Architects Design Group
AR94944

ADDENDUM #1

Name of Project: **Idaho Falls Community Policing Facility –**
Site plan, Main Building & Auxiliary Building
ADG Project Number: 1047

Issue Date: **February 28, 2022**
Architect of Record: **Architects Design Group, Inc.**
Assoc. Architect: **NBW Architects, P.A.**
Owner: **City of Idaho Falls, Idaho**
Subject: **Addendum #01 – Bid Issue clarifications**

This addendum is issued to clarify the original Drawings and Revise and Add to the Project Manual & Specifications and is hereby made a part of the Contract Documents.

RECEIPT OF THIS ADDENDUM SHALL BE ACKNOWLEDGED ON THE BID FORM.

PLEASE INSERT THIS ADDENDUM IN THE PROJECT MANUAL AND DRAWINGS.

Any proposals that do not include this signed addendum shall be considered Non-Responsive.

The following items are to be incorporated into the contract documents; all other provisions of the documents will remain unless specifically modified by this document.

TABLE OF CONTENTS:

1. Attention Items
2. Project Manuals
3. Drawings

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1. ATTENTION ITEMS: These items are being called to your attention for information or clarification only and do not necessarily represent any changes in the bid documents:

1. **Per IFPD request**, the project will be named and referred to as "IDAHO FALLS POLICING FACILITY" on all paperwork, correspondence and similar reports moving forward.
2. *Question regarding the Auxiliary Building structural foundation:*
   Response: No final design for the footing and foundation was provided since it is assumed that only the PEMB manufacturers will have the building force reactions to their respective PEMB, thus the footing and foundation design is the responsibility of the bidding party.
3. *Clarification regarding Auxiliary Building Sheet AB S-1-1, Item III.D.1 Dead Loads Framing System:*
   Response: Self weight plus 5 psf Collateral Load.
4. During the 2/24/2022 Pre-Bid meeting, the city advised that Permit Fee's will be waived.
5. *Question regarding requirements for fire sprinkler install system whether the company needed to be listed in the bid or not:*
   Response: They are not required to be listed in the bid – however, they are required to have an approved life safety license to do the work in Idaho Falls. Provided under separate cover for reference:
   a. List of Idaho Falls Fire "Approved life safety license applicants 2022" for reference.
   b. 2022 Life Safety License Application (required to be completed for someone to get approved if the proposed company to do the work is not on the list already).
6. *Question regarding on-site storage:*
   Response: Construction contractor will make their own arrangements for storage as necessary. It is noted that the building south of the proposed building site is vacant as noted during the pre-bid meeting.

2. PROJECT MANUALS: (Modify or Add Section to Contract Manual as noted below):

PROJECT MANUAL – OWNERS INSTRUCTIONS TO BIDDERS

- CONTENTS – **Added** line "APPENDIX B – SHPO MOA, PHASE 1 & 2 ENVIRONMENTAL REPORTS", 1 page total.
- OWNERS INSTRUCTIONS TO BIDDERS - Cover Sheet Table of Contents – **Modified:** Addendum 01 added (to Bid Form); 1 page total
- DOCUMENT 00 41 13 – Bid Form – Stipulated Sum (Single-Prime Contract) – **Modified:** Added Item 1.2B Alternate Bid Single-Prime (All-Trades) Contract line item for Add Alternate #1; 2 pages total
- **Added pages**: APPENDIX B – contents and narrative, 2 pages total.
- **Added document**: Minor Agreement with the Idaho State Historic Preservation Office (MOA SHPO) 01/27/2022, 8 pages total.
- **Added document**: Phase 1 Environmental Site Assessment, Stantec Project # 185751005, 08/19/2019, 261 pages total.
- **Added document**: Phase 2 Environmental Site Assessment, RMEA Job# 19-0152, 10/31/2019, 200 pages total.

PROJECT MANUALS, VOLUME 1 AND 2 PROJECT SPECIFICATIONS

- 00 00 00B - Table of Contents-ADD-01 – **Modified:** "Revised ADD-01" added for tracking.

- 01 31 00 – Project Management and Coordination-ADD-01– **Modified:** Removed BIM file incorporation.
- 07 54 19 – Polyvinyl-Chloride (PVC) Roofing – **Modified:** At 2.2-A.2 thickness reduced from 72 to 60 mils; At 3.7, ELD testing removed.
- 08 71 00 – Door Hardware – **Modified:** Hardware sets 35, 36 interview rooms and 59.1 juvenile.
- 13 34 19 – Metal Building Systems – **Modified** throughout as noted; Added Behlen Building Systems.
- 32 31 00 – Heavy Duty Gates – **Modified** throughout as noted; Use Cantilevered Slide Gates (remove swing gate).

3. DRAWINGS: (Modified or Add Sheet to Contract Drawings as noted below):

CIVIL PACKAGE

- C.3.1 Site Plan North – **Modified:** Added keynote 22 to approach onto Yellowstone Hwy. Revised keynote 22 to correct City approach standard. Revised keynote 3 to "Not Used" as there is no Heavy-Duty asphalt on-site.
- L.1.0 Landscape Overview – **Modified:** Updated Plant Schedule per City comments. Updated General Landscape Notes 12 & 13.
- L.1.1 Landscape Plan North – **Modified:** Updated Plant Schedule per City comments. Updated landscaping to reduce the amount of turf grass planting.
- L.1.2 Landscape Plan South – **Modified:** Updated Plant Schedule per City comments. Updated landscaping to reduce the amount of turf grass planting.
- L.2.0 Landscape Details – **Modified:** Removed Detail 2 per City comments. Updated landscaping to reduce the amount of turf grass planting.

MAIN BUILDING

- G-000: **Deleted** ID-313 and ID-314 (stainless steel millwork schedule and details).
- A-012 Site Details – **Modified:** Signage included as part of base bid (removed "by others")
- A-102A Upper Floor Plan-Area B – **Modified:** Added note (operable partition)
- A-203 Elevations – **Modified:** Signage included as part of base bid (removed "by others")
- A-502 Interior Window Schedule – **Modified:** Detail callouts edited per door manufacturer.
- A-522 Specialty Window Details – **Modified:** Ballistic Panel to extend 12 inches above finished ceiling (in lieu of to underside of deck).
- ID-101 Finish Floor Plan Level 1 - **Modified:** Added note #5.
- ID-102 Finish Floor Plan Level 1 Area A - **Modified:** Added note #5.
- ID-103 Finish Floor Plan Level 1 Area B - **Modified:** Added note #5.
- ID-104 Finish Floor Plan Level 2 - **Modified:** Added note #5.
- ID-105 Finish Floor Plan Level 2 Area A - **Modified:** Added note #5.
- ID-106 Finish Floor Plan Level 2 Area B - **Modified:** Added note #5.
- ID-201 Interior Elevations - **Modified:** Revised Section Details to be plastic laminate cabinets with stainless steel countertops, revised the plastic laminate finishes, added overall dimensions.
- ID-202 Interior Elevations - **Modified:** Revised Sink Detail in Lactation Room for ADA compliance (shallow sink, not deep sink).
- ID-203 Interior Elevations - **Modified:** Revised Aluminum Signage note to make it be in scope. Revised the plastic laminate finishes, added overall dimensions.
- ID-204 Interior Elevations - **Modified:** Revised the plastic laminate finishes, added overall dimensions.

- ID-205 Interior Elevations - **Modified:** Revised Aluminum Signage note to make it be in scope. Revised the plastic laminate finishes, adding overall dimensions.
- ID-206 Interior Elevations - **Modified:** Revised Section Details to be plastic laminate cabinets with stainless steel countertops, revised the plastic laminate finishes, adding overall dimensions. Revised Sink Detail in Lactation Room for ADA compliance (shallow sink, not deep sink).
- ID-207 Interior Elevations - **Modified:** Revised the plastic laminate finishes, adding overall dimensions. Revised Sink Detail in Lactation Room for ADA compliance (shallow sink, not deep sink).
- ID-311 Millwork Details - **Modified:** Added 3 Drawer Plastic Laminate Base Cabinet with Stainless Steel Countertop, reorganized details on the sheet, and renumbered to keep in order. Added Integrated Sink Notes/Dimensions.
- ID-312 Millwork Details – **Modified:** Added ADA compliant Sink Apron with Stainless Steel Countertop. Added Base Cabinet details with curb for Vehicle Examination Room, renumbering/reorganizing. Adding Integrated Sink Notes/Dimensions.
- ID-313 Millwork Details & Specialty Cabinetry Schedule – **Deleted this sheet.**
- ID-314 Millwork Details & Specialty Cabinetry Schedule – **Deleted this sheet.**
- ID-400 Interior Finish Legend – **Modified:** Added two new plastic laminates, PL-5 & PL-6, that have a chemical guard for the affected rooms. Revised finish notes/comments.
- ID-402 Interior Finish Legend - **Modified:** Removed an Epoxy Paint no longer being used, PE-2. Revised PT-5 and WP-1 finish notes/comments to get the correct installation for the wall protection in the Physical Agility room's south wall.
- ID-500 Interior Signage Notes - **Modified:** Revised Aluminum Signage notes to make it be in scope.
- ID-501 Interior Signage Schedule – **Modified:** Added Delayed Egress Signage to Signage Schedule.
- T-102B Technology Ground Floor Plan-AV/Security-Area B – **Modified:** Added Access Control hardware to Juvenile Lounge 150 door; Relocated Interview Rooms Security devices to Enlarged Plan Sheet T-402.
- T-402 Technology Enlarged Plans and Elevations – **Modified:** Added Plan Notes 7 thru 10; Added Camera tags and door tags to Enlarged Plan 6.
- T-507 Technology Details – **Modified:** Added Detail 2.
- T-510 Technology Schedule – **Modified:** Revised schedule to include Doors 148A, B, D and Door 150.

END OF ADDENDUM #1

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I. OWNERS INSTRUCTIONS TO BIDDERS

II. APPENDIX A – GEOTECH REPORT (information only)

APPENDIX B – SHPO MOA, PHASE 1 & 2 ENVIRONMENTAL REPORTS

III. PROJECT SPECIFICATIONS, BID ISSUE - VOLUME 1

OWNERS INSTRUCTIONS TO BIDDERS
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1. LIST OF DRAWING SHEETS AND DOCUMENTS

2. PROCUREMENT AND CONTRACTING REQUIREMENTS
   - ADVERTISEMENT FOR BIDS
   - INSTRUCTIONS TO BIDDERS
   - AIA DOC A701 – 1997 INSTRUCTIONS TO BIDDERS
   - SUPPLEMENTARY INSTRUCTIONS TO BIDDERS
   - PROCUREMENT SUBSTITUTION PROCEDURES
   - **BID FORM – STIPULATED SUM (SINGLE-PRIME CONTRACT) – ADDENDUM 01**
   - PROPOSED SCHEDULE OF VALUES FORM
   - BID SUBMITTAL CHECKLIST
   - PROJECT FORMS
   - CONSTRUCTION CONTRACT - IDAHO FALLS POLICE DEPARTMENT FACILITY
   - AIA DOC A201 – 2007 – GEN. CONDITIONS OF THE CONTRACT FOR CONSTRUCTION
   - SUPPLEMENTARY CONDITIONS
   - AIA DOC A312-2010, PERFORMANCE BOND
   - AIA DOC A312–2010, PAYMENT BOND

DOCUMENT 00 4113 - BID FORM - STIPULATED SUM (SINGLE-PRIME CONTRACT)

1.1 BID INFORMATION

A. Bidder: _____

B. Project Name: Police Station Headquarters & Auxiliary Building for City of Idaho Falls.

C. Project Location: West side of Northgate Mile; addressed as 775 Northgate Mile and 316 Elva St Idaho Falls, Idaho.

D. Owner: City of Idaho Falls, 380 Constitution Way, P.O. Box 50220, Idaho Falls, Idaho 83405-0220.

E. Associate Architect (local): NBW Architects, P.A., 990 John Adams Parkway, P.O. Box 2212, Idaho Falls, Idaho 83403. Telephone: 208-522-8779. Fax: 208-522-8785. Architect of Record: Architects Design Group, 333 N. Knowles Ave., Winter Park, FL 32789. Telephone: 407-647-1706. Fax: 407-605-5525.

1.2 CERTIFICATIONS AND BID

A. Base Bid, Single-Prime (All Trades) Contract: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by ADG Architects and Architect's consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of:

1. Base Bid_____Dollars ($_____).

B. Alternate Bid, Single-Prime (All Trades) Contract: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by ADG Architects and Architect's consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of:

1. Add Alternate #1 _____Dollars ($_____).

1.3 BID GUARANTEE

A. The undersigned Bidder agrees to execute a contract for this Work in the above amount and to furnish surety as specified within 10 days after a written Notice of Award, if offered within 45 days after receipt of bid.

1.4 SUBCONTRACTORS AND SUPPLIERS

A. The following companies will perform the indicated portions of the Work if the undersigned bidder is awarded the Contract:

1. Plumbing Work (Name): _____.
   (Address): _____.
   Idaho Plumbing Contractor's License No. _____.
2. HVAC Work (Name): _____.
   (Address): _____.
   Idaho Contractor's License No. _____.
3. Electrical Work (Name): _____.
   (Address): _____.
   Idaho Electrical Contractor's License No. _____.

B. Attach Subcontractors List Form.

1.5 TIME OF COMPLETION

A. The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by Architect and shall substantially complete the Work within 548 calendar days.

1.6 ACKNOWLEDGEMENT OF ADDENDA

A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:
1. Addendum No. 1, dated _____.
2. Addendum No. 2, dated _____.
3. Addendum No. 3, dated _____.
4. Addendum No. 4, dated _____.

1.7 CONTRACTOR'S LICENSE

A. The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in Idaho Falls, Idaho, and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.

1.8 SUBMISSION OF BID

Respectfully submitted this ____ day of _____, 2022.

Submitted By: _____
(Name of bidding firm or corporation)

Authorized Signature: _____
(Handwritten signature)

Signed By: _____
(Type or print name)

Title: _____
(Owner/Partner/President/Vice President)

Street Address: _____

City, State, Zip _____

Phone: _____

License No.: _____

Federal ID No.: _____

(Affix Corporate Seal Here)

END OF DOCUMENT 00 4113

APPENDIX B

APPENDIX B

COVER SHEET

TABLE OF CONTENTS:

1. Salvage of existing stock yard materials per SHPO MOA
2. Condition of existing buildings, site evaluation
3. Incidental asbestos abatement
4. Attachments

ATTENTION ALL PROSPECTIVE BIDDERS:

1. **Salvage of existing stock yard materials and re-install per SHPO MOA:**
   The project includes salvaging (recycle and reuse) existing stock yard materials required to be placed in the landscaping area on the north portion of the project per the SHPO MOA (attached). Those materials have been recently marked with a "purple S" on the north/south corridor of the existing stockyard route.

   These existing marked artifacts are required to be carefully removed, relocated, and stored for reuse within the areas designated for the SHPO historical preservation area at the north end of the site (please refer to civil and landscaping drawings sheet L.1.1 for proposed location).

   The city will work with the contractor to evaluate the condition of the removed materials. Materials deemed ineffective for reuse shall be disposed of by the Contractor. In the event that the materials cannot be re-used, the city will provide new materials to be installed.

   The scope of work of the bid for the rest of the materials shall include resetting the materials as shown on sheet L .1.1 with embedded posts set at a minimum of 4 feet embedment with compacted gravel around. Railing at the top of the post shall be set at a minimum of 8 feet above the pathway/plaza.

2. **Condition of Existing Buildings, site evaluation:**

   It should be noted that the IFPD will be conducting training with the existing buildings within the proposed construction area - trainings that might potentially damage the existing structures and or existing materials currently on site.

   Prospective bidders are encouraged to evaluate the site condition after February 24, 2022, for the most representative condition of the site / structures.

3. **Incidental asbestos abatement:**
   The phase 1 and 2 environmental reports are available upon request and that it's noted that the structures to be removed are old enough that asbestos abatement will likely be required during removal. Asbestos Abatement is to be considered incidental to the removal of the existing structures and to be included in the bid cost of the project.

4. **Attachments** (following pages):
   a. *Minor Agreement with the Idaho State Historic Preservation Office (SHPO MOA) 01/27/2022*
   b. *Phase 1 Environmental Site Assessment, Stantec Project # 185751005, 08/19/2019*
   c. *Phase 2 Environmental Site Assessment, RMEA Job# 19-0152, 10/31/2019*

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PUBLIC WORKS DEPARTMENT

Chris H Fredericksen, P.E. | *Public Works Director*
Office (208) 612-8256
Fax (208) 612-8570

IDAHO FALLS PUBLIC WORKS

MEMORANDUM

TO: Honorable Mayor Rebecca Noah Casper

FROM: Chris H Fredericksen, Public Works Director

DATE: January 27, 2022

RE: Minor Agreement with The Idaho State Historic Preservation Office

---

In conformance with Resolution 2020-26, please find attached for execution a minor agreement between The Idaho State Historic Preservation Office and the City of Idaho Falls regarding the City of Idaho Falls Police Complex Project. The City agrees that within five (5) years of filing the signed agreement, the City will construct, as part of the police complex project, a public plaza commemorating the Stockyard and its significance to agriculture at a local level.

This agreement has been reviewed by the Legal Department.

Public Works recommends approval of this minor agreement; and requests that it be executed.

2022-007

Memorandum of Agreement

Among

The Idaho State Historic Preservation Office, and

the City of Idaho Falls

Regarding

City of Idaho Falls Police Complex Project

WHEREAS, the City of Idaho Falls (City) has acquired the Idaho Falls Stockyard property with the intent to construct a police complex. The Idaho State Historic Preservation Office (SHPO) has determined that the undertaking which is described in this Memorandum of Agreement (MOA) will have an adverse effect on the Idaho Falls Stockyard area, a property determined to be eligible for inclusion in the National Register of Historic Places (NRHP); and

WHEREAS, the City consulted SHPO pursuant to 36 CFR Part 800 regulations implementing Section 106 of the National Historic Preservation Act (54 U.S.C. § 306108); and

WHEREAS, the City, in consultation with the SHPO, has determined that the undertaking's adverse effects cannot be avoided, and that implementation of the treatments set forth in Stipulation II of this MOA will satisfactorily take into account the undertaking's adverse effects on the historic property; and

WHEREAS, in accordance with 36 CFR 800.6(a)(1), the City has notified the Advisory Council on Historic Preservation (ACHP) of its adverse effect determination on October 5, 2021, and the ACHP did not respond as of the date of signing of this document; and

WHEREAS, the City and the SHPO have agreed to be signatories to the MOA, and

NOW, THEREFORE, the City and SHPO agree that the undertaking shall be implemented in accordance with the following stipulations in order to take into account the effects of the undertaking on historic properties, and further agree that these stipulations shall govern the undertaking and all of its parts until this MOA expires or is terminated.

STIPULATIONS

The City shall ensure that the following stipulations are carried out:

1. Definitions

The definitions provided at 36 CFR § 800.16 are applicable throughout this MOA.

2. Treatment of the Historic Property

As mitigation for the adverse effects resulting from this project, the City will complete the following:

A. Within five (5) years of filing the signed agreement, the City will construct, as part of the police complex project, a public plaza commemorating the Stockyard and its significance to agriculture at a local level (Attachment A).

B. The plaza will also include interpretive signage and/or display at an appropriate location.

1. The content of the sign will discuss the history of the Idaho Falls Stockyard. The sign will use historic photographs and maps if available.

2. The research and writing of the interpretive content must be completed by a Secretary of the Interior's qualified-historian (36 CFR PART 61) with review by SHPO.

3. Administrative Provisions

A. Confidentiality

The parties to this MOA acknowledge that historic properties covered by this MOA are subject to the provisions of Section 304 of the National Historic Preservation Act of 1966 relating to the disclosure of site information and, having so acknowledged, will ensure that all actions and documentation prescribed by this MOA are consistent with Section 304 of the National Historic Preservation Act of 1966.

B. Resolving Objections

Should any signatory or concurring party to this MOA object at any time to any actions proposed or the manner in which the terms of this MOA are implemented, the City shall consult with such party to resolve the objection. If the City determines that such objection cannot be resolved, the City will:

1. Forward all documentation relevant to the dispute, including the City's proposed resolution, to the ACHP. The ACHP shall provide the City with its advice on the resolution of the objection within thirty (30) days of receiving adequate documentation. Prior to reaching a final decision on the dispute, the City shall prepare a written response that takes into account any timely advice or comments regarding the dispute from the ACHP, signatories, and concurring parties, and provide them with a copy of the City's written response. The City will then proceed according to its final decision.

2. If the ACHP does not provide its advice regarding the dispute within the thirty (30) day time period, the City may make a final decision on the dispute and proceed accordingly. Prior to reaching such a final decision, the City shall prepare a written response that takes into account any timely comments regarding the dispute from the signatories and concurring parties to the MOA, and provide them to the ACHP with a copy of such written response.

C. Amendments

If a signatory determines the terms of the MOA cannot be met, or a change in Attachment A results in a change to the adverse effect and removal of Stipulation 2, or that a change is necessary to meet the requirements of the law, that signatory will immediately request that the consulting parties consider an amendment or addendum. Any necessary amendment or addendum will be executed as defined in the 36 CFR 800 regulations. This MOA may be amended when such an amendment is agreed to in writing by all signatories. The amendment will be effective on the date a copy signed by all of the signatories is filed with ACHP.

D. Termination

If any signatory determines that the terms of this MOA cannot be or are not being carried out, the signatories shall consult to seek amendment of the agreement. If within thirty (30) days (or another time period agreed to by all signatories) an amendment cannot be reached, any signatory may terminate the MOA upon written notification to the other signatories. Once the MOA is terminated, and prior to work continuing on the undertaking, the City must either (a) execute a MOA pursuant to 36 CFR § 800.6 or (b) request, take into account, and respond to comments of the ACHIP under 36 CFR § 800.7. IDEQ shall notify the signatories as to the course of action it will pursue.

E. Effective Period

This MOA shall be effective upon its execution by the last signatory and shall remain in effect, unless terminated, suspended, or amended, for a period of five (5) years.

EXECUTION of this MOA by the City and the SHPO, its transmittal to the ACHP in accordance with 36 CFR §800.6(b)(1)(iv), and subsequent implementation of its terms, shall evidence, pursuant to 36 CFR §800.6(c), that this MOA is an agreement with ACHP for purposes of Section 110(I) of the National Historic Preservation Act of 1996, and shall further evidence that the City has afforded the ACHP an opportunity to comment on the undertaking and its effects on historic properties, and that the City has taken into account the effects of the undertaking on historic properties.

PRINCIPAL CONTACTS

The principal contacts for this MOA are:

City of Idaho Falls
Jeremy Galbreaith
Police Captain
740 Park Avenue
Idaho Falls, ID 83402
208-612-8200
jgalbreaith@idahofalls.gov

Chris Canfield
Assistant Public Works Director
380 Constitution Way
Idaho Falls, ID 83402
208-612-8259
ccanfield@idahofalls.gov

SHPO
Chris Shaver
Compliance Archaeologist
Idaho State Historic Preservation Office
210 Main Street
Boise, ID 83702
(208) 488-7467
chris.shaver@ishs.idaho.gov

IN WITNESS WHEREOF, the parties hereto have executed this MOA as of the last date written below.

Signatories

City of Idaho Falls

By: Rebecca L. Noah Casper 1-27-22
Rebecca L. Noah Casper, Date
Mayor

Idaho State Historic Preservation Office

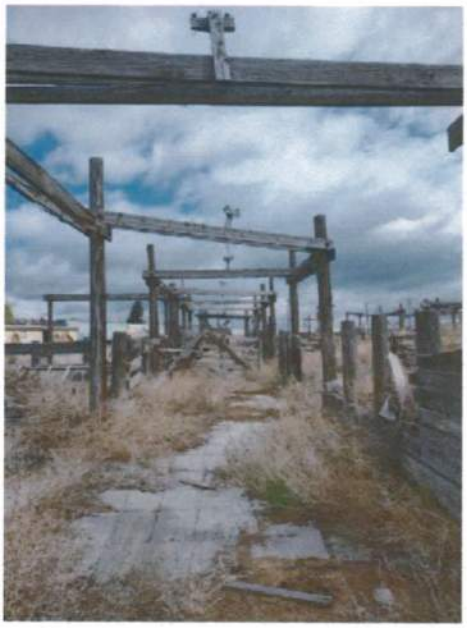
By: 1-3-22
Tricia Canaday Date
Deputy State Historic Preservation Officer

Memorandum of Agreement Among the Idaho State Historic Preservation Office, and the City of Idaho Falls Regarding the City of Idaho Falls Police Complex Project

ATTACHMENT A: Project Site Map

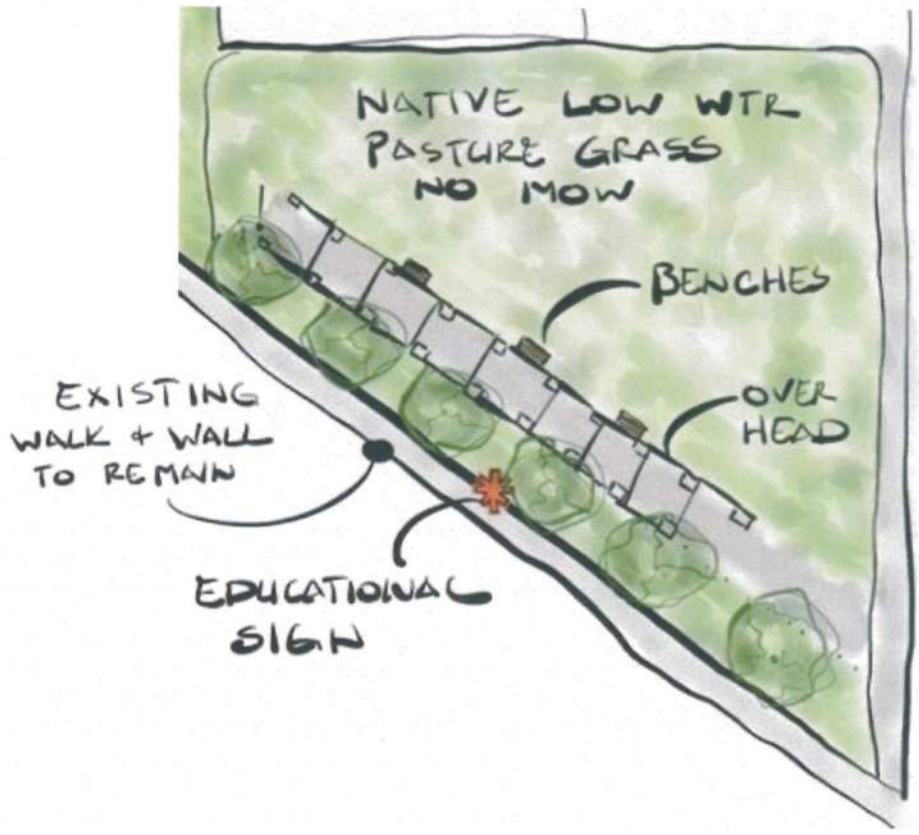


ATTACHMENT B: Conceptual Plan








NATIVE LOW WTR
PASTURE GRASS
NO MOW
BENCHES
OVER-
HEAD
EXISTING
WALK & WALL
TO REMAIN
EDUCATIONAL
SIGN

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701 Northgate Mile
Idaho Falls, Idaho 83401

Stockyards Property

Phase I Environmental Site Assessment

August 19, 2019

Prepared for:

City of Idaho Falls
680 Park Avenue
Idaho Falls, Idaho 83402

Prepared by:

Stantec Consulting Services Inc.
9400 SW Barnes Road, Suite 200
Portland, Oregon 97225

Project No.: 185751005

Sign-off Sheet and Signatures of Environmental Professionals

This document entitled 701 Northgate Mile, Idaho Falls, Idaho 83401, Stockyards Property Phase I Environmental Site Assessment was prepared by Stantec Consulting Services Inc. ("Stantec") for the City of Idaho Falls (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

All information, conclusions, and recommendations provided by Stantec in this document regarding the Phase I Environmental Site Assessment have been prepared under the supervision of and reviewed by the professionals whose signatures appear below.

Author: _____

Leonard Farr Jr., RG, LG
Principal Geologist[1]

Reviewer: _____

Carrie Rackey, CHMM
Senior Associate[1]

[1] I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Property. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

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Abbreviations

AAI	All Appropriate Inquiry
amsl	Above Mean Sea Level
AST	Aboveground Storage Tank
ASTM	ASTM International
bgs	Below Ground Surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CFR	Code of Federal Regulation
CREC	Controlled Recognized Environmental Conditions
DEQ	Idaho Department of Environmental Quality
EDR	Environmental Data Resources, Inc.
EP	Environmental Professional
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
HREC	Historical Recognized Environmental Conditions
LUST	Leaking Underground Storage Tank
mg/kg	Milligrams Per Kilogram
NFA	No Further Action
PCB	Polychlorinated Biphenyl
RBM	Regulated Building Materials
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RP	Responsible Party
USGS	United States Geological Survey
UST	Underground Storage Tank
VEC	Vapor Encroachment Condition

1.0 SUMMARY

Stantec Consulting Services Inc. (Stantec) has completed a Phase I Environmental Site Assessment (ESA) of the property located at 701 Northgate Mile, Idaho Falls, Idaho (Property). The City of Idaho Falls (City) has been designated the "User" of this Phase I ESA.

The Phase I ESA was conducted in conformance with the requirements of ASTM International (ASTM) E1527-13, the United States Environmental Protection Agency (EPA) All Appropriate Inquiries (AAI) Final Rule (40 CFR 312), and the City's US Environmental Protection Agency Brownfield Community-Wide Assessment cooperative agreement (BF-01J50701). Stantec understands that the Phase I ESA was requested to assist with the sale and redevelopment of the Property.

The approximately 7.5-acre Property consists of Bonneville County tax lots 0620001044B and 0420004015B owned by IF Livestock Commission Co., and City-owned right-of-way (Emerson Street). Current Property zoning is Industrial and Manufacturing Zone (I&M). The Property is currently developed as a livestock auction yard and stockyard. Property improvements include: 1) a main office and auction arena building and adjoining livestock pen building, 2) corrals (northern portion of Property, and 3) gravel-covered area used for hay storage (southern portion of Property).

The Property is bound by Elva Street and industrial development to the north, land and railroad tracks owned by Oregon Short Line Railroad Co. to the west, May Street to the south, and Northgate Mile to the east. Property vicinity land use is a mix of commercial across Northgate Mile and industrial.

A Property location map is provided as **Figure 1**. A Property map illustrating the main features of the Property and surrounding area is provided as **Figure 2**. Photographs taken during the site reconnaissance visit are provided in **Appendix A**.

Historical records and interviews indicate that the Property was developed as a stockyard and livestock auction yard by the 1930s. Surrounding land uses have included commercial and industrial, including several historical gas stations, auto sales and service facilities, and a machine shop.

Stantec has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of the Property. Any exceptions to, or deletions from, this practice are described in Sections 2.3 and 7.2 of this report. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the Property except for the following:

1. The Property has been used as a stockyard and livestock auction yard for more than 80 years. Pesticides are commonly used at such facilities to 1) control insects on livestock, and 2) to control unwanted vegetation. During the site reconnaissance, mention of a sheep dipping operation was made, although this operation was reportedly of short duration. The potential for the use of persistent pesticides at the Property is considered a REC.
2. Historical records indicate that a railroad switching yard has been located adjacent and west of the Property since the 1940s. The material threat of an airborne release from railroad diesel locomotive emissions is considered a REC for the Property.

3. Several nearby off-site facilities have been identified that pose a material threat of a release that has the potential to impact the Property. These include historical gas stations at 385 Elva Street, 630 Northgate Mile and 700 Northgate Mile, and a historical machine shop at 675 Northgate Mile. These off-site facilities constitute a REC and potential vapor encroachment condition (VEC) for the Property.

Based on these findings, assessment which may include soil, groundwater and/or soil gas sampling is recommended on the Property to evaluate the RECs identified.

The preceding summary is intended for informational purposes only. Reading of the full body of this report is recommended.

2.0 INTRODUCTION

The objective of this Phase I ESA was to perform All Appropriate Inquiry (AAI) into the past ownership and uses of the Property consistent with good commercial or customary practice as outlined by the ASTM in “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process”, Designation E1527-13. “All Appropriate Inquiry” is the process for evaluating a property’s environmental conditions for the purpose of qualifying for landowner liability protections under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) following final rule of Part 312 of Title 40, Code of Federal Regulations (40 CFR Part 312). The purpose of this Phase I ESA was to identify, to the extent feasible, adverse environmental conditions including recognized environmental conditions (“RECs”) of the Property.

The ASTM E1527-13 standard indicates that the purpose of the Phase I ESA is to identify RECs, including historical recognized environmental conditions (“HRECs”), and controlled recognized environmental conditions (“CRECs”) that may exist at a property. The term “recognized environmental conditions” means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property:

1. Due to any release to the environment;
2. Under conditions indicative of a release to the environment; or
3. Under conditions that pose a material threat of a future release to the environment.

ASTM defines a “HREC” as a REC that has occurred in connection with a property, but has been addressed to the satisfaction of the applicable regulatory authority and meets current unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a HREC, the environmental professional (EP) must determine whether the past release is a REC when the current Phase I ESA is conducted (e.g., if there has been a change in the regulations). If the EP considers the past release to be a REC at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a REC.

ASTM defines a “CREC” as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (e.g., as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), but with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, activity and use limitations, institutional controls, or engineering controls).

As defined by ASTM, RECs can include hazardous substances or petroleum products present under conditions in compliance with laws if that presence represents a material threat of future release. The presence of hazardous substances or petroleum products is, however, not a REC if that presence is a *de minimis* condition. *De minimis* conditions are minor occurrences of contamination that generally do not

present a material risk to human health and would not likely be subject to enforcement action if brought to the attention of governmental agencies.

The scope of work conducted during this Phase I ESA consisted of a visual reconnaissance of the Property, interviews with key individuals, and a review of reasonably ascertainable documents. The scope of work did not include an assessment for environmental regulatory compliance of any facility that ever operated at the Property (past or present), or sampling and analyzing of environmental media. Stantec was not contracted to perform any independent evaluation of the purchase or lease price of the Property and its relationship to current fair market value. The conclusions presented in this ESA report are professional opinions based on data described herein. The opinions are subject to the limitations described in Section 2.3.

ASTM E1527-13 notes that the availability of record information varies from source to source. The User or Environmental Professional is not obligated to identify, obtain, or review every possible source that might exist with respect to a property. Instead, ASTM identifies record information that is reasonably ascertainable from standard sources. “Reasonably ascertainable” means:

1. Information that is publicly available;
2. Information that is obtainable from its source within reasonable time and cost constraints; and
3. Information that is practicably reviewable.

2.1 PROPERTY DESCRIPTION

The approximately 7.5-acre Property consists of Bonneville County tax lots 0620001044B and 0420004015B, and City Emerson Street right-of-way property. Current Property is zoning is Industrial and Manufacturing Zone (I&M). The Property is currently developed as a livestock auction yard and stockyard. Property improvements include: 1) a main office and auction arena building and adjoining livestock pen building, 2) corrals (northern portion of Property, and 3) gravel-covered are used for hay storage (southern portion of Property).

The Property is bound by Elva Street and industrial property to the north, land and railroad tracks owned by Oregon Short Line Railroad Co. to the west, May Street to the south, and Northgate Mile to the east. Property vicinity land use is a mix of commercial across Northgate Mile and industrial.

A Property location map is provided as **Figure 1**. A Property map illustrating the main features of the Property and surrounding area is provided as **Figure 2**. Photographs taken during the site reconnaissance visit are provided in **Appendix A**.

2.2 SPECIAL TERMS, CONDITIONS, AND SIGNIFICANT ASSUMPTIONS

There were no special terms, conditions, or significant assumptions associated with this Phase I ESA.

2.3 EXCEPTIONS AND LIMITING CONDITIONS

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided and given the schedule and budget constraints established by the client. No other representations, warranties, or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential and actual liabilities and conditions associated with the Property.

This report provides an evaluation of selected environmental conditions associated with the Property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report and are based solely on the scope of work described in the report, the limited data available, and the results of the work. They are not a certification of the property's environmental condition.

The client did not provide or contract Stantec to provide recorded title records or search results for environmental liens or activity and use limitations encumbering the property or in connection with the property.

This report relates solely to the specific project for which Stantec was retained and the stated purpose for which this report was prepared and shall not be used or relied upon by client for any variation or extension of this project, any other project, or any other purpose.

This report has been prepared for the exclusive use of the User identified herein and any use of or reliance on this report by any third party is prohibited, except as may be consented to in writing by Stantec or as required by law. The provision of any such consent is at Stantec's sole and unfettered discretion and will only be authorized pursuant to the conditions of Stantec's standard form reliance letter. Stantec assumes no responsibility for losses, damages, liabilities, or claims, howsoever arising, from third party use of this report.

Project Specific limiting conditions are provided in Section 2.2.

The locations of any utilities, buildings and structures, and property boundaries illustrated in or described within this report, if any, including pole lines, conduits, water mains, sewers and other surface or sub-surface utilities and structures, are not guaranteed. Before starting site work, the exact location of all such utilities and structures must be confirmed by the client and the party performing the work, and Stantec assumes no liability resulting from damage to such utilities and structures.

The conclusions are based on the conditions encountered at the Property by Stantec at the time the work was conducted.

As the purpose of this report is to identify Property conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the Property is beyond the scope of this assessment.

The findings, observations, and conclusions expressed by Stantec in this report are not an opinion concerning the compliance of any past or present owner or operator of the Property which is the subject of this report with any Federal, state, provincial or local law or regulation.

This report presents professional opinions and findings of a scientific and technical nature. It does not and shall not be construed to offer a legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations or policies of Federal, state, provincial or local governmental agencies. It is recommended that issues raised by the report should be reviewed for the client by its legal counsel.

Stantec specifically disclaims any responsibility to update the conclusions in this report if new or different information later becomes available or if the conditions or activities on the property subsequently change.

2.4 PERSONNEL QUALIFICATIONS

This Phase I ESA was conducted by, or under the supervision of, an individual that meets the ASTM definition of an EP. The credentials of the EP and other key Stantec personnel involved in conducting this Phase I ESA are provided in **Appendix B**.

3.0 USER-PROVIDED INFORMATION

3.1 ASTM 1527-13 QUESTIONNAIRE

ASTM E1527-13 describes responsibilities of the User to complete certain tasks in connection with the performance of "All Appropriate Inquiries" into the Property. The ASTM standard requires that the EP request information from the User on the results of those tasks because that information can assist in the identification of RECs, CRECs, HRECs, or *de minimis* conditions in connection with the Property. Towards that end, Stantec requested that the City provide relevant documents and information. The City delegated this responsibility to Captain Royce Clements with the Idaho Falls Police Department (IFPD). The IFPD is a potential prospective purchaser of the Property. Responses provided by Captain Clements are summarized below.

Description of Information	Provided (Yes / No)	Description and/or Key Findings
User Questionnaire and/or Interview	Yes	A User questionnaire was completed by Captain Royce Clements of the IFPD. Captain Clements is leading IFPD efforts to potential acquire the Property.
Environmental Liens or Activity Use Limitations	No	Captain Clements was not aware of environmental liens or use limitations for the Property.
Previous Environmental Permits or Reports Provided by User	No	Captain Clements indicated no knowledge of environmental permits or reports associated with the Property.
Purpose of the Phase I ESA	Yes	Environmental due diligence associated with sale and redevelopment of the Property.

The completed User provided information questionnaire is included in **Appendix C**.

3.2 TITLE REPORT

Stantec was not provided with a title report while completing this Phase I ESA.

3.3 PREVIOUS ENVIRONMENTAL REPORTS

Stantec did not identify any prior Property environmental reports.

4.0 RECORDS REVIEW

The objective of consulting historical sources of information is to develop the history of the Property and surrounding area and evaluate if past uses may have resulted in RECs. Physical setting records are evaluated to determine if the physical setting may have contributed to adverse environmental conditions in connection with the Property. During the review of historical records, Stantec attempted to identify uses of the Property from the present to the first developed use of the Property. Stantec's research included the reasonably ascertainable and useful records described in this section.

4.1 PHYSICAL SETTING

A summary of the physical setting of the Property is provided in the table below with additional details in the following subsections.

Topography:	According to the United States Geological Survey (USGS) topographic map for the Idaho Falls South quadrangle, the Property is generally flat. The elevation at the Property is approximately 4,723 feet above mean sea level (amsl). Topography in the immediate Property vicinity slopes upward to Northgate Mile to the east, and to railroad tracks to the west. Property vicinity topography slopes gently downward to the west toward the Snake River (approximately 4,690 amsl), located approximately 0.6 miles west of the Property.
Soil/Bedrock Data:	According to the Environmental Data Resources, Inc. (EDR) GeoCheck Report, Physical Setting Source Summary, Property soils are classified as either Bannock loam or Aquic Cryoborolls silt loam. The surface of the Property is mapped as Alluvium of Snake River Glacial Outwash (Qt) of late Pleistocene age. The Alluvium is described as well-rounded, clast-supported gravel, thickly planar- to cross-bedded, separated locally by thin, cross-bedded sand beds. Gravel is dominantly pebble- to cobble-sized, clast-supported, locally normally-graded and imbricated. Gravel framework is filled by subrounded fine- to medium-sand (Phillips and Welhan, 2011). The Alluvium is underlain by basalt bedrock (Basalt of Shattuck Butte [middle Pleistocene]), which is visible at the surface along the eastern Property boundary.
Estimated Depth to Groundwater/ **Estimated Direction of Gradient:**	EDR's GeoCheck Report, Physical Setting Source Summary indicates a water level of 123 feet below ground surface in a nearby well log (062832). Based on the proximity of the Property to the Snake River which flows to the south approximately 0.6 miles west of the Property, groundwater in the Property vicinity is anticipated to flow to the southwest.
NOTE: Site-specific groundwater flow direction and depth can only be determined by conducting site-specific testing, which Stantec has not conducted.	

4.1.1 Property Topography and Surface Water Flow

Topography of the Property is generally level. Regional topography slopes gently to the west towards the Snake River, located approximately 0.6 miles feet west of the Property. The majority of the Property is unpaved; accordingly, any precipitation that falls on the Property will infiltrate the ground surface with minimal overland flow.

4.1.2 Regional and Property Geology

The surface of the Property is mapped as Alluvium of Snake River Glaciel Outwash (Qt) of late Pleistocene age. The Alluvium is described as well-rounded, clast-supported gravel, thickly planar- to cross-bedded, separated locally by thin, cross-bedded sand beds. Gravel is dominantly pebble- to cobble-sized, clast-supported, locally normally-graded and imbricated. Gravel framework is filled by subrounded fine- to medium-sand (Phillips and Wellhan, 2011). The Alluvium is underlain by basalt bedrock (Basalt of Shattuck Butte [middle Pleistocene]), which is visible at the surface along the eastern Property boundary.

4.1.3 Regional and Property Hydrogeology

EDR's GeoCheck Report, Physical Setting Source Summary indicates a water level of 123 feet below ground surface in a nearby well log (062832). Based on the proximity of the Property to the Snake River which flows to the south approximately 0.6 miles west of the Property, groundwater in the Property vicinity is anticipated to flow to the southwest.

4.2 FEDERAL, STATE AND TRIBAL ENVIRONMENTAL RECORDS

A regulatory agency database search report was obtained from EDR, a third-party environmental database search firm. A complete copy of the database search report, including the date the report was prepared, the date the information was last updated, and the definition of databases searched, is provided in **Appendix D**.

Stantec evaluated the information listed within the database relative to potential impact to the Property, assessing the potential for impacts based in part on the physical setting. As part of this process, inferences have been made regarding the likely groundwater flow direction at or near the Property. As described in 4.1.3, the inferred shallow groundwater flow direction is likely to north. Observations about the Property and surrounding properties made during the Property reconnaissance are provided in more detail in Section 5.

