C Therm. ID:
Temperature blank compliant* (i.e., 0-6 °C after CF)?			Cooler ID:	@ °C Therm. ID:
			Cooler ID:	@ °C Therm. ID:
			Cooler ID:	@ °C Therm. ID:
			Cooler ID:	@ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?		yes		
If <0°C, were sample containers ice free?		n/a		
If samples received <u>without</u> a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "COOLER TEMP" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".				
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.				
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.		
Were samples received within holding time?		yes		
Do samples match COC ** (i.e., sample IDs, dates/times collected)?		yes		
**Note: If times differ <1hr, record details & login per COC.				
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)		yes		
Were proper containers (type/mass/volume/preservative***) used?		yes	n/a	***Exemption permitted for metals (e.g. 200.8/6020A).
Volatile / LL-Hg Requirements				
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?		n/a		
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?		n/a		
Were all soil VOAs field extracted with MeOH+BFB?		n/a		
Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.				
Additional notes (if applicable):				

Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>	<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>
1186238001-A	No Preservative Required	OK			
1186238001-B	No Preservative Required	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

SGS North America, Inc

1186238

SGS Job Number: FA59104

Sampling Date: 11/01/18

Report to:

SGS North America, Inc
200 W Potter Dr
Anchorage, AK 99518
julie.shumway@sgs.com

ATTN: Julie Shumway

Total number of pages in report: 22



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.

Test results relate only to samples analyzed.

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Sample Summary

SGS North America, Inc
1186238

Job No: FA59104

Sample Number	Collected		Matrix Code	Type	Client Sample ID
	Date	Time By			
FA59104-1	11/01/18	14:45 JS	11/06/18	AQ Water	FIRE PIT

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS North America, Inc

Job No FA59104

Site: 1186238

Report Date 11/30/2018 1:10:03

2

1 Sample was collected on 11/01/2018 and received at SGS North America Inc - Orlando on 11/06/2018 properly preserved, at 4.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA59104. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Semi-Volatiles By Method EPA 537M BY ID

Matrix: AQ

Batch ID: OP72662

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) FA59104-1MS were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for 8:2 Fluorotelomer sulfonate, Perfluorodecanesulfonic acid, Perfluorononanesulfonic acid are outside control limits.

Matrix Spike Recovery(s) for 6:2 Fluorotelomer sulfonate, 8:2 Fluorotelomer sulfonate, Perfluoroheptanoic acid, Perfluorohexanesulfonic acid, Perfluorohexanoic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid, Perfluoropentanoic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Sample(s) FA59104-1 have surrogates outside control limits.

Sample(s) FA59104-1 are outside limits due to dilution.

FA59104-1 for 8:2 Fluorotelomer sulfonate: Associated BS recovery outside control limits. Insufficient sample for

FA59104-1 for Perfluorodecanesulfonic acid: Associated BS recovery outside control limits. Insufficient sample for re-extraction.

FA59104-1 for Perfluorononanesulfonic acid: Associated BS recovery outside control limits. Insufficient sample for re-extraction.

FA59104-1 for 13C2-6:2FTS: Outside control limits.

FA59104-1 for 13C2-6:2FTS: Outside control limits due to dilution.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Ariel Hartney, Client Services (Signature on File)

Summary of Hits

Page 1 of 1

Job Number: FA59104
Account: SGS North America, Inc
Project: 1186238
Collected: 11/01/18



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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FA59104-1 FIRE PIT

Perfluorobutanoic acid	12.5	3.8	0.96	ug/l	EPA 537M BY ID
Perfluoropentanoic acid	192	1.9	0.72	ug/l	EPA 537M BY ID
Perfluorohexanoic acid	365	9.6	2.4	ug/l	EPA 537M BY ID
Perfluoroheptanoic acid	44.7	1.9	0.48	ug/l	EPA 537M BY ID
Perfluorooctanoic acid	56.0	1.9	0.48	ug/l	EPA 537M BY ID
Perfluorononanoic acid	5.29	1.9	0.48	ug/l	EPA 537M BY ID
Perfluorodecanoic acid	2.29	1.9	0.48	ug/l	EPA 537M BY ID
Perfluorobutanesulfonic acid	3.36	1.9	0.48	ug/l	EPA 537M BY ID
Perfluoropentanesulfonic acid	3.63	1.9	0.48	ug/l	EPA 537M BY ID
Perfluorohexanesulfonic acid	37.8	1.9	0.48	ug/l	EPA 537M BY ID
Perfluoroheptanesulfonic acid	3.46	1.9	0.48	ug/l	EPA 537M BY ID
Perfluorooctanesulfonic acid	268	9.6	3.6	ug/l	EPA 537M BY ID
4:2 Fluorotelomer sulfonate	6.28	3.8	0.96	ug/l	EPA 537M BY ID
6:2 Fluorotelomer sulfonate	3540	150	38	ug/l	EPA 537M BY ID
8:2 Fluorotelomer sulfonate ^a	80.4	3.8	0.96	ug/l	EPA 537M BY ID

(a) Associated BS recovery outside control limits. Insufficient sample for re-extraction.



Orlando, FL

Section 4

4

Sample Results

Report of Analysis



Report of Analysis

Client Sample ID:	FIRE PIT	Date Sampled:	11/01/18
Lab Sample ID:	FA59104-1	Date Received:	11/06/18
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	EPA 537M BY ID EPA 537 MOD		
Project:	1186238		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q55849.D	500	11/19/18 19:23	NAF	11/15/18 13:00	OP72662	SQ1280
Run #2	Q55850.D	2500	11/19/18 19:41	NAF	11/15/18 13:00	OP72662	SQ1280
Run #3	Q55917.D	20000	11/20/18 15:54	NAF	11/15/18 13:00	OP72662	SQ1281

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2	260 ml	1.0 ml
Run #3	260 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYLCARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	12.5	3.8	0.96	ug/l	
2706-90-3	Perfluoropentanoic acid	192	1.9	0.72	ug/l	
307-24-4	Perfluorohexanoic acid	365 ^a	9.6	2.4	ug/l	
375-85-9	Perfluoroheptanoic acid	44.7	1.9	0.48	ug/l	
335-67-1	Perfluorooctanoic acid	56.0	1.9	0.48	ug/l	
375-95-1	Perfluorononanoic acid	5.29	1.9	0.48	ug/l	
335-76-2	Perfluorodecanoic acid	2.29	1.9	0.48	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	1.9	0.48	ug/l	
307-55-1	Perfluorododecanoic acid	ND	1.9	0.72	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	1.9	0.48	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	1.9	0.48	ug/l	

PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	3.36	1.9	0.48	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	3.63	1.9	0.48	ug/l	
355-46-4	Perfluorohexanesulfonic acid	37.8	1.9	0.48	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	3.46	1.9	0.48	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	268 ^a	9.6	3.6	ug/l	
68259-12-1	Perfluorononanesulfonic acid ^b	ND	1.9	0.48	ug/l	
335-77-3	Perfluorodecanesulfonic acid ^b	ND	1.9	0.48	ug/l	

PERFLUOROCTANESULFONAMIDES

754-91-6	PFOSA	ND	1.9	0.48	ug/l	
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PERFLUOROCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	9.6	1.9	ug/l	
2991-50-6	EtFOSAA	ND	9.6	1.9	ug/l	

FLUOROTELOMER SULFONATES

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIRE PIT	Date Sampled:	11/01/18
Lab Sample ID:	FA59104-1	Date Received:	11/06/18
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	EPA 537M BY ID EPA 537 MOD		
Project:	1186238		

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
757124-72-4	4:2 Fluorotelomer sulfonate	6.28	3.8	0.96	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	3540 ^c	150	38	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate ^b	80.4	3.8	0.96	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Run# 3	Limits
	13C4-PFBA	103%	106%	86%	30-140%
	13C5-PFPeA	97%	104%	86%	40-140%
	13C5-PFHxA	94%	107%	92%	50-150%
	13C4-PFHpA	102%	110%	98%	50-150%
	13C8-PFOA	87%	108%	99%	50-150%
	13C9-PFNA	109%	112%	100%	50-150%
	13C6-PFDA	112%	119%	106%	50-150%
	13C7-PFUnDA	109%	113%	108%	50-150%
	13C2-PFDoDA	108%	112%	103%	50-150%
	13C2-PFTeDA	108%	111%	98%	40-150%
	13C3-PFBS	98%	106%	94%	50-150%
	13C3-PFHxS	99%	102%	92%	50-150%
	13C8-PFOS	96%	105%	92%	50-150%
	13C8-FOSA	115%	118%	106%	30-140%
	d3-MeFOSAA	112%	114%	105%	50-150%
	13C2-4:2FTS	101%	103%	91%	50-150%
	13C2-6:2FTS	423% ^d	181% ^e	113%	50-150%
	13C2-8:2FTS	118%	104%	117%	50-150%

(a) Result is from Run# 2

(b) Associated BS recovery outside control limits. Insufficient sample for re-extraction.