4.2.1 Listings for Property

The Property was not identified in the environmental database report. The report incorrectly lists two former gas stations at the Property: Barnes American Service/Barnes Amoco at 695 Yellowstone and R&R Service at 775 Yellowstone. Idaho Department of Environmental Quality (DEQ) records indicate that these two former gas stations were located more than a ½-mile south of the Property.

4.2.2 Listings for Nearby Sites with Potential to Impact Property

Stantec assessed data presented in the environmental agency database search report to evaluate the potential for conditions on adjacent and nearby sites to pose a REC, CREC, or HREC for the Property. The evaluation included an opinion of the potential for contamination by hazardous substances or petroleum products to migrate to the Property from a nearby property, including by vapor migration or encroachment (i.e., potential for a VEC).

Based on this evaluation, the following records were identified as the most likely potential sources of impact to the Property. The basis for why the environmental database listing does or does not represent a REC for the Property is also provided.

Listed Facility Name/Address	Database Listing(s)	Distance/Direction from Property	REC? (YES / NO)
Alvey Beeline 700 Northgate Mile	EDR Hist Auto	Across Northgate Mile, east of Property	YES
This database indicates that city directory listings for a gas station have been identified. The directory years span 1969 to 1973. The potential presence of a gas station upgradient and near the Property, with no information regarding the environmental condition of this site, constitutes a REC and a potential vapor encroachment condition (VEC) for the Property.			
Jerrys Machine and Engine Parts Inc 675 N Yellowstone Hwy	AllSites	Adjacent east of Property	YES
This listing indicates that hazardous waste was generated at this facility. No information regarding the dates, quantities, or types of wastes generated was included in the database search report. This listing alone does not indicate that a release has occurred, and therefore does not constitute a REC. However, as indicated in Section 4.3.6, use of this site as a machine shop for approximately 20+ years does constitute a REC for the Property.			
Smith Intermountain Truck 805 Northgate Mile	AllSites RCRA Nongen/NLR Finds Echo	Adjacent to east and north of Property	NO
These listings all are related to the generation of hazardous waste at this facility. The listings indicate generator classification as a conditionally except small quantity generator. No information regarding the dates, quantities, or types of wastes generated was included in the database search report. This listing does not indicate that a release has occurred, and therefore does not constitute a REC.			
Eco Man 301 E Elva	AllSites RCRA Nongen/NLR	Across Elva Street, north of Property	NO
These listings are related to the generation of hazardous waste at this facility. No information regarding the dates, quantities, or types of wastes generated was included in the database search report. This listing does not indicate that a release has occurred, and therefore does not constitute a REC.			
Ron Sayer Dodge 760 Northgate Mile	AllSites UST	Across Northgate Mile, east of Property	NO
These listings are associated with two 500-gallon underground storage tanks (USTs) used at this facility. The status of both USTs is “permanently out of use”. Facility status is listed as closed. Since no release from either UST is indicated by these listings, it is not considered to constitute a REC for the Property.			

EDR Radius Map™ Report
DEQ Waste Management and Remediation Division Facility Mapper

The remaining listings in the environmental database search report provided in **Appendix D** have been analyzed, and it is Stantec's opinion that they do not constitute a REC for the Property.

4.3 LOCAL/REGIONAL ENVIRONMENTAL RECORDS

Stantec checked the following sources to obtain information pertaining to Property use and/or indications of RECs in connection with the Property:

4.3.1 Idaho Falls Fire

Agency Name Contact Information	Finding
Idaho Falls Fire Kerry Hammon, Public Information Officer khammon@idahofallsidaho.gov Emailed on 8/15/19	As of the date of this report, no response had been received from Idaho Falls Fire.

4.3.2 Bonneville County Tax Assessor

Agency Name, Contact Information	Findings
Bonneville County Parcel Viewer https://bonneville.esriemcs.com/portal/apps/webappviewer/index.html?id=f5f27c3e084449c3b933b019a9b7444b Accessed 8/15/19	The Property is currently owned by IF Livestock Commission Co. **Tax Lot RPA0620001044:** Indicated as 2.36 acres in size. **Tax Lot RPA0420004015B:** Indicated as 3.13 acres in size. Buildings are indicated as built in 1948. **Right-Of-Way Property:** No information available.

4.3.3 City of Idaho Falls Building Permits

Agency Name, Contact Information	Findings
Bonneville County Parcel Viewer https://trakit.idahofallsidaho.gov/etrakit3/Search/permit.aspx Accessed 8/15/19	Six permits (three electrical, two plumbing, and one building) were identified, dated 1992-1997. Permit information did not reveal a REC for the Property.

4.4 HISTORICAL RECORDS REVIEW

4.4.1 Land Title Records/Deeds

Land title records, deeds, environmental liens, and activity and use limitation documentation was not provided by the Users, and public records were not searched by Stantec.

4.4.2 Aerial Photographs

Stantec reviewed historical aerial photographs provided by EDR. The general type of activity on a property and land use changes can often be discerned from the type and layout of structures visible in the photographs. However, specific elements of a facility's operation usually cannot be discerned from aerial photographs alone. The following table summarizes Stantec's observations of the reviewed historical aerial photographs.

Year	Scale	Observations, Property and Adjoining Properties
1946	1" = 500'	The resolution of this photograph is poor. It appears that a single building is present on the Property at the same location as the present-day building. It appears that stockyard corrals also are present, but details cannot be discerned. Areas surrounding the Property appear developed, including a building at the corner of Elva Street and Northgate Mile, buildings across May Street south of the Property, numerous buildings to the east across Northgate Mile from the Property, and railroad tracks west of the Property.
1954	1" = 500'	The resolution of this photograph is fair allowing additional Property details to be discerned. The Property building and other stockyard features appear much as they do today. Two retail gas stations are visible across Northgate Mile from the Property, one at the northeast corner of Northgate Mile and College Street and one at the southeast corner of Northgate Mile and College Street.
1973	1" = 500'	The Property appears generally unchanged. A building is visible at 675 Northgate Mile for the first time in this photograph.
1976	1" = 500'	The Property appears generally unchanged. The buildings located at the corner of Elva Street and Northgate Mile have been expanded to their present-day configuration.
1980	1" = 500'	The Property appears generally unchanged. The gas station at the northeast corner of Northgate Mile and College Street appears to have been removed.
1987	1" = 750'	The resolution of this photograph is poor and no changes to the Property or vicinity can be discerned.
1992, 1998, 2006, 2009, 2013 and 2017	1" = 500'	The Property and immediate vicinity appear generally unchanged.

Source: EDR Aerial Photo Decade Package

Review of historical aerial photographs has resulted in the identification of two former gas stations identified as RECs for the Property.

4.4.3 City Directories

Stantec retained EDR to research available city directories for the Property, in approximately five-year intervals. The following is a summary of Stantec's review of the city directory listings. Businesses that have been identified as a REC for the Property are presented in bold.

Subject/Adjoining Property	Year	Listed Occupants
Property 701 Northgate Mile	1963	Livestock Exchange Building, State Brand Insp, G&S Investment Co, K Six Ranch Land Co, Idaho Livestock Commission, LC Livestock Co, Idaho Livestock Auction, Rodgers Raymont B Real Estate, Skelton Cattle Co, Skelton Floyd Feed Lots, Skelton Ranch, Skelton & Studdert, Stockyard Café, USDA Animal Disease Eradication Quarantine Division
	1966	Livestock Exchange Building, State Brand Insp, G&S Investment Co, Idaho Livestock Commission, LC Livestock Co, Idaho Livestock Auction, Rodgers Raymont B Real Estate, Skelton Cattle Co, Skelton Floyd Feed Lots, Skelton Ranch, Skelton & Studdert, Stockyard Café, USDA Animal Disease Eradication Quarantine Division
	1975	Livestock Exchange Building, State Brand Insp, G&S Investment Co, Idaho Livestock Commission, LC Livestock Co, Idaho Livestock Auction, Skelton Cattle Co, Skelton Floyd Feed Lots, Skelton Ranch, Skelton & Studdert, Stockyard Cafe
	1980	Livestock Exchange Building, State Brand Insp, Idaho Livestock Commission, LC Livestock Co, Idaho Livestock Auction, Skelton Cattle Co, Skelton Floyd Feed Lots
	1985	Livestock Exchange Building, State Brand Insp, Idaho Livestock Commission, LC Livestock Co, Idaho Livestock Auction, Skelton Cattle Co, Skelton Floyd Feed Lots, Stockyard Cafe
	1992, 1995	Idaho Livestock Auction Co
	2000	Cowboy Up Café, Idaho Livestock Auction LLC
	2005	Idaho Livestock Auction LLC
	2010, 2014	Brand Inspector, Idaho Livestock Auction LLC, State Police Idaho
Adjoining North 300-400 Elva Street	1963	Not Provided
	1966	Rogers Bros Co (301), Vacant (325), Ralph's Body Shop (325.5), **Whirlwind Car Wash & Service Station (385)**
	1970	Rogers Brothers Seed Co (301), Vacant (335), **Whirlwind Car Wash & Service Station (385)**
	1975	Rogers Brothers Seed Co (301), Ermal's Service Center (308), Kitchen Korner (385), B&D Welding (385)
	1980	Rogers Brothers Seed Co (301), Ermal's Service Center (308), Quality Tune (335), Midas Muffler (385)
	1985	Rogers Brothers Seed Co (301), Smith Chevrolet (308), Quality Tune (335), Midas Muffler (385)
	1992	Northgate Transmission (335), HDR Enterprises Inc (385)
	1995	Northgate Transmission (335), Nichols Enterprises Inc (385)
	2000	Auto Shine LLC (350), Nichols Enterprises LLC (385)
	2005	Northgate Transmission (335), Sure Signs (340), Rays Auto Repair Inc. (350), Auto Shine Detail Center Inc. (350) SS

Subject/Adjoining Property	Year	Listed Occupants
		Distributing (350), Guanell Enterprises LLC (385), Nichols Enterprises LLC (385)
	2010	Conley, Kenny D (315), Northgate Transmission (335), Sure Signs (340), Chaos Motor Sports (342), Rays Auto Repair Inc. (350), SS Distributing (350), Guanell Enterprises LLC (385)
	2014	Ray-Core Inc. (305), Northgate Transmission (335), Sure Signs (340), Meineke Car Care Centers (384), Sidecare Ventures Corp. (385)
Adjoining East 600-900 Northgate Mile	1963	The Mart Farm & Home (600), Wold Lamont TV Service (610), Farrell's Auto Trim (620), **Fearless Farris Stinker Station (630)**, Robison's Parts and Service Co (640), CAL Ranch and Farm Supply (675), Dehnert Ins Co (685), **Roy's Beeline Serv gas sta (700)**, Crown Realty Inc. (740), Lundahl Ray E Co auto dlr (760), City Street Dept. and Garage (805), Ostler Glass & Paint Inc (820), The Paint Spot (830), Stockman's Bar (840), Compact Associates of Idaho Falls vacuum clnrs (860), Ray's In & Out restaurant (898)
	1966	Mart Number Two and Mart Appl Center Number Two (600), Mac's Electronic Clinic (610), Farrell's Automotive Trim (620), **Town Pump gas sta (630)**, CAL Ranch and Farm Supply (675), Dehnert Ins Co (685), Robison's Parts and Service Co (690), **Beeline Gas For Less (700)**, Lundahl Ray E Co auto dlr (760), City Street/Sanitation Dept. and Garage (805), Sun Valley Marble of Idaho Falls Inc (820), Vacant (830), Stockman's Bar (840), Compact Sales and Service vacuum clnrs (860)
	1970	The Mart (600), Farrell's Automotive Trim (620), Vacant (630), CAL Ranch and Farm Supply (675), Robison's Parts and Service Co (690), **Alvey's Husky Service (700)**, Vacant (740), Sayer Brothers Inc, City Street/Sanitation Dept. and Garage (805), Yamaha of Idaho Falls (820), Vacant (824), Stockman's Bar (840), Ray's In & Out restaurant (898)
	1975	The Mart (600), Farrell's Automotive Trim (620), Inland Yacht Sales (660), Snake River Dental Laboratory Inc (660), U-Do-It Carpets (675), Opal House lapidary (685), Robison's Distributing & Parts and Service Co (690), Vacant (700 & 740), Sayer Brothers Inc and Thrifty Rent-A-Car (760), Smith Chevrolet (805), Dolly's Antique & Trading Post (820),Matador Lounge (840)
	1980	The Mart (600), Farrell's Automotive Trim (620), Inland Yacht Sales (660), Frame Shoppe and Sunshine Gallery (675), The Burning Issue (675), Opal House lapidary (685), Robison's Inc. snowmobiles & Parts and Service Co (690), Ron Sayer Inc (700), Ron Sayer Bros Inc (760), Smith Chevrolet (805), Matador Lounge (840)
	1985	The Mart (600), Farrell's Automotive Trim (620), Inland Yacht Sales (660), A A Auction Sales (675), La Casita grocery story (675), Opal House lapidary (685), Robison's Inc auto parts (690), Chainsaw sales (690), Ron Sayer Inc (700 & 760), Smith Intermountain Truck (805), Matador Lounge (840)

Subject/Adjoining Property	Year	Listed Occupants
	1992	Justs Inc (600), Farrells Auto Upholstery (620), Mountain Springs Spas (660), **Jerrys Machine and Parts Inc (675)**, KVS, Inc (690), Component Caster USA Co (690), Robison Distributing Inc (690), Ron Sayer Inc (760), Smith Chevrolet Company Inc (805), Service Parts Company of Idaho Falls (805), Lowe Corporation (840). Chaffin Industries Inc (898)
	1995	Salvation Army (601), Farrells Auto Upholsetry (620), Fun Spa Waterbeds and Futons (660), KVS, Inc (690), Ron Sayer Inc (760), Smith Chevrolet Company Inc (805), Chaffin Industries Inc (898)
	2000	Salvation Army (601), Sports Corner (660), Robison Advertising Agency (690), KVS, Inc (690), Ron Sayer Inc (760), Smith Chevrolet Company Inc (805), Chics Lounge (840)
	2005	Salvation Army (601), A Frame (660), **Parts Service Inc. (675)**, Robison Advertising Agency (690), Sayer Parts/Ron Sayer Inc./Sportsman Truck Center (760), Supertanks LLC (805), Creditmaster Finanance LLC (805), Smith Care Store (805), Chics Lounge (840)
	2010	Salvation Army (601), Evolution Comfort Heating (660), Parts Service Inc. (675), Ron Sayer Inc. (760), Supertanks LLC (805), The 840 (840), Enterprise Car Rental of IF (898)
	2014	Salvation Army (601), Barrons Jewelry & Design (660), Evolution Comfort Heating (660), **Parts Service Inc. (675)**, Enterprise Car Rental of IF (898)
Adjoining South 240 May Street	1963, 1966, 1970, 1975, 1980	No listings
	1985	Reliance Metal Works (metal fabrication)
	1992	Reliance Metal Works Inc.
	1995	Idaho Steel Products, Inc., Reliance Metal Works Inc.
	2000, 2005, 2010, 2014	Idaho Steel Products, Inc.

Source: EDR City Directory Image Report

Review of city directory listings identified three nearby off-site former gas stations identified as RECs for the Property:

- 630 Northgate Mile - Fearless Farris Stinker Station/Town Pump;
- 695 & 700 Northgate Mile - Beeline Service Station/Barnes American Service Station/Alvey's Husky Service Station; and
- 385 Elva Street - Whirlwind Car Wash & Service Station.

Review of city directory listings also identified an off-site machine shop at 675 Northgate Mile, which represents a REC for the Property.

4.4.4 Historical Fire Insurance Maps

Fire insurance maps were developed for use by insurance companies to depict facilities, properties, and their uses for many locations throughout the United States. These maps provide information on the history of prior land use and are useful in assessing whether there may be potential environmental contamination on or near the Property. These maps, which have been periodically updated since the late 19th century, often provide valuable insight into historical Property uses.

Stantec contracted with EDR to search for copies of historical fire insurance maps covering the Property and immediately adjacent properties. The Sanborn® Map Search Report is presented in **Appendix E**.

Year	Occupant of Property/Adjoining Properties; Indications of Hazardous Substance or Petroleum Usage
1968	Other than a label indicating use of the Property as "Stock Yards", no details indicating Property features are included on the map. A building labeled as Idaho Falls Street Dept. is located north/east of the Property at the corner of Elva Street and Northgate Mile. An oil house is indicated south of the main building in close proximity to the Property. Across Northgate Mile east of the Property are a number of businesses whose operations include the use of hazardous substances and petroleum products including: 1. Between Whittier Street and College Street, an auto sales and service facility (760 Northgate Mile), retail gas station and auto service facility (700 Northgate Mile), and four "Iron Oil Tanks" depicted within what is inferred to be a concrete containment wall (these may be above ground tanks associated with the retail gas station). 2. A retail gas station (630/640 Northgate Mile) between College Street and May Street.

Source: EDR Certified Sanborn® Map Report

Review of Sanborn® maps has resulted in the identification of two former gas stations identified as RECs for the Property.

4.4.5 Historical Topographic Maps

Stantec reviewed historical USGS Topographic Maps to help identify past Property usage and areas of potential environmental concern. Copies of the historical topographic maps are provided in **Appendix E**. The topographic maps do not provide sufficient detail to evaluate historical uses of the Property or immediate surrounding areas or identify RECs.

Year	Scale	Observations, Property and Adjoining Properties
1948	1:24,000	This map depicts a single building centrally located on the Property (same location as present-day building). In the Property vicinity, a few other buildings, and a street grid that appears identical to the present-day street grid, is shown. A railroad switching yard is present adjacent and west of the Property.
1949 and 1950	1:24,000	No changes to the Property or vicinity are apparent.
1979 and 1981	1:24,000	No changes to the Property or vicinity street grid are apparent. Additional buildings are depicted north of the Property.
2013	1:24,000	This map depicts only the street grid and topography in the Property vicinity.

Source: EDR Historical Topo Map Report

Emissions from railroad locomotives contain particulate matter. The presence of a railroad switching yard adjacent to the site for more than 70 years is considered a REC for the Property.

4.4.6 Other Historical Sources

No other historical sources were researched.

5.0 SITE RECONNAISSANCE

A visit to the Property and its vicinity was conducted by John Rice of Rocky Mountain Environmental Associates (RMEA) on behalf of Stantec on August 9, 2019. Access to the Property was provided by Mr. Richard Schwartz, Property Manager with IF Livestock Commission Co. RMEA was accompanied by Mr. Schwartz during most of the Property visit. Ms. Sharee Palmer, IF Livestock Commission Co. Office Manager, accompanied Mr. Rice during a portion of the interior inspections. **Figure 2** provides information about the Property and adjoining properties and the location of potential areas of environmental concern. Photographs collected during the Property visit are included in **Appendix A**.

5.1 SITE RECONNAISSANCE METHODOLOGY

The site reconnaissance focused on observation of current conditions and observable indications of past uses and conditions of the Property that may indicate the presence of RECs. The reconnaissance of the Property was conducted on foot and RMEA utilized the following methodology to observe the Property:

- Traverse the outer Property boundary.
- Traverse transects across the Property.
- Traverse the periphery of all structures on the Property.
- Visually observe accessible interior areas expected to be used by occupants or the public, maintenance and repair areas, utility areas, and a representative sample of occupied spaces.

Weather conditions during the visit to the Property were clear and sunny. A significant rain shower had occurred the previous evening before the morning site visit on August 9. There were no weather-related Property access restrictions encountered during the reconnaissance visit.

5.2 GENERAL DESCRIPTION

Property and Area Description:	The Property is an active livestock auction yard that has been in operation since the 1930s. There is a two-story building on the Property that houses offices, an inactive café, storage rooms, and an animal show ring and auction arena. An attached one-story steel frame building to the north contains animal pens. The surrounding area is commercial and includes a variety of businesses. A railroad-owned site (with active railroad tracks) that has also been historically used for stockyard operations lies along the entire western boundary of the Property.
Property Operations.	The Property is used as an active livestock auction yard, but the level of usage is substantially reduced from historical operations. The facility is primarily used for short term holding of cattle for sale, though some sheep and pigs are periodically also held on the Property. Animals are no longer received and/or loaded onto railcars, and the entire operation is now supported by truck transportation of livestock.

Structures, Roads, Other Improvements:	There is a single two-story building on the Property of block construction, which houses various offices and storage rooms, the inactive café, and the animal show arena. A connected steel-sided structure on the north side of the main building includes animal chutes and pens that lead to the show arena. Most of the north end of the Property is occupied by animal pens and a connecting grid of alleyways. Much of the alleyways is underlain by concrete, and there are a series of sewer intake grates in the alleyways in the pens area; these are reportedly connected to the city sanitary sewer system.
Property Size (acres):	5.49 acres of private property, plus approximately 2 acres of public right-of-way.
Estimated % of Property Covered by Buildings and/or Pavement:	<10% buildings. ~25% pavement. Note: the extent of concrete beneath animal pens on the north side is difficult to estimate due to cover by manure and other organic material, but the Property Manager reported that all of the alleys and most of the pens are underlain by concrete.
Observed Current Property Use/Operations:	Active livestock auction yard
Observed Evidence of Past Property Use(s):	Property has been a stockyard/auction yard since at least 1936, though the on-site manager indicated that actual stockyard usage pre-dates 1936.
Sewage Disposal Method (and age):	The Property is connected to the city sanitary sewer system. The age of the system presumably extends back to the 1930s.
Potable Water Source:	City system
Electric Utility:	Idaho Falls Power

5.3 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

The following table summarizes Stantec's observations during the Property reconnaissance.

Observations	Description/Location
Hazardous Substances and Petroleum Products as Defined by CERCLA 42 U.S.C. § 9601(14):	There are minor quantities of various cleaning products, paints, etc. located in several of the interior spaces on the Property, however, most appear to be in their original containers, are small in quantity, and are typically neatly stored on shelves with other liquid products. There is a diesel AST, est. 550-gallon capacity, along the east exterior wall of the main building (see Photograph 2, **Appendix A**). Minor staining on the south end of the tank itself and the dispenser hose indicates occasional minor spillage, most likely during handling of the dispenser nozzle during equipment filling. No ground surface stains were observed beneath the tank, which was entirely underlain by pavement. These minor releases are considered a *de minimis* condition. There is a single, small (est. <3 gallon) hydraulic oil reservoir for a hydraulic gate system in the large covered pen area north of the main building. The reservoir is in a wooden enclosure under elevated walkways between the livestock chutes (see Photograph 8 & 9, **Appendix A**).
Drums (≥ 5 gallons):	Three 55-gallon drums were observed on the Property. One was empty and was being used as a table at the vet station, and another at the same location was being used for a trash can. This area is the historical branding pen area in the northeast part of the Property. There is a single open-top 55-gallon drum being used for trash adjacent to the diesel AST.

Observations	Description/Location
Strong, Pungent, or Noxious Odors:	There are strong odors in the pens area due to the accumulation of manure. No other strong odors were noted on the Property.
Pools of Liquid:	As previously noted, there was a significant rain event the evening before the site inspection. Consequently a few surface puddles were observed. Otherwise no pools of liquid were noted on the Property.
Unidentified Substance Containers:	None observed
PCB-Containing Equipment:	A single pole-mounted electrical transformer was observed adjacent to the southwest corner of the main building. It was not labeled with respect to polychlorinated biphenyl (PCB) content. No visual evidence of leakage or staining was observed on or near the transformer. The Property Manager reported that this transformer was replaced several years ago. There are six pole-mounted transformers near the eastern Property boundary along the sidewalk on the west side of Northgate Mile. Only one is labeled with a Non-PCB sticker. One transformer located near the northeast corner of the Property displayed evidence of past leakage (see Photograph 20, **Appendix A**). This feature is not considered a REC as the leakage appeared *de minimis*, and any release from a transformer is the responsibility of the utility (Idaho Falls Power) that owns the transformer. No other equipment that would be likely to contain PCBs was observed on the Property.
Other Observed Evidence of Hazardous Substances or Petroleum Products:	None other evidence of potential hazardous substances or petroleum products, other than that discussed above, was observed.

5.4 INTERIOR OBSERVATIONS

RMEA made the following observations during the Property reconnaissance of the building interiors at the Property and/or identified the following information during the interview or records review portions of the assessment:

Observations	Description
Heating/Cooling Method:	The building is heated by natural gas. No evidence of other heating sources was observed.
Surface Stains or Corrosion:	Minor floor stains were observed in the kitchen area in the café (the café is not in operation).
Floor Drains and Sumps:	There are small floor drains in several interior spaces in the café, including the bathrooms and the kitchen. All are reportedly connected to the City sanitary sewer system.
Other Interior Observations:	As noted above, there are minor quantities of various cleaning products, paints, etc. located in several of the interior spaces on the Property, however, most appear to be in their original containers, are small in quantity, and are typically being stored on shelves with other liquid products.

5.5 EXTERIOR OBSERVATIONS

RMEA made the following observations during the site reconnaissance of exterior areas of the Property and/or identified the following information during the interview or records review portions of the assessment:

Observations	Description
On-site Pits, Ponds, or Lagoons:	None observed.
Stained Soil or Pavement:	Manure staining was common throughout the pens area of the Property, however, this was not associated with hazardous substances or petroleum products.
Stressed Vegetation:	None observed. The Property was mostly un-vegetated.
Waste Streams and Waste Collection Areas:	The only significant solid waste generated at the Property is manure, which is collected in piles in various locations in the pens area and is reportedly hauled off site for use by area farmers as fertilizer.
Solid Waste Disposal:	Manure piles are periodically removed from the Property and are reportedly delivered to various area farmers for use as fertilizer on their fields. No other areas indicative of solid waste disposal were observed.
Potential Areas of Fill Placement:	There were two small stockpiles southwest of the building in the parking/roadway area. One pile appeared to be manure, and the other appeared to be road gravel. There are significant piles of fill on the site to the west of the Property.
Wastewater:	Wastewater from the pens area flows into a series of sewer intakes. There are approximately three of these grated intakes per main alleyway in the pens area. This wastewater, and that from bathrooms in the building, reportedly flow into the city sanitary sewer system.
Stormwater:	Stormwater appears to run off, and in the northern portion of the Property it enters the numerous sewer system intakes in the pens area, all reportedly connected to the City's sanitary sewer system. There are reportedly approximately three intakes per alleyway in the pens area. No significant potential off-site sources of contamination were observed that could flow onto Property via stormwater.
Wells:	No wells were observed on the Property.
Septic Systems:	No visible evidence of the existence of a septic system was observed. As noted above, the Property is connected to the City sanitary sewer system.
Other Exterior Observations:	There are several livestock loading chutes in the central portion of the Property, immediately west of the building. There is an old sheep loading chute along the west edge of the Property west of the three main loading chutes. It was reported by the Property Manager that for a brief period in the past there was a dip trough used for applying pesticides to livestock in the area of the sheep chute. His recollection was that the dip chemical was a creosote-based liquid. The concrete underlying much of the pens area is reportedly on average approximately 4 inches thick.

5.6 UNDERGROUND STORAGE TANKS/STRUCTURES

Existing USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), which would indicate the presence of USTs, was discovered during the site reconnaissance.
Former USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), reports, or other evidence of the former presence of USTs was discovered during this Phase I ESA.
Other Underground Structures:	None observed.

5.7 ABOVEGROUND STORAGE TANKS

Existing ASTs:	There was an active diesel AST on a stand along the east side of the building. The tank was of steel construction and appears to be of 550-gallon capacity. The tank is reportedly used to store fuel for the Bobcat skid steers used for manure loading. Minor staining on the south end of the tank itself and the dispenser hose indicates occasional minor spillage, most likely during handling of the dispenser nozzle during equipment filling. No ground surface stains were observed beneath the tank, which was entirely underlain by pavement. These minor releases are considered a *de minimis* condition.
Former ASTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), reports, or other evidence of the former presence of ASTs was discovered during this Phase I ESA.

5.8 ADJOINING PROPERTIES

5.8.1 Current Uses of Adjoining Properties

As viewed from the Property and/or from public rights-of-way, Stantec made the following observations about use and activities on adjoining properties:

NORTH	High Desert Performance, Fast Signs and E. Elva Street; Ray Core Inc. are north of E. Elva Street
EAST	Parts Service (formerly Cal Ranch), and Northgate Mile roadway (various commercial businesses to the east of Northgate Mile, including Enterprise Rent-a-Car, Navas Western Wear, Ron Sayer Used Car Superstore, Northgate Antiques, Barrons Jewelry Repair, Farrell's Auto Upholstery, and Scotty's Hamburgers)
SOUTH	Extension of May Street, and Idaho Steel, and several small Mexican restaurants and grocers
WEST	Railroad property (inactive stockyard), railroad tracks, and residential area beyond

5.8.2 Observed Evidence of Past Uses of Adjoining Properties

Observations of adjoining properties providing indications of past use and activities, if any, are described below.

NORTH	None observed
EAST	None observed

SOUTH	None observed
WEST	None observed

5.8.3 Pits, Ponds or Lagoons on Adjoining Properties

As viewed from the Property and/or from public rights-of-way, Stantec made the following observations about the presence of pits, ponds and lagoons on adjoining properties:

NORTH	None observed
EAST	None observed
SOUTH	None observed
WEST	None observed

5.9 OBSERVED PHYSICAL SETTING

Topography of the Property and Surrounding Area:	The eastern portion of the Property adjacent to Northgate Mile is a topographic ridge underlain by shallow basalt bedrock (exposed at ground surface in many locations). This ridge drops to the west to the low relief portion of the Property, which makes up most of the Property. There is a very slight grade downward to the southwest across the low relief portion of the Property, which is corroborated by topographic mapping of the area.

6.0 INTERVIEWS

Stantec conducted interviews with the following individuals:

Name and Contact Information	Relationship to Property	Key findings:
Richard Schwartz	Long-time Property Manager with IF Livestock Commission Co	Richard Schwartz accompanied Stantec during the site reconnaissance. Information obtained from Mr. Schwartz during the site reconnaissance is included in the pertinent sections of this report.
Adrian Chapman	Idaho DEQ	In a telephone interview, Mr. Chapman indicated that he was not aware of any environmental releases that may impact the Property. Mr. Chapman also confirmed that the conclusion reached by Stantec that the Barnes American Service and R&R Service environmental database listings are associated with properties located >0.5 miles south of the Property is correct.

7.0 EVALUATION

This section provides a summary overview of or Findings, Opinions, and Conclusions.

7.1 FINDINGS AND OPINIONS

Information gathered from interviews, reviews of existing data, and a Property reconnaissance was evaluated to determine if RECs are present in connection with the Property. Based on this information, Stantec made the following findings and developed the following opinions.

Finding 1: The Property has been used as a stockyard and livestock auction yard for more than 80 years. Pesticides are commonly used at such facilities to 1) control insects on livestock, and 2) to control unwanted vegetation. During the site reconnaissance, mention of a sheep dipping operation was made, although this operation was reportedly of short duration.

Opinion 1: The potential for the use of persistent pesticides at the Property is considered a REC.

Finding 2: Petroleum is stored/used in two areas of the Property: diesel is stored in a 550-gallon AST and hydraulic oil is used in at gate opening system in the covered animal pens area.

Opinion 2: Evidence of negligible releases was noted in these two petroleum storage areas. These negligible releases are considered a *de minimis* condition.

Finding 3: Historical records indicate that a railroad switching yards has been located adjacent and west of the Property since the 1940s.

Opinion 3: The material threat of an airborne release from railroad diesel locomotive emissions is considered a REC for the Property.

Finding 4: Several off-site facilities have been identified that pose a material threat of a release that has the potential to impact the Property. These include historical gas stations at 385 Elva Street, 630 Northgate Mile and 700 Northgate Mile, and a historical machine shop at 675 Northgate Mile.

Opinion 4: These off-site facilities constitute a REC and potential VEC for the Property.

7.2 DATA GAPS

The federal AAI final rule [40 CFR 312.10(a)] and ASTM E1527-13 identify a “data gap” as the lack or inability to obtain information required by the standards and practices of the rule despite good faith efforts by the Environmental Professional or the User.

Any data gaps resulting from the Phase I ESA described in this report are listed and discussed below.

Gap	Discussion
Deletions or Exceptions from Scope of Work Referenced in Section 1.4:	None
Weather-Related Restrictions to Site Reconnaissance:	None
Facility Access Restrictions to Site Reconnaissance:	None
Other Site Reconnaissance Restrictions:	None
Data Gaps from Environmental Records Review:	None
Data Gaps from Historical Records Review:	Stantec was not able to obtain historical records that document the Property history in 5-year intervals. This data gap did not significantly impair our ability to identify RECs.
Data Gaps from Interviews:	None
Other Data Gaps:	None

7.3 CONCLUSIONS

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of 701 Northgate Mile, Idaho Falls, Idaho, the Property. Any exceptions to, or deletions from, this practice are described in Section 2.3 and 7.2 of this report. This assessment has revealed the following evidence of RECs in connection with the Property:

1. The Property has been used as a stockyard and livestock auction yard for more than 80 years. Pesticides are commonly used at such facilities to 1) control insects on livestock, and 2) to control unwanted vegetation. During the site reconnaissance, mention of a sheep dipping operation was made, although this operation was reportedly of short duration. The potential for the use of persistent pesticides at the Property is considered a REC.
2. Historical records indicate that a railroad switching yard has been located adjacent and west of the Property since the 1940s. The material threat of an airborne release from railroad diesel locomotive emissions is considered a REC for the Property.
3. Several off-site facilities have been identified that pose a material threat of a release that has the potential to impact the Property. These include historical gas stations at 385 Elva Street, 630 Northgate Mile and 700 Northgate Mile, and a historical machine shop at 675 Northgate Mile. These off-site facilities constitute a REC and potential VEC for the Property.

Based on these findings, assessment which may include soil, groundwater and/or soil gas sampling is recommended on the Property to evaluate the RECs identified.

8.0 NON-SCOPE CONSIDERATIONS

The scope of work completed was limited solely to those items in the ASTM E1527-13 standard. No ASTM E1527-13 non-scope services were performed as part of this Phase I ESA.

9.0 REFERENCES

American Society for Testing and Materials, 2015. Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, Designation E 2600-15.

American Society for Testing and Materials, 2013. Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Designation: E 1527-13.

Phillips and Welhan, 2011. Geologic Map of the Idaho Falls South Quadrangle, Bingham and Bonneville Counties, Idaho.

FIGURES

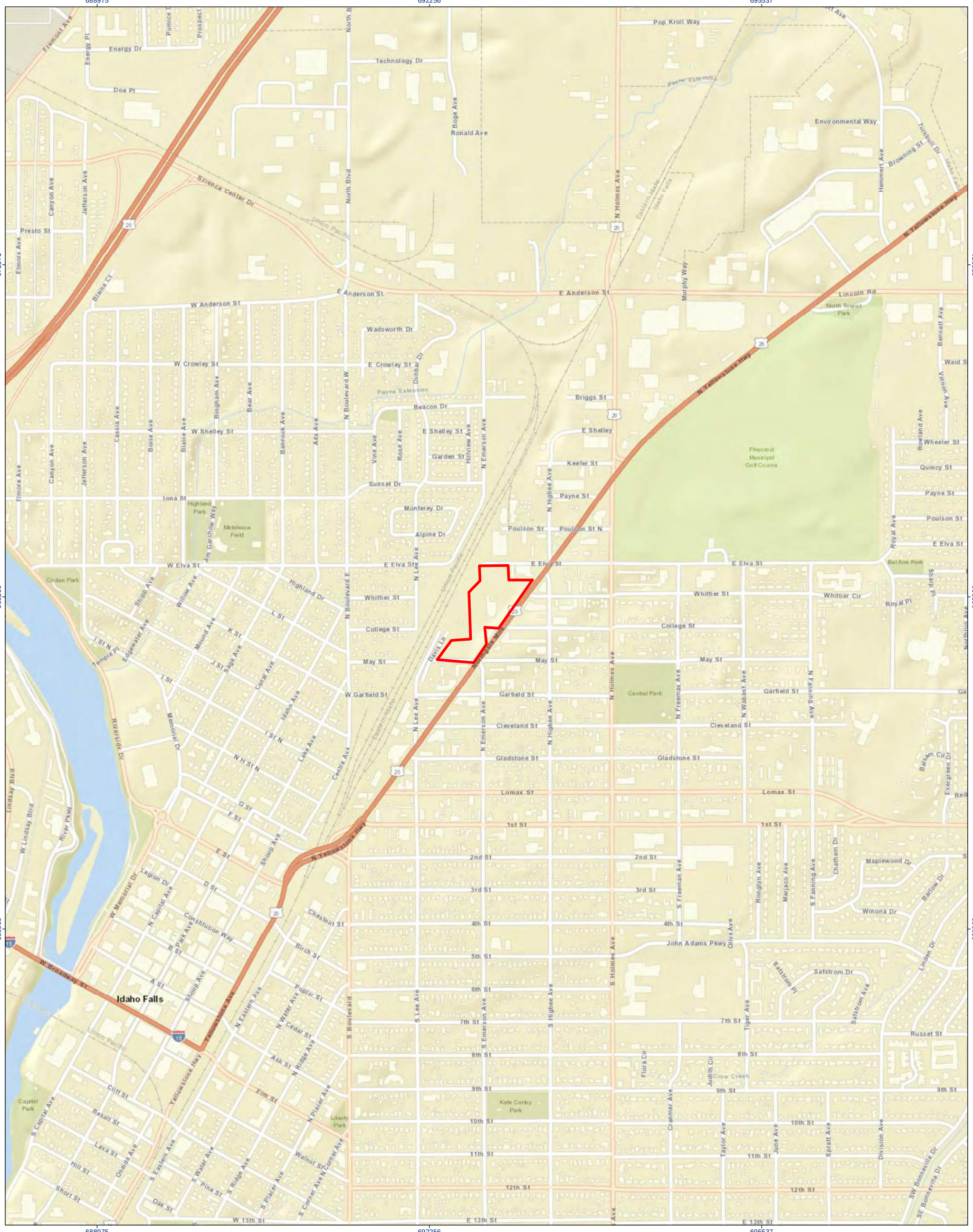
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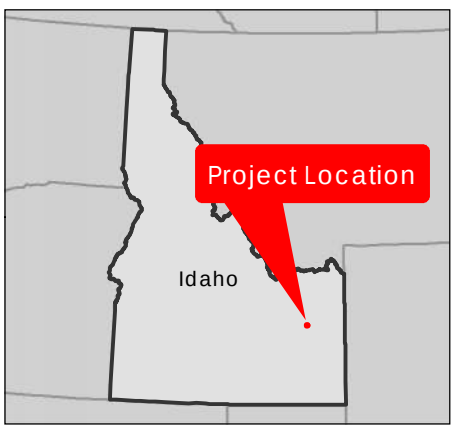
672571

669290

666009



688975 692256 695537



Legend

Approximate Property Area

0 1,100 2,200 Feet

1:12,000 (At Original document size of 11x17)

N

Stantec

Project Location
701 Northgate Mile
Idaho Falls, ID

185751005

Prepared by DH on 2019-08-06
Technical Review by CR on 2019-08-xx
Independent Review by LF on 2019-08-xx

Client/Project

City of Idaho Falls
701 Northgate Mile Phase I ESA

Figure No.
1

Title

Property Area Map

Figure 1-0.0

Notes

1. Coordinate System: NAD 1983 2011 StatePlane Idaho East FIPS 1101 Ft US
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2013.
3. Orthoimagery © First Base Solutions, 2018.

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V:\1857\Active\185751005\mxds\Figures\Stockyard Phase I ESA\Stockyard-Figure2.mxd Revised: 2019-08-19 By: jbrenner

692256

669290

RPA0420004015B

Covered Animal Pens

550-gallon AST

Gate Hydraulic Oil Reservoir

Office and Auction Area

Sheep Dipping Area

Emerson St

College St

Northgate Mile

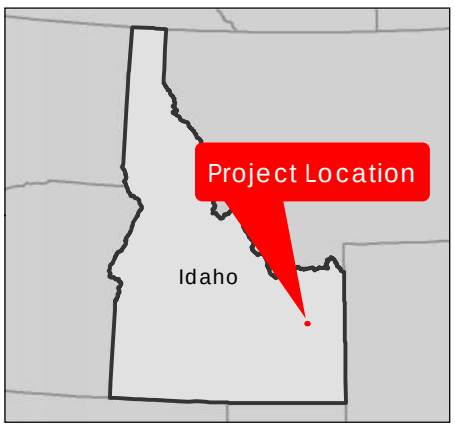
Davis Ln

Hay Storage

RPA0620001044B

May St

692256



Legend

Approximate Property Area

Approximate Tax Lot Boundaries

1044B Tax Lot ID Number

0 125 250 Feet

1:1,500 (At Original document size of 11x17)

N

Stantec

Project Location 185751005

701 Northgate Mile
Idaho Falls, ID

Prepared by DH on 2019-08-06
Technical Review by CR on 2019-08-19
Independent Review by LF on 2019-08-19

Client/Project

City of Idaho Falls
701 Northgate Mile Phase I ESA

Figure No.

2

Title

Property Vicinity Map

Notes

1. Coordinate System: NAD 1983 2011 StatePlane Idaho East FIPS 1101 Ft US
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2013.
3. Orthoimagery © First Base Solutions, 2018.

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APPENDICES

Appendix A Photographs of the Property and Vicinity



Photograph 1. Building on site, offices to right and upstairs, closed café to left; viewing north.



Photograph 2. East side of main building at left, pens building to right, and open pens area beyond; viewing north-northwest.



Photograph 3. Livestock loading chutes, main building to right; viewing north.



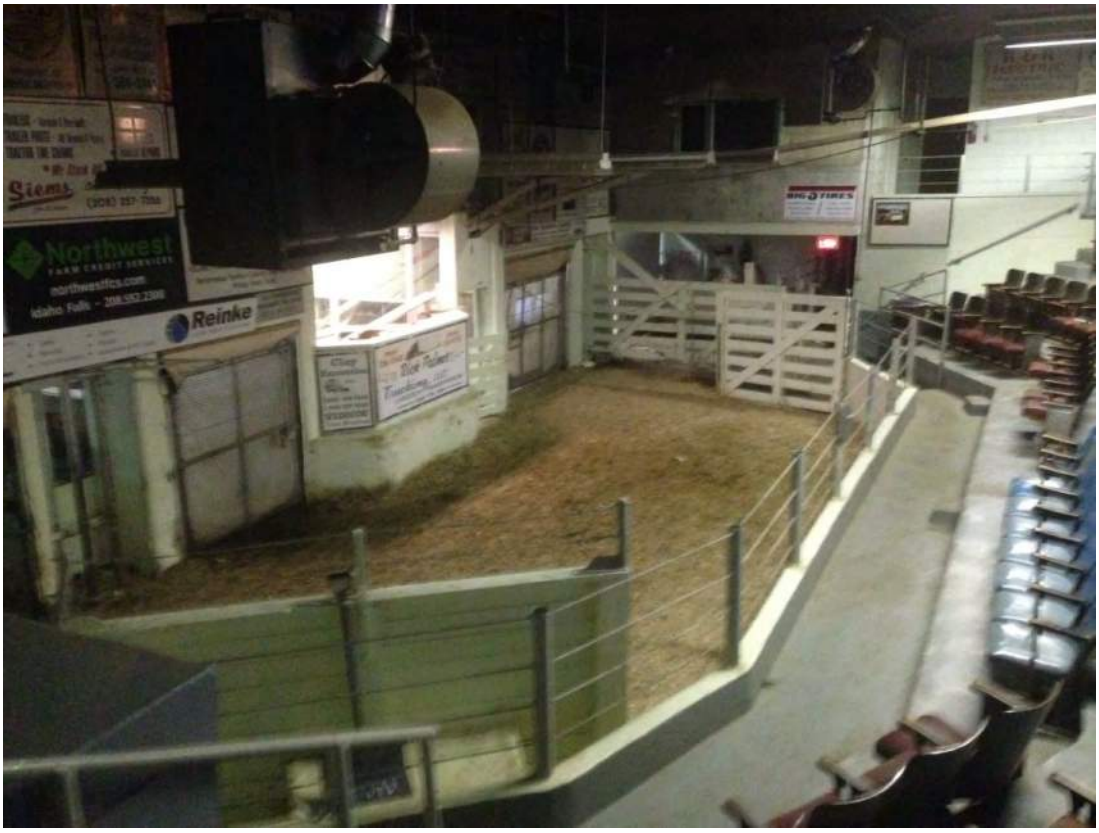
Photograph 4. Main pens area, note shallow bedrock to right; viewing northeast.