(c) Result is from Run# 3

(d) Outside control limits.

(e) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



SGS North America Inc.
CHAIN OF CUSTODY RECORD

FA59104



Locations Nationwide

Alaska Florida
New Jersey Colorado
Texas North Carolina
Virginia Louisiana

www.us.sgs.com

CLIENT: SGS North America Inc. - Alaska Division					SGS Reference: SGS, FL					Page 1 of 1				
CONTACT: Julie Shumway PHONE NO: (907) 562-2343					Additional Comments: All soils report out in dry weight unless otherwise requested.									
PROJECT NAME: 1186238 PWSID#: NPDL#: E-MAIL: Julie.Shumway@sgs.com														
REPORTS TO: E-MAIL: Julie.Shumway@sgs.com														
INVOICE TO: QUOTE #: 1186238														
SGS - Alaska P.O. #: 1186238														
RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/MATRIX	#	Preservative Used:	TYPE	C = COMP G = GRAB Multi Incremental Soils	PFC Full List	MS	MSD	SGS lab #	Location ID	
①	Fire Pit	11/1/2018	14:45	water	2	G =	X					1186238001		
Relinquished By: (1) <i>[Signature]</i> Date: 11/5/18 Time: 0959 Received By: <i>[Signature]</i> DOD Project? NO Report to DL (J Flags)? NO Data Deliverable Requirements: Level 2 Report														
Relinquished By: (2) <i>[Signature]</i> Date: Date: Time: Received By: Requested Turnaround Time and/or Special Instructions: Report all analyses for Soils/Waters in mg/L or mg/Kg, where possible														
Relinquished By: (3) Date: Time: Received By: Temp Blank °C: 7.6 Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT														
Relinquished By: (4) Date: Time: Received For Laboratory By: <i>[Signature]</i> 11/16/18 or Ambient []														

[X] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
[] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms_and_conditions.htm

1186238_PFC_11.01.18.xls

FA59104: Chain of Custody

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SGS Sample Receipt Summary

Job Number: FA59104

Client: SGS

Project: 1186238

Date / Time Received: 11/6/2018 10:00:00 AM

Delivery Method: UPS

Airbill #'s: 1za8619w0167330846

Therm ID: IR 1;

Therm CF: -0.2;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (4.8);

Cooler Temps (Corrected) °C: Cooler 1: (4.6);

Cooler Information

Y or N

1. Custody Seals Present ☒ ☐
2. Custody Seals Intact ☒ ☐
3. Temp criteria achieved ☒ ☐
4. Cooler temp verification IR Gun
5. Cooler media Ice (Bag)

Trip Blank Information

Y or N N/A

1. Trip Blank present / cooler ☐ ☐ ☒
 2. Trip Blank listed on COC ☐ ☐ ☒
- W or S N/A
3. Type Of TB Received ☐ ☐ ☒

Sample Information

Y or N N/A

1. Sample labels present on bottles ☒ ☐
2. Samples preserved properly ☒ ☐
3. Sufficient volume/containers recvd for analysis: ☒ ☐
4. Condition of sample Intact
5. Sample recvd within HT ☒ ☐
6. Dates/Times/IDs on COC match Sample Label ☒ ☐
7. VOCs have headspace ☐ ☐ ☒
8. Bottles received for unspecified tests ☐ ☒ ☐
9. Compositing instructions clear ☐ ☐ ☒
10. Voa Soil Kits/Jars received past 48hrs? ☐ ☐ ☒
11. % Solids Jar received? ☐ ☐ ☒
12. Residual Chlorine Present? ☐ ☐ ☒

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____

Test Strip Lot #: pH 0-3 230315

Residual Chlorine Test Strip Lot #: _____

Number of 5035 Field Kits: _____

pH 10-12 219813A

Number of Lab Filtered Metals: _____

Other: (Specify) _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP

Date: 11/6/2018 10:00:00 A

Reviewer: _____

Date: _____

FA59104: Chain of Custody

Page 2 of 2

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Instrument Blank

Page 1 of 2

Job Number: FA59104
Account: SGS/KA SGS North America, Inc
Project: 1186238

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
SQ1280-IBLK	Q55833.D	1	11/19/18	NAF	n/a	n/a	SQ1280

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

FA59104-1

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.0015	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.0015	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0040	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.0015	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.020	0.0040	ug/l	
2991-50-6	EtFOSAA	ND	0.020	0.0040	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	105% 30-140%
	13C5-PFPeA	104% 40-140%
	13C5-PFHxA	107% 50-150%
	13C4-PFHpA	106% 50-150%
	13C8-PFOA	108% 50-150%
	13C9-PFNA	107% 50-150%
	13C6-PFDA	110% 50-150%
	13C7-PFUnDA	104% 50-150%
	13C2-PFDoDA	102% 50-150%

Instrument Blank

Job Number: FA59104
Account: SGS/KA SGS North America, Inc
Project: 1186238

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
SQ1280-IBLK	Q55833.D	1	11/19/18	NAF	n/a	n/a	SQ1280

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

FA59104-1

CAS No.	ID Standard Recoveries	Limits
	13C2-PFTeDA	105% 40-150%
	13C3-PFBS	105% 50-150%
	13C3-PFHxS	105% 50-150%
	13C8-PFOS	103% 50-150%
	13C8-FOSA	116% 30-140%
	d3-MeFOSAA	101% 50-150%
	13C2-6:2FTS	96% 50-150%
	13C2-8:2FTS	103% 50-150%

Instrument Blank

Job Number: FA59104
Account: SGS/KA SGS North America, Inc
Project: 1186238

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
SQ1281-IBLK	Q55905.D	1	11/20/18	NAF	n/a	n/a	SQ1281

The QC reported here applies to the following samples: Method: EPA 537M BY ID
FA59104-1

CAS No.	Compound	Result	RL	MDL	Units	Q
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	89% 30-140%
	13C5-PFPeA	89% 40-140%
	13C5-PFHxA	95% 50-150%
	13C4-PFHpA	100% 50-150%
	13C8-PFOA	104% 50-150%
	13C9-PFNA	102% 50-150%
	13C6-PFDA	108% 50-150%
	13C7-PFUnDA	110% 50-150%
	13C2-PFDoDA	107% 50-150%
	13C2-PFTeDA	104% 40-150%
	13C3-PFBS	95% 50-150%
	13C3-PFHxS	91% 50-150%
	13C8-PFOS	91% 50-150%
	13C8-FOSA	106% 30-140%
	d3-MeFOSAA	110% 50-150%
	13C2-6:2FTS	98% 50-150%
	13C2-8:2FTS	122% 50-150%

Method Blank Summary

Page 1 of 2

Job Number: FA59104
Account: SGS/KA SGS North America, Inc
Project: 1186238

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72662-MB	Q55814.D	1	11/17/18	NAF	11/15/18	OP72662	SQ1279

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

FA59104-1

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.0015	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.0015	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0040	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.0015	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.020	0.0040	ug/l	
2991-50-6	EtFOSAA	ND	0.020	0.0040	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries	Limits	
	13C4-PFBA	97%	30-140%
	13C5-PFPeA	97%	40-140%
	13C5-PFHxA	100%	50-150%
	13C4-PFHpA	100%	50-150%
	13C8-PFOA	110%	50-150%
	13C9-PFNA	104%	50-150%
	13C6-PFDA	123%	50-150%
	13C7-PFUnDA	95%	50-150%

Method Blank Summary

Job Number: FA59104
Account: SGSAKA SGS North America, Inc
Project: 1186238

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72662-MB	Q55814.D	1	11/17/18	NAF	11/15/18	OP72662	SQ1279

The QC reported here applies to the following samples: Method: EPA 537M BY ID
FA59104-1