Photograph 5. South end of Property, viewing north. Main building and pens area visible in background, hay stack storage area to left.



Photograph 6. Main office.



Photograph 7. Livestock show ring and auction arena in main building.



Photograph 8. Hydraulic gates in pens building north of main building.



Photograph 9. Hydraulic fluid reservoir located below elevated walkways in the pens building, part of the hydraulic gate system. Minor oil spillage was visible on the tank.



Photograph 10. Typical basalt bedrock which outcrops along much of the eastern (elevated) side of the Property.



Photograph 11. Former branding station currently the vet station in the open pens area. Used for pregnancy and blood testing. 55 gallon drum is a trash can.



Photograph 12. Typical alleyway with pens to right and left. Note sewer system intake in foreground. There are approximately 3 of these intake grates per alleyway; they are reportedly connected to the city sanitary sewer system.



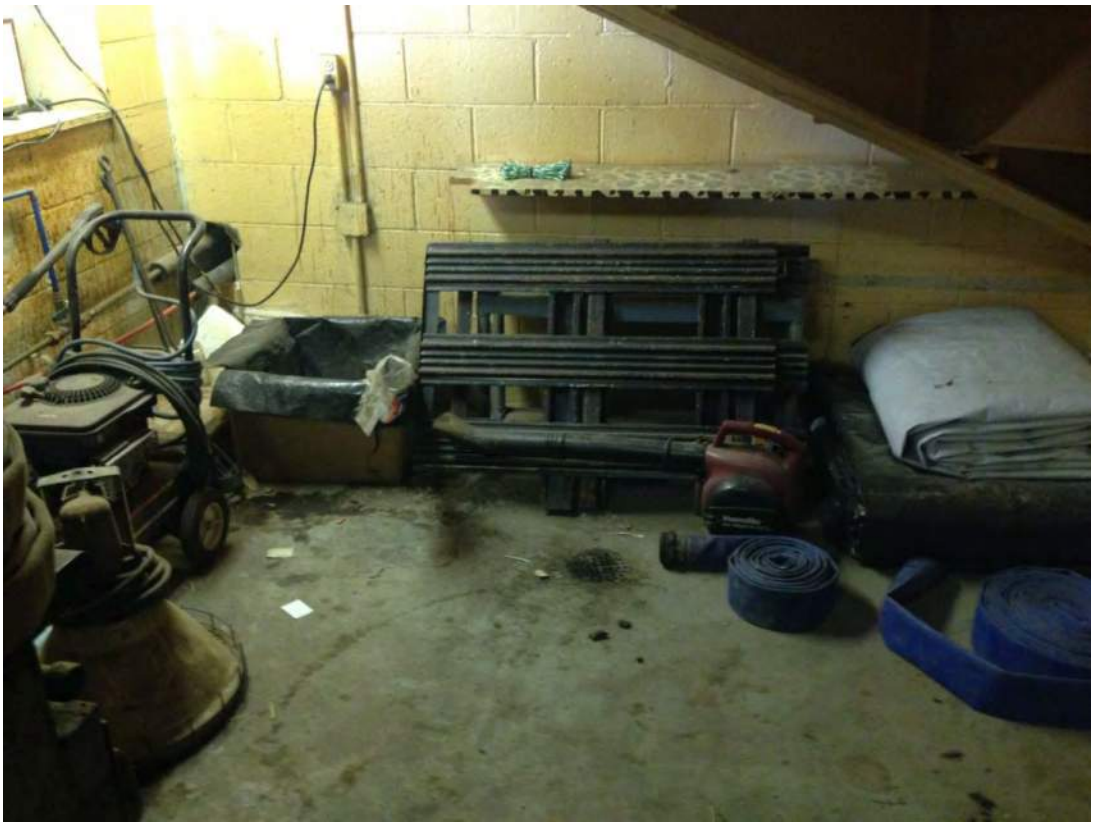
Photograph 13. Hay storage at the south end of the Property; viewing southwest.



Photograph 14. Interior of the closed café.



Photograph 15. Misc. liquid product storage in the former café.



Photograph 16. Typical small floor drain; former kitchen area in the café. All floor drains are reportedly connected to the city sanitary sewer system.



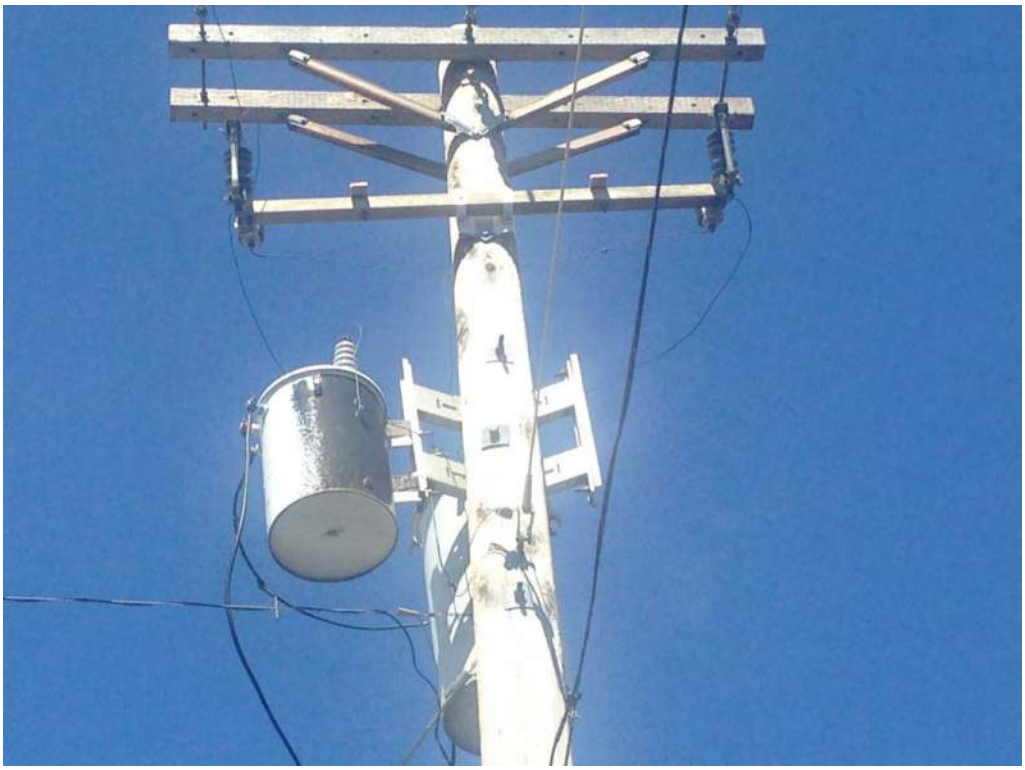
Photograph 17. Diesel fuel AST along east wall of the pens building. 55 gallon drum is a trash barrel.



Photograph 18. Minor staining visible on lower exterior of AST, upper portion of stand, and upper part of the dispenser hose; no staining of the pavement beneath the tank.



Photograph 19. Former sheep loading chute along the western boundary of the Property; viewing north. There was reportedly a sheep dip trough at this location for a brief period in the distant past.



Photograph 20. Stained electrical transformer along west side of Northgate Mile, located immediately adjacent to the northeast corner of the Property.

Appendix B STANTEC RESUMES

Leonard Farr Jr. RG

Senior Associate/Geolgist

Leonard Farr Jr. is a senior associate with Stantec Consulting Services, Inc. Mr. Farr has worked as an environmental consultant in Portland, Oregon for 27 years. Mr. Farr regularly assists clients with complex regulatory issues, with particular emphasis in the areas of environmental due diligence, brownfield redevelopment, remedial investigation/feasibility study (RI/FS), and cleanups of contaminated land. Mr. Farr has considerable experience in risk-based corrective action for a wide variety of environmental media including sediment, soil, groundwater, and soil vapor. He has routinely negotiated site closures with state (Oregon and Washington) and federal environmental regulatory agencies.

REPRESENTATIVE WORK

- Managed more than 500 due diligence projects (Phase I and II Environmental Site Assessments) for a variety of Portland-based local government and commercial clients.
- Assisted a variety of clients in the acquisition, assessment, cleanup, and redevelopment of brownfield properties. Two brownfield projects managed by Mr. Farr have received national awards for excellence in brownfield redevelopment. Mr. Farr also has assisted local government clients in preparing U.S. Environmental Protection Agency brownfield grant applications that since 2012, has resulted in $2.2 M in funding to Oregon communities.
- Managed numerous complex RI/FS projects within state and federal regulatory programs. These projects have involved the collection of thousands of samples, the assessment of risk associated with contaminants detected in the samples, and the analysis of corrective action alternatives to mitigate contaminants detected at concentrations exceeding acceptable risk levels.
- Completed a wide variety of cleanup projects utilizing a myriad of cleanup technologies including dig & haul, pump & treat, soil vapor extraction, and air sparging. Mr. Farr also has substantial experience in the application of institutional and engineering controls.

EDUCATION

BS, Geology, Portland State University, 1987

MS, Geology, Portland State University, 1989

40-Hour Hazardous Waste Worker (29 CFR 1910.120), 1989

REGISTRATIONS

Registered Geologist, Oregon, #1169

Licensed Geologist, Washington, #1849

Carrie Rackey CHMM

Associate/Project Manager

Carrie Rackey has 16 years of experience in the environmental field, in both regulatory and consulting roles. Ms. Rackey has developed a career focus on brownfield redevelopment and environmental due diligence. She has a comprehensive background as an environmental professional, including grant writing and implementation, Phase I and II Environmental Site Assessment, remediation system management, risk assessment, and environmental compliance.

Carrie has helped numerous Oregon communities successfully compete for US Environmental Protection Agency Brownfield Grants to help communities identify, prioritize, and assess environmental risks at abandoned and underused sites. Ms. Rackey guides communities through implementation of brownfield grant projects, keeping the ultimate goals of sustainability, community benefit, and economic growth in mind.

Carrie has an extensive foundation of environmental due diligence projects, conducting Phase I and II Environmental Site Assessments for public and private clients in two countries and seven states. She is adept at fulfilling the requirements for All Appropriate Inquiry and conducting assessments in compliance with ASTM 1527-13.

EDUCATION

BA, International Affairs, Florida State University, 1996

Graduate coursework in environmental policy, chemistry, and hydrogeology, University of Wisconsin, 1998-2000

40-Hour Health & Safety Certification (29 CFR 1910.120), North Carolina State University, 2006

REGISTRATIONS

Certified Hazardous Materials Manager, #14666

Appendix C USER PROVIDED RECORDS

Stantec

PHASE I ESA USER'S QUESTIONNAIRE

In order to qualify for protection from land owner liability under CERCLA as an *innocent landowner, bona fide prospective purchaser,* or *contiguous property owner*, ASTM standard practice E1527-13 and the federal AAI rule (40 CFR 312) require that the User of the Phase I ESA report provide certain information (if available) to the Environmental Professional completing the assessment. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. Information that is not or cannot be provided to the Environmental Professional may be identified as a "data gap" in the Phase I ESA report.

Please answer the following questions as completely as possible. Attach additional pages as needed. Return the completed questionnaire to Stantec along with the executed Authorization for Services form.

1. Property Information

Property Name: Idaho Livestock Commission Company

Property Address: 701 Northgate Mile

City: Idaho Falls State: ID Zip: 83402

Property Owner Name: unknown

Property Owner Phone #: —

2. Key Site Manager

This should be an individual with good knowledge of the uses and physical characteristics of the property, and the processes or activities currently conducted at the property. Often this will be the property manager, chief physical plant supervisor, or head maintenance person.

Name: unknown

Company/Organization/Title:

Phone #

E-Mail Address:

3. Contact For Site Access *(if different from Key Site Manager)*

Name: unknown

Company/Organization/Title:

Phone #

E-Mail Address:

4. Environmental Cleanup Liens. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

____	Yes (describe or attach details of the lien)	
Y	No	I have no knowledge of this

Stantec

5. Activity and Land Use Limitations. Are you aware of any activity and use limitations, such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded as applicable to the property as a result of environmental contamination, investigation, cleanup, or related matters?

____ Yes (describe or attach details of the limitations) _____

_X_ No I have no knowledge on this

6. Specialized Knowledge or Experience. As the User of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property, such that you would have specialized knowledge about chemicals and processes used by this type of business?

____ Yes (describe or attach details of your specialized knowledge or experience) _____

_X_ No

7. Relationship of Purchase Price to Fair Market Value of Property. Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, do you have any reason to believe that the reduced purchase price may be related to contamination known or believed to be present at the property?

_Y_ Yes, I have reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property. pending ESA & Geo Studies

____ No, I have no reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property.

____ Not applicable. User is not involved in a purchase or sale of the property.

8. Commonly Known or Reasonably Ascertainable Information. Are you aware of commonly known or reasonably ascertainable information about the property that would help the Environmental Professional to identify conditions indicative of releases or threatened releases of hazardous substances or petroleum products? For example:

Do you know the past uses of the property?

____ Yes (describe) _____

_X_ No

Do you know of chemicals, hazardous substances or petroleum products that are present or once were present at the property?

____ Yes (describe) _____

_X_ No

Stantec

Do you know of spills or other releases of chemicals, hazardous substances or petroleum products that have taken place at the property?

____ Yes (describe) _____

X No

Do you know of any environmental cleanups that have taken place at the property?

____ Yes (describe) _____

X No

9. The Degree of Obviousness of Contamination. E1527-05 and the federal AAI rule (40 CFR 312.31) require that the Phase I ESA consider the degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation. Based on your knowledge and experience related to the property, are there any *obvious* indictors that point to the presence or likely presence of contamination at the property?

____ Yes (describe) _____

X No

10. Availability of Previous Environmental Reports. Are you aware of previous environmental site assessment reports, other environmental reports, documents, correspondence, etc. concerning the property and its environmental condition?

____ Yes (please identify and provide copies, if available) _____

X No

Signature: Royce A Clements

Name (printed): Royce A. Clements

Company: Idaho Falls Police Dept

Title: Captain

Date: 8-15-19

Appendix D ENVIRONMENTAL AGENCY DATABASE SEARCH REPORT

IF Livestock Commission Co.
701 Northgate Mile
Idaho Falls, ID 83401

Inquiry Number: 5738976.2s
August 02, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-8
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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

701 NORTHGATE MILE
IDAHO FALLS, ID 83401

COORDINATES

Latitude (North):	43.5030390 - 43° 30' 10.94''
Longitude (West):	112.0279140 - 112° 1' 40.49''
Universal Tranverse Mercator:	Zone 12
UTM X (Meters):	416900.5
UTM Y (Meters):	4816976.5
Elevation:	4723 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5968654 IDAHO FALLS NORTH, ID
Version Date:	2013
South Map:	5968834 IDAHO FALLS SOUTH, ID
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150626
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
701 NORTHGATE MILE
IDAHO FALLS, ID 83401

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	BARNES AMERICAN SERV	695 YELLOWSTONE	EDR Hist Auto	Higher	28, 0.005, South
A2	BARNES AMOCO	695 YELLOWSTONE	UST, Financial Assurance	Higher	28, 0.005, South
B3	R & R SERVICE	775 N YELLOWSTONE	UST	Higher	32, 0.006, ESE
B4	R & R SERVICE	775 N YELLOWSTONE	EDR Hist Auto	Higher	32, 0.006, ESE
A5	JERRYS MACHINE & ENG	675 N YELLOWSTONE HW	ALLSITES	Higher	41, 0.008, SSW
C6	SMITH INTERMOUNTAIN	805 NORTHGATE MILE	ALLSITES	Higher	68, 0.013, NE
C7	SMITH INTERMOUNTAIN	805 NORTHGATE MILE	RCRA NonGen / NLR, FINDS, ECHO	Higher	68, 0.013, NE
B8	RON SAYER INC	760 NORTHGATE MILE	ALLSITES	Higher	101, 0.019, ESE
B9	RON SAYER DODGE 1	760 NORTHGATE MILE	UST	Higher	101, 0.019, ESE
D10	ECO MAN	301 E ELVA	RCRA NonGen / NLR	Higher	107, 0.020, North
D11	ECO MAN	301 E ELVA	ALLSITES	Higher	107, 0.020, North
B12	ALVEYS BEELINE	700 NORTHGATE MILE	EDR Hist Auto	Higher	117, 0.022, ESE
E13	CROCKET CONOCO SERVI	555 YELLOWSTONE	EDR Hist Auto	Higher	189, 0.036, SSW
C14	AAMCO TRANSMISSIONS	335 E ELVA	EDR Hist Auto	Higher	238, 0.045, NE
F15	DYNAMICS INC	340 MAY ST	UST, ALLSITES	Higher	378, 0.072, SSE
F16	VORRHIS ARTHUR	330 MAY ST	EDR Hist Auto	Higher	414, 0.078, SSE
E17	RON SAYER DODGE 1	490 NORTHGATE MILE	ALLSITES	Higher	417, 0.079, SSW
E18	RON SAYER DODGE	490 NORTHGATE MILE	UST	Higher	417, 0.079, SSW
G19	BRAD & JEANNETTE CHA	444 E. ELVA ST.	UST, ALLSITES	Higher	426, 0.081, ENE
G20	CHAFFIN OLDSMOBILE	445 WHITTIER	UST, ALLSITES	Higher	436, 0.083, East
H21	RITE STOP	955 NORTHGATE MILE	EDR Hist Auto	Higher	492, 0.093, NE
H22	VOYAGER LANDHOLDINGS	955 NORTHGATE MILE	UST, ALLSITES, Financial Assurance	Higher	492, 0.093, NE
I23	TETON AUTOCOLOR & IN	450 WHITTIER ST	ALLSITES	Higher	554, 0.105, East
I24	TETON AUTOCOLOR & IN	450 WHITTIER	RCRA NonGen / NLR, FINDS, ECHO	Higher	554, 0.105, East
J25	JERRYS NORTHGATE	410 NORTHGATE MILE	EDR Hist Auto	Lower	591, 0.112, SSW
J26	HARD TOP CARS	401 NORTHGATE MILE	UST, ALLSITES	Lower	593, 0.112, SSW
J27	DARRELLS EXXON SERVI	401 NORTHGATE MILE	EDR Hist Auto	Lower	593, 0.112, SSW
H28	BOUNTIFULL GROUP INC	960 NORTHGATE MILE	EDR Hist Auto	Higher	626, 0.119, NE
H29	ON-THE-GO AMOCO	960 NORTHGATE MILE	UST, ALLSITES, Financial Assurance	Higher	626, 0.119, NE
30	DEAN R LOWE	389 GARFIELD	UST, ALLSITES	Higher	650, 0.123, SSE
I31	ERMALS AUTO BODY INC	471 COLLEGE	ALLSITES	Higher	723, 0.137, ESE
I32	ERMALS AUTO BODY INC	471 COLLEGE	RCRA-CESQG, US AIRS	Higher	723, 0.137, ESE
K33	BROADWAY FORD (NORTH	1051 NORTHGATE MILE	ALLSITES	Higher	843, 0.160, NE
L34	PACIFIC STEEL HIDES	395 PAYNE ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	857, 0.162, NNE
L35	PACIFIC STEEL HIDES	395 PAYNE ST	ALLSITES	Higher	857, 0.162, NNE
K36	IDAHO FALLS U-HAUL	1091 N YELLOWSTONE	UST, ALLSITES, Financial Assurance	Higher	1030, 0.195, NE
K37	FIRESTONE	1060 NORTHGATE	UST, ALLSITES	Higher	1082, 0.205, NE
38	SMITH CHEVROLET CO I	1255 N HOLMES	UST, ALLSITES	Higher	1511, 0.286, NE
M39	FIRST ST AUTOMOTIVE	253 1ST ST	ALLSITES	Lower	1569, 0.297, SSW

MAPPED SITES SUMMARY

Target Property Address:
701 NORTHGATE MILE
IDAHO FALLS, ID 83401

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
M40	MODEL CLEANERS	265 1ST ST	ALLSITES	Lower	1584, 0.300, SSW
N41	WR SHERWIN WILLIAMS	170 NORTHGATE MILE	ALLSITES	Lower	1600, 0.303, SSW
42	FIRST ST PLUMBING	345 1ST ST	ALLSITES	Higher	1622, 0.307, South
43	KIM CAMPBELL CO INC	320 N HOLMES AVE	ALLSITES	Higher	1649, 0.312, SE
44	ALEX D CREEK	320 1ST ST	UST, ALLSITES	Higher	1710, 0.324, South
45	FALLS PRINTING LLC F	180 FIRST ST	ALLSITES	Lower	1737, 0.329, SSW
46	SARGENT MECHANICAL	357 BRIGGS ST	ALLSITES	Higher	1743, 0.330, North
N47	BLUE BELL	125 NORTHGATE MILE	LUST, UST, ALLSITES	Lower	1774, 0.336, SW
48	CADILLAC WACKERLI AU	1363 N HOLMES AVE	ALLSITES	Higher	1787, 0.338, NNE
49	IDAHO FALLS SECTION	MP 185	UST, ALLSITES	Lower	1874, 0.355, SW
50	CITY OF IDAHO FALLS	CLEVELAND ST AND FRE	ALLSITES	Higher	1886, 0.357, SE
51	SINCLAIR RETAIL # 11	1115 N YELLOWSTONE	LUST, UST, ALLSITES, SPILLS, Financial Assurance	Higher	1975, 0.374, NE
52	NORMAN SUPPLY CO	201 S BLVD	ALLSITES	Lower	1982, 0.375, SSW
O53	SINCLAIR RETAIL NO 1	495 1ST ST	ALLSITES	Higher	2005, 0.380, SSE
O54	STINKER #28	496 E 1ST ST	UST, ALLSITES, Financial Assurance	Higher	2098, 0.397, SSE
55	IDAHO FALLS BMC	1425 N HOLMES	UST, ALLSITES	Higher	2153, 0.408, NNE
56	COUNTRY CLUB CLEANER	505 1ST ST	ALLSITES	Higher	2178, 0.412, SSE
57	RUSH AUTO PARTS STOR	1385 NORTHGATE MILE	UST, ALLSITES	Higher	2283, 0.432, NE
P58	SCOMEY OIL	995 SHOUP	UST, ALLSITES	Lower	2359, 0.447, SW
59	PINECREST GOLF COURS	701 E ELVA	UST, ALLSITES	Higher	2419, 0.458, East
60	LAVAR F ALVEY	1515 N HOLMES	UST, ALLSITES	Higher	2438, 0.462, NNE
61	ROCKY MOUNTAIN TOYOT	402 E ANDERSON	ALLSITES	Higher	2491, 0.472, North
P62	IMPERIAL MOTORS INC	883 SHOUP	UST, ALLSITES	Lower	2532, 0.480, SW
63	D & L CLEANERS	594 E 1ST ST	ALLSITES, SPILLS	Higher	2561, 0.485, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

EXECUTIVE SUMMARY

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS ---------- This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Landfills

State and tribal leaking storage tank lists

LAST ---------- Leaking Aboveground Storage Tanks
INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

INST CONTROL ---------- Sites with Institutional Controls Restricting Use

State and tribal voluntary cleanup sites

VCP ---------- Voluntary Cleanup Program Sites
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---------- Brownfields Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF ---------- Idaho Historical Landfills
SWTIRE ---------- Waste Tire Collection Sites
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register

CDL ---------- Clandestine Drug Labs
US CDL ---------- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---------- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
SPILLS ---------- Spills Data
SPILLS 90 ---------- SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ---------- Formerly Used Defense Sites
DOD ---------- Department of Defense Sites
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---------- Financial Assurance Information
EPA WATCH LIST ---------- EPA WATCH LIST
2020 COR ACTION ---------- 2020 Corrective Action Program List
TSCA ---------- Toxic Substances Control Act
TRIS ---------- Toxic Chemical Release Inventory System
SSTS ---------- Section 7 Tracking Systems
ROD ---------- Records Of Decision
RMP ---------- Risk Management Plans
RAATS ---------- RCRA Administrative Action Tracking System
PRP ---------- Potentially Responsible Parties
PADS ---------- PCB Activity Database System
ICIS ---------- Integrated Compliance Information System
FTTS ---------- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---------- Material Licensing Tracking System
COAL ASH DOE ---------- Steam-Electric Plant Operation Data
COAL ASH EPA ---------- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---------- PCB Transformer Registration Database
RADINFO ---------- Radiation Information Database
HIST FTTS ---------- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---------- Incident and Accident Data
CONSENT ---------- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---------- Indian Reservations
FUSRAP ---------- Formerly Utilized Sites Remedial Action Program
UMTRA ---------- Uranium Mill Tailings Sites
LEAD SMELTERS ---------- Lead Smelter Sites
US AIRS ---------- Aerometric Information Retrieval System Facility Subsystem
US MINES ---------- Mines Master Index File
ABANDONED MINES ---------- Abandoned Mines
FINDS ---------- Facility Index System/Facility Registry System
UXO ---------- Unexploded Ordnance Sites
ECHO ---------- Enforcement & Compliance History Information
DOCKET HWC ---------- Hazardous Waste Compliance Docket Listing
FUELS PROGRAM ---------- EPA Fuels Program Registered Listing
AIRS ---------- Permitted Sources & Emissions Listing
DRYCLEANERS ---------- Drycleaner Listing
Financial Assurance ---------- Financial Assurance Information Listing

EXECUTIVE SUMMARY

TIER 2 ---------- Tier 2 Data Listing
UIC ---------- Underground Injection Wells Database Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---------- EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner ---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ERMALS AUTO BODY INC EPA ID:: IDD982656092	***471 COLLEGE***	***ESE 1/8 - 1/4 (0.137 mi.)***	***I32***	***23***

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's Idaho Leaking UST Tracking Form database.

A review of the LUST list, as provided by EDR, and dated 04/02/2019 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SINCLAIR RETAIL # 11 Cleanup Date: 06/30/1992 Status: Confirmed Release Facility Id: 6-100603	***1115 N YELLOWSTONE***	***NE 1/4 - 1/2 (0.374 mi.)***	***51***	***33***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BLUE BELL Status: Confirmed Release Facility Id: 6-100600	***125 NORTHGATE MILE***	***SW 1/4 - 1/2 (0.336 mi.)***	***N47***	***31***

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Registered UST's in Idaho list.

A review of the UST list, as provided by EDR, and dated 04/02/2019 has revealed that there are 13 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARNES AMOCO Facility Id: 6-100178 Tank Status: Closed	***695 YELLOWSTONE***	***S 0 - 1/8 (0.005 mi.)***	***A2***	***8***
R & R SERVICE Facility Id: 6-100182 Tank Status: Closed	775 N YELLOWSTONE	ESE 0 - 1/8 (0.006 mi.)	B3	8
RON SAYER DODGE 1 Facility Id: 6-100678 Tank Status: Closed	760 NORTHGATE MILE	ESE 0 - 1/8 (0.019 mi.)	B9	11
DYNAMICS INC Facility Id: 6-100222 Tank Status: Closed	***340 MAY ST***	***SSE 0 - 1/8 (0.072 mi.)***	***F15***	***14***
RON SAYER DODGE Facility Id: 6-100089 Tank Status: Closed	490 NORTHGATE MILE	SSW 0 - 1/8 (0.079 mi.)	E18	15
BRAD & JEANNETTE CHA Facility Id: 6-100734 Tank Status: Closed	***444 E. ELVA ST.***	***ENE 0 - 1/8 (0.081 mi.)***	***G19***	***15***
CHAFFIN OLDSMOBILE	***445 WHITTIER***	***E 0 - 1/8 (0.083 mi.)***	***G20***	***16***

Facility Id: 6-100665 Tank Status: Closed				
VOYAGER LANDHOLDINGS Facility Id: 6-100080 Tank Status: Active	***955 NORTHGATE MILE***	***NE 0 - 1/8 (0.093 mi.)***	***H22***	***16***
ON-THE-GO AMOCO Facility Id: 6-100663 Tank Status: Closed	***960 NORTHGATE MILE***	***NE 0 - 1/8 (0.119 mi.)***	***H29***	***21***
DEAN R LOWE Facility Id: 6-100611 Tank Status: Closed	***389 GARFIELD***	***SSE 0 - 1/8 (0.123 mi.)***	***30***	***22***
IDAHO FALLS U-HAUL Facility Id: 6-100191 Tank Status: Closed	***1091 N YELLOWSTONE***	***NE 1/8 - 1/4 (0.195 mi.)***	***K36***	***28***
FIRESTONE Facility Id: 6-100252 Tank Status: Closed	***1060 NORTHGATE***	***NE 1/8 - 1/4 (0.205 mi.)***	***K37***	***29***

Lower Elevation	Address	Direction / Distance	Map ID	Page
HARD TOP CARS Facility Id: 6-100115 Tank Status: Closed	***401 NORTHGATE MILE***	***SSW 0 - 1/8 (0.112 mi.)***	***J26***	***20***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

ALLSITES: Idaho's remediation database is a compilation of data on all the state and delegated federal remediation programs operated by the DEQ.

A review of the ALLSITES list, as provided by EDR, and dated 03/05/2019 has revealed that there are 44 ALLSITES sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JERRYS MACHINE & ENG Facility Id: 2011BAZ3554	675 N YELLOWSTONE HW	SSW 0 - 1/8 (0.008 mi.)	A5	9
SMITH INTERMOUNTAIN Facility Id: 2011BAZ5997	805 NORTHGATE MILE	NE 0 - 1/8 (0.013 mi.)	C6	9
RON SAYER INC Facility Id: 2011BAZ5649	760 NORTHGATE MILE	ESE 0 - 1/8 (0.019 mi.)	B8	11
ECO MAN Facility Id: 2011BAZ1962	301 E ELVA	N 0 - 1/8 (0.020 mi.)	D11	13
DYNAMICS INC Facility Id: 2011BAZ1923	***340 MAY ST***	***SSE 0 - 1/8 (0.072 mi.)***	***F15***	***14***
RON SAYER DODGE 1 Facility Id: 2011BAZ5648	490 NORTHGATE MILE	SSW 0 - 1/8 (0.079 mi.)	E17	15
BRAD & JEANNETTE CHA	***444 E. ELVA ST.***	***ENE 0 - 1/8 (0.081 mi.)***	***G19***	***15***

EXECUTIVE SUMMARY

Facility Id: 2015BAZ62				
CHAFFIN OLDSMOBILE Facility Id: 2011BAZ1137	***445 WHITTIER***	***E 0 - 1/8 (0.083 mi.)***	***G20***	***16***
VOYAGER LANDHOLDINGS Facility Id: 2011BAZ5564	***955 NORTHGATE MILE***	***NE 0 - 1/8 (0.093 mi.)***	***H22***	***16***
TETON AUTOCOLOR & IN Facility Id: 2011BAZ6408	450 WHITTIER ST	E 0 - 1/8 (0.105 mi.)	I23	17
ON-THE-GO AMOCO Facility Id: 2011BAZ4914	***960 NORTHGATE MILE***	***NE 0 - 1/8 (0.119 mi.)***	***H29***	***21***
DEAN R LOWE Facility Id: 2011BAZ1742	***389 GARFIELD***	***SSE 0 - 1/8 (0.123 mi.)***	***30***	***22***
ERMALS AUTO BODY INC Facility Id: 2011BAZ2051	471 COLLEGE	ESE 1/8 - 1/4 (0.137 mi.)	I31	22
BROADWAY FORD (NORTH Facility Id: 2012BAZ400	1051 NORTHGATE MILE	NE 1/8 - 1/4 (0.160 mi.)	K33	26
PACIFIC STEEL HIDES Facility Id: 2011BAZ4985	395 PAYNE ST	NNE 1/8 - 1/4 (0.162 mi.)	L35	28
IDAHO FALLS U-HAUL Facility Id: 2011BAZ3185	***1091 N YELLOWSTONE***	***NE 1/8 - 1/4 (0.195 mi.)***	***K36***	***28***
FIRESTONE Facility Id: 2011BAZ2194	***1060 NORTHGATE***	***NE 1/8 - 1/4 (0.205 mi.)***	***K37***	***29***
SMITH CHEVROLET CO I Facility Id: 2011BAZ5995	***1255 N HOLMES***	***NE 1/4 - 1/2 (0.286 mi.)***	***38***	***29***
FIRST ST PLUMBING Facility Id: 2011BAZ2207	345 1ST ST	S 1/4 - 1/2 (0.307 mi.)	42	30
KIM CAMPBELL CO INC Facility Id: 2011BAZ3759	320 N HOLMES AVE	SE 1/4 - 1/2 (0.312 mi.)	43	30
ALEX D CREEK Facility Id: 2011BAZ224	***320 1ST ST***	***S 1/4 - 1/2 (0.324 mi.)***	***44***	***31***
SARGENT MECHANICAL Facility Id: 2016BAZ47	357 BRIGGS ST	N 1/4 - 1/2 (0.330 mi.)	46	31
CADILLAC WACKERLI AU Facility Id: 2011BAZ997	1363 N HOLMES AVE	NNE 1/4 - 1/2 (0.338 mi.)	48	32
CITY OF IDAHO FALLS Facility Id: 2016BAZ155	CLEVELAND ST AND FRE	SE 1/4 - 1/2 (0.357 mi.)	50	32
SINCLAIR RETAIL # 11 Facility Id: 2011BAZ5976	***1115 N YELLOWSTONE***	***NE 1/4 - 1/2 (0.374 mi.)***	***51***	***33***
SINCLAIR RETAIL NO 1 Facility Id: 2011BAZ5974	495 1ST ST	SSE 1/4 - 1/2 (0.380 mi.)	O53	34
STINKER #28 Facility Id: 2011BAZ6212	***496 E 1ST ST***	***SSE 1/4 - 1/2 (0.397 mi.)***	***O54***	***34***
IDAHO FALLS BMC Facility Id: 2011BAZ3169	***1425 N HOLMES***	***NNE 1/4 - 1/2 (0.408 mi.)***	***55***	***34***
COUNTRY CLUB CLEANER Facility Id: 2011BAZ1579	505 1ST ST	SSE 1/4 - 1/2 (0.412 mi.)	56	35
RUSH AUTO PARTS STOR	***1385 NORTHGATE MILE***	***NE 1/4 - 1/2 (0.432 mi.)***	***57***	***35***

Facility Id: 2011BAZ5696				
PINECREST GOLF COURS Facility Id: 2011BAZ5146	***701 E ELVA***	***E 1/4 - 1/2 (0.458 mi.)***	***59***	***36***
LAVAR F ALVEY Facility Id: 2011BAZ3932	***1515 N HOLMES***	***NNE 1/4 - 1/2 (0.462 mi.)***	***60***	***36***
ROCKY MOUNTAIN TOYOT Facility Id: 2011BAZ5632	402 E ANDERSON	N 1/4 - 1/2 (0.472 mi.)	61	36
D & L CLEANERS Facility Id: 2011BAZ1650	***594 E 1ST ST***	***SE 1/4 - 1/2 (0.485 mi.)***	***63***	***37***

Lower Elevation	Address	Direction / Distance	Map ID	Page
HARD TOP CARS Facility Id: 2011BAZ2675	***401 NORTHGATE MILE***	***SSW 0 - 1/8 (0.112 mi.)***	***J26***	***20***
FIRST ST AUTOMOTIVE Facility Id: 2011BAZ2206	253 1ST ST	SSW 1/4 - 1/2 (0.297 mi.)	M39	29
MODEL CLEANERS Facility Id: 2011BAZ4499	265 1ST ST	SSW 1/4 - 1/2 (0.300 mi.)	M40	30
WR SHERWIN WILLIAMS Facility Id: 2011BAZ5882	170 NORTHGATE MILE	SSW 1/4 - 1/2 (0.303 mi.)	N41	30
FALLS PRINTING LLC F Facility Id: 2011BAZ2109	180 FIRST ST	SSW 1/4 - 1/2 (0.329 mi.)	45	31
BLUE BELL Facility Id: 2011BAZ694	***125 NORTHGATE MILE***	***SW 1/4 - 1/2 (0.336 mi.)***	***N47***	***31***
IDAHO FALLS SECTION Facility Id: 2011BAZ3180	***MP 185***	***SW 1/4 - 1/2 (0.355 mi.)***	***49***	***32***
NORMAN SUPPLY CO Facility Id: 2011BAZ4721	201 S BLVD	SSW 1/4 - 1/2 (0.375 mi.)	52	33
SCOMEY OIL Facility Id: 2011BAZ5817	***995 SHOUP***	***SW 1/4 - 1/2 (0.447 mi.)***	***P58***	***35***
IMPERIAL MOTORS INC Facility Id: 2011BAZ3260	***883 SHOUP***	***SW 1/4 - 1/2 (0.480 mi.)***	***P62***	***37***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there are 4 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SMITH INTERMOUNTAIN EPA ID:: IDD980987283	***805 NORTHGATE MILE***	***NE 0 - 1/8 (0.013 mi.)***	***C7***	***9***
ECO MAN	301 E ELVA	N 0 - 1/8 (0.020 mi.)	D10	12

EPA ID:: IDD980980049

TETON AUTOCOLOR & IN	***450 WHITTIER***	***E 0 - 1/8 (0.105 mi.)***	***I24***	***17***
EPA ID:: IDD113391833				
PACIFIC STEEL HIDES	***395 PAYNE ST***	***NNE 1/8 - 1/4 (0.162 mi.)***	***L34***	***26***
EPA ID:: IDD980724330				

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 10 EDR Hist Auto sites within approximately 0.125 miles of the target property.

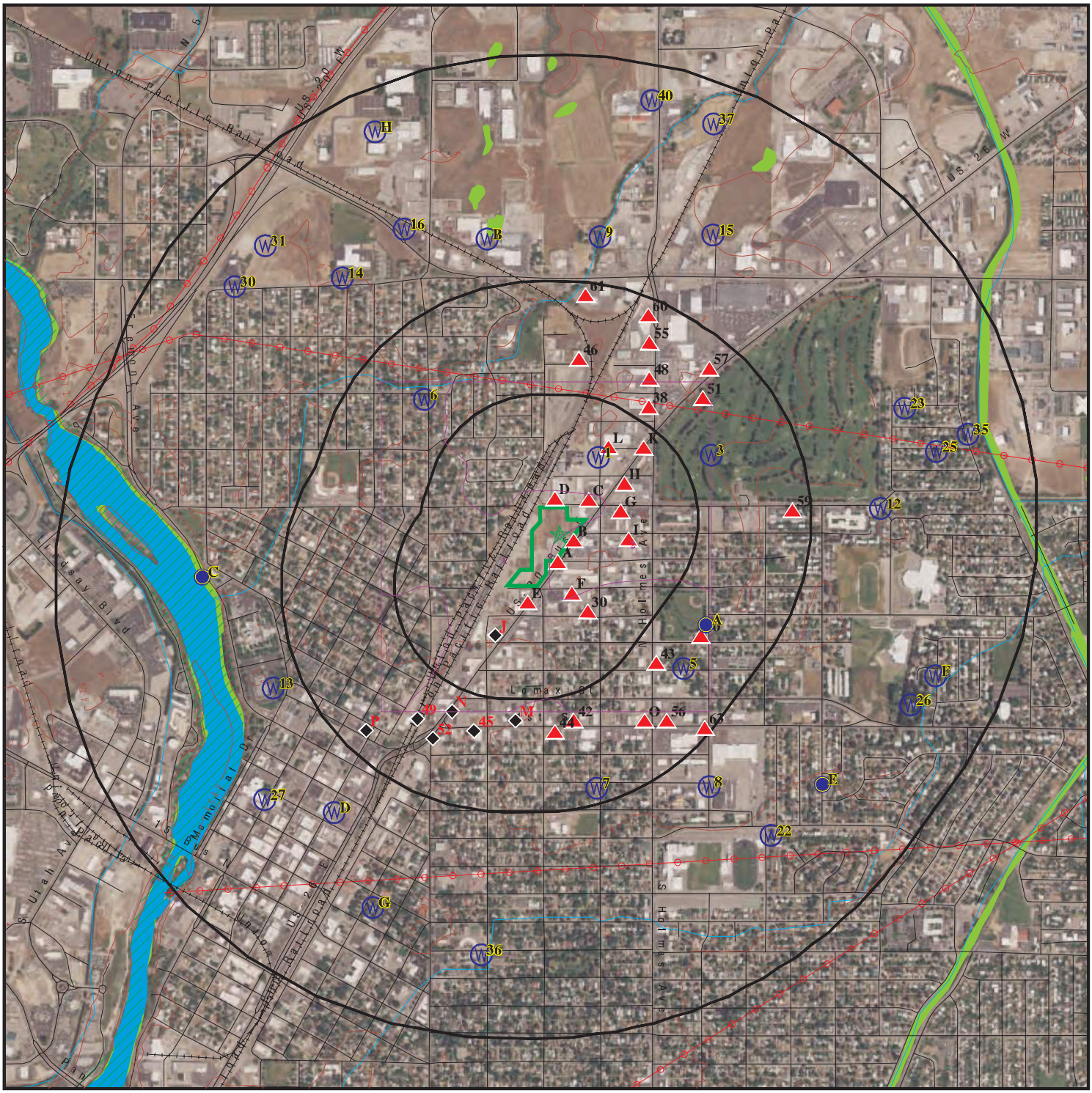
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARNES AMERICAN SERV	695 YELLOWSTONE	S 0 - 1/8 (0.005 mi.)	A1	8
R & R SERVICE	775 N YELLOWSTONE	ESE 0 - 1/8 (0.006 mi.)	B4	9
ALVEYS BEELINE	700 NORTHGATE MILE	ESE 0 - 1/8 (0.022 mi.)	B12	13
CROCKET CONOCO SERVI	555 YELLOWSTONE	SSW 0 - 1/8 (0.036 mi.)	E13	13
AAMCO TRANSMISSIONS	335 E ELVA	NE 0 - 1/8 (0.045 mi.)	C14	14
VORRHIS ARTHUR	330 MAY ST	SSE 0 - 1/8 (0.078 mi.)	F16	15
RITE STOP	955 NORTHGATE MILE	NE 0 - 1/8 (0.093 mi.)	H21	16
BOUNTIFULL GROUP INC	960 NORTHGATE MILE	NE 0 - 1/8 (0.119 mi.)	H28	21

Lower Elevation	Address	Direction / Distance	Map ID	Page
JERRYS NORTHGATE	410 NORTHGATE MILE	SSW 0 - 1/8 (0.112 mi.)	J25	20
DARRELLS EXXON SERVI	401 NORTHGATE MILE	SSW 0 - 1/8 (0.112 mi.)	J27	21

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5738976.2S

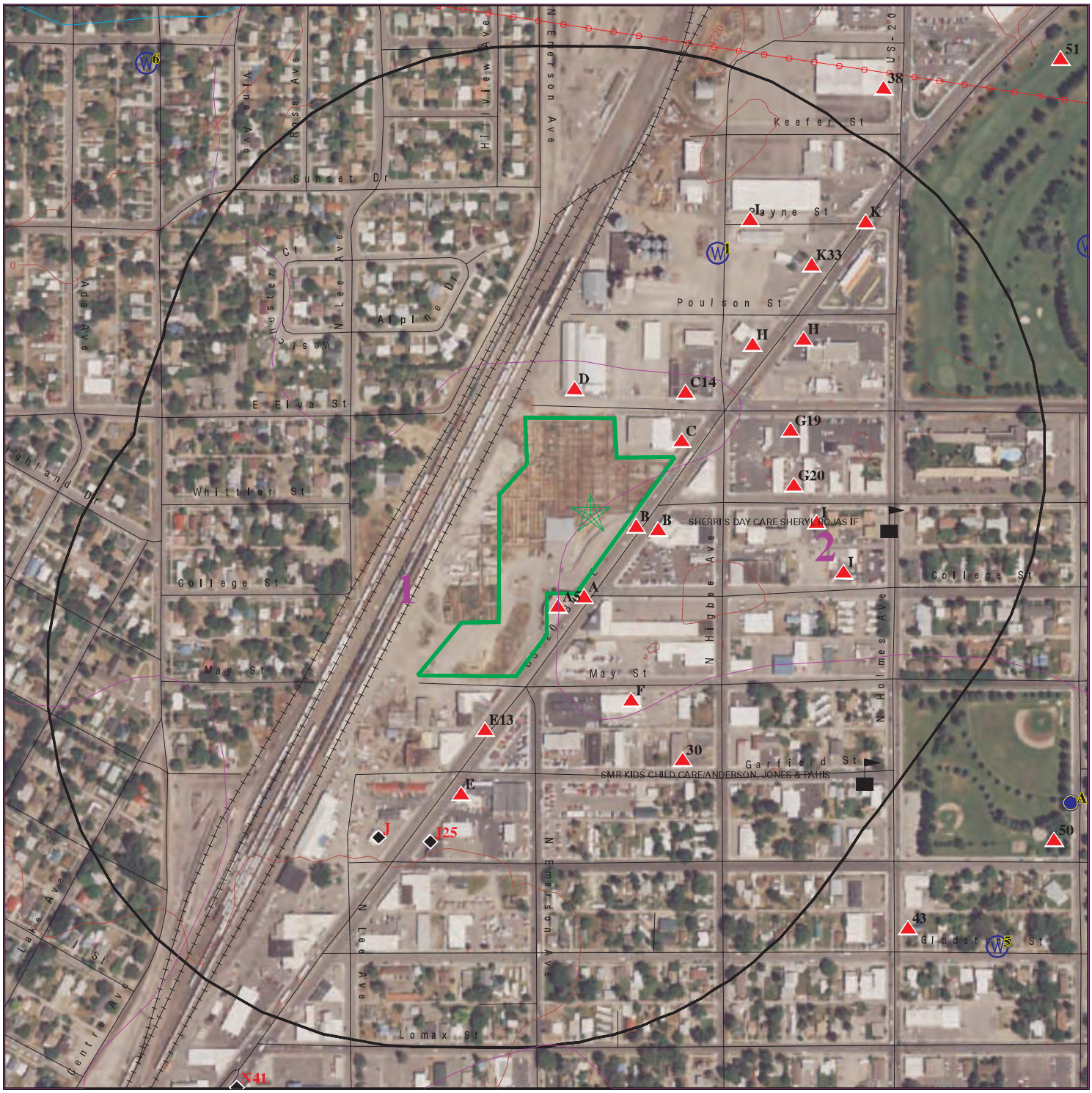


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	IF Livestock Commission Co.	CLIENT:	Stantec
ADDRESS:	701 Northgate Mile Idaho Falls ID 83401	CONTACT:	Leonard Farr
		INQUIRY #:	5738976.2s
LAT/LONG:	43.503039 / 112.027914	DATE:	August 02, 2019 2:54 pm

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DETAIL MAP - 5738976.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	IF Livestock Commission Co.	CLIENT:	Stantec
ADDRESS:	701 Northgate Mile Idaho Falls ID 83401	CONTACT:	Leonard Farr
LAT/LONG:	43.503039 / 112.027914	INQUIRY #:	5738976.2s
		DATE:	August 02, 2019 2:57 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LAST	0.500		0	0	0	NR	NR	0
LUST	0.500		0	0	2	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		11	2	NR	NR	NR	13
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
HIST LF	0.500		0	0	0	NR	NR	0
SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES	0.500		13	5	26	NR	NR	44
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		3	1	NR	NR	NR	4
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		10	NR	NR	NR	NR	10
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	37	9	28	0	0	74

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

A1 **BARNES AMERICAN SERVICE** **EDR Hist Auto** **1020276515**
South **695 YELLOWSTONE** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.005 mi.
28 ft. **Site 1 of 3 in cluster A**

Relative: EDR Hist Auto
Higher

Actual:
4735 ft.