CAS No.	ID Standard Recoveries	Limits
	13C2-PFDoDA	73% 50-150%
	13C2-PFTeDA	71% 40-150%
	13C3-PFBS	99% 50-150%
	13C3-PFHxS	100% 50-150%
	13C8-PFOS	102% 50-150%
	13C8-FOSA	112% 30-140%
	d3-MeFOSAA	98% 50-150%
	13C2-4:2FTS	97% 50-150%
	13C2-6:2FTS	102% 50-150%
	13C2-8:2FTS	136% 50-150%

Instrument Blank

Page 1 of 2

Job Number: FA59104
Account: SGS/SAK/SGS North America, Inc
Project: 1186238

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
SQ1279-IBLK	Q55773.D	1	11/16/18	NAF	n/a	n/a	SQ1279

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.1 B-15

OP72662-BS

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.017	0.0042	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0083	0.0031	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0083	0.0021	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0083	0.0021	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0083	0.0021	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0083	0.0021	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0083	0.0021	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0083	0.0021	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0083	0.0031	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0083	0.0021	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0083	0.0021	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0083	0.0021	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0083	0.0021	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0083	0.0021	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0083	0.0021	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.017	0.0042	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0083	0.0021	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0083	0.0021	ug/l	
754-91-6	PFOSA	ND	0.0083	0.0021	ug/l	
2355-31-9	MeFOSAA	ND	0.042	0.0083	ug/l	
2991-50-6	EtFOSAA	ND	0.042	0.0083	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.017	0.0042	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.017	0.0042	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.017	0.0042	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	105% 50-150%
	13C5-PFPeA	105% 50-150%
	13C5-PFHxA	108% 50-150%
	13C4-PFHpA	110% 50-150%
	13C8-PFOA	107% 50-150%
	13C9-PFNA	109% 50-150%
	13C6-PFDA	112% 50-150%
	13C7-PFUnDA	108% 50-150%

Instrument Blank

Job Number: FA59104
Account: SGS/KA SGS North America, Inc
Project: 1186238

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
SQ1279-IBLK	Q55773.D	1	11/16/18	NAF	n/a	n/a	SQ1279

The QC reported here applies to the following samples: Method: EPA 537M QSM5.1 B-15
OP72662-BS

CAS No.	ID Standard Recoveries	Limits
	13C2-PFDoDA	107% 50-150%
	13C2-PFTeDA	104% 50-150%
	13C3-PFBS	106% 50-150%
	13C3-PFHxS	106% 50-150%
	13C8-PFOS	107% 50-150%
	13C8-FOSA	115% 50-150%
	d3-MeFOSAA	105% 50-150%
	13C2-4:2FTS	99% 50-150%
	13C2-6:2FTS	100% 50-150%
	13C2-8:2FTS	83% 50-150%

Blank Spike Summary

Page 1 of 2

Job Number: FA59104
Account: SGS/KA SGS North America, Inc
Project: 1186238

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72662-BS	Q55813.D	1	11/17/18	NAF	11/15/18	OP72662	SQ1279

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

FA59104-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.08	0.0675	84	70-130
2706-90-3	Perfluoropentanoic acid	0.08	0.0623	78	70-130
307-24-4	Perfluorohexanoic acid	0.08	0.0589	74	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0677	85	71-130
335-67-1	Perfluorooctanoic acid	0.08	0.0646	81	74-130
375-95-1	Perfluorononanoic acid	0.08	0.0606	76	76-130
335-76-2	Perfluorodecanoic acid	0.08	0.0609	76	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0687	86	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0696	87	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0715	89	70-139
376-06-7	Perfluorotetradecanoic acid	0.08	0.0576	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.0708	0.0596	84	73-130
2706-91-4	Perfluoropentanesulfonic acid	0.0752	0.0559	74	70-130
355-46-4	Perfluorohexanesulfonic acid	0.0728	0.0566	78	74-130
375-92-8	Perfluoroheptanesulfonic acid	0.076	0.0652	86	74-130
1763-23-1	Perfluorooctanesulfonic acid	0.074	0.0628	85	70-130
68259-12-1	Perfluorononanesulfonic acid	0.0768	0.0522	68*	70-130
335-77-3	Perfluorodecanesulfonic acid	0.0772	0.0420	54*	70-130
754-91-6	PFOSA	0.08	0.0623	78	70-131
2355-31-9	MeFOSAA	0.08	0.0633	79	70-130
2991-50-6	EtFOSAA	0.08	0.0575	72	70-130
757124-72-44:2	Fluorotelomer sulfonate	0.0748	0.0601	80	70-130
27619-97-2	6:2 Fluorotelomer sulfonate	0.076	0.0594	78	70-133
39108-34-4	8:2 Fluorotelomer sulfonate	0.0768	0.0528	69*	70-130