Year:	Name:	Type:
1969	BARNES AMERICAN SERVICE	Gasoline Service Stations
1970	BARNES AMERICAN SERVICE	Gasoline Service Stations
1971	BARNES AMERICAN SERVICE	Gasoline Service Stations
1972	BARNES AMERICAN SERVICE	Gasoline Service Stations
1973	BARNES AMERICAN SERVICE	Gasoline Service Stations
1974	BARNES AMERICAN SERVICE	Gasoline Service Stations

A2 **BARNES AMOCO** **UST** **U003727125**
South **695 YELLOWSTONE** **Financial Assurance** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.005 mi.
28 ft. **Site 2 of 3 in cluster A**

Relative: UST:
Higher
Facility ID: 6-100178
Total Tanks: 4
Actual:
4735 ft. **Tank Status:** **Closed**

ID Financial Assurance 2:

Financial Assurance2:

Region:	2
Facility Id:	6-100178
Insurance Type:	State Fund
Facility Latitude:	43.49427
Facility Longitude:	-112.03688
Facility Phone:	Not reported
Facility Type:	Gas Station
Facility Status:	Closure
SR NO:	339
Date Certified:	03/23/1999
Financial Responsibility Experation Date:	03/23/1999

B3 **R & R SERVICE** **UST** **U003727127**
ESE **775 N YELLOWSTONE** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.006 mi.
32 ft. **Site 1 of 5 in cluster B**

Relative: UST:
Higher
Facility ID: 6-100182
Total Tanks: 4
Actual:
4732 ft. **Tank Status:** **Closed**

B4 **R & R SERVICE** **EDR Hist Auto** **1020163242**
ESE **775 N YELLOWSTONE** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.006 mi.
32 ft. **Site 2 of 5 in cluster B**

Relative: EDR Hist Auto
Higher

Actual:
4732 ft.

Year:	Name:	Type:
1985	R & R SERVICE	Gasoline Service Stations
1986	R & R SERVICE	Gasoline Service Stations
1987	R & R SERVICE	Gasoline Service Stations
1988	R & R SERVICE	Gasoline Service Stations

A5 **JERRYS MACHINE & ENGINE PARTS INC** **ALLSITES** **S113713579**
SSW **675 N YELLOWSTONE HWY** **N/A**
< 1/8 **IDAHO FALLS, ID**
0.008 mi.
41 ft. **Site 3 of 3 in cluster A**

Relative: ALLSITES:
Higher

Actual:
4732 ft.

Facility Id:	2011BAZ3554
Site ID:	RCRA Hazardous Waste Site
All Programs for site:	RCRA Hazardous Waste Site
Latitude/Longitude:	43.502125 / -112.028351

C6 **SMITH INTERMOUNTAIN TRUCK** **ALLSITES** **S113714684**
NE **805 NORTHGATE MILE** **N/A**
< 1/8 **IDAHO FALLS, ID**
0.013 mi.
68 ft. **Site 1 of 3 in cluster C**

Relative: ALLSITES:
Higher

Actual:
4724 ft.

Facility Id:	2011BAZ5997
Site ID:	RCRA Hazardous Waste Site
All Programs for site:	RCRA Hazardous Waste Site
Latitude/Longitude:	43.503801 / -112.027087

C7 **SMITH INTERMOUNTAIN TRUCK** **RCRA NonGen / NLR** **1000406082**
NE **805 NORTHGATE MILE** **FINDS** **IDD980987283**
< 1/8 **IDAHO FALLS, ID 83401** **ECHO**
0.013 mi.
68 ft. **Site 2 of 3 in cluster C**

Relative: RCRA NonGen / NLR:
Higher

Actual:
4724 ft.

Date form received by agency:	10/21/2005
Facility name:	SMITH INTERMOUNTAIN TRUCK
Facility address:	805 NORTHGATE MILE IDAHO FALLS, ID 83401
EPA ID:	IDD980987283
Contact:	Not reported
Contact address:	Not reported ID
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	10

SMITH INTERMOUNTAIN TRUCK (Continued) **1000406082**

Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: STAFFORD SMITH
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/15/1986
Site name: SMITH INTERMOUNTAIN TRUCK
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

. Waste code: NONE
. Waste name: None

Facility Has Received Notices of Violations:
Regulation violated: SS - IDAHO CODE 39-4411 (4)
Area of violation: Generators - Records/Reporting
Date violation determined: 10/15/1992
Date achieved compliance: 11/05/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/15/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

SMITH INTERMOUNTAIN TRUCK (Continued) **1000406082**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 10/15/1992
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Records/Reporting
Date achieved compliance: 11/05/1992
Evaluation lead agency: State

FINDS:

Registry ID: 110043632913

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000406082
Registry ID: 110043632913
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110043632913

B8 **RON SAYER INC** **ALLSITES** **S107981583**
ESE **760 NORTHGATE MILE** **N/A**
< 1/8 **IDAHO FALLS, ID**
0.019 mi.
101 ft. **Site 3 of 5 in cluster B**

Relative: Higher
Actual: 4732 ft.

ALLSITES:
Facility Id: 2011BAZ5649
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.50292 / -112.02662

B9 **RON SAYER DODGE 1** **UST** **U003727055**
ESE **760 NORTHGATE MILE** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.019 mi.
101 ft. **Site 4 of 5 in cluster B**

Relative: Higher
Actual: 4732 ft.

UST:
Facility ID: 6-100678
Total Tanks: 1
Tank Status: Closed

D10 **ECO MAN** **RCRA NonGen / NLR** **1000123466**
North **301 E ELVA** **IDD980980049**
< 1/8 **IDAHO FALLS, ID 83401**
0.020 mi.
107 ft. **Site 1 of 2 in cluster D**

Relative:
Higher

Actual:
4724 ft.

RCRA NonGen / NLR:

Date form received by agency:	06/01/2012
Facility name:	ECO MAN
Facility address:	301 E ELVA IDAHO FALLS, ID 83401
EPA ID:	IDD980980049
Contact:	Not reported
Contact address:	Not reported ID
Contact country:	US
Contact telephone:	208-525-2000
Contact email:	Not reported
EPA Region:	10
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	RONALD & STEVEN HARKER
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/20/1988
Site name:	ECO MAN
Classification:	Not a generator, verified

ECO MAN (Continued) **1000123466**

Date form received by agency: 12/26/1985
Site name: H & H SERVICES
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 04/25/2012
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

D11 **ECO MAN** **ALLSITES** **S113712865**
North **301 E ELVA** **N/A**
< 1/8 **IDAHO FALLS, ID**
0.020 mi.
107 ft. **Site 2 of 2 in cluster D**

Relative: **Higher**

Actual: **4724 ft.**

ALLSITES:
Facility Id: 2011BAZ1962
Site ID: RCRA Hazardous Waste Site
All Programs for site: RCRA Hazardous Waste Site
Latitude/Longitude: 43.504441 / -112.028159

B12 **ALVEYS BEELINE** **EDR Hist Auto** **1021330774**
ESE **700 NORTHGATE MILE** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.022 mi.
117 ft. **Site 5 of 5 in cluster B**

Relative: **Higher**

Actual: **4734 ft.**

EDR Hist Auto

Year:	Name:	Type:
1969	ALVEYS BEELINE	Gasoline Service Stations
1970	ALVEYS BEELINE	Gasoline Service Stations
1971	ALVEYS BEELINE	Gasoline Service Stations
1972	ALVEYS HUSKY	Gasoline Service Stations
1973	ALVEYS HUSKY	Gasoline Service Stations

E13 **CROCKET CONOCO SERVICE** **EDR Hist Auto** **1021253815**
SSW **555 YELLOWSTONE** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.036 mi.
189 ft. **Site 1 of 3 in cluster E**

Relative: **Higher**

Actual: **4724 ft.**

EDR Hist Auto

Year:	Name:	Type:
1969	CROCKET CONOCO SERVICE	Gasoline Service Stations
1970	CROCKET CONOCO SERVICE	Gasoline Service Stations

C14 **AAMCO TRANSMISSIONS** **EDR Hist Auto** **1021198360**
NE **335 E ELVA** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.045 mi.
238 ft. **Site 3 of 3 in cluster C**

Relative: EDR Hist Auto
Higher

Actual:
4723 ft.

Year:	Name:	Type:
1988	AAMCO TRANSMISSIONS	Automotive Repair Shops, NEC
1989	AAMCO TRANSMISSIONS	Automotive Repair Shops, NEC
1990	AAMCO TRANSMISSIONS	Automotive Repair Shops, NEC
1991	AAMCO TRANSMISSIONS	Automotive Repair Shops, NEC
1992	NORTHGATE TRANSMISSION	Automotive Repair Shops, NEC
1993	NORTHGATE TRANSMISSION	Automotive Repair Shops, NEC
1994	NORTHGATE TRANSMISSION	Automotive Repair Shops, NEC
1995	NORTHGATE TRANSMISSION	Automotive Repair Shops, NEC
2001	NORTHGATE TRANSMISSION	Automotive Repair Shops, NEC
2002	NORTHGATE TRANSMISSION	Automotive Repair Shops, NEC
2003	NORTHGATE TRANSMISSION	Automotive Transmission Repair Shops
2004	NORTHGATE TRANSMISSION	Automotive Transmission Repair Shops
2005	NORTHGATE TRANSMISSION	Automotive Transmission Repair Shops
2006	NORTHGATE TRANSMISSION	Automotive Transmission Repair Shops
2007	NORTHGATE TRANSMISSION	Automotive Transmission Repair Shops
2008	NORTHGATE TRANSMISSION	Automotive Transmission Repair Shops
2009	NORTHGATE TRANSMISSION	Automotive Transmission Repair Shops
2010	NORTHGATE TRANSMISSION	Automotive Transmission Repair Shops
2011	NORTHGATE TRANSMISSION	Automotive Transmission Repair Shops
2012	NORTHGATE TRANSMISSION	Automotive Transmission Repair Shops
2013	NORTHGATE TRANSMISSION	Automotive Transmission Repair Shops
2014	NORTHGATE TRANSMISSION	Automotive Transmission Repair Shops

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F15 **DYNAMICS INC** **UST** **U003727156**
SSE **340 MAY ST** **ALLSITES** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.072 mi.
378 ft. **Site 1 of 2 in cluster F**

Relative: UST:
Higher
Facility ID: 6-100222
Actual: Total Tanks: 2
4733 ft. **Tank Status:** **Closed**

ALLSITES:
Facility Id: 2011BAZ1923
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.50117 / -112.02761

F16 **VORRHIS ARTHUR** **EDR Hist Auto** **1022088409**
SSE **330 MAY ST** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.078 mi.
414 ft. **Site 2 of 2 in cluster F**

Relative: EDR Hist Auto
Higher

Actual:
4731 ft.

Year:	Name:	Type:
1969	VORRHIS ARTHUR	Carwashes
1970	VORRHIS ARTHUR	Carwashes
1971	VORRHIS ARTHUR	Carwashes
1972	VORRHIS ARTHUR	Carwashes

E17 **RON SAYER DODGE 1** **ALLSITES** **S108275779**
SSW **490 NORTHGATE MILE** **N/A**
< 1/8 **IDAHO FALLS, ID**
0.079 mi.
417 ft. **Site 2 of 3 in cluster E**

Relative: ALLSITES:
Higher

Actual:
4723 ft.

Facility Id:	2011BAZ5648
Site ID:	Underground Storage Tanks
All Programs for site:	Underground Storage Tanks
Latitude/Longitude:	43.50031 / -112.02952

E18 **RON SAYER DODGE** **UST** **U003727247**
SSW **490 NORTHGATE MILE** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.079 mi.
417 ft. **Site 3 of 3 in cluster E**

Relative: UST:
Higher

Actual:
4723 ft.

Facility ID:	6-100089
Total Tanks:	2
Tank Status:	**Closed**

G19 **BRAD & JEANNETTE CHAFFIN** **UST** **U004240850**
ENE **444 E. ELVA ST.** **ALLSITES** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.081 mi.
426 ft. **Site 1 of 2 in cluster G**

Relative: UST:
Higher

Actual:
4729 ft.

Facility ID:	6-100734
Total Tanks:	1
Tank Status:	**Closed**

ALLSITES:

Facility Id:	2015BAZ62
Site ID:	Not reported
All Programs for site:	Underground Storage Tanks
Latitude/Longitude:	44.503759 / -112.025289

G20 **CHAFFIN OLDSMOBILE** **UST** **U003727235**
East **445 WHITTIER** **ALLSITES** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.083 mi.
436 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
4729 ft.

UST:
Facility ID: 6-100665
Total Tanks: 2
Tank Status: **Closed**

ALLSITES:
Facility Id: 2011BAZ1137
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.50326 / -112.02523

H21 **RITE STOP** **EDR Hist Auto** **1020751422**
NE **955 NORTHGATE MILE** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.093 mi.
492 ft. **Site 1 of 4 in cluster H**

Relative:
Higher

Actual:
4727 ft.

EDR Hist Auto

Year:	Name:	Type:
2011	RITE STOP	Gasoline Service Stations
2012	RITE STOP	Gasoline Service Stations
2014	RITE STOP	Gasoline Service Stations

H22 **VOYAGER LANDHOLDINGS LLC** **UST** **U003727048**
NE **955 NORTHGATE MILE** **ALLSITES** **N/A**
< 1/8 **IDAHO FALLS, ID 83401** **Financial Assurance**
0.093 mi.
492 ft. **Site 2 of 4 in cluster H**

Relative:
Higher

Actual:
4727 ft.

UST:
Facility ID: 6-100080
Total Tanks: 5
Tank Status: **Active**

ALLSITES:
Facility Id: 2011BAZ5564
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.50477 / -112.02579

ID Financial Assurance 2:

Financial Assurance2:
Region: 2
Facility Id: 6-100080
Insurance Type: State Fund
Facility Latitude: 43.50477
Facility Longitude: -112.02579
Facility Phone: (208) 529-0761
Facility Type: Gas Station

VOYAGER LANDHOLDINGS LLC (Continued) **U003727048**

Facility Status: Active
SR NO: 5050
Date Certified: 12/08/2003
Financial Responsibility Experation Date: 08/01/2016

I23 **TETON AUTOCOLOR & INDUSTRIAL SUPPLY** **ALLSITES** **S113714852**
East **450 WHITTIER ST** **N/A**
< 1/8 **IDAHO FALLS, ID**
0.105 mi.
554 ft. **Site 1 of 4 in cluster I**

Relative: **Higher**
Actual: **4735 ft.**

ALLSITES:
Facility Id: 2011BAZ6408
Site ID: RCRA Hazardous Waste Site
All Programs for site: RCRA Hazardous Waste Site
Latitude/Longitude: 43.502885 / -112.024886

I24 **TETON AUTOCOLOR & INDUSTRIAL SUPPLY** **RCRA NonGen / NLR** **1000335204**
East **450 WHITTIER** **FINDS** **IDD113391833**
< 1/8 **IDAHO FALLS, ID 83401** **ECHO**
0.105 mi.
554 ft. **Site 2 of 4 in cluster I**

Relative: **Higher**
Actual: **4735 ft.**

RCRA NonGen / NLR:
Date form received by agency: 04/28/1986
Facility name: TETON AUTOCOLOR & INDUSTRIAL SUPPLY
Facility address: 450 WHITTIER
IDAHO FALLS, ID 83401
EPA ID: IDD113391833
Mailing address: 1ST ST
IDAHO FALLS, ID 83401
Contact: DARLENE JESPERSON
Contact address: 184 1ST ST
IDAHO FALLS, ID 83401
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 10
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: DARLENE JESPERSON
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

TETON AUTOCOLOR & INDUSTRIAL SUPPLY (Continued) **1000335204**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F004
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

TETON AUTOCOLOR & INDUSTRIAL SUPPLY (Continued) **1000335204**

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U112
. Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Violation Status: No violations found

FINDS:

Registry ID: 110005784044

Environmental Interest/Information System

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Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000335204
Registry ID: 110005784044
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110005784044

J25 **JERRYS NORTHGATE** **EDR Hist Auto** **1021045939**
SSW **410 NORTHGATE MILE** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.112 mi.
591 ft. **Site 1 of 3 in cluster J**

Relative: EDR Hist Auto
Lower

Actual:
4721 ft.

Year:	Name:	Type:
1969	HANK VICTOR F	Gasoline Service Stations
1970	HANK VICTOR F	Gasoline Service Stations
1971	HANK VICTOR F	Gasoline Service Stations
1972	HANKS VICTOR F	Gasoline Service Stations
1973	HANKS VICTOR F	Gasoline Service Stations
1974	HANKS VICTOR F	Gasoline Service Stations
1975	HANKS VICTOR F	Gasoline Service Stations
1978	JERRYS NORTHGATE	Gasoline Service Stations
1979	JERRYS NORTHGATE	Gasoline Service Stations
1980	JERRYS NORTHGATE	Gasoline Service Stations
1982	JERRYS NORTHGATE	Gasoline Service Stations
1983	JERRYS NORTHGATE	Gasoline Service Stations
1985	ARTS MUFFLER & BRAKE CENTER	Automotive Repair Shops, NEC
1985	JERRYS NORTHGATE	Gasoline Service Stations
1986	ARTS MUFFLER & BRAKE CENTER	Automotive Repair Shops, NEC
1986	JERRYS NORTHGATE	Gasoline Service Stations
1987	ARTS MUFFLER & BRAKE CENTER	Automotive Repair Shops, NEC
1987	JERRYS NORTHGATE	Gasoline Service Stations
1988	ARTS MUFFLER & BRAKE CENTER	Automotive Repair Shops, NEC
1988	JERRYS NORTHGATE	Gasoline Service Stations
1989	JERRYS NORTHGATE	Gasoline Service Stations, NEC
1990	JERRYS NORTHGATE	Gasoline Service Stations, NEC
1991	JERRYS NORTHGATE	Gasoline Service Stations, NEC

J26 **HARD TOP CARS** **UST** **U003727076**
SSW **401 NORTHGATE MILE** **ALLSITES** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.112 mi.
593 ft. **Site 2 of 3 in cluster J**

Relative: UST:
Lower
Facility ID: 6-100115
Total Tanks: 3
Actual: **Tank Status:** **Closed**
4721 ft.

ALLSITES:
Facility Id: 2011BAZ2675
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.49977 / -112.03001

J27 **DARRELLS EXXON SERVICE** **EDR Hist Auto** **1020157100**
SSW **401 NORTHGATE MILE** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.112 mi.
593 ft. **Site 3 of 3 in cluster J**

Relative: EDR Hist Auto
Lower

Actual:
4721 ft.

Year:	Name:	Type:
1972	DARRELLS EXXON SERVICE	Gasoline Service Stations
1973	DARRELLS EXXON SERVICE	Gasoline Service Stations
1974	DARRELLS EXXON SERVICE	Gasoline Service Stations
1975	DARRELLS EXXON SERVICE	Gasoline Service Stations
1976	DARRELLS EXXON SERVICE	Gasoline Service Stations
1977	DARRELLS EXXON SERVICE	Gasoline Service Stations
1978	DARRELLS EXXON SERVICE	Gasoline Service Stations
1979	DARRELLS EXXON SERVICE	Gasoline Service Stations

H28 **BOUNTIFULL GROUP INC** **EDR Hist Auto** **1020269930**
NE **960 NORTHGATE MILE** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.119 mi.
626 ft. **Site 3 of 4 in cluster H**

Relative: EDR Hist Auto
Higher

Actual:
4734 ft.

Year:	Name:	Type:
1999	BOUNTIFULL GROUP INC	Gasoline Service Stations, NEC
2000	BOUNTIFULL GROUP INC	Gasoline Service Stations, NEC
2001	BOUNTIFULL GROUP INC	Gasoline Service Stations, NEC
2002	BOUNTIFULL GROUP INC	Gasoline Service Stations, NEC
2012	QUICK LANE TIRE AND AUTO CTR	General Automotive Repair Shops
2013	QUICK LANE TIRE AND AUTO CTR	General Automotive Repair Shops
2014	QUICK LANE TIRE AND AUTO CTR	General Automotive Repair Shops

---

H29 **ON-THE-GO AMOCO** **UST** **U003727234**
NE **960 NORTHGATE MILE** **ALLSITES** **N/A**
< 1/8 **IDAHO FALLS, ID 83402** **Financial Assurance**
0.119 mi.
626 ft. **Site 4 of 4 in cluster H**

Relative: UST:
Higher Facility ID: 6-100663
Total Tanks: 3
Actual: **Tank Status:** **Closed**
4734 ft.

ALLSITES:
Facility Id: 2011BAZ4914
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.50457 / -112.02521

ID Financial Assurance 2:

Financial Assurance2:
Region: 2
Facility Id: 6-100663
Insurance Type: Insurance

ON-THE-GO AMOCO (Continued) **U003727234**

Facility Latitude:	43.50457
Facility Longitude:	-112.02521
Facility Phone:	Not reported
Facility Type:	Gas Station
Facility Status:	Closure
SR NO:	3570
Date Certified:	06/14/2004
Financial Responsibility Experation Date:	06/14/2004

Region:	2
Facility Id:	6-100663
Insurance Type:	State Fund
Facility Latitude:	43.50457
Facility Longitude:	-112.02521
Facility Phone:	Not reported
Facility Type:	Gas Station
Facility Status:	Closure
SR NO:	3570
Date Certified:	06/14/2004
Financial Responsibility Experation Date:	06/14/2004

---

30 **DEAN R LOWE** **UST** **U003727195**
SSE **389 GARFIELD** **ALLSITES** **N/A**
< 1/8 **IDAHO FALLS, ID 83401**
0.123 mi.
650 ft.

Relative:
Higher

Actual:
4725 ft.

UST:

Facility ID:	6-100611
Total Tanks:	1
Tank Status:	**Closed**

ALLSITES:

Facility Id:	2011BAZ1742
Site ID:	Underground Storage Tanks
All Programs for site:	Underground Storage Tanks
Latitude/Longitude:	43.50066 / -112.0268

I31 **ERMALS AUTO BODY INC** **ALLSITES** **S113712910**
ESE **471 COLLEGE** **N/A**
1/8-1/4 **IDAHO FALLS, ID**
0.137 mi.
723 ft. **Site 3 of 4 in cluster I**

Relative:
Higher

Actual:
4727 ft.

ALLSITES:

Facility Id:	2011BAZ2051
Site ID:	RCRA Hazardous Waste Site
All Programs for site:	RCRA Hazardous Waste Site
Latitude/Longitude:	43.502568 / -112.024663

I32 **ERMALS AUTO BODY INC** **RCRA-CESQG** **1001487409**
ESE **471 COLLEGE** **US AIRS** **IDD982656092**
1/8-1/4 **IDAHO FALLS, ID 83401**
0.137 mi.
723 ft. **Site 4 of 4 in cluster I**

Relative:
Higher

Actual:
4727 ft.

RCRA-CESQG:

Date form received by agency:	10/20/2005
Facility name:	ERMALS AUTO BODY INC
Facility address:	471 COLLEGE IDAHO FALLS, ID 83401
EPA ID:	IDD982656092
Mailing address:	COLLEGE IDAHO FALLS, ID 83401
Contact:	RODNEY THOMPSON
Contact address:	COLLEGE IDAHO FALLS, ID 83401
Contact country:	US
Contact telephone:	208-529-1665
Contact email:	Not reported
EPA Region:	10
Land type:	Private
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	ERMALS AUTO BODY INC
Owner/operator address:	Not reported ID
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/04/1989
Owner/Op end date:	Not reported

Owner/operator name:	ERMAL R. THOMPSON
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported

ERMALS AUTO BODY INC (Continued) **1001487409**

Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/04/1989
Site name: ERMALS AUTO BODY INC
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 12/22/1999
Evaluation: COMPLIANCE ASSISTANCE VISIT
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/11/1999
Evaluation: COMPLIANCE ASSISTANCE VISIT
Area of violation: Not reported
Date achieved compliance: Not reported

ERMALS AUTO BODY INC (Continued) **1001487409**

Evaluation lead agency: State

US AIRS MINOR:
Envid: 1001487409
Region Code: 10
Programmatic ID: AIR ID0000001601900069
Facility Registry ID: 110005786097
D and B Number: Not reported
Primary SIC Code: 7532
NAICS Code: 811121
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 10
Programmatic ID: AIR ID0000001601900069
Facility Registry ID: 110005786097
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2016-07-05 00:00:00
Activity Status Date: 2016-07-14 18:36:01
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

US AIRS MINOR:
Envid: 1001487409
Region Code: 10
Programmatic ID: AIR ID0000001601900069
Facility Registry ID: 110005786097
D and B Number: Not reported
Primary SIC Code: 7532
NAICS Code: 811121
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 10
Programmatic ID: AIR ID0000001601900069
Facility Registry ID: 110005786097
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2016-07-05 00:00:00
Activity Status Date: 2016-07-14 18:36:01
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

K33 **BROADWAY FORD (NORTHGATE MILE)** **ALLSITES** **S113715937**
NE **1051 NORTHGATE MILE** **N/A**
1/8-1/4 **IDAHO FALLS, ID**
0.160 mi.
843 ft. **Site 1 of 3 in cluster K**

Relative: Higher
Actual: 4735 ft.

ALLSITES:
Facility Id: 2012BAZ400
Site ID: General Remediation
All Programs for site: General Remediation
Latitude/Longitude: 43.505 / -112.025

L34 **PACIFIC STEEL HIDES FUR RECYCLING** **RCRA NonGen / NLR** **1000249897**
NNE **395 PAYNE ST** **FINDS** **IDD980724330**
1/8-1/4 **IDAHO FALLS, ID 83401** **ECHO**
0.162 mi.
857 ft. **Site 1 of 2 in cluster L**

Relative: Higher
Actual: 4734 ft.

RCRA NonGen / NLR:
Date form received by agency: 10/22/1991
Facility name: PACIFIC STEEL HIDES FUR RECYCLING
Facility address: 395 PAYNE ST
IDAHO FALLS, ID 83401
EPA ID: IDD980724330
Mailing address: PO BOX 1752
IDAHO FALLS, ID 83403
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 10
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: UNKNOWN
Owner/operator address: UNKNOWN
UNKNOWN, ID 00000
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No

PACIFIC STEEL HIDES FUR RECYCLING (Continued) **1000249897**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/20/1991
Site name: PACIFIC STEEL HIDES FUR RECYCLING
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

FINDS:

Registry ID: 110005784650

Environmental Interest/Information System
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000249897
Registry ID: 110005784650
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110005784650

L35 **PACIFIC STEEL HIDES FUR RECYCLING** **ALLSITES** **S113714227**
NNE **395 PAYNE ST** **N/A**
1/8-1/4 **IDAHO FALLS, ID**
0.162 mi.
857 ft. **Site 2 of 2 in cluster L**

Relative:
Higher

Actual:
4734 ft.

ALLSITES:
Facility Id: 2011BAZ4985
Site ID: RCRA Hazardous Waste Site
All Programs for site: RCRA Hazardous Waste Site
Latitude/Longitude: 43.50616 / -112.026517

K36 **IDAHO FALLS U-HAUL** **UST** **U003727134**
NE **1091 N YELLOWSTONE** **ALLSITES** **N/A**
1/8-1/4 **IDAHO FALLS, ID 83401** **Financial Assurance**
0.195 mi.
1030 ft. **Site 2 of 3 in cluster K**

Relative:
Higher

Actual:
4736 ft.

UST:
Facility ID: 6-100191
Total Tanks: 5
Tank Status: **Closed**

ALLSITES:
Facility Id: 2011BAZ3185
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.50598 / -112.0246

ID Financial Assurance 2:

Financial Assurance2:
Region: 2
Facility Id: 6-100191
Insurance Type: Guarantee
Facility Latitude: 43.50598
Facility Longitude: -112.0246
Facility Phone: Not reported
Facility Type: Other
Facility Status: Closure
SR NO: 2196
Date Certified: 06/15/1999
Financial Responsibility Experation Date: 06/15/1999

Region: 2
Facility Id: 6-100191
Insurance Type: Self-Insured
Facility Latitude: 43.50598
Facility Longitude: -112.0246
Facility Phone: Not reported
Facility Type: Other
Facility Status: Closure
SR NO: 2196
Date Certified: 06/15/1999
Financial Responsibility Experation Date: 06/15/1999

K37
NE
1/8-1/4
0.205 mi.
1082 ft.

FIRESTONE
1060 NORTHGATE
IDAHO FALLS, ID 83401

Site 3 of 3 in cluster K

UST
ALLSITES

U003727180
N/A

Relative:
Higher

Actual:
4737 ft.

UST:
Facility ID: 6-100252
Total Tanks: 3
Tank Status: Closed

ALLSITES:
Facility Id: 2011BAZ2194
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.506 / -112.024

38
NE
1/4-1/2
0.286 mi.
1511 ft.

SMITH CHEVROLET CO INC
1255 N HOLMES
IDAHO FALLS, ID 83401

UST
ALLSITES

U003104260
N/A

Relative:
Higher

Actual:
4739 ft.

UST:
Facility ID: 6-100044
Total Tanks: 1
Tank Status: Closed

ALLSITES:
Facility Id: 2011BAZ5995
Site ID: Multiple Programs
All Programs for site: RCRA Hazardous Waste Site, Underground Storage Tanks
Latitude/Longitude: 43.507272 / -112.024347

M39
SSW
1/4-1/2
0.297 mi.
1569 ft.

FIRST ST AUTOMOTIVE
253 1ST ST
IDAHO FALLS, ID

Site 1 of 2 in cluster M

ALLSITES

S113712974
N/A

Relative:
Lower

Actual:
4719 ft.

ALLSITES:
Facility Id: 2011BAZ2206
Site ID: RCRA Hazardous Waste Site
All Programs for site: RCRA Hazardous Waste Site
Latitude/Longitude: 43.497104 / -112.02984

M40
SSW
1/4-1/2
0.300 mi.
1584 ft.

MODEL CLEANERS
265 1ST ST
IDAHO FALLS, ID

Site 2 of 2 in cluster M

ALLSITES **S113713985**
N/A

Relative:
Lower

Actual:
4720 ft.

ALLSITES:
Facility Id: 2011BAZ4499
Site ID: RCRA Hazardous Waste Site
All Programs for site: RCRA Hazardous Waste Site
Latitude/Longitude: 43.497162 / -112.029587

N41
SSW
1/4-1/2
0.303 mi.
1600 ft.

WR SHERWIN WILLIAMS CO IDAHO FALLS 8016
170 NORTHGATE MILE
IDAHO FALLS, ID

Site 1 of 2 in cluster N

ALLSITES **S113714629**
N/A

Relative:
Lower

Actual:
4716 ft.

ALLSITES:
Facility Id: 2011BAZ5882
Site ID: RCRA Hazardous Waste Site
All Programs for site: RCRA Hazardous Waste Site
Latitude/Longitude: 43.49755 / -112.032262

42
South
1/4-1/2
0.307 mi.
1622 ft.

FIRST ST PLUMBING
345 1ST ST
IDAHO FALLS, ID

ALLSITES **S108274409**
N/A

Relative:
Higher

Actual:
4724 ft.

ALLSITES:
Facility Id: 2011BAZ2207
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.4973 / -112.02734

43
SE
1/4-1/2
0.312 mi.
1649 ft.

KIM CAMPBELL CO INC
320 N HOLMES AVE
IDAHO FALLS, ID

ALLSITES **S113713663**
N/A

Relative:
Higher

Actual:
4729 ft.

ALLSITES:
Facility Id: 2011BAZ3759
Site ID: RCRA Hazardous Waste Site
All Programs for site: RCRA Hazardous Waste Site
Latitude/Longitude: 43.499054 / -112.023463

44
South
1/4-1/2
0.324 mi.
1710 ft.

ALEX D CREEK — **UST** — **U003727087**
320 1ST ST — **ALLSITES** — **N/A**
IDAHO FALLS, ID 83404

Relative:
Higher

Actual:
4723 ft.

UST:
Facility ID: 6-100132
Total Tanks: 4
Tank Status: Closed

ALLSITES:
Facility Id: 2011BAZ224
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.49682 / -112.02825

45
SSW
1/4-1/2
0.329 mi.
1737 ft.

FALLS PRINTING LLC FIRST — **ALLSITES** — **S113712930**
180 FIRST ST — **N/A**
IDAHO FALLS, ID

Relative:
Lower

Actual:
4718 ft.

ALLSITES:
Facility Id: 2011BAZ2109
Site ID: RCRA Hazardous Waste Site
All Programs for site: RCRA Hazardous Waste Site
Latitude/Longitude: 43.496786 / -112.031701

46
North
1/4-1/2
0.330 mi.
1743 ft.

SARGENT MECHANICAL — **ALLSITES** — **S118614161**
357 BRIGGS ST — **N/A**
IDAHO FALLS, ID

Relative:
Higher

Actual:
4726 ft.

ALLSITES:
Facility Id: 2016BAZ47
Site ID: Not reported
All Programs for site: Leaking Underground Storage Tanks, Underground Storage Tanks
Latitude/Longitude: 43.508907 / -112.027208

N47
SW
1/4-1/2
0.336 mi.
1774 ft.

BLUE BELL — **LUST** — **U003727190**
125 NORTHGATE MILE — **UST** — **N/A**
IDAHO FALLS, ID 83401 — **ALLSITES**

Site 2 of 2 in cluster N

Relative:
Lower

Actual:
4718 ft.

LUST:
Facility Id: 6-100600
Status: Confirmed Release
Release Date: 05/24/2018
Cleanup Date: Not reported
Cleanup Method: Not reported
Event ID: 2320

BLUE BELL (Continued) **U003727190**

UST:
Facility ID: 6-100600
Total Tanks: 3
Tank Status: Closed

ALLSITES:
Facility Id: 2011BAZ694
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.49725 / -112.03329

48
NNE
1/4-1/2
0.338 mi.
1787 ft.

CADILLAC WACKERLI AUTO CENTER **ALLSITES** **S108274619**
1363 N HOLMES AVE **N/A**
IDAHO FALLS, ID

Relative:
Higher

Actual:
4739 ft.

ALLSITES:
Facility Id: 2011BAZ997
Site ID: Multiple Programs
All Programs for site: RCRA Hazardous Waste Site, Underground Storage Tanks
Latitude/Longitude: 43.50838 / -112.02466

49
SW
1/4-1/2
0.355 mi.
1874 ft.

IDAHO FALLS SECTION **UST** **U003727129**
MP 185 **ALLSITES** **N/A**
IDAHO FALLS, ID 83402

Relative:
Lower

Actual:
4718 ft.

UST:
Facility ID: 6-100184
Total Tanks: 2
Tank Status: Closed

ALLSITES:
Facility Id: 2011BAZ3180
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.497191 / -112.034176

50
SE
1/4-1/2
0.357 mi.
1886 ft.

CITY OF IDAHO FALLS WELL NO 4 **ALLSITES** **S119595754**
CLEVELAND ST AND FREEMA **N/A**
IDAHO FALLS, ID

Relative:
Higher

Actual:
4729 ft.

ALLSITES:
Facility Id: 2016BAZ155
Site ID: Not reported
All Programs for site: General Remediation
Latitude/Longitude: 43.49985 / -112.02171

51
NE
1/4-1/2
0.374 mi.
1975 ft.

SINCLAIR RETAIL # 11004
1115 N YELLOWSTONE
IDAHO FALLS, ID 83401

LUST **U003727193**
UST **N/A**
ALLSITES
SPILLS
Financial Assurance

Relative:
Higher

Actual:
4736 ft.

LUST:
Facility Id: 6-100603
Status: Confirmed Release
Release Date: 06/30/1992
Cleanup Date: 06/30/1992
Cleanup Method: Not reported
Event ID: 624

UST:
Facility ID: 6-100603
Total Tanks: 4
Tank Status: Closed

ALLSITES:
Facility Id: 2011BAZ5976
Site ID: Leaking Underground Storage Tanks
All Programs for site: Leaking Underground Storage Tanks, Underground Storage Tanks
Latitude/Longitude: 43.50736 / -112.02301

ID SPILL:
Program: Not reported
Contaminant: Petroleum
Facility ID: Not reported
Open Date: 6/30/1992
Close Date: 6/30/1992

ID Financial Assurance 2:

Financial Assurance2:
Region: 2
Facility Id: 6-100603
Insurance Type: State Fund
Facility Latitude: 43.50736
Facility Longitude: -112.02301
Facility Phone: Not reported
Facility Type: Gas Station
Facility Status: Closure
SR NO: 4312
Date Certified: 12/03/2009
Financial Responsibility Experation Date: 07/13/1999

52
SSW
1/4-1/2
0.375 mi.
1982 ft.

NORMAN SUPPLY CO
201 S BLVD
IDAHO FALLS, ID

ALLSITES **S108275410**
N/A

Relative:
Lower

Actual:
4715 ft.

ALLSITES:
Facility Id: 2011BAZ4721
Site ID: Multiple Programs
All Programs for site: RCRA Hazardous Waste Site, Underground Storage Tanks
Latitude/Longitude: 43.496213 / -112.033356

O53 **SINCLAIR RETAIL NO 11001** **ALLSITES** **S109540498**
SSE **495 1ST ST** **N/A**
1/4-1/2 **IDAHO FALLS, ID**
0.380 mi.
2005 ft. **Site 1 of 2 in cluster O**

Relative:
Higher

Actual:
4728 ft.

ALLSITES:
Facility Id: 2011BAZ5974
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.49711 / -112.0241

O54 **STINKER #28** **UST** **U003727010**
SSE **496 E 1ST ST** **ALLSITES** **N/A**
1/4-1/2 **IDAHO FALLS, ID 83402** **Financial Assurance**
0.397 mi.
2098 ft. **Site 2 of 2 in cluster O**

Relative:
Higher

Actual:
4727 ft.

UST:
Facility ID: 6-100032
Total Tanks: 7
Tank Status: **Active**

ALLSITES:
Facility Id: 2011BAZ6212
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.49668 / -112.0243

ID Financial Assurance 2:

Financial Assurance2:
Region: 2
Facility Id: 6-100032
Insurance Type: State Fund
Facility Latitude: 43.49668
Facility Longitude: -112.0243
Facility Phone: 208-529-8488
Facility Type: Gas Station
Facility Status: Active
SR NO: 4478
Date Certified: 12/26/2002
Financial Responsibility Experation Date: 08/01/2018

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55 **IDAHO FALLS BMC** **UST** **U003727177**
NNE **1425 N HOLMES** **ALLSITES** **N/A**
1/4-1/2 **IDAHO FALLS, ID 83401**
0.408 mi.
2153 ft.

Relative:
Higher

Actual:
4733 ft.

UST:
Facility ID: 6-100249
Total Tanks: 2
Tank Status: **Closed**

ALLSITES:
Facility Id: 2011BAZ3169

IDAHO FALLS BMC (Continued) **U003727177**

Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.50945 / -112.02385

56
SSE
1/4-1/2
0.412 mi.
2178 ft.

COUNTRY CLUB CLEANERS 1ST ST **ALLSITES** **S113712695**
505 1ST ST **N/A**
IDAHO FALLS, ID

Relative:
Higher

Actual:
4729 ft.

ALLSITES:
Facility Id: 2011BAZ1579
Site ID: RCRA Hazardous Waste Site
All Programs for site: RCRA Hazardous Waste Site
Latitude/Longitude: 43.497169 / -112.023208

57
NE
1/4-1/2
0.432 mi.
2283 ft.

RUSH AUTO PARTS STORE **UST** **U003727204**
1385 NORTHGATE MILE **ALLSITES** **N/A**
IDAHO FALLS, ID 83401

Relative:
Higher

Actual:
4732 ft.

UST:
Facility ID: 6-100621
Total Tanks: 4
Tank Status: Closed

ALLSITES:
Facility Id: 2011BAZ5696
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.50851 / -112.02131

P58
SW
1/4-1/2
0.447 mi.
2359 ft.

SCOMEY OIL **UST** **U003727109**
995 SHOUP **ALLSITES** **N/A**
IDAHO FALLS, ID 83401

Site 1 of 2 in cluster P

Relative:
Lower

Actual:
4712 ft.

UST:
Facility ID: 6-100159
Total Tanks: 3
Tank Status: Closed

ALLSITES:
Facility Id: 2011BAZ5817
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.49674 / -112.03646

59
East
1/4-1/2
0.458 mi.
2419 ft.

PINECREST GOLF COURSE
701 E ELVA
IDAHO FALLS, ID 83401

UST
ALLSITES

U003727033
N/A

Relative:
Higher

Actual:
4730 ft.

UST:
Facility ID: 6-100062
Total Tanks: 1
Tank Status: Closed

ALLSITES:
Facility Id: 2011BAZ5146
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.50431 / -112.01988

60
NNE
1/4-1/2
0.462 mi.
2438 ft.

LAVAR F ALVEY
1515 N HOLMES
IDAHO FALLS, ID 83401

UST
ALLSITES

U003727106
N/A

Relative:
Higher

Actual:
4732 ft.

UST:
Facility ID: 6-100155
Total Tanks: 1
Tank Status: Closed

ALLSITES:
Facility Id: 2011BAZ3932
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.51011 / -112.02455

61
North
1/4-1/2
0.472 mi.
2491 ft.

ROCKY MOUNTAIN TOYOTA L/M
402 E ANDERSON
IDAHO FALLS, ID

ALLSITES

S108275771
N/A

Relative:
Higher

Actual:
4723 ft.

ALLSITES:
Facility Id: 2011BAZ5632
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.51105 / -112.02645

P62
SW
1/4-1/2
0.480 mi.
2532 ft.

IMPERIAL MOTORS INC
883 SHOUP
IDAHO FALLS, ID 83402

Site 2 of 2 in cluster P

Relative:
Lower

Actual:
4711 ft.

UST
ALLSITES

U003727016
N/A

UST:
Facility ID: 6-100041
Total Tanks: 2
Tank Status: Closed

ALLSITES:
Facility Id: 2011BAZ3260
Site ID: Underground Storage Tanks
All Programs for site: Underground Storage Tanks
Latitude/Longitude: 43.49634 / -112.0367

63
SE
1/4-1/2
0.485 mi.
2561 ft.

D & L CLEANERS
594 E 1ST ST
IDAHO FALLS, ID 83401

Relative:
Higher

Actual:
4727 ft.

ALLSITES
SPILLS

S106528491
N/A

ALLSITES:
Facility Id: 2011BAZ1650
Site ID: RCRA Hazardous Waste Site
All Programs for site: RCRA Hazardous Waste Site
Latitude/Longitude: 43.496662 / -112.021945

ID SPILL:
Program: Not reported
Contaminant: Solvents
Facility ID: Not reported
Open Date: 1/1/1998
Close Date: 1/1/1999

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/03/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: Department of Environmental Quality
Telephone: 208-373-0502
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: N/A

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Landfills

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/06/2019
Date Made Active in Reports: 05/02/2019
Number of Days to Update: 57

Source: Department of Environmental Quality
Telephone: 208-334-5860
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/02/2019
Number of Days to Update: 29

Source: Department of Environmental Quality
Telephone: 208-373-0130
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tank locations.

Date of Government Version: 06/20/2011
Date Data Arrived at EDR: 06/22/2011
Date Made Active in Reports: 06/30/2011
Number of Days to Update: 8

Source: Department of Environmental Quality
Telephone: 208-373-0347
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/23/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

UST: Registered Underground Storage Tanks in Idaho
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/02/2019
Number of Days to Update: 29
Source: Department of Environmental Quality
Telephone: 208-373-0130
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/03/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/23/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Sites with Institutional Controls Restricting Use

Sites included in the Remediation Sites database that have institutional controls stricting use.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/06/2019
Date Made Active in Reports: 05/02/2019
Number of Days to Update: 57

Source: Department of Environmental Quality
Telephone: 208-373-0347
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/20/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites
The Idaho Legislature created the Idaho land Remediation Act, DEQ's Voluntary Cleanup Program, to encourage innovation and cooperation between the state, local communities and private parties working to revitalize properties with hazardous substance or petroleum contamination.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/06/2019
Date Made Active in Reports: 05/02/2019
Number of Days to Update: 57
Source: Department of Environmental Quality
Telephone: 208-373-0495
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Inventory
Brownfields are abandoned or underutilized properties where the reuse is complicated by actual or perceived environmental contamination. With the help of Idaho Counties, Cities, Economic Development Districts, Urban Renewal Entities, developers and brokers, DEQ is developing a comprehensive, statewide inventory of Brownfields.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/06/2019
Date Made Active in Reports: 05/02/2019
Number of Days to Update: 57
Source: Department of Environmental Quality
Telephone: 208-373-0495
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

HISTORICAL LANDFILL: Idaho Historical Landfills
A listing of older landfills. The listing has not been updated since July 1997.

Date of Government Version: 07/10/1997
Date Data Arrived at EDR: 02/21/2002
Date Made Active in Reports: 03/27/2002
Number of Days to Update: 34

Source: Department of Environmental Quality
Telephone: 208-373-0502
Last EDR Contact: 02/02/2009
Next Scheduled EDR Contact: 05/04/2009
Data Release Frequency: No Update Planned

SWTIRE: Waste Tire Collection Sites
A listing of registered waste tire collection sites.

Date of Government Version: 03/15/2002
Date Data Arrived at EDR: 09/16/2004
Date Made Active in Reports: 11/02/2004
Number of Days to Update: 47

Source: Department of Environmental Quality
Telephone: 208-373-0416
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

ALLSITES: Remediation Database

Idaho's remediation database is a compilation of data on all the state and delegated federal remediation programs operated by the DEQ. Programs included are AST, Brownfield, ER, General Remediation, LUST, Mining, Miscellaneous, RCRA, Solid Waste, UST and VCP.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/06/2019
Date Made Active in Reports: 05/02/2019
Number of Days to Update: 57

Source: Department of Environmental Quality
Telephone: 208-373-0309
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

These are labs in which the Idaho State Police have investigated.

Date of Government Version: 07/22/2010
Date Data Arrived at EDR: 10/01/2010
Date Made Active in Reports: 10/29/2010
Number of Days to Update: 28

Source: Idaho State Police
Telephone: 208-884-7000
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

CDL 2: Clandestine Drug (Meth) Laboratory Site Property List

A listing of clandestine drug lab site locations.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 03/06/2019
Date Made Active in Reports: 05/02/2019
Number of Days to Update: 57

Source: Dept of Health & Welfare
Telephone: 208-334-5500
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 49

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

SPILLS 2: SPILLS 2
Hazardous material spills

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/02/2019
Number of Days to Update: 56

Source: Department of Health & Welfare
Telephone: 208-334-5564
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/18/2047
Data Release Frequency: Varies

SPILLS: Spills Data
A listing of hazardous materials spills, releases or accidents as reported to the State of Idaho's central Communications Center.

Date of Government Version: 06/20/2011
Date Data Arrived at EDR: 06/22/2011
Date Made Active in Reports: 06/30/2011
Number of Days to Update: 8

Source: Department of Environmental Quality
Telephone: 208-373-0502
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 03/07/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/07/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/18/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/24/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/03/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 34

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/07/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

AIRS: Permitted Sources & Emissions Listing

Permit and emissions inventory data.

Date of Government Version: 03/22/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/02/2019
Number of Days to Update: 37

Source: Department of Environmental Quality
Telephone: 208-373-0253
Last EDR Contact: 06/20/2019
Next Scheduled EDR Contact: 04/09/2048
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Listing
A listing of drycleaner locations.

Date of Government Version: 07/06/2009
Date Data Arrived at EDR: 07/13/2009
Date Made Active in Reports: 07/28/2009
Number of Days to Update: 15

Source: Department of Environmental Quality
Telephone: 208-373-0211
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/25/2019
Number of Days to Update: 56

Source: Department of Environmental Quality
Telephone: 208-373-0502
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/21/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 05/02/2019
Number of Days to Update: 41

Source: Department of Environmental Quality
Telephone: 208-373-0502
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

TIER 2: Tier 2 Data Listing
A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 06/19/2012
Number of Days to Update: 25

Source: Bureau of Homeland Security
Telephone: 208-422-3040
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

UIC: Underground Injection Wells Database Listing
Deep and shallow underground injection wells locations.

Date of Government Version: 05/03/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 06/25/2019
Number of Days to Update: 49

Source: Department of Water Resources
Telephone: 208-287-4932
Last EDR Contact: 05/03/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Idaho.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/17/2014
Number of Days to Update: 200

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Idaho.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/01/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care List

Source: Department of Health and Welfare
Telephone: 208-332-7205

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Water Resources
Telephone: 208-287-4800

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

IF LIVESTOCK COMMISSION CO.
701 NORTHGATE MILE
IDAHO FALLS, ID 83401

TARGET PROPERTY COORDINATES

Latitude (North):	43.503039 - 43° 30' 10.94''
Longitude (West):	112.027914 - 112° 1' 40.49''
Universal Tranverse Mercator:	Zone 12
UTM X (Meters):	416900.5
UTM Y (Meters):	4816976.5
Elevation:	4723 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5968654 IDAHO FALLS NORTH, ID
Version Date:	2013
South Map:	5968834 IDAHO FALLS SOUTH, ID
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

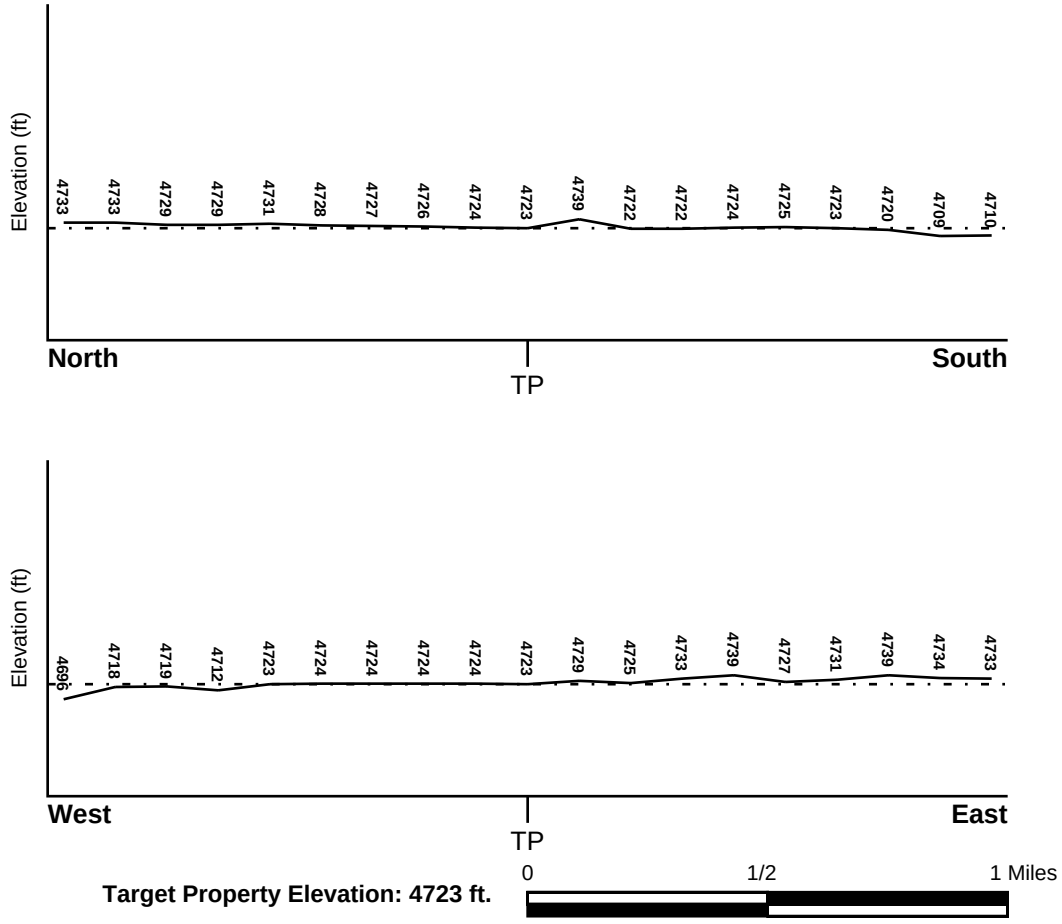
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
1600290005B	FEMA Q3 Flood data

Additional Panels in search area:	FEMA Source Type
1600270065C	FEMA Q3 Flood data
1600270070C	FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
IDAHO FALLS NORTH	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

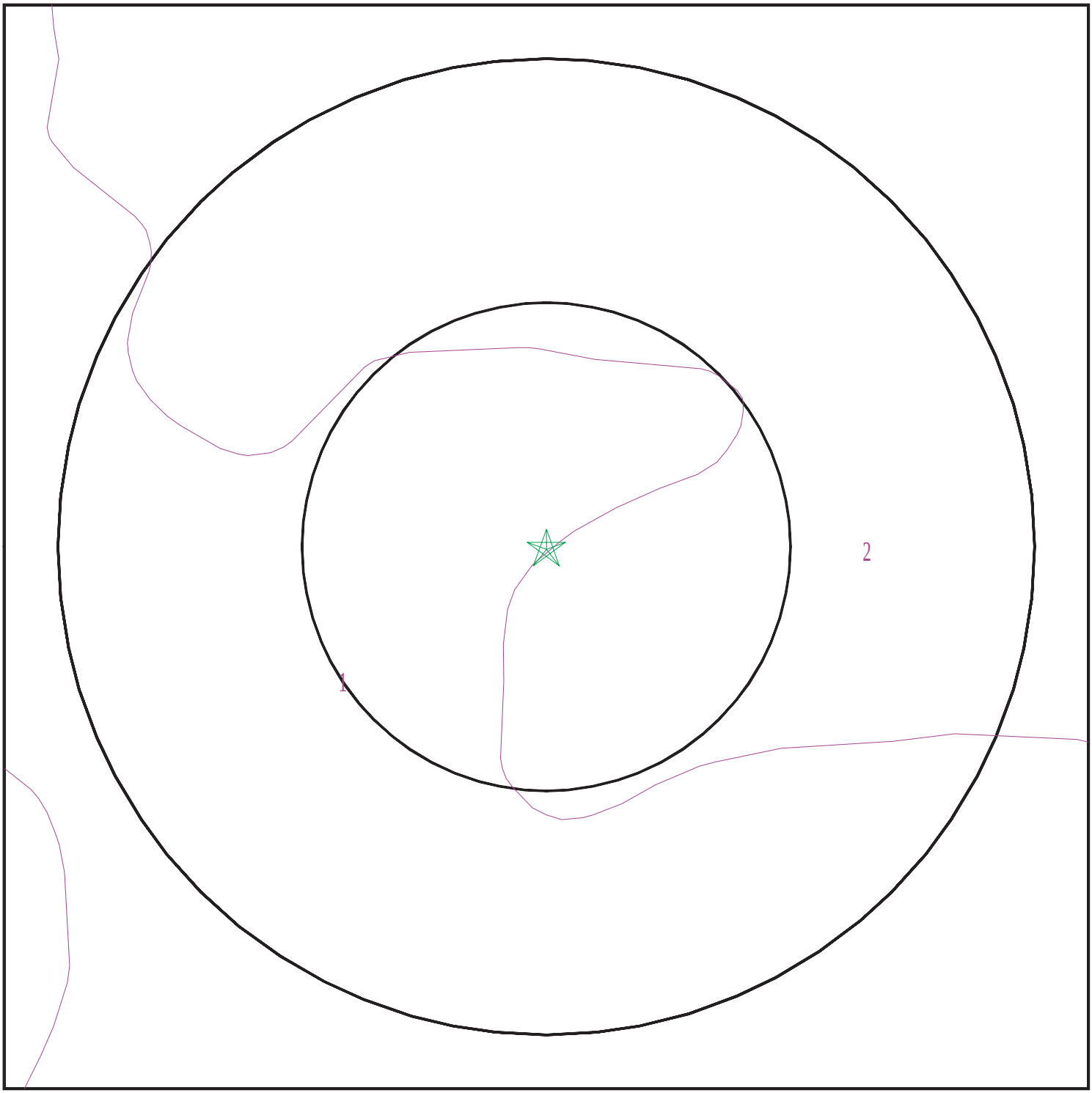
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5738976.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	IF Livestock Commission Co.	CLIENT:	Stantec
ADDRESS:	701 Northgate Mile Idaho Falls ID 83401	CONTACT:	Leonard Farr
LAT/LONG:	43.503039 / 112.027914	INQUIRY #:	5738976.2s
		DATE:	August 02, 2019 2:59 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Bannock

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	1 inches	loam	Not reported	Not reported	Max: 14.11 Min: 4	Max: 8.4 Min: 7.4
2	12 inches	22 inches	gravelly loam	Not reported	Not reported	Max: 14.11 Min: 4	Max: 8.4 Min: 7.4
3	22 inches	59 inches	extremely gravelly coarse sand	Not reported	Not reported	Max: 14.11 Min: 4	Max: 8.4 Min: 7.4
4	1 inches	7 inches	loam	Not reported	Not reported	Max: 14.11 Min: 4	Max: 8.4 Min: 7.4
5	7 inches	12 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4	Max: 8.4 Min: 7.4

Soil Map ID: 2

Soil Component Name: Aquic Cryoborolls

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 42.34 Min: 14.11	Max: 8.4 Min: 6.6
2	7 inches	53 inches	silty clay loam	Not reported	Not reported	Max: 42.34 Min: 14.11	Max: 8.4 Min: 6.6
3	53 inches	59 inches	gravelly sandy clay loam	Not reported	Not reported	Max: 42.34 Min: 14.11	Max: 8.4 Min: 6.6
4	59 inches	70 inches	very cobbly sandy loam	Not reported	Not reported	Max: 42.34 Min: 14.11	Max: 8.4 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000282424	1/4 - 1/2 Mile ESE
5	USGS40000282410	1/4 - 1/2 Mile SE
6	USGS40000282477	1/4 - 1/2 Mile NW
14	USGS40000282498	1/2 - 1 Mile NW
C17	USGS40000282433	1/2 - 1 Mile West
E20	USGS40000282384	1/2 - 1 Mile SE
23	USGS40000282475	1/2 - 1 Mile ENE
25	USGS40000282464	1/2 - 1 Mile ENE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
30	USGS40000282496	1/2 - 1 Mile NW
35	USGS40000282469	1/2 - 1 Mile ENE
36	USGS40000282353	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

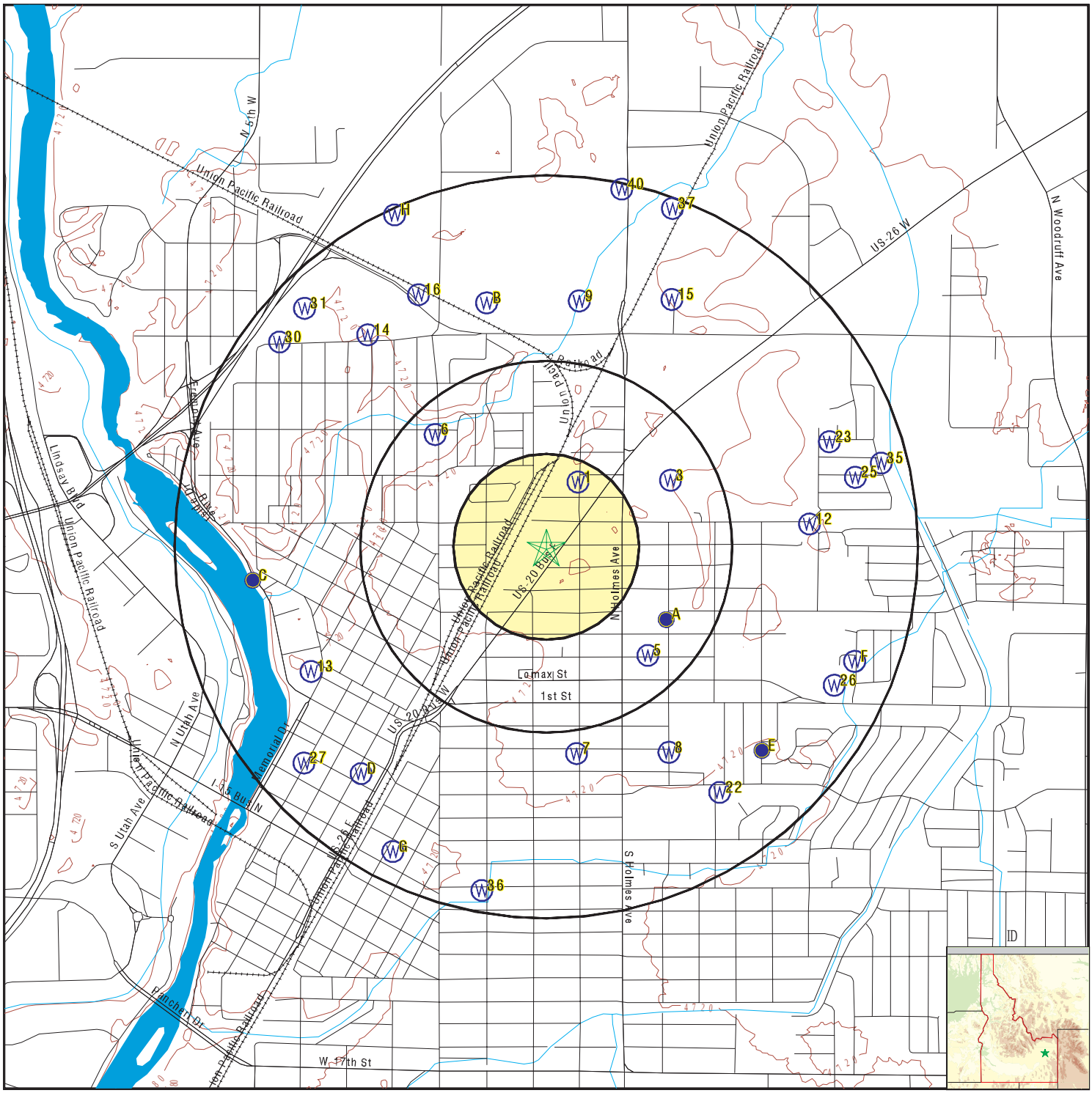
MAP ID	WELL ID	LOCATION FROM TP
C24	ID7100039	1/2 - 1 Mile West

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	ID9000000075639	1/8 - 1/4 Mile NNE
3	ID9000000057219	1/4 - 1/2 Mile ENE
A4	ID9000000075200	1/4 - 1/2 Mile SE
7	ID9000000115384	1/2 - 1 Mile South
8	ID9000000079516	1/2 - 1 Mile SSE
9	ID9000000075648	1/2 - 1 Mile North
B10	ID9000000075348	1/2 - 1 Mile NNW
B11	ID9000000134711	1/2 - 1 Mile NNW
12	ID9000000075364	1/2 - 1 Mile East
13	ID9000000056287	1/2 - 1 Mile WSW
15	ID9000000082344	1/2 - 1 Mile NNE
16	ID9000000054669	1/2 - 1 Mile NNW
D18	ID9000000156696	1/2 - 1 Mile SW
D19	ID9000000162395	1/2 - 1 Mile SW
E21	ID9000000090146	1/2 - 1 Mile SE
22	ID9000000080895	1/2 - 1 Mile SE
26	ID9000000054710	1/2 - 1 Mile ESE
27	ID9000000124217	1/2 - 1 Mile SW
F28	ID9000000164094	1/2 - 1 Mile ESE
F29	ID9000000164180	1/2 - 1 Mile ESE
31	ID9000000056171	1/2 - 1 Mile NW
G32	ID9000000078821	1/2 - 1 Mile SSW
G33	ID9000000082041	1/2 - 1 Mile SSW
G34	ID9000000082042	1/2 - 1 Mile SSW
37	ID9000000081498	1/2 - 1 Mile NNE
H38	ID9000000056490	1/2 - 1 Mile NNW
H39	ID9000000114146	1/2 - 1 Mile NNW
40	ID9000000172675	1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 5738976.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

SITE NAME:	IF Livestock Commission Co.	CLIENT:	Stantec
ADDRESS:	701 Northgate Mile Idaho Falls ID 83401	CONTACT:	Leonard Farr
		INQUIRY #:	5738976.2s
LAT/LONG:	43.503039 / 112.027914	DATE:	August 02, 2019 2:59 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NNE **ID WELLS** **ID9000000075639**
1/8 - 1/4 Mile
Higher

Database:	Permitted Wells	Well ID:	345133
Permit ID:	773279	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	01-SEP-75
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	123	Casing Diameter:	0
Total Depth:	200	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=345133		

A2
ESE **FED USGS** **USGS40000282424**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-ID	Organization Name:	USGS Idaho Water Science Center
Monitor Location:	02N 38E 17CBC1	Type:	Well
Description:	Not Reported	HUC:	17040201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19580101
Well Depth:	120	Well Depth Units:	ft
Well Hole Depth:	120	Well Hole Depth Units:	ft

3
ENE **ID WELLS** **ID9000000057219**
1/4 - 1/2 Mile
Higher

Database:	Permitted Wells	Well ID:	326411
Permit ID:	703777	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	25-JUL-84
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	57	Casing Diameter:	8
Total Depth:	0	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=326411		

A4
SE **ID WELLS** **ID9000000075200**
1/4 - 1/2 Mile
Higher

Database:	Permitted Wells	Well ID:	344692
Permit ID:	772824	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	Not Reported
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	0	Casing Diameter:	0

Total Depth:	1630	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=344692		

5
SE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000282410**

Organization ID:	USGS-ID	Organization Name:	USGS Idaho Water Science Center
Monitor Location:	02N 38E 17CCB1	Type:	Well
Description:	Not Reported	HUC:	17040201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19460101
Well Depth:	1630	Well Depth Units:	ft
Well Hole Depth:	1630	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1957-11-22
Feet below surface:	140.00	Feet to sea level:	Not Reported
Note:	Not Reported		

6
NW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000282477**

Organization ID:	USGS-ID	Organization Name:	USGS Idaho Water Science Center
Monitor Location:	02N 38E 18BDA1	Type:	Well
Description:	Not Reported	HUC:	17040201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	40.1	Well Depth Units:	ft
Well Hole Depth:	40.1	Well Hole Depth Units:	ft

7
South
1/2 - 1 Mile
Higher

ID WELLS **ID9000000115384**

Database:	Permitted Wells	Well ID:	384843
Permit ID:	814155	Metal Tag #:	D0032648
Current Status:	Field Inspection	Construction Date:	06-MAY-04
App Type:	Not Reported	Well Use:	Cathodic Protection
Basin #:	25	Production Rate:	0
Static Water Level:	177	Casing Diameter:	8
Total Depth:	214	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=384843		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

8
SSE **ID WELLS** **ID9000000079516**
1/2 - 1 Mile
Higher

Database:	Permitted Wells	Well ID:	349035
Permit ID:	777221	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	20-AUG-79
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	130	Casing Diameter:	0
Total Depth:	153	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=349035		

9
North **ID WELLS** **ID9000000075648**
1/2 - 1 Mile
Higher

Database:	Permitted Wells	Well ID:	345142
Permit ID:	773291	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	24-JUN-74
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	73	Casing Diameter:	0
Total Depth:	120	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=345142		

B10
NNW **ID WELLS** **ID9000000075348**
1/2 - 1 Mile
Higher

Database:	Permitted Wells	Well ID:	344834
Permit ID:	772977	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	Not Reported
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	254	Casing Diameter:	0
Total Depth:	286	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=344834		

B11
NNW **ID WELLS** **ID9000000134711**
1/2 - 1 Mile
Higher

Database:	Permitted Wells	Well ID:	404095
Permit ID:	833533	Metal Tag #:	D0036232
Current Status:	Driller Report	Construction Date:	25-MAY-05
App Type:	Not Reported	Well Use:	Domestic-Single Residence
Basin #:	25	Production Rate:	40
Static Water Level:	160	Casing Diameter:	8
Total Depth:	220	Diversion Name:	Not Reported

URL: http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=404095

12
East
1/2 - 1 Mile
Higher

ID WELLS **ID9000000075364**

Database:	Permitted Wells	Well ID:	344850
Permit ID:	772993	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	Not Reported
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	30
Static Water Level:	74	Casing Diameter:	0
Total Depth:	105	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=344850		

13
WSW
1/2 - 1 Mile
Lower

ID WELLS **ID9000000056287**

Database:	Permitted Wells	Well ID:	325464
Permit ID:	704392	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	Not Reported
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	0	Casing Diameter:	0
Total Depth:	0	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=325464		

14
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000282498**

Organization ID:	USGS-ID	Organization Name:	USGS Idaho Water Science Center
Monitor Location:	02N 38E 18BAB1	Type:	Well
Description:	Not Reported	HUC:	17040201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

15
NNE
1/2 - 1 Mile
Higher

ID WELLS **ID9000000082344**

Database:	Permitted Wells	Well ID:	351852
Permit ID:	780761	Metal Tag #:	D0024715
Current Status:	Driller Report	Construction Date:	08-AUG-02
App Type:	Not Reported	Well Use:	Domestic-Multiple Individual Users

Basin #:	25	Production Rate:	50
Static Water Level:	137	Casing Diameter:	8
Total Depth:	255	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=351852		

16
NNW
1/2 - 1 Mile
Higher

ID WELLS **ID9000000054669**

Database:	Permitted Wells	Well ID:	323794
Permit ID:	705802	Metal Tag #:	D0006415
Current Status:	Driller Report	Construction Date:	09-NOV-98
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	25
Static Water Level:	150	Casing Diameter:	8
Total Depth:	0	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=323794		

C17
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000282433**

Organization ID:	USGS-ID	Organization Name:	USGS Idaho Water Science Center
Monitor Location:	02N 38E 18CBC1	Type:	Well
Description:	Not Reported	HUC:	17040201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Snake River Plain basaltic-rock aquifers		
Formation Type:	Snake River Group	Aquifer Type:	Unconfined single aquifer
Construction Date:	19290101	Well Depth:	394
Well Depth Units:	ft	Well Hole Depth:	394
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1990-08-06
Feet below surface:	148.00	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

D18
SW
1/2 - 1 Mile
Lower

ID WELLS **ID9000000156696**

Database:	Permitted Wells	Well ID:	426001
Permit ID:	856400	Metal Tag #:	D0055045
Current Status:	Driller Report	Construction Date:	28-MAY-09
App Type:	Not Reported	Well Use:	Monitoring
Basin #:	25	Production Rate:	0
Static Water Level:	130	Casing Diameter:	6
Total Depth:	160	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=426001		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D19
SW
1/2 - 1 Mile
Lower

ID WELLS **ID9000000162395**

Database:	Permitted Wells	Well ID:	431695
Permit ID:	862501	Metal Tag #:	D0058756
Current Status:	Driller Report	Construction Date:	22-NOV-11
App Type:	Not Reported	Well Use:	Monitoring
Basin #:	25	Production Rate:	0
Static Water Level:	131	Casing Diameter:	2
Total Depth:	155	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=431695		

E20
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000282384**

Organization ID:	USGS-ID	Organization Name:	USGS Idaho Water Science Center
Monitor Location:	02N 38E 20BAA1	Type:	Well
Description:	Not Reported	HUC:	17040201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

E21
SE
1/2 - 1 Mile
Lower

ID WELLS **ID9000000090146**

Database:	Permitted Wells	Well ID:	359690
Permit ID:	788656	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	03-NOV-77
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	115	Casing Diameter:	0
Total Depth:	200	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=359690		

22
SE
1/2 - 1 Mile
Lower

ID WELLS **ID9000000080895**

Database:	Permitted Wells	Well ID:	350404
Permit ID:	778699	Metal Tag #:	D0024550
Current Status:	Driller Report	Construction Date:	12-JUN-02
App Type:	Not Reported	Well Use:	Domestic-Single Residence
Basin #:	25	Production Rate:	20
Static Water Level:	102	Casing Diameter:	8

Total Depth: 160 Diversion Name: Not Reported
URL: http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=350404

23
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40000282475

Organization ID:	USGS-ID	Organization Name:	USGS Idaho Water Science Center
Monitor Location:	02N 38E 17ACB1	Type:	Well
Description:	Not Reported	HUC:	17040201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	94.6	Well Depth Units:	ft
Well Hole Depth:	94.6	Well Hole Depth Units:	ft

C24
West
1/2 - 1 Mile
Lower

FRDS PWS ID7100039

Epa region:	10	State:	ID
Pwsid:	ID7100039	Pwsname:	CITY OF IDAHO FALLS
Cityserved:	Not Reported	Stateserved:	ID
Zipserved:	Not Reported	Fipscounty:	16019
Status:	Active	Retpopsrvd:	57000
Pwssvcconn:	23295	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt
Contact:	RICHARDS, DAVID	Contactorgname:	RICHARDS, DAVID
Contactphone:	208-612-8472	Contactaddress1:	C/O WATER DEPT
Contactaddress2:	PO BOX 50220	Contactcity:	IDAHO FALLS
Contactstate:	ID	Contactzip:	83405
Pwsactivitycode:	A		

Pwsid:	ID7100039	Facid:	436
Facname:	1 ST #7	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		

Pwsid:	ID7100039	Facid:	437
Facname:	1475 9TH ST #8 - TP	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		

Pwsid:	ID7100039	Facid:	438
Facname:	955 I ST #2 - TP	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		

Pwsid:	ID7100039	Facid:	439
Facname:	981 S BLVD #1 - TP	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		

Factypecode: TP

Pwsid: ID7100039 Facid: 440
Facname: BUTTE RD #16 - TP Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection
Trtprocess: gaseous chlorination, post
Factypecode: TP

Pwsid: ID7100039 Facid: 441
Facname: CLEVELAND #4 - TP Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection
Trtprocess: gaseous chlorination, post
Factypecode: TP

Pwsid: ID7100039 Facid: 442
Facname: DALE DR #11 - TP Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection
Trtprocess: gaseous chlorination, post
Factypecode: TP

Pwsid: ID7100039 Facid: 443
Facname: DALE DR #14 - TP Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection
Trtprocess: gaseous chlorination, post
Factypecode: TP

Pwsid: ID7100039 Facid: 444
Facname: HOOPES #15 - TP Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection
Trtprocess: gaseous chlorination, post
Factypecode: TP

Pwsid: ID7100039 Facid: 445
Facname: N HOLMES #12 - TP Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection
Trtprocess: gaseous chlorination, post
Factypecode: TP

Pwsid: ID7100039 Facid: 446
Facname: N SKYLINE #6 - TP Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection
Trtprocess: gaseous chlorination, post
Factypecode: TP

Pwsid: ID7100039 Facid: 447
Facname: N WOODRUFF #13 - TP Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection
Trtprocess: gaseous chlorination, post
Factypecode: TP

Pwsid: ID7100039 Facid: 448
Facname: S CAPITAL #3 - TP Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection
Trtprocess: gaseous chlorination, post
Factypecode: TP

Pwsid: ID7100039 Facid: 449
Facname: SE BONN #10 - TP Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection
Trtprocess: gaseous chlorination, post
Factypecode: TP

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Pwsid:	ID7100039	Facid:	450
Facname:	SE BONN #9 - TP	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		

Pwsid:	ID7100039	Facid:	451
Facname:	W 21 ST #5 - TP	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		

PWS ID:	ID7100039	PWS name:	IDAHO FALLS CITY OF
Address:	PO BOX 50220	Care of:	CARROLL AAMOLD
City:	IDAHO FALLS	State:	ID
Zip:	83401	Owner:	IDAHO FALLS CITY OF
Source code:	Ground water	Population:	49500

PWS ID:	ID7100039	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	IDAHO FALLS CITY OF
PWS type code:	C	Retail population served:	51507
Contact:	RICHARDS, DAVID	Contact address:	PO BOX 50220
Contact address:	IDAHO FALLS	Contact city:	ID
Contact state:	83	Contact zip:	208-612-84
Contact telephone:	Not Reported		

County:	BONNEVILLE	Source:	Ground water
Treatment Objective:	DISINFECTION	Process:	GASEOUS CHLORINATION, POST
Population:	49500		

PWS ID:	ID7100039	Activity status:	Active
Date system activated:	8702	Date system deactivated:	Not Reported
Retail population:	00047300	System name:	IDAHO FALLS CITY OF
System address:	CARROLL AAMOLD	System address:	PO BOX 50220
System city:	IDAHO FALLS	System state:	ID
System zip:	83401		

Population served:	10,001 - 50,000 Persons	Treatment:	Treated

Latitude:	432800	Longitude:	1120159

State:	ID	Latitude degrees:	43
Latitude minutes:	28	Latitude seconds:	27.0000
Longitude degrees:	111	Longitude minutes:	59
Longitude seconds:	37.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	28	Latitude seconds:	46.0000
Longitude degrees:	112	Longitude minutes:	2
Longitude seconds:	11.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	29	Latitude seconds:	4.0000
Longitude degrees:	112	Longitude minutes:	0
Longitude seconds:	52.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	29	Latitude seconds:	5.0000
Longitude degrees:	112	Longitude minutes:	0
Longitude seconds:	52.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	29	Latitude seconds:	20.0000
Longitude degrees:	112	Longitude minutes:	2
Longitude seconds:	0.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	29	Latitude seconds:	23.0000
Longitude degrees:	112	Longitude minutes:	0
Longitude seconds:	16.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	29	Latitude seconds:	28.0000
Longitude degrees:	112	Longitude minutes:	2
Longitude seconds:	40.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	29	Latitude seconds:	44.0000
Longitude degrees:	112	Longitude minutes:	4
Longitude seconds:	21.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	29	Latitude seconds:	45.0000
Longitude degrees:	112	Longitude minutes:	4
Longitude seconds:	19.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	29	Latitude seconds:	50.0000
Longitude degrees:	111	Longitude minutes:	59
Longitude seconds:	21.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	29	Latitude seconds:	56.0000
Longitude degrees:	112	Longitude minutes:	5
Longitude seconds:	31.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	30	Latitude seconds:	6.0000
Longitude degrees:	112	Longitude minutes:	2
Longitude seconds:	36.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	30	Latitude seconds:	13.0000
Longitude degrees:	112	Longitude minutes:	3
Longitude seconds:	44.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	30	Latitude seconds:	21.0000
Longitude degrees:	112	Longitude minutes:	0
Longitude seconds:	15.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	31	Latitude seconds:	1.0000
Longitude degrees:	112	Longitude minutes:	2
Longitude seconds:	36.0000		

State:	ID	Latitude degrees:	43
Latitude minutes:	31	Latitude seconds:	6.0000
Longitude degrees:	112	Longitude minutes:	1
Longitude seconds:	18.0000		

Violation id:	400	Orig code:	S
State:	ID	Violation Year:	2000

Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	05/01/2000
Cmp edt:	05/31/2000		

Violation id:	5116	Orig code:	S
State:	ID	Violation Year:	2010
Contamination code:	3014	Contamination Name:	E. COLI
Violation code:	34	Violation name:	Monitoring, Source Water (GWR)
Rule code:	140	Rule name:	GWR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	11/10/2010
Cmp edt:	Not Reported		

System Name:	IDAHO FALLS CITY OF	Violation Type:	22
Contaminant:	3100	Compliance Begin:	5/1/2000 0:00:00
Compliance End:	5/31/2000 0:00:00	Violation ID:	400
Enforcement Date:	No Enf Action as of	Enforcement Action:	10/17/2006 0:00:00

System Name:	IDAHO FALLS CITY OF	Violation Type:	22
Contaminant:	3100	Compliance Begin:	5/1/2000 0:00:00
Compliance End:	5/31/2000 0:00:00	Violation ID:	400
Enforcement Date:	4/12/2007 0:00:00	Enforcement Action:	Not Reported

Violation ID:	2202	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	03/18/2003
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

PWS name:	IDAHO FALLS CITY OF	Population served:	51507
PWS type code:	C	Violation ID:	400
Contaminant:	COLIFORM (TCR)		
Violation type:	Max Contaminant Level, Monthly (TCR)		
Compliance start date:	5/1/2000 0:00:00	Compliance end date:	5/31/2000 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	0		

25
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000282464**

Organization ID:	USGS-ID	Organization Name:	USGS Idaho Water Science Center
Monitor Location:	02N 38E 17ACB2	Type:	Well
Description:	Not Reported	HUC:	17040201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

26
ESE
1/2 - 1 Mile
Higher

ID WELLS **ID9000000054710**

Database:	Permitted Wells	Well ID:	323835
Permit ID:	705843	Metal Tag #:	D0006502
Current Status:	Driller Report	Construction Date:	16-MAR-99
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	165	Casing Diameter:	8
Total Depth:	0	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=323835		

27
SW
1/2 - 1 Mile
Lower

ID WELLS **ID9000000124217**

Database:	Permitted Wells	Well ID:	393634
Permit ID:	822980	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	22-AUG-86
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	125	Casing Diameter:	0
Total Depth:	160	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=393634		

F28
ESE
1/2 - 1 Mile
Higher

ID WELLS **ID9000000164094**

Database:	Permitted Wells	Well ID:	433407
Permit ID:	864354	Metal Tag #:	D0058794
Current Status:	Driller Report	Construction Date:	21-SEP-12
App Type:	Not Reported	Well Use:	Heat Pump
Basin #:	25	Production Rate:	0
Static Water Level:	135	Casing Diameter:	10
Total Depth:	302	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=433407		

F29
ESE
1/2 - 1 Mile
Higher

ID WELLS **ID9000000164180**

Database:	Permitted Wells	Well ID:	433492
Permit ID:	864498	Metal Tag #:	D0062776
Current Status:	Driller Report	Construction Date:	02-OCT-12
App Type:	Not Reported	Well Use:	Injection
Basin #:	25	Production Rate:	0
Static Water Level:	143	Casing Diameter:	10
Total Depth:	296	Diversion Name:	Not Reported

URL: http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=433492

30
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000282496**

Organization ID:	USGS-ID	Organization Name:	USGS Idaho Water Science Center
Monitor Location:	02N 38E 18BBB1	Type:	Well
Description:	Not Reported	HUC:	17040201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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31
NW
1/2 - 1 Mile
Higher

ID WELLS **ID9000000056171**

Database:	Permitted Wells	Well ID:	325346
Permit ID:	704276	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	19-MAR-91
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	156	Casing Diameter:	8
Total Depth:	0	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=325346		

G32
SSW
1/2 - 1 Mile
Lower

ID WELLS **ID9000000078821**

Database:	Permitted Wells	Well ID:	348339
Permit ID:	776496	Metal Tag #:	D0024327
Current Status:	Driller Report	Construction Date:	26-APR-02
App Type:	Not Reported	Well Use:	Monitoring
Basin #:	25	Production Rate:	0
Static Water Level:	147	Casing Diameter:	2
Total Depth:	160	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=348339		

G33
SSW
1/2 - 1 Mile
Lower

ID WELLS **ID9000000082041**

Database:	Permitted Wells	Well ID:	351555
Permit ID:	780124	Metal Tag #:	D0024709
Current Status:	Driller Report	Construction Date:	13-JUL-02
App Type:	Not Reported	Well Use:	Monitoring

Basin #:	25	Production Rate:	0
Static Water Level:	140	Casing Diameter:	2
Total Depth:	160	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=351555		