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	111%	30-140%
	13C5-PFPeA	111%	40-140%
	13C5-PFHxA	114%	50-150%
	13C4-PFHpA	110%	50-150%
	13C8-PFOA	119%	50-150%
	13C9-PFNA	119%	50-150%
	13C6-PFDA	139%	50-150%
	13C7-PFUnDA	109%	50-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA59104
Account: SGSAKA SGS North America, Inc
Project: 1186238

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72662-BS	Q55813.D	1	11/17/18	NAF	11/15/18	OP72662	SQ1279

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

FA59104-1

CAS No.	ID Standard Recoveries	BSP	Limits
	13C2-PFDoDA	86%	50-150%
	13C2-PFTeDA	83%	40-150%
	13C3-PFBS	112%	50-150%
	13C3-PFHxS	112%	50-150%
	13C8-PFOS	118%	50-150%
	13C8-FOSA	119%	30-140%
	d3-MeFOSAA	114%	50-150%
	13C2-4:2FTS	113%	50-150%
	13C2-6:2FTS	120%	50-150%
	13C2-8:2FTS	143%	50-150%

* = Outside of Control Limits.

Matrix Spike Summary

Page 1 of 1

Job Number: FA59104
Account: SGS/KA SGS North America, Inc
Project: 1186238

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72662-MS	Q55916.D	10000	11/20/18	NAF	11/15/18	OP72662	SQ1281
FA59104-1	Q55849.D	500	11/19/18	NAF	11/15/18	OP72662	SQ1280
FA59104-1	Q55850.D	2500	11/19/18	NAF	11/15/18	OP72662	SQ1280

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

FA59104-1

CAS No.	Compound	FA59104-1 ug/l	Spike Q	MS ug/l	MS %	Limits
2706-90-3	Perfluoropentanoic acid	192		0.0769	194	2600* a 70-130
307-24-4	Perfluorohexanoic acid	365 b		0.0769	378	16900* a 70-130
375-85-9	Perfluoroheptanoic acid	44.7		0.0769	47.6	3770* a 71-130
335-67-1	Perfluorooctanoic acid	56.0		0.0769	55.8	-260* a 74-130
355-46-4	Perfluorooctanesulfonic acid	37.8		0.07	41.2	4857* a 74-130
1763-23-1	Perfluorooctanesulfonic acid	268 b		0.0712	275	9838* a 70-130
27619-97-2	6:2 Fluorotelomer sulfonate	3540 c		0.0731	3220	-437895* a 70-130
39108-34-4	8:2 Fluorotelomer sulfonate	80.4		0.0738	95.5	20448* a 70-130

CAS No.	ID Standard Recoveries	MS	FA59104-1	FA59104-1	Limits
	13C4-PFBA	87%	103%	106%	30-140%
	13C5-PFPeA	89%	97%	104%	40-140%
	13C5-PFHxA	94%	94%	107%	50-150%
	13C4-PFHpA	99%	102%	110%	50-150%
	13C8-PFOA	101%	87%	108%	50-150%
	13C9-PFNA	101%	109%	112%	50-150%
	13C6-PFDA	103%	112%	119%	50-150%
	13C7-PFUnDA	105%	109%	113%	50-150%
	13C2-PFDoDA	101%	108%	112%	50-150%
	13C2-PFTeDA	99%	108%	111%	40-150%
	13C3-PFBS	92%	98%	106%	50-150%
	13C3-PFHxS	92%	99%	102%	50-150%
	13C8-PFOS	96%	96%	105%	50-150%
	13C8-FOSA	102%	115%	118%	30-140%
	d3-MeFOSAA	104%	112%	114%	50-150%
	13C2-4:2FTS	92%	101%	103%	50-150%
	13C2-6:2FTS	115%	423% * e	181% * d	50-150%
	13C2-8:2FTS	108%	118%	104%	50-150%

(a) Outside control limits due to high level in sample relative to spike amount.