G34
SSW
1/2 - 1 Mile
Lower

ID WELLS **ID9000000082042**

Database:	Permitted Wells	Well ID:	351556
Permit ID:	780125	Metal Tag #:	D0024710
Current Status:	Driller Report	Construction Date:	11-JUL-02
App Type:	Not Reported	Well Use:	Monitoring
Basin #:	25	Production Rate:	0
Static Water Level:	140	Casing Diameter:	2
Total Depth:	160	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=351556		

35
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000282469**

Organization ID:	USGS-ID	Organization Name:	USGS Idaho Water Science Center
Monitor Location:	02N 38E 17ACA1	Type:	Well
Description:	Not Reported	HUC:	17040201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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36
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000282353**

Organization ID:	USGS-ID	Organization Name:	USGS Idaho Water Science Center
Monitor Location:	02N 38E 19ACC1	Type:	Well
Description:	Not Reported	HUC:	17040201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19580801
Well Depth:	135	Well Depth Units:	ft
Well Hole Depth:	135	Well Hole Depth Units:	ft

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

37
NNE
1/2 - 1 Mile
Higher

ID WELLS **ID9000000081498**

Database:	Permitted Wells	Well ID:	351014
Permit ID:	779401	Metal Tag #:	D0024596
Current Status:	Driller Report	Construction Date:	26-JUN-02
App Type:	Not Reported	Well Use:	Domestic-Single Residence
Basin #:	25	Production Rate:	50
Static Water Level:	170	Casing Diameter:	6
Total Depth:	255	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=351014		

H38
NNW
1/2 - 1 Mile
Higher

ID WELLS **ID9000000056490**

Database:	Permitted Wells	Well ID:	325672
Permit ID:	703822	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	18-JUN-85
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	158	Casing Diameter:	6
Total Depth:	0	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=325672		

H39
NNW
1/2 - 1 Mile
Higher

ID WELLS **ID9000000114146**

Database:	Permitted Wells	Well ID:	383591
Permit ID:	812884	Metal Tag #:	Not Reported
Current Status:	Driller Report	Construction Date:	04-SEP-81
App Type:	Not Reported	Well Use:	Not Reported
Basin #:	25	Production Rate:	0
Static Water Level:	155	Casing Diameter:	0
Total Depth:	300	Diversion Name:	Not Reported
URL:	http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=383591		

40
NNE
1/2 - 1 Mile
Higher

ID WELLS **ID9000000172675**

Database:	Permitted Wells	Well ID:	444442
Permit ID:	878777	Metal Tag #:	D0068787
Current Status:	Driller Report	Construction Date:	19-MAY-16
App Type:	Not Reported	Well Use:	Domestic-Single Residence
Basin #:	0	Production Rate:	20
Static Water Level:	170	Casing Diameter:	6
Total Depth:	300	Diversion Name:	Not Reported

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URL: http://www.idwr.idaho.gov/apps/appsWell/RelatedDocs.asp?WellID=444442

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: ID Radon

Radon Test Results

Zipcode	Test Date	Floor	Result
83401	1/1/2006 0:00	1	1.20
83401	1/1/2006 0:00	1	2.80
83401	1/1/2006 0:00	1	0.40
83401	3/21/2005 0:00	0	8.50
83401	3/30/2005 0:00	1	1.20
83401	6/26/2005 0:00		0.90
83401	7/3/2005 0:00		0.40
83401	7/3/2005 0:00		0.30
83401	7/3/2005 0:00		0.20
83401	8/16/2005 0:00		0.20
83401	8/16/2005 0:00		0.30
83401	8/15/2005 0:00		0.60
83401	8/18/2005 0:00		0.90
83401	10/5/2006 0:00	0	2.50
83401	4/18/2006 0:00	0	8.40
83401	4/17/2006 0:00	0	0.30
83401	4/18/2006 0:00	0	2.50
83401	2/1/2006 0:00	1	2.10
83401	4/1/2006 0:00	1	1.00
83401	3/13/2006 0:00	0	1.80
83401	3/2/2006 0:00	1	2.20
83401	2/22/2007 0:00	0	6.40
83401	2/10/2007 0:00	0	1.80
83401	2/2/2007 0:00	0	8.20
83401	3/1/2007 0:00	1	3.60
83401	3/29/2007 0:00	1	2.30
83401	2/5/2007 0:00	1	0.70
83401	3/2/2007 0:00	0	4.50
83401	3/29/2007 0:00	0	8.00
83401	3/10/2007 0:00	0	3.50
83401	3/29/2007 0:00	0	14.30
83401	3/17/2007 0:00	0	2.00
83401	6/25/2007 0:00	0	0.60
83401	6/25/2007 0:00	0	1.10
83401	6/4/2007 0:00	0	2.00
83401	8/16/2007 0:00	0	5.20
83401	12/10/2007 0:00	0	3.50
83401	12/24/2007 0:00	0	5.10
83401	12/11/2007 0:00	0	7.10
83401	1/31/2008 0:00	1	3.40
83401	1/12/2008 0:00	0	4.20
83401	1/14/2008 0:00	0	5.80
83401	1/5/2008 0:00	0	2.80
83401	1/17/2008 0:00	1	1.60
83401	3/11/2008 0:00	0	2.30
83401	3/18/2008 0:00	0	3.90
83401			

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RADON

AREA RADON INFORMATION

	3/11/2008 0:00	0	3.00
83401	3/1/2008 0:00	0	3.10
83401	2/11/2008 0:00	0	6.20
83401	2/5/2008 0:00	0	3.50
83401	2/8/2008 0:00	0	3.60
83401	2/22/2008 0:00	3	0.60
83401	2/16/2008 0:00	0	6.90
83401	2/4/2008 0:00	0	3.90
83401	2/22/2008 0:00	1	4.20
83401	2/9/2008 0:00	0	5.00
83401	2/12/2008 0:00	0	2.50
83401	2/25/2008 0:00	0	1.50
83401	4/18/2008 0:00	0	12.20
83401	4/18/2008 0:00	0	15.00
83401	4/16/2008 0:00	0	1.30
83401	3/7/2008 0:00	3	7.40
83401	3/20/2008 0:00	1	3.00
83401	3/3/2008 0:00	0	11.50
83401	3/21/2008 0:00	1	4.50
83401	3/15/2008 0:00	1	4.20
83401	3/29/2008 0:00	1	0.50
83401	3/25/2008 0:00	0	3.20
83401	5/22/2008 0:00	0	22.70
83401	8/4/2008 0:00	3	0.80
83401	10/20/2008 0:00	0	3.00
83401	10/9/2008 0:00	3	1.10
83401	3/7/2009 0:00	0	3.60
83401	1/17/2009 0:00	0	0.80
83401	3/23/2009 0:00	1	0.70
83401	3/21/2009 0:00	0	8.80
83401	3/9/2009 0:00	0	2.50
83401	3/30/2009 0:00	0	2.70
83401	3/26/2009 0:00	1	0.30
83401	4/15/2009 0:00	3	5.50
83401	4/15/2009 0:00	0	3.80
83401	7/3/2009 0:00	0	2.70
83401	9/9/2009 0:00	1	2.60
83401	11/7/2009 0:00	0	8.80
83401	11/9/2009 0:00	0	7.70
83401	12/5/2009 0:00	0	8.10
83401	12/5/2009 0:00	0	7.60
83401	1/18/2010 0:00	0	16.70
83401	12/14/1993 0:00	0	5.00
83401	6/11/1993 0:00	0	9.70
83401	6/11/1993 0:00	1	3.10
83401	6/20/1993 0:00	0	2.60
83401	6/26/1993 0:00	0	10.00
83401	1/30/1995 0:00	0	5.70
83401	1/30/1995 0:00	1	1.10
83401	1/30/1995 0:00	1	1.30
83401	1/30/1995 0:00	1	0.70
83401	1/30/1995 0:00	1	1.60
83401	1/30/1995 0:00	1	1.40
83401	1/30/1995 0:00	1	0.60
83401	2/1/1995 0:00	0	0.90
83401	1/30/1995 0:00	1	4.00
83401			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

	2/6/1995 0:00	1	2.70
83401	2/7/1995 0:00	1	1.40
83401	2/6/1995 0:00	1	5.40
83401	2/7/1995 0:00	1	3.20
83401	2/6/1995 0:00	1	2.20
83401	2/7/1995 0:00	1	1.10
83401	2/6/1995 0:00	0	2.20
83401	2/13/1995 0:00	0	0.70
83401	7/24/1992 0:00	0	0.70
83401	4/27/1992 0:00		0.40
83401	5/28/1992 0:00		1.70
83401	5/1/1995 0:00	1	6.00
83401	4/29/1995 0:00	0	3.90
83401	4/30/1995 0:00	1	1.10
83401	6/1/1995 0:00		4.20
83401	5/3/1995 0:00	1	2.10
83401	5/3/1995 0:00	1	2.40
83401	7/1/1995 0:00		5.60
83401	7/25/1995 0:00		1.60
83401	9/15/1995 0:00		0.50
83401	9/15/1995 0:00		1.50
83401	10/6/1995 0:00		3.30
83401	3/18/1996 0:00		6.00
83401	4/22/1996 0:00		1.80
83401	4/22/1996 0:00		2.10
83401	5/10/1997 0:00		7.80
83401	4/25/1997 0:00		1.10
83401	11/7/1997 0:00	0	8.20
83401	12/23/1997 0:00	0	14.60
83401	3/28/1998 0:00	0	12.70
83401	3/9/1990 0:00	0	3.30
83401	2/22/1990 0:00	0	2.20
83401	3/3/1990 0:00	0	1.70
83401	3/16/1990 0:00	0	1.60
83401	3/14/1990 0:00	1	1.50
83401	2/21/1990 0:00	0	1.00
83401	3/21/1990 0:00	0	1.00
83401	3/17/1990 0:00	0	1.00
83401	3/27/1990 0:00	1	0.80
83401	2/5/1998 0:00	0	15.70
83401	2/5/1998 0:00	1	3.50
83401	12/19/1998 0:00	0	1.00
83401	7/12/1999 0:00	0	0.60
83401	3/19/2001 0:00		11.00
83401	4/10/2001 0:00	0	7.90
83401	11/6/2003 0:00	0	2.50
83401	11/7/2003 0:00	0	11.40
83401	11/7/2003 0:00	0	4.20
83401	11/5/2001 0:00	0	5.30
83401	12/1/2001 0:00	0	2.70
83401	11/30/2001 0:00	0	7.60
83401	11/5/2001 0:00	0	8.90
83401	11/5/2001 0:00	1	4.40
83401	3/25/2002 0:00	0	2.30
83401	5/8/2002 0:00	1	0.80
83401	9/25/2002 0:00	1	0.30
83401			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

	2/10/2003 0:00	3	1.30
83401	2/14/2003 0:00	0	2.30
83401	2/7/2003 0:00	1	1.60
83401	2/7/2003 0:00	0	3.40
83401	2/16/2003 0:00	0	4.20
83401	2/24/2003 0:00	0	7.50
83401	11/8/2003 0:00	0	1.00
83401	11/12/2003 0:00	0	4.10
83401	11/17/2003 0:00	0	3.00
83401	11/12/2003 0:00	0	4.30
83401	11/17/2003 0:00	0	3.30
83401	11/17/2003 0:00	0	4.70
83401	11/22/2003 0:00	1	1.10
83401	11/17/2003 0:00	0	9.60
83401	11/18/2003 0:00	0	4.30
83401	11/24/2003 0:00	1	2.40
83401	11/25/2003 0:00	1	1.10
83401	12/2/2003 0:00	0	4.00
83401	1/15/2004 0:00	0	1.20
83401	1/25/2004 0:00	0	6.60
83401	1/25/2004 0:00	1	6.40
83401	5/18/2004 0:00	0	1.30
83401	5/19/2004 0:00	0	3.80
83401	11/6/2004 0:00	0	2.70
83401	2/1/2005 0:00	1	2.30
83401	3/14/2005 0:00	0	6.60

Federal EPA Radon Zone for BONNEVILLE County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 83401

Number of sites tested: 8

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.350 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	3.050 pCi/L	88%	12%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Water Resources
Telephone: 208-287-4800

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Permitted Wells
Agency: Department of Water Resources
Telephone: 208-287-4800"
Wells permitted or licensed by Idaho Department of Water Resources

Water Level Monitoring Wells
Agency: Department of Water Resources
Telephone: 208-287-4800
This dataset shows the locations of monitoring wells.

OTHER STATE DATABASE INFORMATION

RADON

State Database: ID Radon
Source: Department of Health & Welfare
Telephone: 208-332-7319
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix E HISTORICAL RECORDS

IF Livestock Commission Co.
701 Northgate Mile
Idaho Falls, ID 83401

Inquiry Number: 5738976.3
August 02, 2019

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

08/02/19

Site Name:

IF Livestock Commission Co.
701 Northgate Mile
Idaho Falls, ID 83401
EDR Inquiry # 5738976.3

Client Name:

Stantec
9400 SW Barnes Road
Portland, OR 97225-0000
Contact: Leonard Farr

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Stantec were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 435D-496A-96A1

PO # NA

Project NA

Maps Provided:

1968

Sanborn® Library search results

Certification #: 435D-496A-96A1

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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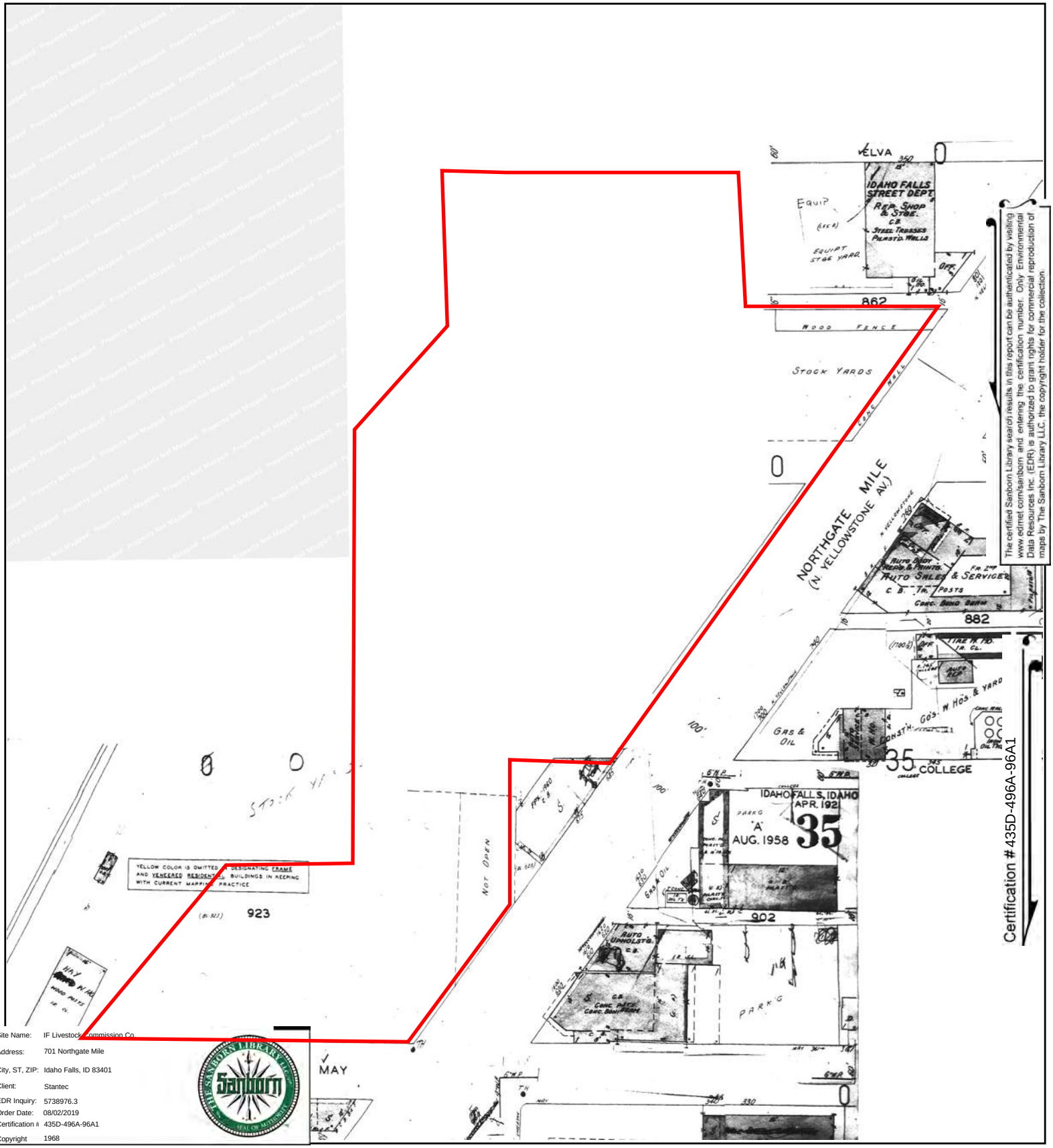
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1968 Source Sheets



Volume 1, Sheet 35
1968

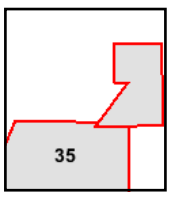


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Site Name:	IF Livestock Commission Co
Address:	701 Northgate Mile
City, ST, ZIP:	Idaho Falls, ID 83401
Client:	Stantec
EDR Inquiry:	5738976.3
Order Date:	08/02/2019
Certification #:	435D-496A-96A1
Copyright	1968

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.





Volume 1, Sheet 35

0 Feet 150 300 600

N

IF Livestock Commission Co.
701 Northgate Mile
Idaho Falls, ID 83401

Inquiry Number: 5738976.4
August 02, 2019

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

08/02/19

Site Name:

IF Livestock Commission Co.
701 Northgate Mile
Idaho Falls, ID 83401
EDR Inquiry # 5738976.4

Client Name:

Stantec
9400 SW Barnes Road
Portland, OR 97225-0000
Contact: Leonard Farr

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Stantec were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA
Project: NA

Coordinates:

Latitude:	43.503039 43° 30' 11" North
Longitude:	-112.027914 -112° 1' 40" West
UTM Zone:	Zone 12 North
UTM X Meters:	416902.91
UTM Y Meters:	4817192.04
Elevation:	4723.00' above sea level

Maps Provided:

2013
1979, 1981
1949, 1950
1948

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets



Idaho Falls North
2013
7.5-minute, 24000



Idaho Falls South
2013
7.5-minute, 24000

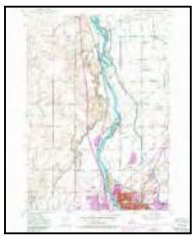


Ammon
2013
7.5-minute, 24000



Ucon
2013
7.5-minute, 24000

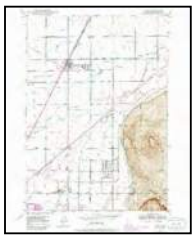
1979, 1981 Source Sheets



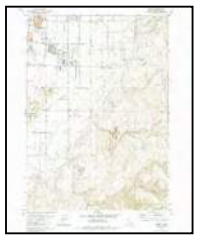
Idaho Falls North
1979
7.5-minute, 24000
Aerial Photo Revised 1976



Idaho Falls South
1979
7.5-minute, 24000
Aerial Photo Revised 1976

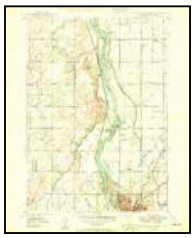


Ucon
1979
7.5-minute, 24000
Aerial Photo Revised 1976



Ammon
1981
7.5-minute, 24000
Aerial Photo Revised 1973

1949, 1950 Source Sheets



Idaho Falls North
1949
7.5-minute, 24000
Aerial Photo Revised 1946

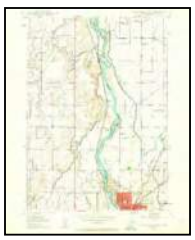


Ucon
1949
7.5-minute, 24000
Aerial Photo Revised 1946



Idaho Falls South
1950
7.5-minute, 24000
Aerial Photo Revised 1946

1948 Source Sheets



Idaho Falls North
1948
7.5-minute, 24000
Aerial Photo Revised 1946



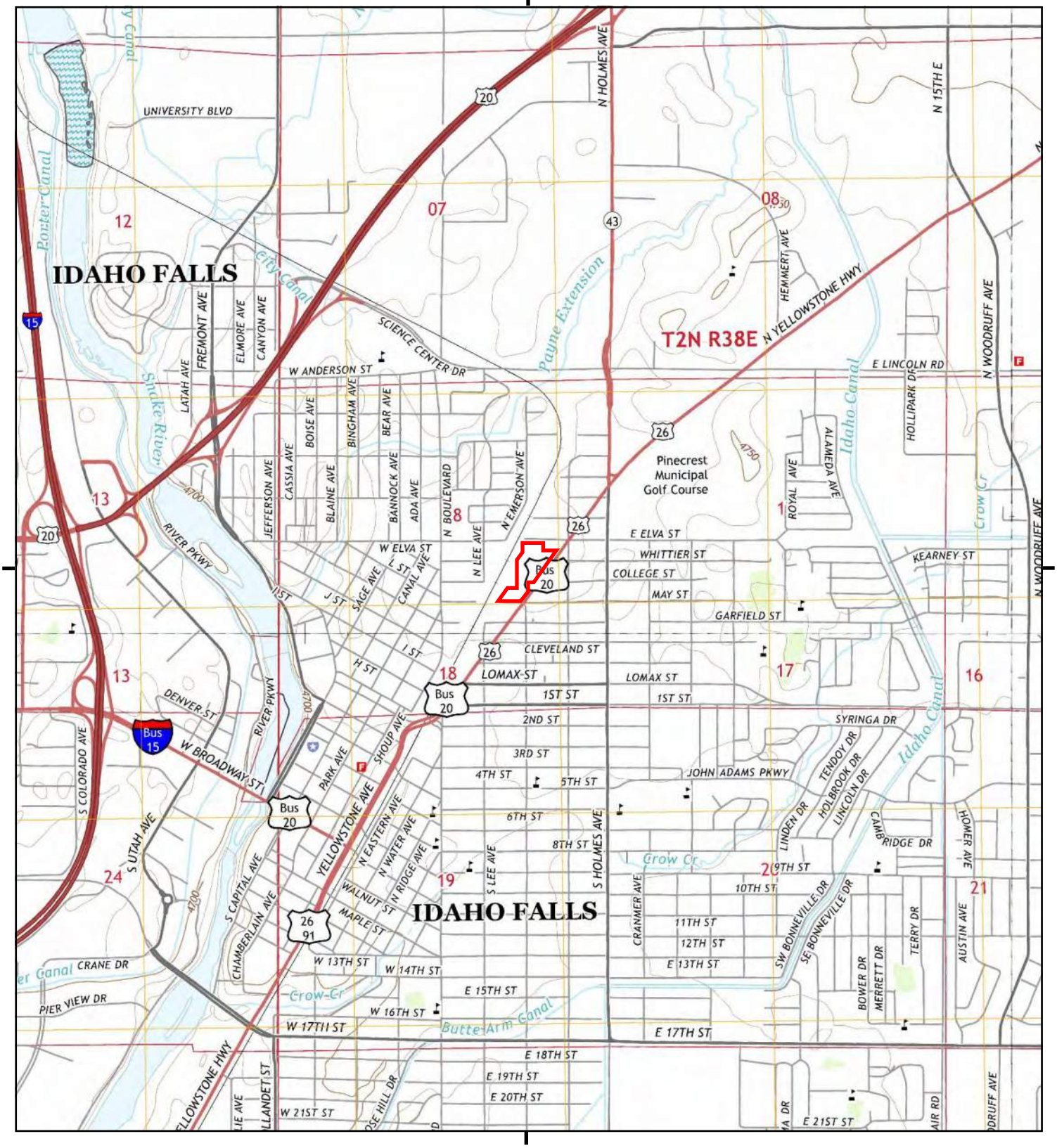
Ucon
1948
7.5-minute, 24000
Aerial Photo Revised 1946



Idaho Falls South
1948
7.5-minute, 24000
Aerial Photo Revised 1946

Historical Topo Map

2013



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

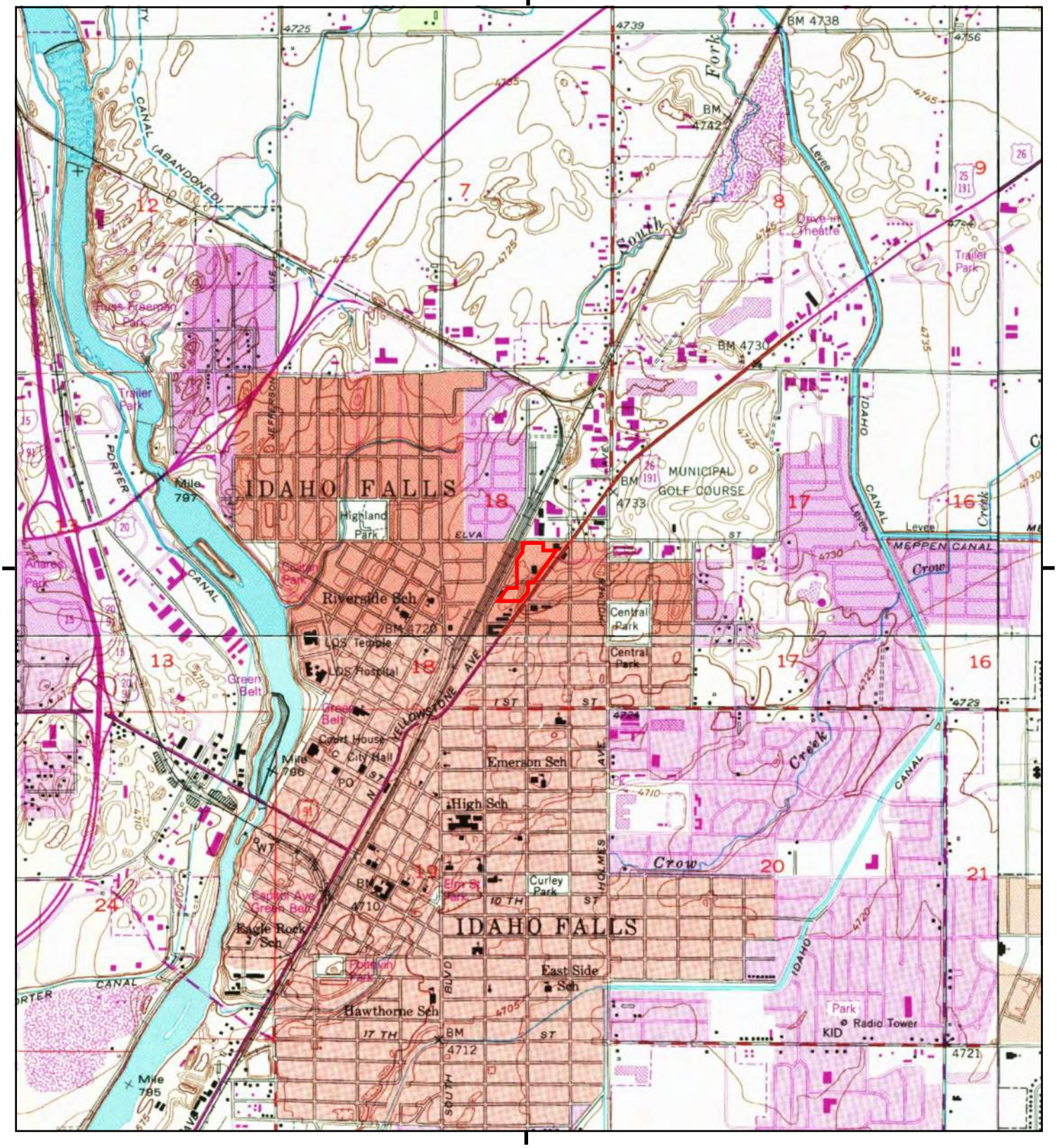
TP, Idaho Falls North, 2013, 7.5-minute
NE, Ucon, 2013, 7.5-minute
SE, Ammon, 2013, 7.5-minute
S, Idaho Falls South, 2013, 7.5-minute

SITE NAME: IF Livestock Commission Co.
ADDRESS: 701 Northgate Mile
Idaho Falls, ID 83401
CLIENT: Stantec

N

Historical Topo Map

1979, 1981



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

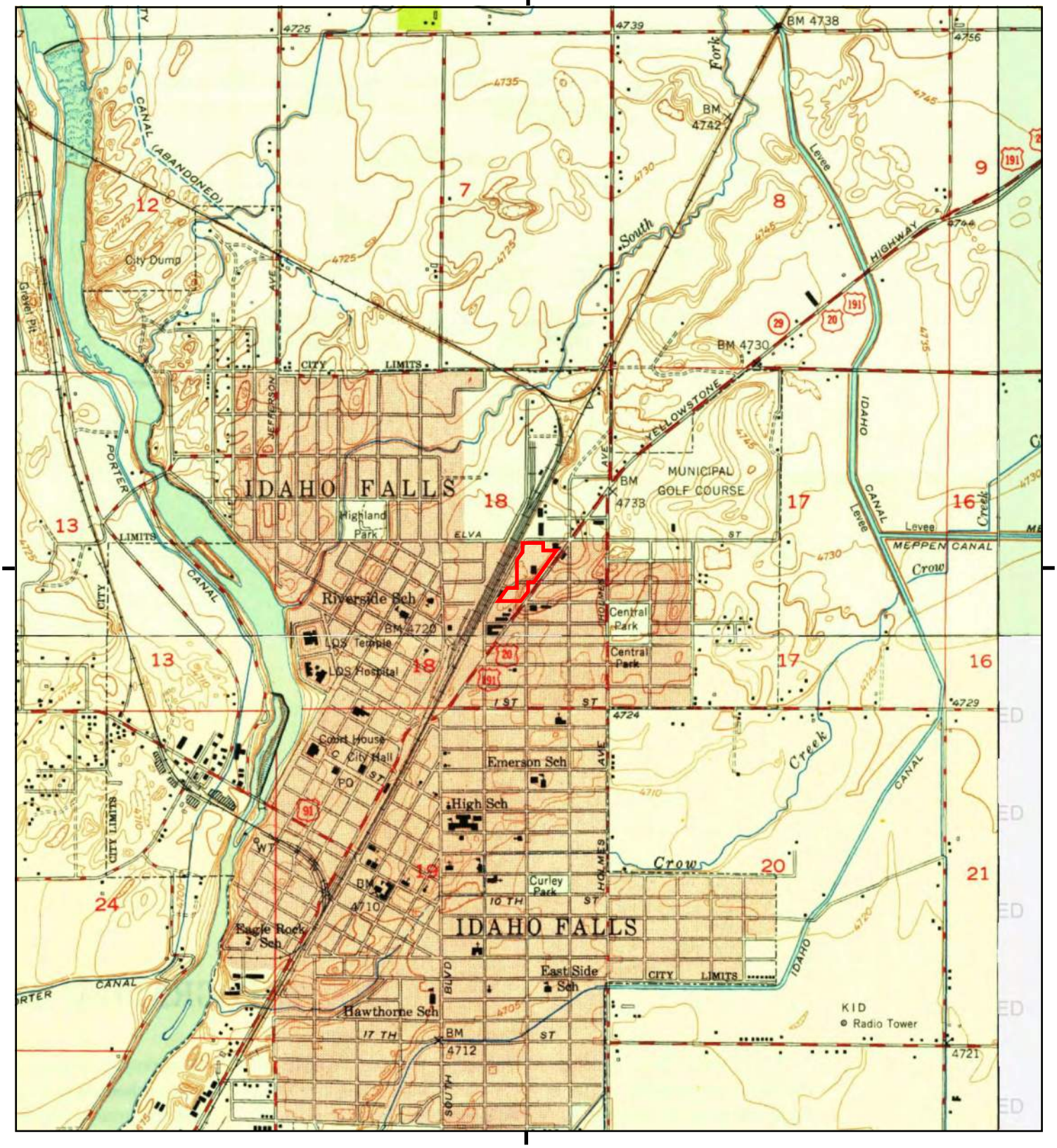
TP, Idaho Falls North, 1979, 7.5-minute
NE, Ucon, 1979, 7.5-minute
SE, Ammon, 1981, 7.5-minute
S, Idaho Falls South, 1979, 7.5-minute

SITE NAME: IF Livestock Commission Co.
ADDRESS: 701 Northgate Mile
Idaho Falls, ID 83401
CLIENT: Stantec

N

Historical Topo Map

1949, 1950



This report includes information from the following map sheet(s).

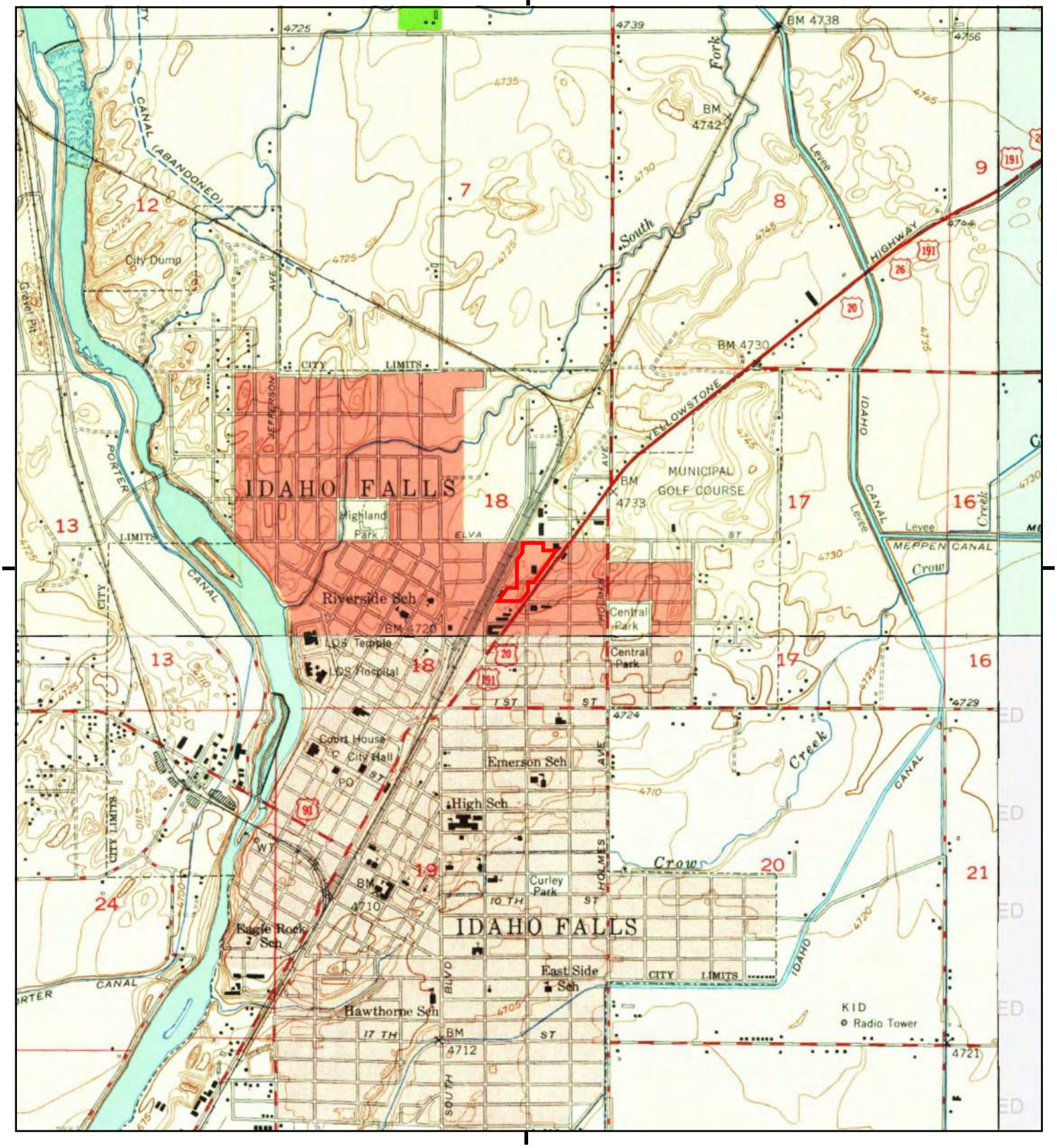
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Idaho Falls North, 1949, 7.5-minute
NE, Ucon, 1949, 7.5-minute
S, Idaho Falls South, 1950, 7.5-minute

SITE NAME: IF Livestock Commission Co.
ADDRESS: 701 Northgate Mile
Idaho Falls, ID 83401
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Idaho Falls North, 1948, 7.5-minute
NE, Ucon, 1948, 7.5-minute
S, Idaho Falls South, 1948, 7.5-minute

SITE NAME: IF Livestock Commission Co.
ADDRESS: 701 Northgate Mile
Idaho Falls, ID 83401
CLIENT: Stantec

N

IF Livestock Commission Co.

701 Northgate Mile

Idaho Falls, ID 83401

Inquiry Number: 5738976.8

August 02, 2019

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

08/02/19

Site Name:

IF Livestock Commission Co.
701 Northgate Mile
Idaho Falls, ID 83401
EDR Inquiry # 5738976.8

Client Name:

Stantec
9400 SW Barnes Road
Portland, OR 97225-0000
Contact: Leonard Farr

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2013	1"=500'	Flight Year: 2013	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=750'	Flight Date: May 25, 1998	USGS
1992	1"=500'	Acquisition Date: July 30, 1992	USGS/DOQQ
1987	1"=750'	Flight Date: June 08, 1987	USGS
1980	1"=500'	Flight Date: September 22, 1980	USDA
1976	1"=750'	Flight Date: June 09, 1976	USGS
1973	1"=750'	Flight Date: July 07, 1973	USGS
1954	1"=750'	Flight Date: July 08, 1954	USGS
1946	1"=500'	Flight Date: June 10, 1946	USGS

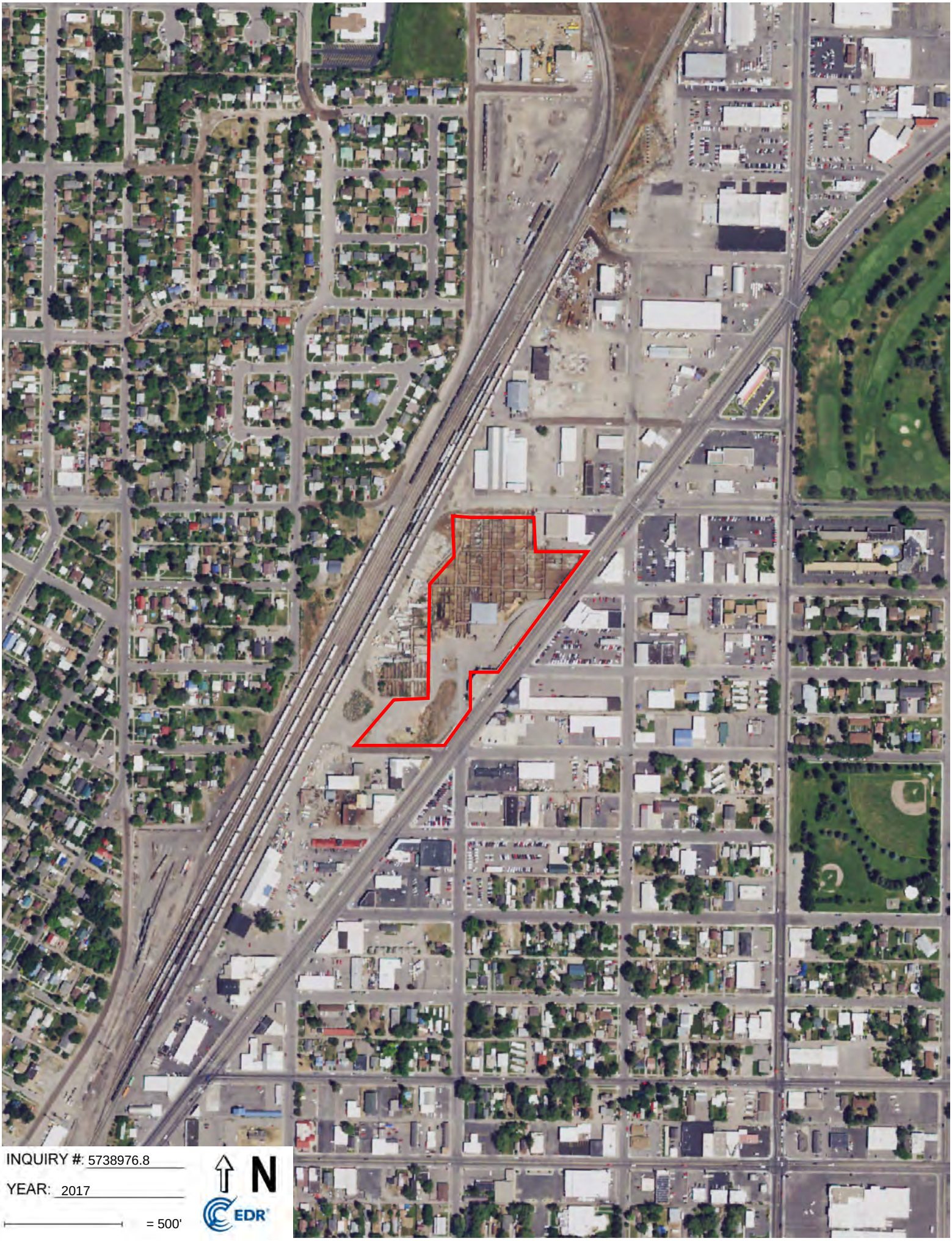
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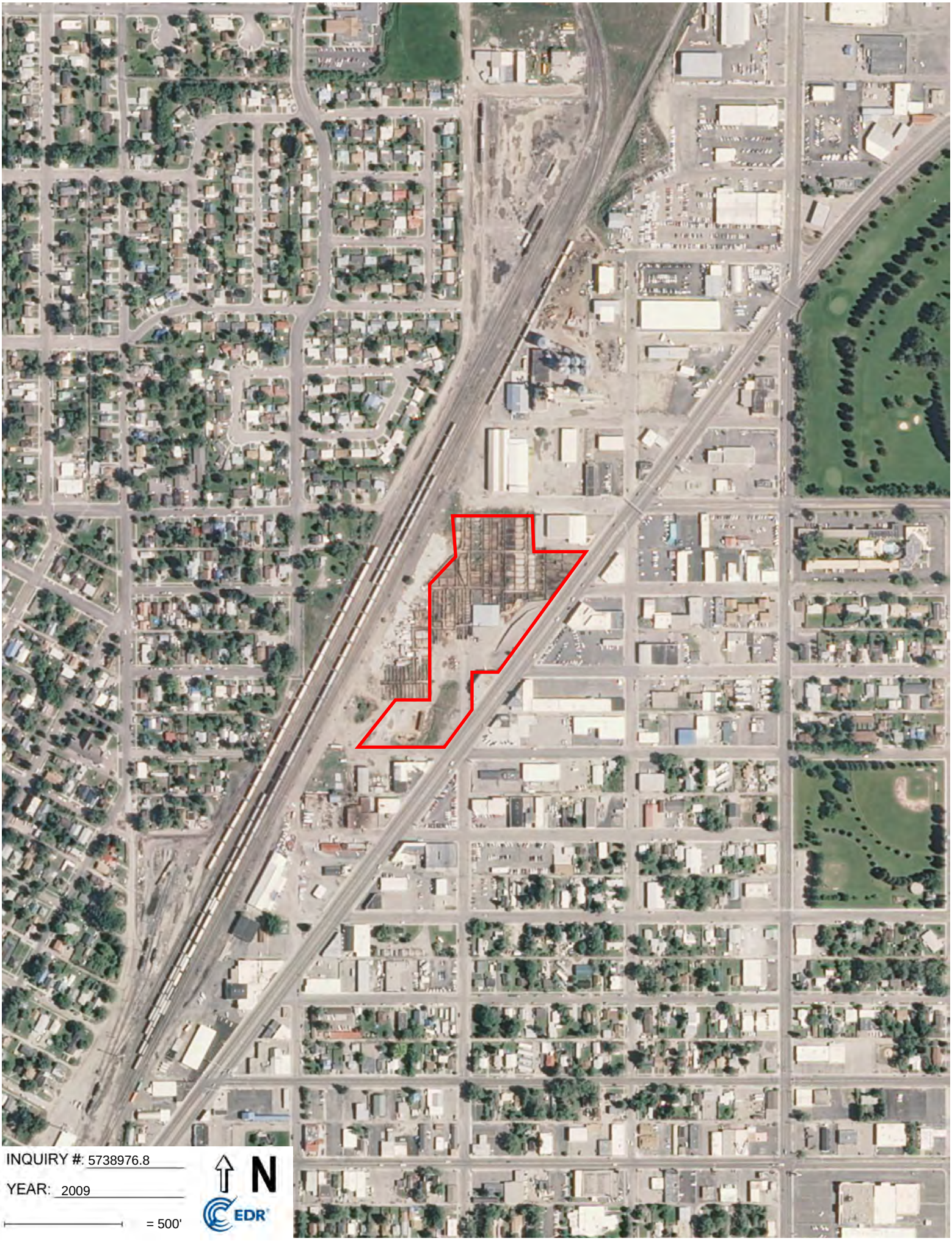
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INQUIRY #: 5738976.8
YEAR: 2017
= 500'
N
EDR


INQUIRY #: 5738976.8
YEAR: 2013
= 500'
N
EDR


INQUIRY #: 5738976.8
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 5738976.8
YEAR: 2006
= 500'
N
EDR


INQUIRY #: 5738976.8
YEAR: 1998
= 750'
N
EDR
Subject boundary not shown because it exceeds image extent or image is not georeferenced.


INQUIRY #: 5738976.8
YEAR: 1992
= 500'
N
EDR


INQUIRY #: 5738976.8
YEAR: 1987
= 750'
N
EDR
Subject boundary not shown because it exceeds image extent or image is not georeferenced.


INQUIRY #: 5738976.8
YEAR: 1980
= 500'
N
EDR


INQUIRY #: 5738976.8
YEAR: 1976
= 750'
N
EDR
Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 5738976.8

YEAR: 1973

= 750'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 5738976.8

YEAR: 1954

= 750'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 5738976.8

YEAR: 1946

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

IF Livestock Commission Co.
701 Northgate Mile
Idaho Falls, ID 83401

Inquiry Number: 5738976.5
August 09, 2019

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

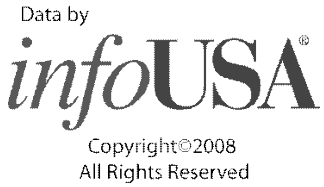
DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2014	☑	☑	EDR Digital Archive
2010	☑	☑	EDR Digital Archive
2005	☑	☑	EDR Digital Archive
2000	☑	☑	EDR Digital Archive
1995	☑	☑	EDR Digital Archive
1992	☑	☑	EDR Digital Archive
1985	☑	☑	Polk's City Directory
1980	☑	☑	Polk's City Directory
1975	☑	☑	Polk's City Directory
1970	☑	☑	Polk's City Directory
1966	☑	☑	Polk's City Directory
1963	☑	☑	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

701 Northgate Mile
Idaho Falls, ID 83401

Year	*CD Image*	*Source*

NORTHGATE MILE

2014	pg A6	EDR Digital Archive
2010	pg A12	EDR Digital Archive
2005	pg A18	EDR Digital Archive
2000	pg A24	EDR Digital Archive
1995	pg A30	EDR Digital Archive
1992	pg A36	EDR Digital Archive
1985	pg A40	Polk's City Directory
1985	pg A41	Polk's City Directory
1980	pg A44	Polk's City Directory
1980	pg A45	Polk's City Directory
1975	pg A49	Polk's City Directory
1975	pg A50	Polk's City Directory
1970	pg A54	Polk's City Directory
1970	pg A55	Polk's City Directory
1966	pg A58	Polk's City Directory
1966	pg A59	Polk's City Directory
1966	pg A60	Polk's City Directory

NORTHGATE MILE (N YELLOWSTONE HWY)

1963	pg A64	Polk's City Directory
1963	pg A65	Polk's City Directory
1963	pg A66	Polk's City Directory

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
E ELVA ST		
2014	pg. A2	EDR Digital Archive
2010	pg. A8	EDR Digital Archive
2005	pg. A14	EDR Digital Archive
2000	pg. A20	EDR Digital Archive
1995	pg. A26	EDR Digital Archive
1992	pg. A32	EDR Digital Archive
1985	pg. A38	Polk's City Directory
1980	pg. A42	Polk's City Directory
1975	pg. A46	Polk's City Directory
1970	pg. A51	Polk's City Directory
1970	pg. A52	Polk's City Directory
1966	pg. A56	Polk's City Directory
1963	pg. A61	Polk's City Directory
MAY ST		
2014	pg. A4	EDR Digital Archive
2010	pg. A10	EDR Digital Archive
2005	pg. A16	EDR Digital Archive
2000	pg. A22	EDR Digital Archive
1995	pg. A28	EDR Digital Archive
1992	pg. A34	EDR Digital Archive
1985	pg. A39	Polk's City Directory
1980	pg. A43	Polk's City Directory
1975	pg. A47	Polk's City Directory
1975	pg. A48	Polk's City Directory
1970	pg. A53	Polk's City Directory
1966	pg. A57	Polk's City Directory
1963	pg. A62	Polk's City Directory
1963	pg. A63	Polk's City Directory

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E ELVA ST 2014

305	RAY-CORE INC
335	NORTHGATE TRANSMISSION
340	SURE SIGNS
350	RAYS AUTO REPAIR INC
384	MEINEKE CAR CARE CENTERS
385	SIDECAR VENTURES CORP
475	TOM S GYRO & BURGER
640	BENEVLENT PRTECTIVE ORDER ELKS
	IDAHO FALLS ELKS LODGE CLUB
700	BROWN, ERIC N
	CAUBLE, MOZELL
	FINN, LARRY C
	JONES, ELOISE E
701	19TH HOLE CAFE
	TIMS PRO SHOP LLC
710	FEUDNER, FREDRICK D
	FRIENDS OF BILL W
	PEHRSON, SHARI L
720	GREEN, WILLIAM G
737	ANDERSON, ANNETTE
750	OCCUPANT UNKNOWN,
754	BLAKE, GAY E
780	BARNEY, DICK S
	OLSEN, BEVERLY J
840	EVANGELICAL LUTHERAN
846	GEE, SHARON L
899	FRONGNER, DON J
900	MILLER, GLEN R
902	WEINRICH, DONNA M
903	OCCUPANT UNKNOWN,
908	WARD, DEAN B
909	OCCUPANT UNKNOWN,
914	AGUINO, CARMEN
915	OCCUPANT UNKNOWN,
920	WAGGONER, PAUL
921	KAPPEL, COURTNEY
926	OCCUPANT UNKNOWN,
927	HARRISON, JEREMY L
932	FURUKAWA, ALICIA
933	CHIDESTER, BETTY R
938	STOLFUS, RICK E
939	BOTT, GEORGE A
944	MCINELLY, JAMES R
945	TAYLOR, SHARON W
950	DEXTER, JEFF R
951	LEWIS, ERNIE E
956	RAMIREZ, VICTOR
957	WILLIAMS, SHIRLENE R
962	RESENDIZ, FRANCISCO
963	HIGLEY, JAMIE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E ELVA ST 2014 (Cont'd)

968 SANCHEZ, EUSEBIO M
969 RUMSEY, DEBRA
974 OCCUPANT UNKNOWN,
975 ARAUJO, JOSE L
992 COLE, CHARLES A
998 GYORFY, ANDREW

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAY ST 2014

240	IDAHO STEEL PRODUCTS INC
340	GREAT WALL ENTPS GROUP LLC
375	ACC ENTERPRISES INC
	JBC CONSTRUCTION INC
395	MICKELSEN PIANO COMPANY
	NATIONAL BENCH CO
410	ROCKY MOUNTAIN SCIENTIFIC CORP
422	COBURN, CARL V
	PURSE PARTY
430	VALENCIA, CAROL
433	IDAHO FALLS CONFERENCE OF
	SAINT VNCENT DEPAUL THRIFT STR
445	JIM SERR AUTOMOTIVE
460	GEORGES DIESEL & AUTO REPAIR
465	COMPUTECH
480	OCCUPANT UNKNOWN,
482	LUCY, SARA J
484	CALDWELL, DUSTIN W
490	MCKENZIE, SHERYL L
541	KINNEY, JASMINE
543	CLARK, SAMANTHA
545	JEANS WOOD N ART
	TOWLER, JULIE
547	SMITH, JEAN
551	CLAYTON, BROCK A
555	BEASLEY, NITA
	NITA S PAINTING
577	GERDES RUSTY
	GERDES, RUSTY L
591	CURTIS, DENISE
615	BEINS, JOHN A
624	LANE, DANIEL K
625	CORTEZ TRANSPORTATION LLC
	CORTEZ, MANUEL
628	CONTRERAS, DANIEL G
630	ROULEAU, TRACY
643	GALLUP, GRANT G
650	JONES, LINDA L
653	NELSON, GARY
655	PADRON, TIBURCIO
665	VELA, HEIDI
668	BELL, NANCY J
680	PAPA BEAR DAYCARE
690	OCCUPANT UNKNOWN,
713	MORI, STEPHEN W
714	NAKAYAMA, JAMES T
722	WALTON, JUSTIN T
723	TOLLI, JOHN E
733	MEZA, ALFREDO Z
734	YBARRA, CESAR

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAY ST 2014 (Cont'd)

743	BURKE, HOLLY T
744	RASMUSSEN, GARY S
755	DARE, ROBERTA W
	HEINER, VINCE D
	RODRIGUEZ, AYCLADYS D
	ZIMMER, JAMIE L
764	COLFLESH, VICTOR T
	MAXFIELD, BRITTNEY C
774	JOHNSON, CONNIE M
	KIREL, MARY
779	SUDWEEKS, BONITA
	THOMSON, DAKODA
791	KOONTZ, ASHLEY
	PAULI, NATALIE K
	SCHNEIDER, JUNETTA J
	STEELE, LORI

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NORTHGATE MILE 2014

120	FOGG DRUG CO INC
	PREPAREDNESS STORE
	S & R CARPET CLEANING
125	BLUEBELL GAS
	DISCOUNT CAB
155	STEAM STORE ROCKY MOUNTAIN
162	OCCUPANT UNKNOWN,
195	IDAHO CANVAS PRODUCTS INC
204	AMAZING TROPHIES & GIFTS
	BROOKS TROPHIES COTTAGE
	MERLINS REGIONAL SERVICE CTR
238	HABITAT FOR HUMANITY
265	B & G TIRE INC
	IDAHO FALLS NORTHGATE BIG
330	NORTHGATE APPLIANCE
333	CABLE SCENE MAG
	CHALLIS MESSENGER
	CREATIVE SERVICE
	GOODFELLOW FUND INC
	POST COMPANY
401	BONNEVILLE COUNTY CHOPPER
410	EXHAUST INC
430	STANS PAINT CLINIC INC
455	ROAD RAGS & CYCLE LLC
460	NORTH HI-WAY CAFE INC
475	BOOS, T
490	DODGE AUTHORIZED DEALER
	RAON SAYER DODGE
495	NORIEGA, EDUARDO
501	IDAHO FALLS FOUNDRY & MCH CO
535	D & A INC
560	SCOTTYS DRIVE IN
565	PAULAS RENTOLS INVESTMENT
601	SALVATION ARMY
660	BARRONS JEWELRY & DESIGN
	EVOLUTION COMFORT HEATING
675	PARTS SERVICE INC
701	BRAND INSPECTOR
	IDAHO LIVESTOCK AUCTION LLC
	STATE POLICE IDAHO
898	ENTERPRISE CAR RENTAL OF I F
955	RITE STOP
960	BROADWAY FORD USED CARS
	QUICK LANE TIRE AND AUTO CTR
1020	NORTHGATE EXPRESS CARWASH
1091	U-HAUL CO OF IDAHO INC
1115	CJ EAST CARLS JR
1353	VAN KAMPEN INC
1385	RUSH AUTO PARTS INC
	TITLE CASH

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NORTHGATE MILE 2014 (Cont'd)

1395	GUSTAVE A LARSON COMPANY
1425	OFFICEMAX NORTH AMERICA INC
1455	BANK OF COMMERCE
1471	PINECREST DINER INC
1501	EXECUTIVE TRNING RESOURCES LLC
1513	DOLLAR TREE STORES INC
1517	CTR MASSAGE
1519	RADIOSHACK CORPORATION
1547	GREAT CIPS FOR HAIR
1549	PRO NAILS
1555	FRED MEYER STORES INC
	JPMORGAN CHASE BANK NAT ASSN
1557	BLACK PEARL DENTAL LAB LLC
	HARRIGFELD AGENCY
1561	COMPUTER MEDICAL CENTER
1575	RUNNINGS IDAHO FALLS INC
1625	KEYBANK NATIONAL ASSOCIATION

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E ELVA ST 2010

315	CONLEY, KENNY D
335	NORTHGATE TRANSMISSION
340	SURE SIGNS
342	CHAOS MOTOR SPORTS
350	RAYS AUTO REPAIR INC
	S S DISTRIBUTING
385	GUANELL ENTERPRISES LLC
440	ASSISTING HANDS HOME CARE
	MORTGAGE ARBITRATORS LLC
444	CINDYS FLEA MARKET
448	SOLIS JOHN AUTOMOTIVE VILLAGE
475	TOM S GYRO & BURGER
640	BENEVLENT PRTECTIVE ORDER ELKS
	IDAHO FALLS ELKS LODGE CLUB
700	CAUBLE, MOZELL
	GOLDMAN, JOSIE
701	TIMS PRO SHOP LLC
710	BEHRENS, LAVON
	FEUDNER, GILBERT W
	FRIENDS OF BILL W
	ROSE, YVONNE F
720	GREEN, ROBERT G
	NIELSON, DEAN C
	SASINOUSKI, JAN J
737	FRYSLIE, ANDREW P
754	BLAKE, GAY E
764	HUNTER, TODD J
780	BARNEY, DICK S
	ELDER, L D
	OLSEN, BEVERLY M
	SMALLWOOD, JAMES
840	EVANGELICAL LUTHERAN
	THOMAS MGMT CORP
846	GEE, SHARON L
900	MILLER, GLEN R
902	DEDDENS, ROBERT J
903	OCCUPANT UNKNOWN,
908	WARD, DEAN B
909	JACKSON, JERRY M
914	MARTINEZ, MIGEL
915	OCCUPANT UNKNOWN,
920	WAGGONER, CARL M
921	JOHNSTON, GEORGE
	SIENNA LLC
926	PRESTWICH, KEILYN
927	HARRISON, JEREMY L
932	OCCUPANT UNKNOWN,
933	CHIDESTER, BETTY R
938	BURGESS, LARRY H
939	BOTT, GEORGE A

E ELVA ST 2010 (Cont'd)

944	MCINELLY, JAMES R
945	TAYLOR, SHARON W
950	DEXTER, BRIAN P
951	OCCUPANT UNKNOWN,
956	RAMIREZ, VICTOR
957	WILLIAMS, LAUREN J
962	RESENDIZ, FRANCISCO
968	SANCHEZ, EUSEBIO M
969	FURGUSON, DONALD H
974	CALL SUSAN
	OSTLER, CONNIE J
975	MOSS, TIMOTHY
980	JEFFS, ELVIRA A
986	OCCUPANT UNKNOWN,
992	MACKAY, JUANITA
998	GYORFY, ANDREW

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAY ST 2010

240	IDAHO STEEL PRODUCTS INC
340	GREAT WALL ENTPS GROUP LLC
369	SUPERIOR SOUND
375	JBC CONSTRUCTION INC
	M L COMPUTER TECHNOLOGIES
380	MARLINS MECHANIX
385	RETAIL THERAPY
	WINDOW RESOURCE & DESIGN LLC
395	MICKELSEN PIANO COMPANY
	NATIONAL BENCH CO
401	OPTIONS INC
410	INTERWEST MORTGAGE
422	COBURN, CARL V
430	OCCUPANT UNKNOWN,
433	SAINT VNCENT DEPAUL THRIFT STR
445	JIM SERR AUTOMOTIVE
484	CALDWELL, BELVA I
490	MCKENZIE, SHERYL L
541	OCCUPANT UNKNOWN,
543	ALLEN INTERNATIONAL
	CLARK, TIFFANY
545	ARMOUR, ILIA O
	JEANS WOOD N ART
	TETONMICRO
547	HARRISON, NORMA J
551	CLAYTON, BROCK A
555	FERNEY, DEAN M
	NITA S PAINTING
577	GERDES, RUSTY L
591	PAULSEN, BLAINE G
615	BEINS, DORIS N
624	SELLERS, TERESA M
625	MUNOZ, KARINA
628	MARLEY, MAX
630	ROULEAU, TRACY
643	GALLUP, GRANT G
650	JONES, LINDA L
653	NELSON, DONABELLE H
655	PADRON, TIBURCIO
664	FIELDING, CARISSA
668	BELL, BELVA L
	BURST TRANSPORTERS LLC
680	CHILDREN S ADVENTURE CENTER
690	BROWN, KEISHA
713	MORI, STEPHEN W
714	NAKAYAMA, JAMES T
722	DIXON, JONI
723	TOLLI, JOHN E
733	JOHNSON, KERREY L
734	YBARRA, CESAR

MAY ST 2010 (Cont'd)

743	MARTINEZ MICHAEL
744	RASMUSSEN, GARY S
755	DARE, TORI R
	JOBE, CHARITY
	ZIMMER, JAMIE L
764	BARAJAS, JORGE
	BAUER, PAUL G
	COLBY, GALE
	KEHOE, GAYLAND D
	PAUL, TINA
779	COTTON, LIZ A
	LUBBERS, SEAN
791	SCHNEIDER, JUNETTA J
	SMITH, PARNELL
	STEELE, LORI

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NORTHGATE MILE 2010

120	FOGG DRUG CO INC
	PREPAREDNESS STORE
	S & R CARPET CLEANING
125	DISCOUNT CAB
	MALMBERG, LEROY
155	STEAM STORE ROCKY MOUNTAIN
162	EVANS, TAMMY
195	IDAHO CANVAS PRODUCTS INC
204	AMAZING TROPHIES & GIFTS
	BROOKS TROPHIES COTTAGE
265	B AND G TIRE INC
	CASANOVA STEPHONIE
	SG RENTAL LLC
330	NORTHGATE APPLIANCE
333	IDAHO ALLIED DAILIES INC
	INTERMOUNTAIN FARM AND RANCH
	POST COMPANY
410	EXHAUST INC
430	STANS PAINT CLINIC INC
460	BUTCH & DARLENE WARREN INC
	NORTH HI-WAY CAFE INC
475	ALL AMERICAN GOURMET MEATS
	PAUL WATERS INC
490	RAON SAYER DODGE
495	NORIEGA, EDUARDO
501	IDAHO FALLS FOUNDRY & MCH CO
509	BERRY, MIKE
535	D & A INC
560	SCOTTYS DRIVE IN
565	PAULAS RENTOLS INVESTMENT
	QUIJADA, MARIA C
601	WESTERN TERRITORIAL SALVATION
660	EVOLUTION COMFORT HEATING
675	PARTS SERVICE INC
701	BRAND INSPECTOR
	IDAHO LIVESTOCK AUCTION LLC
	STATE POLICE IDAHO
760	SAYER RON INC
805	SUPERTANKS LLC
840	840 THE
898	ENTERPRISE CAR RENTAL OF I F
921	RUDDELL DAN
955	RITE STOP
960	BROADWAY FORD USED CARS
1091	U-HAUL CO OF IDAHO INC
1353	VAN KAMPEN INC
1359	CLASSY THREADS LLC
1363	ARCHERY IDAHO LLC
1385	RUSH AUTO PARTS INC
	TITLE CASH

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NORTHGATE MILE 2010 (Cont'd)

1395	GUSTAVE A LARSON COMPANY
1415	MELDISCO/PAY LESS 1515 NORTHGA
1425	OFFICEMAX NORTH AMERICA INC
1435	JO-ANN STORES INC
1455	BANK OF COMMERCE
1471	PINECREST DINER INC
1501	EXECUTIVE TRNING RESOURCES LLC
1513	DOLLAR TREE STORES INC
1519	RADIOSHACK CORPORATION
1547	GREAT CIPS FOR HAIR
1555	FRED MEYER STORES INC
	JPMORGAN CHASE BANK NAT ASSN
	PRO NAILS
1557	HARRIGFELD AGENCY
1561	COMPUTER MEDICAL CENTER
1575	RUNNINGS IDAHO FALLS INC
1625	KEYBANK NATIONAL ASSOCIATION

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E ELVA ST 2005

335	NORTHGATE TRANSMISSION
340	SURE SIGNS
350	AUTO SHINE DETAIL CENTER INC
	RAYS AUTO REPAIR INC
385	GUANELL ENTERPRISES LLC
	NICHOLS ENTERPRISES INC
440	ELRAC INC
	FOSTER BRENT
448	SOLIS JOHN AUTOMOTIVE VILLAGE
475	TOM S GYRO & BURGER
620	BOWLERS PRO SHOP
640	BENEVLENT PRTECTIVE ORDER ELKS
	IDAHO FALLS ELKS LODGE CLUB
	MUSCULAR DYSTROPHY
700	CLAWSON, DONOVAN H
	GUTKE, DONNA J
	LUNDGREN, DOROTHRY A
701	TIMS PRO SHOP
710	FEUDNER, GILBERT W
	ROSE, BLAINE B
720	GRANDELL, LEO W
	GREEN, ROBERT G
	THOMPSON, JO J
737	FRYSLIE, LEAH P
750	OCCUPANT UNKNOWN,
754	BLAKE, GAY E
764	HUNTER, TODD J
780	BARNEY, DICK S
	BREWER, K R
	CHARBONEAU, M
	OLSEN, BEVERLY M
840	ARD, LELA M
	EVANGELICAL LUTHERAN
	GOOD SAMARITAN HOSPICE HM HLTH
	THOMAS MGMT CORP
846	GEE, SHARON L
900	MILLER, GLEN R
902	DEDDENS, ROBERT J
903	WEBSTER, DORSEL R
908	WARD, DEAN B
909	JACKSON, JERRY M
914	LIGHTOLWER, SHELLY L
915	OCCUPANT UNKNOWN,
920	WAGGONER, CARL M
921	COOK, WILLIAM C
926	RICHARDSON, ERIC L
927	HARRISON, JEREMY
932	HIRSCHI, KARA M
933	CHIDESTER, BETTY R
938	BURGESS, TERRIE J

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E ELVA ST 2005 (Cont'd)

939 BOTT, GEORGE A
944 MCINELLY, JAMES R
945 TAYLOR, SHARON
950 DEXTER, BRIAN P
951 OCCUPANT UNKNOWN,
956 VANBURKLEO, BONNIE K
957 WILLIAMS, LAUREN J
962 RESENDIZ, ANGELA G
968 SANCHEZ, EUSEBIO
969 MCCULLOCH, CARMA B
974 OSTLER, CONNIE J
975 GARDNER, RUBY S
980 JEFFS, ELVIRA A
986 CHISM, TERRY V
992 COLE, CHARLES A
998 RYAN, ALLEN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAY ST 2005

240	IDAHO STEEL PRODUCTS INC
340	OCCUPANT UNKNOWN,
380	MARLINS MECHANIX
385	WINDOW RESOURCE & DESIGN LLC
395	MICKELSEN PIANO COMPANY
	NATIONAL BENCH CO
405	SECURITY LIFE INSURANCE CO
422	COBURN, CARL V
430	MAGNUSSON, JACK D
433	SAINT VNCENT DEPAUL THRIFT STR
445	JIM SERR AUTOMOTIVE
461	GARDNER BUILDERS & HOME IMPRVS
465	DENTURE CLINIC
480	STONE, KATHY
482	DAVIS, HOWARD R
484	CALDWELL, BELVA I
490	OCCUPANT UNKNOWN,
541	DRUMMOND, BRAD
543	ARGYLE, A J
545	JEANS WOOD N ART
	OCCUPANT UNKNOWN,
547	HARRISON, LARRY D
551	OCCUPANT UNKNOWN,
555	BEASLEY, MELVIN L
577	GERDES, RUSTY L
591	PAULSEN, BLAINE G
615	BEINS, DORIS N
624	LANE, TERESA
625	CORTEZ, MANUEL
628	LOVE, PEGGY S
630	KAMOE, MISTY L
643	GALLUP, GRANT G
653	NELSON, DONNA H
655	PHILLIPS, DEAN P
665	FIELDING, REBECCA L
	GODINEZ, JENNY
	LUNA, ESMERALDA
	PAULI, EDWARD S
	ROSENBERG, MATT
668	BELL, CLAYTON E
680	GRANDMAS PLAYHOUSE & PRE SCHO
690	OCCUPANT UNKNOWN,
713	MORI, STEPHEN W
714	FINCK, KATIE
722	OCCUPANT UNKNOWN,
723	TOLLI, JOHN E
733	BYRD, DOUG W
734	THURMAN, DENNIS
743	GUTIERREZ, LUIS A
744	RASMUSSEN, GARY S

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAY ST 2005 (Cont'd)

755	DARE, TORI
	ZIMMER, JAMIE L
764	KEHOE, GAYLAND
	MITCHELL, SHIRLEY L
	VELASCO, JOSE
774	DANNEHL, ZELLA M
	MEDRAN, MARY
	WAGGONER, BONNIE J
779	SIPES, BEN R
791	FOSTER, CHARLES E
	HAMILTON, TAMMY
	SCHNEIDER, JUNETTA J
	STEELE, LORI

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NORTHGATE MILE 2005

120	FOGG DRUG CO INC
	PREPAREDNESS STORE
	S & R CARPET CLEANING
125	MALMBERG, LEROY
155	STEAM STORE ROCKY MOUNTAIN
162	EVANS, TAMMY
195	IDAHO CANVAS PRODUCTS INC
204	MERLINS TV SERVICE INC
220	FIN CHASERS
	TEN DOLLAR CLOTHING STORE
238	PHASE 4 STEREO & ELECTRONICS
265	B & G TIRE INC
310	FIRST CALL JEWEL INC
	ONE STOP DISTRIBUTING INC
330	NORTHGATE APPLIANCE
333	CREATIVE SERVICES
	POST COMPANY
401	AUTO FINANCING
	UNITED AUTO INC
410	EXHAUST INC
430	STANS PAINT CLINIC INC
460	NORTH HI-WAY CAFE INC
475	ALL AMERICAN GOURMET MEATS
	BOOS TATOO
	HOGS SMOKE CAFE
	MARTIN, TODD
	RODRIGUEZ, JAVIER
	T EDGE LEATHER & LACE
	TOP DOG GROOMING
490	ELLSWORTH BROTHERS INC
	RAON SAYER DODGE
501	IDAHO FALLS FOUNDRY & MCH CO
509	BERRY, M
535	D AND A INC
560	T & K WARTON LLC
565	IN STYLE FASHIONS
567	IDAHO FALLS FRIENDSHIP CLUB
593	TOOL LIQUIDATOR INC
601	WESTERN TERRITORIAL SALVATION
660	A FRAME
675	PARTS SERVICE INC
690	ROBISON ADVERTISING AGENC
701	IDAHO LIVESTOCK AUCTION LLC
760	SAYER PARTS
	SAYER RON INC
	SPORTSMANS TRUCK CENTER
805	CREDITMASTER FINANCE LLC
	SMITH CAR STORE
	SUPERTANKS LLC
840	CHICS LOUNGE

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NORTHGATE MILE 2005 (Cont'd)

921	FIRE PROTECTION SERVICES
	RUDDELL DAN
955	WRIGHT OIL & TIRE CO
962	J & J WNSHL RPLCEMENT REPR LLC
1020	BANK OF COMMERCE
1051	BROADWAY FORD USED CARS
1091	U-HAUL CO OF IDAHO INC
1115	BYBEE MARK
1303	ARCHERY IDAHO LLC
1333	CLASSIC FOODS INC
1353	VAN KAMPEN INC
1359	CLASSY THREADS LLC
1385	RUSH AUTO PARTS INC
	SHEEPSKIN OUTLET
1395	LARSON GUSTAVE A COMPANY
1415	MELDISCO/PAY LESS 1515 NORTHGA
	RITE AID CORPORATION
1425	OFFICEMAX NORTH AMERICA INC
1435	JO-ANN STORES INC
1455	BANK OF COMMERCE
1471	PINECREST DINER INC
1515	AD MAN JMG INC
	FITNESS WORLD INC
	MUSCLE UP ATHLETIC WEAR
	TROPIC WORLD
	WORLD GYM
1519	RADIOSHACK CORPORATION
1531	BOARDS VIDEO COMPANY LLC
	HOLLYWOOD ENTERTAINMENT CORP
1546	WALLACE THEATER CORPORATION
1547	GREAT CIPS FOR HAIR
1555	FRED MEYER JEWELERS INC
	FRED MEYER PHARMACY DEPT
	WASHINGTON MUTUAL BANK
1625	KEYBANK NATIONAL ASSOCIATION

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E ELVA ST 2000

335	OCCUPANT UNKNOWN,
350	AUTO SHINE LLC
	VIDRIO, MARK
385	NICHOLS ENTERPRISES INC
440	ENTERPRISE RENT-A-CAR COMPANY
448	SOLIS JOHN AUTOMOTIVE VILLAGE
475	PARADISE CLUB
	TOM S GYRO & BURGER
640	BENEVOLENT & PROTECTIVE
	BOULDERS PRO SHOP
	IDAHO FALLS ELKS CLUB
680	WORTHY, S D
700	BRETZ, JAMES
	GEISLER, GLENDA
	JONES, ELOISE E
701	TIMS PRO SHOP
710	FEUDNER, GILBERT W
	RIVES, EDNA
	WHITE, TERRY R
720	BURNS, KENNETH D
	GREEN, ROBERT G
	MILLER, JERRY R
	THOMPSON, JO
737	FRYSLIE, PERRY
750	MOSS, B W
754	OCCUPANT UNKNOWN,
764	HUNTER, TODD J
780	BREWER, K R
	HYER, HARRIET
	JUAREZ, CATHY
	OLSEN, BEVERLY M
	STEWART, ELAYNE C
840	EVANGELICAL LUTHERAN GOOD SAM
	GOOD SAMARITAN HOSPICE HM HLTH
	THOMAS MGMT CORP
850	OCCUPANT UNKNOWN,
900	OCCUPANT UNKNOWN,
902	DEDDENS, DONALD
903	WEBSTER, DORSEL R
908	WARD, DEAN B
909	JACKSON, JERRY
914	LIGHTOWLER, SHELLY
915	MARSH, MONA
920	WAGGONER, CARL M
921	COOK, J
926	RICHARDSON, ERIC
927	DENNING, EDWARD J
932	OCCUPANT UNKNOWN,
933	CHIDESTER, BETTY R
938	BURGESS, L H

E ELVA ST 2000 (Cont'd)

939 BOTT, GEORGE
944 MCINELLY, JAMES
945 OCCUPANT UNKNOWN,
950 DEXTER, JEFF
951 LEWIS, ERNIE
956 VANBURKLEO, BONNIE
957 WILLIAMS, LAUREN J
962 RESENDIZ, FRANCIS
963 EDMONDS, JANALEE
968 RICHAN, ROBI
969 MCCULLOCH, CARMA
974 CALL, ELTON D
975 GARDNER, RUBY S
980 JEFFS, ELVIRA
986 LITTLEFORD, TERRIE J
992 COLE, CHARLES
998 ALLEN, RYAN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAY ST 2000

240	IDAHO STEEL PRODUCTS CO INC
340	A-1 RADIATOR
	DYNAMICS INC
380	MARLINS MECHANIX
385	HERITAGE CHURCH ORGAN CO
395	MICKELSEN PIANO CO
	NATIONAL BENCH CO
422	OCCUPANT UNKNOWN,
430	MAGNUSSON, JACK
433	SAINT VNCENT DEPAUL THRIFT STR
445	JIM SERR AUTOMOTIVE
	OCCUPANT UNKNOWN,
460	AARDVARK AUTO GLASS
461	OUTSOURCE RECEIVABLES MGMT
465	DENTURE CLINIC
	GIOVANINI, CINDY
484	CALDWELL, BELVA
490	KEARNEY, ANN
541	COX, ROLF W
543	STIBAL, DUSTIN
545	WARD, J
547	SELLERS, ANALIZA
551	OCCUPANT UNKNOWN,
555	BEASLEY, MELVIN L
577	GERDES, RUSTY
591	PAULSEN, BLAINE G
615	OCCUPANT UNKNOWN,
624	ROWE, DAN
625	CORTEZ, LINO
628	LOVE, AMANDA N
630	OCCUPANT UNKNOWN,
650	OCCUPANT UNKNOWN,
653	NELSON, D H
655	PHILLIPS, DEAN
665	ALLISON, TIFFANY Q
	CLEVENGER, TIFFANY Q
	EVENS, S J
	EXTRA HAND
	FIFE, JASON L
668	BELL, CLAYTON
680	TOP NOTCH DAY CARE
690	GLICK, JAY L
713	MORI, STEPHEN W
714	WHITE, ROBYN
722	OCCUPANT UNKNOWN,
723	TOLLI, M S
734	CARLSON, BRENT
743	GUTIERREZ, JUAN C
744	RASMUSSEN, GARY S
755	OLSEN, CHRIS

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAY ST 2000 (Cont'd)

755	ZIMMER, JAMIE
764	MITCHELL, C
	SETHER, VIKKI
774	DANNEHL, ZELLA M
	MONTAGUE, RUBY
	WAGGONER, B J
779	HARTMAN, A
	HUNTER, CLARICE A
791	MUELLER, M E
	WISE, L

Target Street	Cross Street	Source
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NORTHGATE MILE 2000

120	FOGG DRUG CO INC
155	STEAM STORE ROCKY MOUNTAIN
164	PRETTY PETS GROOMING
195	IDAHO CANVAS PRODUCTS INC
204	MERLINS TV SERVICE INC
220	FIN - CHASERS
	WELLS, TRAVIS
238	PHASE 4 STEREO & ELECTRONICS
265	B & G TIRE INC
310	FIRST CALL JEWEL INC
330	NORTHGATE APPLIANCE
	OCCUPANT UNKNOWN,
333	CLASSIFIED ADVERTISING
	IN HOUSE DESIGN
	POST COMPANY (THE)
	WALLACE COMPUTER SERVICES INC
401	UNITED AUTO INC
410	EXHAUST INC
430	STANS PAINT CLINIC INC
460	BUTCH & DARLENE WARREN INC
	IWAKIRI, DICK R
	NORTH HI-WAY CAFE INC
475	ALL AMERICAN GOURMET MEATS
	HOGS SMOKE CAFE
	TOP DOG GROOMING
490	RAON SAYER DODGE BMW INC
501	IDAHO FALLS FOUNDRY & MCH CO
535	D AND A INC
560	WARTON INC
567	IDAHO FALLS FRIENDSHIP
593	INDUSTRIAL TOOL AND SUPPLY
601	SALVATION ARMY THE
660	SPORTS KORNER INC
690	K V S INC
	ROBISON ADVERTISING AGENC
701	COWBOY UP CAFE
	IDAHO LIVESTOCK AUCTION INC
760	SAYER RON INC
805	SMITH CHEVROLET COMPANY INC
840	CHICS LOUNGE
921	FIRE PROTECTION SERVICES
955	WRIGHT OIL & TIRE CO
960	BOUNTIFULL GROUP INC
	BUSINESS VISIONS INC
962	J & J WNSHL RPLCEMENT REPR LLC
1020	BANK OF COMMERCE THE
1051	WOODYS AUTOMOTIVE CENTER
1091	U-HAUL OF IDAHO INC
1199	ALLEN ANIMAL CLINIC
1333	CLASSIC FOODS INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NORTHGATE MILE 2000 (Cont'd)

1353	VAN KAMPEN INC
1359	CLASSY THREADS LLC
1363	WILDE ARROW
1395	PAMECO CORPORATION
	PAMECO, AIRE
1425	OFFICEMAX INC
1435	JO-ANN STORES INC
1471	PINECREST DINER
1515	AD MAN JMG INC
	GOTTSCHALKS INC
	RITE AID OF IDAHO INC
1519	RADIOSHACK CORPORATION
1531	HOLLYWOOD ENTERTAINMENT CORP
1546	WALLACE THEATER CORPORATION
1547	ON EAGLES WINGS LLC
1555	FRED, MEYER J
	GRAND CENTRAL INC
1561	SHAWING INC
1575	RUNNINGS IDAHO FALLS INC
1625	KEYBANK NATIONAL ASSOCIATION

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E ELVA ST 1995

335	NORTHGATE TRANSMISSION
385	NICHOLS ENTERPRISES INC
444	SAYER RON INC
448	SOLIS JOHN AUTOMOTIVE VILLAGE
475	TOM S GYRO & BURGER
640	BENEVOLENT & PROTECTIVE
	IDAHO FALLS ELKS CLUB
	PINECREST LANES
700	BRETZ, JAMES
	GEISLER, GLENDA
701	LOHSE, TIM J
	MIKES PRO SHOP
	TIMS PRO SHOP
710	LYON, EUGENIA R
	RIVES, EDNA
	STROBEL, JOHN
720	BURNS, KENNETH D
	GREEN, ROBERT G
	OBRIEN, DAVID
	THOMPSON, JO
737	FRYSLIE, PERRY
750	BELCHER, TODD
780	BREWER, K R
	CHENEY, STEVEN J
	HYER, HARRIET
	LINDSEY, B
	OLSEN, B M
	STEWART, LEE K
840	EVANGELICAL LUTHERAN GOOD SAM
	GEE, MARION
	JOHNSON, CLAUDE
	JOHNSON, F A
	KELLY, FLORA
	KELSEY, H P
	LEAVITT, A
	MCVEY, D I
	OVERACKER, F A
	SATZINGER, MYRTICE
	SPICKARD, C
	TANNER, JOHN E
	TIRRE, E S
	WILHITE, DANA
845	OCCUPANT UNKNOWNN
898	HOLIDAY MARKET
899	FRONGNER, DON
900	MILLER, GLEN R
902	DEDDENS, DONALD
903	WEBSTER, DORSEL R
908	WARD, DEAN B
909	JACKSON, JERRY

E ELVA ST 1995 (Cont'd)

914	GARRISON, STEVEN
915	BEESLEYS DAY CARE CENTER
	OCCUPANT UNKNOWNN
920	WAGGONER, CARL M
921	COOK, WILLIAM C JR
926	OCCUPANT UNKNOWNN
927	DENNING, EDWARD J
932	PACK, LYMAN
933	CHIDESTER, GENE
938	WISDOM, ROBERT
939	BOTT, GEORGE
944	OCCUPANT UNKNOWNN
945	OCCUPANT UNKNOWNN
950	DEXTER, JEFF
951	LEWIS, ERNIE
956	VANBURKLEO, BONNIE
957	WILLIAMS, LAUREN J
962	RESENDIZ, F
963	CARLSON, DAN
968	PRICE, ROGER
969	MCCULLOCH, CARMA
974	CALL, ELTON D
975	GARDNER, RUBY S
980	JEFFS, ELVIRA
986	DAYMON, CLINT
992	OCCUPANT UNKNOWNN
998	RADFORD, SHARON

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAY ST 1995

240	IDAHO STEEL PRODUCTS CO INC
	RELIANCE METAL WORKS INC
340	A-1 RADIATOR
	DYNAMICS INC
375	CARPENTERS DETAILING
380	OCCUPANT UNKNOWNN
385	COUNTRY OAK
395	BONNEVLLE HMANE SOC THRIFT STR
	FITNESS WAREHOUSE
405	JOSEPHSON INSURANCE AGENCY
	SUMMITT NATIONAL
422	COBURN, CARL
433	IDAHO VALVE & FITTINGS INC
445	JIM SERR AUTOMOTIVE
460	AARDVARK AUTO GLASS
480	OCCUPANT UNKNOWNN
482	OCCUPANT UNKNOWNN
484	CALDWELL, BELVA
490	KEARNEY, ANN
541	OCCUPANT UNKNOWNN
543	OCCUPANT UNKNOWNN
545	JORGENSEN, RANDY
547	OCCUPANT UNKNOWNN
551	SCHULDT, KIM
555	BEASLEY, MELVIN L
577	GERDES, RUSTY
591	PAULSEN, BLAINE G
624	ROWE, DAN
625	RAPP, RICHARD
630	MERRILL, BRANDEE
653	NELSON, D H
655	PHILLIPS, WILLIAM E
665	BOYD, REGGIE
	DEHLIN, MICHAEL
	HESSE, PHIL
668	BELL, CLAYTON
680	TOP NOTCH DAY CARE
690	GLICK, JAY L
713	OCCUPANT UNKNOWNN
714	WILDER, EDNA
722	YOST, MAX
723	TOLLI, M S
733	OCCUPANT UNKNOWNN
734	OCCUPANT UNKNOWNN
743	ROBISON, DEBRA A
744	RASMUSSEN, GARY S
	WICKHAM, M
755	BENCH, KRIS
	DARE, ROBERTA
764	DANNEHL, ZELLA M

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAY ST 1995 (Cont'd)

764 GALAVIZ, K
774 CADWELL, RICHARD
STOCKEMER, KENNETH W
779 HUNTER, CLARICE A
791 BARTA, JAMES R
LESTER, HEATHER
MUELLER, M E
WISE, L

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NORTHGATE MILE 1995

120	FOGG DRUG CO INC
155	STEAM STORE ROCKY MOUNTAIN
195	IDAHO CANVAS PRODUCTS INC
204	MERLINS TV SERVICE INC
220	SRJ INCORPORATED
238	PHASE 4 STEREO & ELECTRONICS
265	B & G TIRE INC
310	JEWEL INC
330	JENSENS NORTHGATE APPLIANCE
333	POST COMPANY (THE)
	POST PRINTING
401	UNITED AUTO INC
410	ARTS MUFFLER & BRAKE CENTER
430	STANS PAINT CLINIC INC
460	NORTH HI-WAY CAFE INC
475	HOGS SMOKE CAFE
	LOCKSMITH SERVICES
	TANDYCRAFTS INC
	TOP DOG GROOMING
490	ELLSWORTH BROTHERS INC
	ELSWORTH BROTHERS INC
	LEASING SERVICE INC
501	IDAHO FALLS FOUNDRY & MCH CO
535	D & A INC
555	ARTISTIC BODY CREATIONS TATTOO
560	WARTON INC
565	PRETTY PETS GROOMING
	SECOND HAND ROSE
593	TOOL LIQUIDATORS THE
601	SALVATION ARMY THE
620	FARRELLS AUTO UPHOLSTERY
660	FUN SPA WATERBEDS & FUTONS
690	K V S INC
701	IDAHO LIVESTOCK AUCTION CO
760	SAYER RON INC
	SYAER RON J
805	SMITH CHEVROLET COMPANY INC
898	CHAFFIN INDUSTRIES INC
955	JOHN ADAMS QUIK STOP
1020	BANK OF COMMERCE THE
1051	WOODYS AUTOMOTIVE CENTER
1055	FALLS PLUMBING SUPPLY
1091	U-HAUL CO OF IDAHO
	U-HAUL CO OF IDAHO INC
1199	ALLEN VETRANARY CLINIC
1333	CLASSIC FOODS INC
1353	VAN KAMPEN INC
1357	DAVES WOOD CRAFTS
	WESTERN HEALTH & SAFETY SUPPLY
1359	CLASSY THREADS INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NORTHGATE MILE 1995 (Cont'd)