(b) Result is from Run #2.

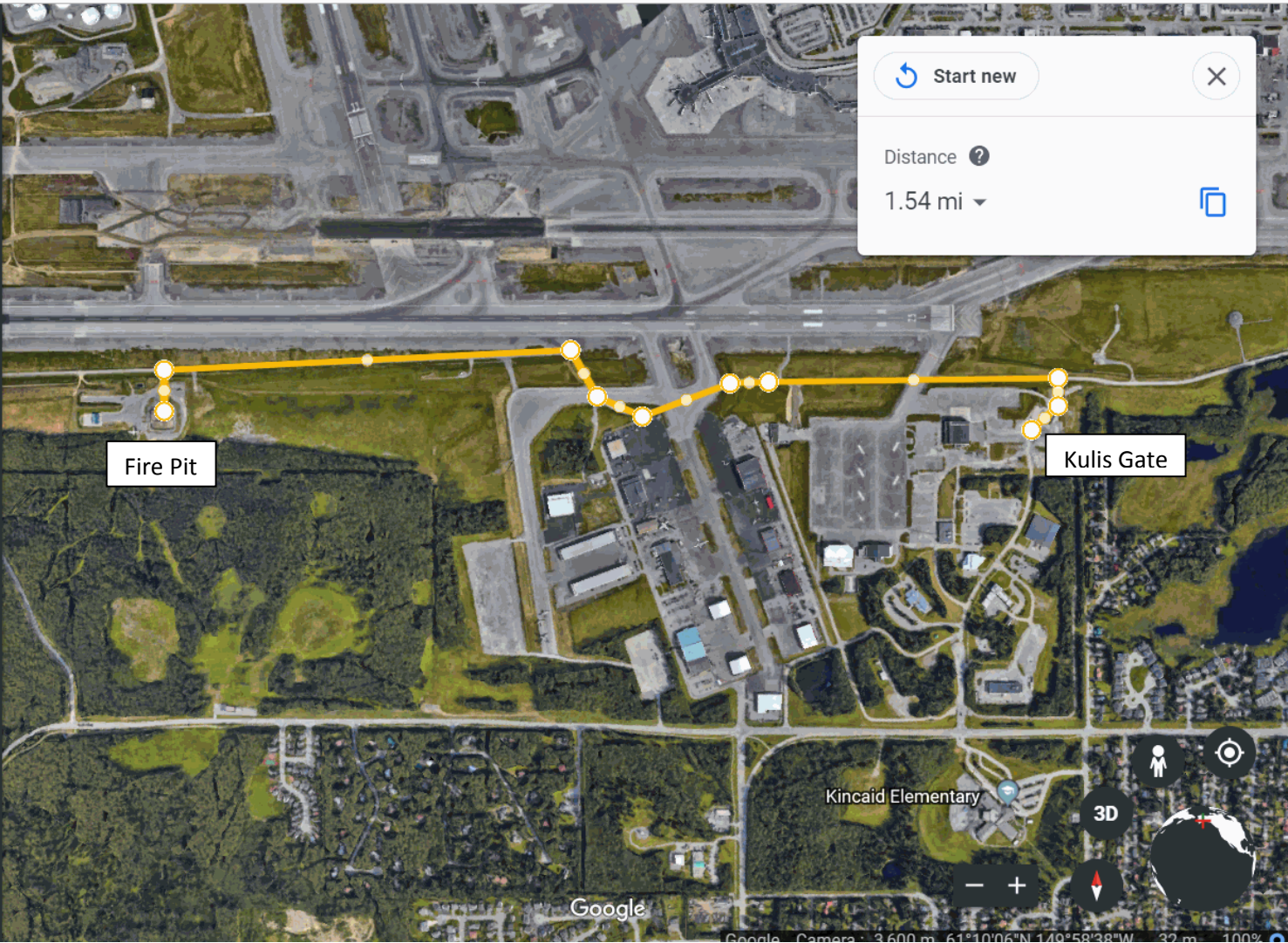
(c) Result is from Run #3.

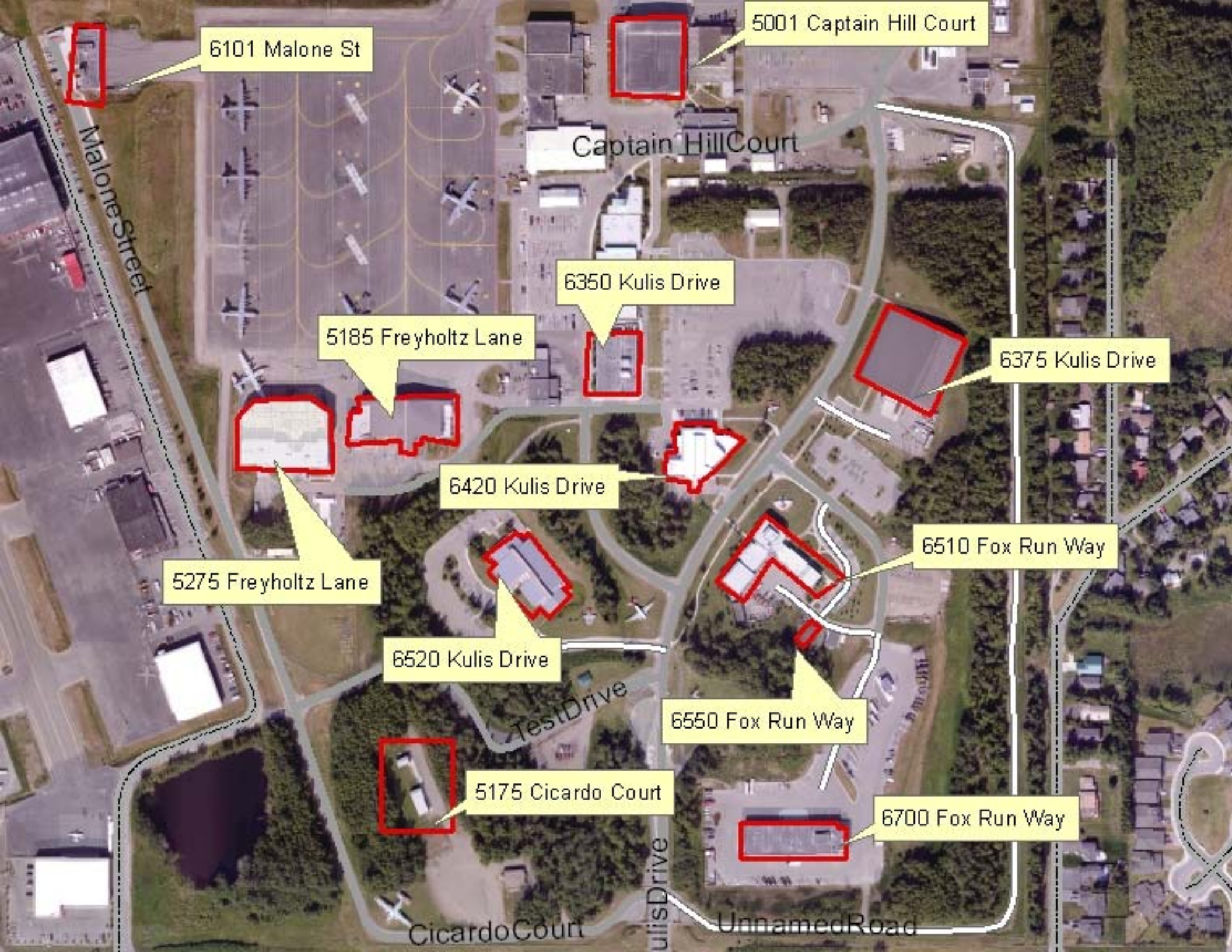
(d) Outside control limits due to dilution.

(e) Outside control limits.

* = Outside of Control Limits.

Escort Route from Former Kulis ANG Base to Fire Pit. Approximately 1.54 miles one-way.





6101 Malone St

5001 Captain Hill Court

Captain Hill Court

6350 Kulis Drive

5185 Freyholtz Lane

6375 Kulis Drive

6420 Kulis Drive

5275 Freyholtz Lane

6510 Fox Run Way

6520 Kulis Drive

6550 Fox Run Way

5175 Cicardo Court

6700 Fox Run Way

Cicardo Court

Unnamed Road