1363	WILDE ARROW
1385	RUSH AUTO PARTS INC
1395	PAMECO CORPORATION
1445	ERNST HOME CENTER INC
1465	UNITED ARTISTS THEATRE CIRCUIT
1471	PINCREST DINER
1515	AD MAN JMG INC
	FALLS HOBBIES
	JENSEN JEWELERS OF IDAHO INC
	LAMONTS APPAREL INC
	PAY LESS DRUG STORES NORTHWEST
	V I P PETS
1625	KEY BANK OF IDAHO

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E ELVA ST 1992

335	NORTHGATE TRANSMISSION
385	H D R ENTERPRISES INC
448	SOLIS JOHN AUTOMOTIVE VILLAGE
450	PETERSON, L
475	TOM S GYRO & BURGER
640	BENEVOLENT & PROTECTIVE
	IDAHO FALLS ELKS CLUB
	MUSCULAR DYSTROPHY
700	KIENLEN, FRED C
	WYATT, LEON
701	LOHSE, TIM J
	MIKES PRO SHOP
	TAYLOR JOEL MICHAEL PRO SHOP
	TIMS PRO SHOP
720	HACK, JOHN
	OBRIEN, DAVID
737	FRYSLIE, PERRY
750	WILSON, BRAD
754	ROBERSON, HEATHER
764	LIVERMONT, TRINA
780	B C K INC
810	KAPPEL, G
840	BENNETT, K
	CARPENTER, LOREN
	EVANGELICAL LTHRN GD SAMARITAN
	GEE, EVELYN B
	GEE, MARION
	HIXSON, VELMA
	KEELER, M
	KELLY, FLORA
	KELSEY, H P
	KING, J H
	SATZINGER, MYRTICE
	WENGERT, MURIEL
898	HOLIDAY MARKET
899	PUGMIRE, STUART K
900	MILLER, GLEN R
902	DEDDENS, DONALD
903	WEBSTER, DORSEL R
908	WARD, DEAN B
909	JACKSON, JERRY
914	WILLIAMS, ELMER K
920	WAGGONER, CARL M
921	COOK, WILLIAM C JR
926	SMITH, BRAD W
927	DENNING, EDWARD J
933	CHIDESTER, GENE
938	WISDOM, ROBERT J
939	BOTT, GEORGE
944	HEISER, DOUGLAS

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

E ELVA ST 1992 (Cont'd)

950 DEXTER, JEFF
951 LEWIS, ERNIE
956 VANBURKLEO, BONNIE
957 WILLIAMS, LAUREN J
963 LITTLEFORD, GOLDEN L
968 COOK, WILLIAM
974 CALL, ELTON
975 GARDNER, RUBY S
980 JEFFS, ELVIRA
986 DAYMON, CLINT
KUFEN, DEBA
992 ELLIS, RONALD L

Target Street	Cross Street	Source
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MAY ST 1992

240	RELIANCE METAL WORKS INC
340	DYNAMICS INC
385	MASONS OFFICE CENTER INC
395	BONNEVLLE HMANE SOC THRIFT STR
	FITNESS WAREHOUSE
	SEWING CENTER KNIT SHOP
405	BONNEVILLE CO FIRE DISTRICT 1
	JOSEPHSON INSURANCE AGENCY
	SUMMITT NATIONAL
	WHITTIER & ASSOC INC
422	BOLINDER, JERRY
430	MAGNUSSON, JACK
	MT ICE CO
433	IDAHO VALVE & FITTINGS INC
445	JIM SERR AUTOMOTIVE
460	AARDVARK AUTO GLASS
461	NORTHGATE DENTURE LAB
480	ANDRUS, KIRK D
482	MARSHALL, EILEEN
484	CALDWELL, WADE
490	KEARNEY, ANN
541	HUMPHERYS, TEIRRE
545	JORGENSEN, RANDY
551	SCHULDT, KIM
555	BEASLEY, MELVIN L
577	GERDES, RUSTY
591	HEPWORTH, LYMAN
624	MURRIETA, GLEN
625	RAPP, RICHARD
630	PETERSEN, LELAND
650	RAPP, DICK
653	NELSON, D H
655	PHILLIPS, WILLIAM E
665	MCGEE, T C
668	CAMPBELL, JAMES
680	TOP NOTCH DAY CARE
690	GLICK, JAY L
713	MORI, STEPHEN W
722	YOST, MAX
723	TOLLI, M S
733	HOGAN, MIKE
734	KUNS, ERIC
743	LOVELL, RANDY
755	SMITH, K S
764	JACOBS, FRANK L
774	CADWELL, RICHARD
	MAGNUSON, BONNIE L
	SAUER, V
6651	RASH, SCOTT
6652	DEHLIN, MICHAEL

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MAY ST 1992 (Cont'd)

6653	BOYD, REGGIE
7551	MORTON, S R
7554	TEATS, MICHAEL P
7642	GALAVIZ, KATHY
7643	BUSHNELL, MARY S
7644	DANNEHL, ZELLA M
7741	CHASE, JIM
7743	ALLEN, KENT
7744	RODRIGUEZ, ALBERTO P
7792	HUNTER, CLARICE A
7793	RASH, DONALD P
7794	ALEXANDER, MARY
7911	BYBEE, ROBB
7912	MUELLER, M E
7914	CLARK, WANDA M

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NORTHGATE MILE 1992

120	FOGG DRUG CO INC
125	BLUE BELL
155	STEAM STORE ROCKY MOUNTAIN
170	WESTCOAST SLEEP CENTER
195	IDAHO CANVAS PRODUCTS INC
204	MERLINS TV SERVICE INC
220	BUDGET TAPES AND RECORDS
238	PHASE 4 STEREO & ELECTRONICS
265	B & G TIRE INC
310	JEWEL ELECTRIC INC
330	JENSEN DENNIS
	JENSENS NORTHGATE APPLIANCE
333	POST COMPANY INC
401	UNITED AUTO INC
410	ARTS MUFFLER & BRAKE CENTER
430	STANS PAINT CLINIC
460	NORTH HI-WAY CAFE INC
475	COMIC SHOP
	NORTHGATE NIBLEYS DONUTS
	SMOKE HOUSE
	TANDYCRAFTS INC
490	ELLSWORTH BROTHERS INC
	LEASING SERVICE INC
495	STATE FARM INSURANCE
501	IDAHO FALLS FOUNDRY & MCH CO
535	D & A INC
	SHARP J RICHARD ATTORNEY
555	DANS V W REPAIR
	FUN SPA WATERBEDS & FUTONS
	NORTHGATE FOREIGN CAR REP
560	WARTON INC
565	PAWNEE SALES COMPANY OF IDAHO
	PRETTY PETS GROOMING
593	TOOL LIQUIDATORS THE
600	JUSTS INC
620	FARRELLS AUTO UPHOLSTERY
660	MOUNTAIN SPRINGS SPAS
675	JERRYS MACHINE AND PARTS INC
690	COMPONENT CASTER U S A CO
	K V S INC
	ROBISON DISTRIBUTING INC
701	IDAHO LIVESTOCK AUCTION CO
760	SAYER RON INC
	SYAER RON J
805	SERVICE PARTS CO OF IDA FLS
	SMITH CHEVROLET COMPANY INC
840	LOWE CORPORATION
898	CHAFFIN INDUSTRIES INC
921	SNEEKERS GRILL & SPIRITS
930	TACO JOHNS OF LE MARS INC

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NORTHGATE MILE 1992 (Cont'd)

955	JOHN ADAMS QUIK STOP
960	QUALITY PRODUCT CENTER
1020	BANK OF COMMERCE THE
1051	R & S AUTO SALES AND SERVICE
	WHITE GLOVE AUTO
	WOODYS AUTOMOTIVE CENTER
1055	FALLS PLUMBING SUPPLY
1199	ALLEN VET HOSPITAL
	ALLEN VETRANARY CLINIC
1333	CLASSIC FOODS INC
1357	TECH-COM SERVICES INC
1359	CLASSY THREADS
1363	WILDE ARROW
1385	RUSH AUTO PARTS INC
1395	PAMECO CORPORATION
1445	ERNST HOME CENTER INC
1471	PINCREST DINER
1515	EARRINGS PLUS
	EVERYTHING THAT GROWS
	FALLS HOBBIES
	GOODIES
	JENSEN JEWELERS OF IDAHO INC
	PAY LESS DRUG STORES NORTHWEST
	RETAIL HOLDINGS GROUP INC
	SKAGGS DRUG CENTER 66
	WESTERN STATES OPTICAL INC
	WOLVERINE WORLD WIDE INC
1625	KEY BANK OF IDAHO

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E ELVA ST 1985

BUSINESS MANAGEMENT SERVICE
PROFESSIONAL MANAGEMENT SERVICE
522-7691
841 Oxford, P.O. Box 1842 Idaho Falls, ID 83401

JONES PAINT & GLASS
168 WEST 16th 522-1250

100

21

ELSWOOD DR W —FROM 1 BLOCK SOUTH OF SUNNYSIDE RD SOUTH

ZIP CODE 83401
NUMBERS IRREGULAR
3399 Tighe John 529-4497
3400 Sterling David M © 529-4153
3411 Johnson Jerry E 523-7119
3425 Lawrence Frank 529-5057
3430★Dunlop Paul C © 522-1431
3455 Rolph Orville J 529-4059
3495 Vacant
3502 No Return
3504 Shaeffer George W © 522-3432
3508 Jacobs Todd 523-9124
3509 Bell Diana L
3514 Bean Michel G © 522-4738
3523 Fowler Dan L © 523-6705
3547 Bloxham Joni 524-2352
3556★Yagues Scott
3572★Cole Michl R © 529-8145
3575 Hartog Kenneth W © 524-1733
3600★Hill Brian L 522-2279
3601 No Return
3605★Ramos Tommy D © 524-4516
3607 Vacant
3612★Pruitt Bruce D 524-1056
3611 No Return
3590 Clark C E 524-0472
3593 Wurst C © 529-4083
3540 Seyfert Richard W ©
3604★Rojas Josie © 523-9334
3520 Vacant
3511 Beckman Ted 523-5421
3546 Bruggenkamp David ©
3618 Judd Wilford J 525-8719
3562 Smith Jeffrey G 529-8757
3572 No Return
3606 Prewit Bruce D 524-1056
3620 Burke Mike
3640 Gerber Gregory © 523-7342
3580 Judy Janice M 523-1154
3501 Cravens Gloria 523-2017
3532 Raudsep John A 529-3014
3535 Vacant
3603 Mallard Larry K 523-9177
3500★Robinson Darrin © 529-4254
3435 Quinn W S 523-7097
3570 Crossley Danny K 524-3029

20

ELVA ST E —FROM 888 N BOULEVARD EAST 8 NORTH OF 1ST

ZIP CODE 83401
103★Huntsman Rick L © 529-1895
114 Haslam Florence Mrs © 523-3545
124 Shaw Violet K Mrs © 522-4516
125 No Return
126 Vacant
128★Hunt Samuel W ©
136 Lords Elda J Mrs ©
142 Janning Thora L © 522-3599
152 Morrison Jim R © 529-0217
157 Likes Apartments
1 Passmore Thos L 523-2109
2 No Return
3 Vacant
4 Vacant
160★Lord Dave © 522-5678
163 Alcoholic Rehabilitation Assn Inc 522-6012
163½ Munk J Lloyd © 523-5031
167 Bloxham Ann Mrs © 523-3145
168 Vacant
171 Jacobsen Delford © 523-6469
175 No Return
BSMT★Browning Kathleen
176 Donnelly Janet L 524-4385
178 Sutton James E © 529-2159
197 Mc Kelley Kenneth W © 522-7030
199 Horner Joseph W © 522-8050
N LEE AV INTERSECTS
211 Dixon Randy L ©
225 Plourde David W © 523-1129
237 Cummings Tim F ©
251 Gray Randy L © 529-0427
265★Young Ralph W 522-4653
EMERSON AV INTERSECTS
ZIP CODE 83401
301 Rogers Brothers Seed Co (whse)
308 Smith Chevrolet (reconditioning shop)
335 Quality Tune 523-8863
385 Midas Muffler 524-4111
YELLOWSTONE HIWAY INTERSECTS
N HIGBEE INTERSECTS

22

444 Chaffin Oldsmobile Inc 522-9322
448 Sayer Dick Fine Used Cars 529-6803
475 Shakey's Pizza Parlor 524-4141
HOLMES AV INTERSECTS
FREEMAN AV INTERSECTS
640 Benevolent Protective Order Of Elks Lodge No 1087 522-6371
Benevolent Protective Order Of Does Lodge No 106
Elks Lodge 523-6371
WABASH AV INTERSECTS

24

WABASH ST INTERSECTS
700 Cheryl Ann Condominiums
1 Karg Otto F © 522-6817
2 Maxfield Curtis 522-3558
3 Vacant
4 Wells Chas 529-3692
701 Tim's Pro Shop golf mdse-equip 529-1485
Pinecrest Municipal Golf Course 529-1485
Henricksen Andy 522-3336
710 Miller Apartments
1★Leedy Langdon L 522-4935
2 Bartle Faye B 523-4048
3 Booser John H 522-2720

PROFESSIONAL COLLECTION CORPORATION
529-1680
1810 E. 17th, Suite 350, Exchange Plaza Idaho Falls

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MAY ST 1985

3619★Frickey Doug J 522-5386
3621★Mc Cardell Laurie 522-3607

20

MAY ST —FROM 600 N BOULEVARD EAST

ZIP CODE 83402
100 Fitzgerald Bruce
119 Staley Roy J © 522-6289
127★Daniels James 522-3401
130 Draper Carrie L
134 Harding Orson D © 522-7629
145 Vacant
145½ Vacant
151 Carlson G Grant © 523-3477
154 Watson Addie M Mrs © 522-6847
165 Vacant
ZIP CODE 83420
240 Reliance Metal Works metal fabrication & wldg 523-0823
NORTHGATE MILE INTERSECTS
340 Eddy's Bread baked gds 523-4676
369 Vacant
385 Masons Office Center Inc ofc equip and sup 529-2800
395 Vacant
N HIGBEE INTERSECTS

22

N HIGBEE AV INTERSECTS
401 Archibald-Scott Insurance Agency 522-4999
405 Josephson Insurance Agency Inc 529-6643
410 Jerry's Machine & Parts Inc auto 522-2163
415 Vacant
422 Bolinder Jerry Mrs ©
423 Quality Auto Body 523-2167
430★Creenhalgh Jim H © 529-1936
433 Idaho Valve & Fitting 524-2342
445 Serr Jim Automotive repr 524-2200
457★Stockdale Wm A 529-8486
457½ Vacant
460 A-One Quality Glass 524-0310
461 Northgate Denture Laboratory 522-3144
480★Arrington Howard G 523-2079
482 Pieplow James R 522-6200
484 Magnusson Jack © 523-6654
490 Kearney Anna V © 522-8430
N HOLMES AV INTERSECTS
551 American Insurance Service Inc 529-3541
Argyle Al © 522-3541
555 Beasley M L © 522-7620
577 Mc Gary Jerry Y © 522-8921
591 Grant Elmina Mrs © 522-9386

TRUST DEPARTMENT
E IDAHO FIRST NATIONAL BANK
vin C. Brant - Vice President District Manager
Mark Mitchell - Trust Officer
Tel. 525-1667

VALLEY BANK
FDIC
oadway - 525-6300
2655 East 17th - 525-6300
1625 Northgate Mile - 525-6300

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NORTHGATE MILE 1985

NORTHGATE MILE —FROM INTERSECTION OF 1ST AND BOULEVARD NORTHEAST

ZIP CODE 83401
120 Hy-Way Drug 522-8357
125 Hardy Enterprises gas sta 525-9931
★Owens Laura
155 Hotsy Cleaning System steam clng equip 522-0609
Steam Store Rocky Mountain Inc steam clng equip 522-0609
162 Connolly Distributing Co potato brokers 529-1666
164 Tailoring By Ralph 529-8032
170 Sherwin Williams Co paint store 522-2811
195 Idaho Canvas Products Co mfrs 522-3160
LOMAX ST INTERSECTS
204 Merlin's TV Service Inc 523-5037
210 Merlin's TV Service Inc (Addl Sp) 523-5037
220 Budget Tapes & Records 529-4642
238 Phase Four Stereo & Electronics Inc stereo sls 523-1234
265 Big O Tires 523-5544
298 Phase Four Stereo & Electronics (addl sp)
GARFIELD ST INTERSECTS
301 Post Register The (Addl Sp)
305 Post Register The (Addtl Sp) 522-1800
310 Jewel Electric Inc 522-7963
330 Northgate Appliance 524-2122
Appliance Service Cntr 523-1120
333 Post-Register The 522-1800
335 Rainbow Cafe 525-9854
390 Hi-Way Barber Shop
401 House Of Hardtops used car sls 524-4991
410 Art's Muffler & Brake Center muffler shop 522-3722
430 Stan's Paint Clinic 523-0031
460 North Hi-Way Cafe 522-6212
475 Nibley's Donuts 524-7040
A Touch Of Class beauty shop 529-3192
Tandy Leather Co 524-0040
490 Ellsworth Brothers Inc auto & truck dlr 522-2610
Leasing Service Inc 522-2610
495 State Farm Insurance 529-2518
GARFIELD INTERSECTS
500 Ellsworth Brothers Inc (addl sp) 524-2020
501 Idaho Falls Foundry & Machine Inc 522-7412
535 Auto Body Paint & Supply 523-2558
555 B & G Service Parts Co auto accessories & parts whol 522-1311
555½ V W Bob's Repair 529-5506
560 Scotty's restr 523-6382
565 Creative Business Concepts copier sls & sup 524-5321
Retail Business Systems 522-9544

• Clothing
• Uniforms
• Formal Attire and Rentals
523-2575

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NORTHGATE MILE 1985

THE BOAT SHOP
BOATS • MOTORS • SKEE HORSE • TRAILERS
AUTHORIZED JOHNSON DEALER
2296 Iona Rd., Idaho Falls, ID 83401 Phone 523-6680

NORTHGATE MILE—Contd
593 Tool Liquidator The 523-8665
MAY ST INTERSECTS
600 Mart The hdw lawn & garden 522-5675
620 Farrell's Automotive Trim 522-1331
660 Inland Yacht Sales sailboat sales & services 523-9993
675 A A Auction Sales consignment sls auctions 524-4444
La Casita grocery store
685 Opal House lapidary 524-4062
690 Robison's Inc auto parts & accessories 522-6754
Chainsaw Sales 524-0337
COLLEGE ST INTERSECTS
700 Sayer's Ron Inc (Addtl Sp) 523-7221
701 Livestock Exchange Building 522-7211
State Brand Insp 522-6676
Idaho Livestock Commission Co 523-2288
L C Livestock Co 523-2288
Idaho Livestock Auction 522-7211
Skelton Cattle Co 523-2288
Skelton Floyd Feed Lots 523-2288
Stockyard Cafe 523-2288
760 Sayer's Ron Inc auto dlr 523-0603
WHITTIER ST INTERSECTS
805 Smith Intermountain Truck chev & intnatl truck dealer 524-4300
840 Matador Lounge tavern 525-9976
ELVA ST INTERSECTS
HIGBEE ST INTERSECTS

22

E ELVA ST INTERSECTS
921 Stockman's Bar 525-9603
955 B & B Chevron gas sta 523-5339
1020 Bank Of Commerce 523-2020
1031 Sensuous Sandwich restr 524-7070
1051 R & S Auto Sales used cars 529-9646
1051½ Steve's Radiator Shop 522-8460
1055 Falls Plumbing Supply 524-4640
1060 Firestone Stores tires 522-7050
POULSON INTERSECTS

26

HOLMES AV INTERSECTS
1115 Sinclair gas sta 524-7270
1199 Allen's Animal Clinic 522-5451
1333 Wendy's 522-5322
1353 Van Kampen's Carpet & Furniture Inc 523-1971
1355 Idaho Business Systems-Itex ofc equip 522-3310
1357 Abbey Carpets 529-4353
1363 Paul's Audisee stereos 522-2001
1385 Rush Auto Parts 523-7874
1395 Jo-Ann Fabrics retail 524-2111
1400 Country Club Shopping Center
1405 Safeway Stores Inc No 365 529-1855
1445 Ernst Home Center lbr-retail 524-4030
1455 First Interstate Bank Of Idaho 523-9060
1465 Country Clubs Cleaners 522-7480
1469 Idaho Barber And Beauty Supply 522-9171
1475 Chicken Broaster restr 522-9681
1485 T-Shirt Shop 529-0385
1515 Country Club Shopping Center 523-8760
Foxmoor Casuals ladies apparel 525-9653
Corn Dog Factory The restr 529-1010
Bathtique 524-3115
Garber Shoes 522-5223
House Of Fabrics 523-7672
K-G Men's Store clo 523-8487
K-G Bootery shoes 523-8489
Conrad's Mademoiselle Shops clo 523-8488
Kinney Shoes 529-9051
Orange Julius restr 523-7878
Playtime amusement cntr 524-5690
Osco Drug Center 523-8516
Marianne's Hallmark Card & Gift Shop 523-9111
Aunt Annie's Cookies cookie shop 522-9954
Susan's womens apparel 523-0056
West World western apparel 523-4146
Little Tiffanies jwlyr
Eye Care Northwest eye care 522-6739
Regis Hair Stylists 523-8888
Jensen Jewelers 523-8866
Dalton B Bookseller 522-5203
Rhea's Lowery Center piano & organs sls 524-2110
Lamonts Apparel 524-1621
Kiddie Shop The clo 523-9233
Galloways men's clo 523-7524
Mister E's Sweet Treat Cookery restr 529-9969
Sunshine Voyager Co gift shop 523-3269
Homeco Realty 529-2422
1601 Sears Roebuck And Co dept store 522-0790
Allstate Insurance Co 522-5253
1625 Valley Bank 525-6300
E LINCOLN RD INTERSECTS

30

NORTHRUP ST —FROM 1050 HALSEY ST NORTH

ZIP CODE 83401
545 Starnes Richd L © 523-2455
565★Gillis Karla © 522-5639
575 Sheetz Marvin M © 524-4238
605★Krause Glenn 522-4951
IRVING ST INTERSECTS
625★Moon Vickie L ©
655★Foster Eric 522-5267
675 Johnson Denise A 525-8145
695★Caldwell Eric 524-0268
JOHNSTON ST INTERSECTS
725 Erickson Sue R Mrs © 523-5916
755 Vacant
775 Mc Kenzie Richd L © 522-9473

New and Used Cars FORD New and Used Trucks
BROADWAY FORD INC.
BUS. PHONE 525-8500
980 West Broadway Idaho Falls, Idaho

547 N. Capital Ave., — P.O. Box 367
(208) 522-7895
Idaho Falls, Idaho 83402
IDAHO TITLE & TRUST COMPANY
Escrows • Title Insurance

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E ELVA ST 1980

Century 21

SAYER REALTY

COMMERCIAL - RESIDENTIAL - FARMS - RANCHES

403 FIRST ST. 529-2100

345 1st ST.

SEE OUR MODERN SHOW ROOM

SALES – SERVICE

TEL. 522-6896

85

W ELSWOOD DR—Contd
3618★Elliott Doug
3562★Grebb Darrell
3572★Grover Kevin
3606★Hendrikson Ernest
3620★Holder Sam
3580★Judy Janice
3626★Moore Verla ◎ 522-2639
3501★Poulsen Perry 525-5181
3532★Russell Conie
3603★Stephensen Dennis
3500★Wagner Patsy R 523-9894
3612★Sherry Sherry
3435★Quinn W S 523-7097

20

ELVA ST E —FROM N BOULEVARD EAST 8 NORTH OF 1ST

ZIP CODE 83401
103 Bates Glenda 529-3531
114 Haslam Florence Mrs ◎ 523-3545
124 Shaw James A ◎ 522-4516
126★Bybee Kent
128★Anderson Dennis 524-4523
136 Lords Elda Mrs ◎ 522-5699
142 Janning Thora L ◎ 522-3599
152★Morrison Jim R ◎ 522-8226
157 Likes Apartments
1★Watson Gary 524-3749
2★Dowell Aaron 529-5344
3★Robison Dennis 529-8270
4★Mc Cart John 529-8539
5★Reno Rayford
160 No Return
163 Alcoholic Rehabilitation Assn Inc 522-[illegible]12
163½ Munk J Lloyd ◎ 523-5031
167 Bloxham Ann Mrs ◎ 522-5495
168 Winger Nolan ◎ 522-2406
171 Jacobsen Mary A Mrs ◎ 523-6469
175 Rittenberg Robt B ◎ 529-4518
Bsmt★Mohney Robt
176★Donnelly Robt L ◎ 529-3179
178 Grover Leo T ◎ 524-5537
197 Mc Kelley Kenneth W ◎ 522-7030
199 Horner Joseph W ◎ 522-8050
211 Vacant
237 Henry Richd D ◎ 529-3632
225★Brunson Burdette L ◎ 523-2648
251★Drake Gary L ◎ 529-9139
265★Carson Carroll K ◎
N LEE AV INTERSECTS
301 Rogers Brothers Seed Co whse 524-3830
335 Ermal's Service Center auto repair 524-1970
385 Midas Muffler mufflers 524-4111

22

444 Chaffin Oldsmobile Inc 522-9322
448 Sayer Dick Fine Used Cars 524-5550
475 Shakey's Pizza Parlor 524-4141
640 Benevolent Protective Order Of Elks Lodge No 1087 522-6371
Does Idaho Falls Grove No 106 B P O E
Elks Bowling Alley 523-5958
Elks Lounge 523-6371

24

700 Cheryl Ann Apartments
1 Vacant
2★Maxfield Curt 522-3558
3 Burns W C 523-1767
4★Karg Otto 522-6817
701 Municipal Golf Course 522-5161
Elliott Jack B 522-3336
710 Miller Apts
1 Watson Robt C 523-8624
2★Lilly H S
3 Boozer John H 522-2720
4 Wackerli Robt 522-1180
720 Miller Apts
5 Kidd L W 522-1672
6 Thomas Larry D 524-2616
7★Mc Donald J P
8★Page Dana K
737 Fryslie Perry ◎ 522-8185
750 No Return
754 Vacant
764★Schuetz Stanley ◎ 524-2441
780 Apartments
1★Nukaya Deaun
2★Bessey Dean 522-7410
3 Stewart Lee K 523-2473
4 Crabtree Glen B 522-8976
5 Larsen Grace K Mrs 524-1805
840 Good Samaritan Nursing Center 523-4795
898 Holiday Market gro 524-9910
899 Deming Charles W 523-1225
900 Miller Glen R ◎ 522-3387
901 Campbell Virginia Mrs ◎ 523-2854
902 Deddens Donald R ◎ 523-4399
903 Webster Dorsel R ◎ 523-3336
908 Ward Dean B ◎ 523-5574
909 Marker James D ◎ 522-4124
914★Hart Charles M 524-6382
915 Vaienti Louis N 529-2954
920 Wagner Carl
921 Cook Wm C Jr ◎ 523-5687
926 Goodell Thelma L Mrs ◎ 522-4711
927 Denning Edw J ◎ 523-0728
932★Ferguson Robt D ◎ 524-0932
933 Childester Gene R ◎ 522-5372
938 Christophersen
939 Bott Geo A ◎ 523-6471
944★Kirkbride Randy A ◎ 522-1858
945 Clifford Brandon ◎ 522-5995
950 Dexter Susan F Mrs ◎ 522-2579
951 Lewis John L ◎ 522-7763
956 No Return
957 Vacant
962 Sorrells Briana L Mrs ◎ 524-0952
963 Hill Hazel Mrs 523-0839
968 Vacant
969 Mc Culloch Harry ◎ 523-6287
974 Call Elton D ◎ 522-1602
975 Gardner Ruby Mrs ◎ 522-2046
980 Jeffs Elvira A Mrs ◎ 523-1491
986 Coleman R Wesley ◎ 522-0300
992 Neeley Everett 522-4922
998 Smith Richd A ◎ 524-4440

7

ELVA ST W —FROM BOULEVARD WEST TO RIVER 14 NORTH OF BROADWAY

ZIP CODE 83401
154 Hillam Arnold B dentist 523-5090
196 Katz Pharmacy 522-8081
246 Thueson D L ◎ 523-4593
250 Cole Mike R ◎ 523-6541

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MAY ST 1980

3619 Vacant
3621 Vacant

20

MAY ST —FROM BOULEVARD EAST 5
NORTH OF 1ST

ZIP CODE 83401
100 Kearney Glen © 529-1920
119 Saxton Paul © 522-1849
127 Cutler Robt
130 Draper Clifford L © 523-5693
2 134 Harding Orson D © 522-7629
145 Knudson Jeffrey 529-3668
151 Carlson G Grant © 523-3477
154 Watson Ronald A © 522-6847
165 Shrives Howard A © 523-5458
336 Vacant
340 Sweetheart Thrift Shop (baked gds) 523-4676
355 Brough Jeff L
369 Remotion Co eng development 529-0369
N Wire electronic equip mfrs 524-2776
375 Farmer Brothers Coffee whol 523-8670
385 Mason's Office Center ofc equip and sup
2 529-2800
395 Brady's appl sls & serv 522-6763
Sewing Center & Knit Shop
MAY ST INTERSECTS N HIGBEE

22

N HIGBEE AV INTERSECTS
401 Archibald-Scott Insurance Agency 522-4999
405 Vacant
407 Northgate Denture Laboratory 522-3144
410 Jerrys Machine & Parts Inc 522-2163
415 Walker Margt Mrs
422 Bolinder Peter E © 523-3814
423 Quality Auto Body repr 523-2167
430 Case Lavella O Mrs © 522-1277
433 Bonneville Cleaning Inc bldg mtce 529-4644
445 Serr Jim Automotive repr 524-2200
457 Skitt Donald A © 522-8923
460 A-1 Quality Glass Inc 524-0310
461 Holiday Self Service Laundry 522-9812
480 No Return
482 Pugmire S Keith © 524-4617
484 Magnusson Jack © 523-6654
490 Kearney Anna V © 522-8430
N HOLMES AV INTERSECTS
547★Argyle Al © 522-3541
555 Beasley Melvin L © 522-7620
577 Mc Gary Jerry © 522-8921
591 Grant Elmina Mrs © 522-9386
FREEMAN AV INTERSECTS
615 Beins John A © 522-9162
624 Bartlett Doris L ©
625 Rapp John R © 529-3625
2★Cox Steven
3★Maylon Jan
628 Rasmussen Richd R 529-9442
630 No Return
650 Rapp Sophia E Mrs ©
653 Nelson Raymond © 523-1216
655 Phillips Wm E © 523-4731
1 Vacant
668 Campbell James © 523-2925
680 Wee Kare Day Care Center 524-3392
690 Glick J L © 522-0070

Target Street	Cross Street	Source
✓	-	Polk's City Directory

NORTHGATE MILE 1980

TRACY REAL ESTATE
524-3500 REALTOR®
560 LEGION DRIVE
MLS


CABLE TV
UPPER VALLEY TELECABLE CO.
SATELLITE TV, ATLANTA, CBN
LOCAL & UTAH CHANNELS - MUSIC & WEATHER
240 1st, Idaho Falls Day Or Nite 523-4567
HBO IS SOMETHING ELSE

140

NIXON ST—Contd
1071 Carr Arth C ◎ 523-0494
1081 James Bill P ◎ 523-3661
1088★Hinsley Gene E ◎ 524-5376
1110 Vacant
1130 Reno Steve
1131 Tate Geo ◎ 523-3948
1133 Packer Raymond C ◎ 523-0541

18

1220 Harris James M 523-8848
1221 Klingler David E ◎ 522-4796
1265★Nave Ryan ◎ 523-9375
1285 Lowe Dean R ◎ 523-6055
1305 Sparks Frank L ◎ 523-1327
1319★Hansen Ken C 522-5605
1321 Vacant
1324★Schofield Michl L 529-4120
1342 Holdren L Vion Mrs ◎ 522-5852
1349 Vacant
1352 Swanson Dale E ◎ 522-0047
1360★Moser Steven C ◎ 529-0523
1363 Jensen Dennis W ◎ 524-7338
1384 Brown Sharell ◎ 529-4279
1387 Phippen Michl G ◎ 523-7132
1398 Gwaltney Robt
1399 No Return

32

NORTHGATE DR —FROM 890 LAKEWOOD DR NORTHWEST

ZIP CODE 83401
920★Peeler G B
925★Winder Eldon
935★Rios Armando

20

NORTHGATE MILE —FROM INTERSECTION OF 1ST AND BOULEVARD NORTHEAST

ZIP CODE 83401
120 Hy-Way Drug 522-8357
125 Blue Bell Gasoline Co 522-9931
Anderson James D
155 Steam Store Rocky Mountain Inc 522-0609
Mc Cord Lynn E steam clng equip 522-0609
164 Rocky Mountain Music 523-8863
170 Sherwin Williams Co paint 522-2811
195 Idaho Canvas Products Co mfrs 522-3160
NORTHGATE MILE INTERSECTS LOMAX
204 Merlin's TV Service Inc 523-5037
210 American Finance Corp 523-0012
220 Paramount Drapery Cleaners 522-6115
230 Steve's Radiator Shop 522-8460
238 Phase 4 Stereo & Electronics Inc 523-1234
265 Big O Tires 523-5544
GARFIELD ST INTERSECTS
301 Vacant
305 Northgate Sports ski tennis golf equip 522-6909
310 Jewel Electric Inc 522-7963
330 Northgate Appliance 524-2122
333 Post-Register The 522-1800
335 Rainbow Cafe 522-9854
390 Hi-Way Barber Shop
401 House Of Hardtops used car sls
410 Jerry's Northgate Safety Center gas sta 523-1002
430 Stan's Paint Clinic 523-0031
460 North Hi-Way Cafe 522-6212
475 Nibley's Donuts 524-7040
A Touch Of Class 529-3192
Barbeque Pit restr 523-7288
490 Ellsworth Brothers Inc auto & truck dlr 522-2610
Leasing Service Inc 522-2610
495 Idaho Falls Foundry & Machine 522-7412
500 Ellsworth Brothers Inc used cars 524-2020
501 Idaho Falls Foundry & Machine Inc 522-7412
535 Auto Body Warehouse & Supply
555 B & G Service Parts Co auto accessories & parts whol 522-1311
555½ Dan's Auto Repair 522-4876
560 Scotty's restr 523-6382
565 Budget Tapes & Records 529-4642
575 State Farm Insurance Co 523-2518
593 Cantina El Toreo tavern 524-9954
600 Mart The hdw 522-5675
620 Farrell's Automotive Trim 522-1331
660 Inland Yacht Sales sailboat sales & services 523-9993
675 Frame Shoppe And Sunshine Gallery Ltd The 523-0222
Burning Issue The 529-9515
685 Opal House rock shop 524-4062
690 Robison's Inc snowmobiles 522-6757
Robison's Parts & Service Co auto parts 522-6754
700 Sayer Ron Inc used cars 523-7221
701 Livestock Exchange Building 522-7211
State Brand Insp 522-6676
Idaho Livestock Commission Co 523-2288
L C Livestock Co 523-2288
Idaho Livestock Auction 522-7211
Skelton Cattle Co 523-2288
Skelton Floyd Feed Lots 523-2288
MAY ST INTERSECTS
COLLEGE ST INTERSECTS
760 Sayer Bros Inc auto dlr 523-0603
WHITTIER ST INTERSECTS
805 Smith Chevrolet heavy duty truck center 522-1761
840 Matador Lounge 522-9976

22

E ELVA ST INTERSECTS
921 Vacant
955 Vacant
1020 Bank Of Commerce 523-2020
1031 Sensrous Sandwich restr 524-7070
1051 Vacant
1051½ Bill's Car Clean-Up 523-9119
1055 Falls Plumbing Supply Co 524-4640
Falls Plumbing & Supply Co 524-4640
1060 Firestone Stores tires 522-7050

26

1115 Yellowstone Sinclair 524-7270
1199 Allen's Animal Clinic 522-5451
1353 Van Kampen's Inc furniture 523-1971
1355 Itex Of Idaho Falls ofc equip 522-3310
1357 Abbey Carpets 522-4353
1363 Paul's Audisee stereos 522-2001
1385 Orient West restr

Target Street	Cross Street	Source
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NORTHGATE MILE 1980



M. L. PHIP

PERFECTI

Letterpress - Offset - C

458½ 2d ST., IDAHO FALLS

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NORTHGATE MILE—Contd

1395 Discount Fabrics Inc retail fabric store 524-2111
1400 Country Club Shopping Center
1405 Safeway Stores Inc No 365 gros 522-1855
1445 Ernst Home Center 524-4030
1455 Bank Of Idaho 523-9060
1465 One Hour Martinizing 522-7480
1469 City Corp Person To Person Financial Center 523-2222
1475 Chicken Broaster restr 522-9681
1485 T Shirts Plus ladies apparel 529-0385
1515 Foxmoor Casuals ladies apparel 524-9953
The Corn Dog Factory
Bathtique 524-3290
Garber Shoes 522-5223
House Of Fabrics dry goods 523-7672
Jay Vee women clothing sls 523-8281
K-G Men's Store 523-8487
K-G Bootery shoes 523-8489
Miss K-G's clo 523-8488
Kinney Shoes 522-9791
Orange Julius restr 523-7878
Playtime amusement cntr 524-5690
Skaggs Drug Center 523-8516
Marianne's Hallmark Card & Gift Shop 523-9111
Cindy's womens clo 523-2831
Regis Beauty Salon 523-8888
Jensen Jewelers 523-8866
Dalton B Book Seller 522-5203
Vacant
Zales Jewelers 524-3460
Brass Ear The record shop 523-8323
Lamont's Department Store 524-1621
Kiddie Shop The 523-9233
Vacant
Competition The apparel 529-4381
Kinderfoto photographers 523-9870
1601 Sears Roebuck And Co 522-0790
Allstate Insurance Co 522-5253
1625 Valley Bank 524-2000

30

NORTHRUP AV —FROM 1000 BLK ON KEARNEY AV SOUTH

ZIP CODE 83401
545 Starnes Richd L © 523-2455

Target Street	Cross Street	Source
-	✓	Polk's City Directory

E ELVA ST 1975

First Federal Savings & Loan Association of Idaho Falls
A Home Institution Chartered By The U.S. Government
INSURED SAVINGS – HOME LOANS
500 N. Capital Ave. Tel. 522-4251

ELMORE AV—Contd
1521 Vacant
1553★Martinez Ruben
1560 No Return
1563 Vacant
1573 Abernathy Geo
1582 Vacant
1583 Gruver Ethel M © 522-0001

20

ELVA ST E —FROM N BOULEVARD EAST 8 NORTH OF 1ST

ZIP CODE 83401
103 Bates La Var D 523-4349
114 Haslam Florence Mrs © 523-3545
124 Shaw James A © 522-4516
128 Nash Dan 523-7418
136★Lords Dennis W 522-7747
142 Janning Edw G © 522-3599
152★Illum Douglas B © 522-0459
157 Likes Apartments
1 Young Bernice 523-2425
2★Bingham Robt S 524-2983
3★Cook Steve
4★Crown Dennis
160★Cnisse Wm O © 524-3510
163 Alcoholic Rehabilitation Assn Inc 522-9869
165★Johnson Donna ©
165½ Vacant
Rear Torres Margt Mrs
167 Bloxham Ann Mrs © 522-5495
168★Whitehead Kent ©
171 Jacobsen Mary A Mrs © 523-6469
175 No Return
Bamt Vacant
176★Ensminger Michl D 524-2956
178★Kimbro Mike 524-2890
197 Mc Kelley Kenneth W © 522-7030
199 Horner Joseph W © 523-2079
N LEE AV INTERSECTS
301 Rogers Brothers Co whse 522-0110
335 Ermal's Service Center auto repair 524-1970
385 Kitchen Korner kitchen cabt formica & remdlg 522-9608
B & D Welding

22

444 Chaffin Oldsmobile Inc 522-9322
445 Under Constn
448 Sayer Bros auto dealers 522-2145
640 Benevolent Protective Order Of Elks Lodge No 1087 522-6371
Does Idaho Falls Grove No 106 B P O E
Elks Bowling Alley 323-5958
Elks Lounge 523-6371

24

700 Cheryl Ann Apartments
1 Miller Kathrynn Mrs © 523-5051
2 Owsley Merrett M 522-7381
3★Beasley Deloy J 522-3125
4 Call Zenna Mrs 522-8634
701 Municipal Golf Course 522-5161
Deming Charles W 523-1225
Simonson Gerald 522-5161
710 Miller Apts
1 Watson Robt C 523-8624
2 Eckels Thos W 522-5490
3★Boozer J H 522-2720
4 Vacant
720 Miller Apts
5 Hadlock Heber 524-1428
6 Kidd L W 522-1672
7 Sundberg Mary Mrs 523-0880
8 Lueckert S D 523-1020
9★Grove B
737 Fryslie Perry © 522-8185
750★Mc Cowin Cliff R
754 No Return
764 Jewell Roy L © 523-4541
780 Apartments
1 Anderson Lorin
2 Taylor Victor N 522-7410
3 Stewart Lee K 523-2473
4 Crabtree Glen B © 522-8976
5 Larsen Grace K Mrs 524-1805
840 Good Samaritan Nursing Center 523-4795
898 Holiday Market 523-5719
900 Miller Glen R © 522-3387
902 Deddens Donald R © 523-4399
903 Webster Dorsel R © 523-3336
908 Ward Dean B © 523-5574
909 Marker James D © 522-4124
914 Anderson Janie Mrs © 524-2985
915★Head Geo A
920 Waggoner Carl M © 523-5009
921 Cook Wm C Jr © 523-5687
926 Goodell Harold E © 522-4711
927 Denning Edw J © 523-0728
932★Barker Jack © 524-0833
933 Chidester Gene ©
938 Conyers Dale J © 524-2223
939 Bott Geo A © 523-6471
944 No Return
945 Clifford Brandon © 522-5995
950★Roos Aug R © 522-9241
951 Lewis John L © 522-7763
956★Denno Michl 522-4528
957★Woolfe Lloyd
962 Johnsen Michl N 522-3419
963 Hill Hazel Mrs 523-0839
968★Mc Gill Dave 523-7989
969 Mc Culloch Harry © 523-6287
974 Call Elton D © 522-1602
975 Gardner Raymond © 522-2046
980 Jeffs Elvira A Mrs © 523-1491
986 Coleman R Wesley © 522-0300
992 Neeley Everett © 525-5326
998★Stanley Larry G © 524-2335

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ELVA ST W —FROM BOULEVARD WEST TO RIVER 14 NORTH OF BROADWAY

ZIP CODE 83401
154 Hillam Arnold B dentist 523-5090
196 Katz Pharmacy 522-8081
246 Thueson D L © 523-9488
250 Cole Mike R © 523-6541
296 Vacant
540 Highland Park
Idaho Falls Baseball Club Inc 522-3001
California Angels Farm Team baseball club
568 Art Guild 523-7741
602 Morgan Eldon C © 523-1525
645★Johnson Frances
680★Williams Leo A © 522-1583

IDAHO TITLE & TRUST CO.
TITLE INSURANCE – ESCROWS
(See Index To Advertisers)
547 N. CAPITAL AVE.
TEL. 522-7895

Target Street	Cross Street	Source
-	✓	Polk's City Directory

1860 Brainard Wm S ◎ 522-1795
1870★Singlyn Paul ◎ 522-2977
1880★Cowger W J ◎ 524-0740
1890 Under Constn
1900 Under Constn
1905 Under Constn
1910 Under Constn

20

MAY ST —FROM BOULEVARD EAST 5 NORTH OF 1ST

ZIP CODE 83401

100★Anderson Marjorie ◎ 523-6462
119 Ashment Norris ◎ 523-4306
127★Cutler Robt B ◎
130 Draper Clifford L ◎ 523-5693
134 Harding Orson D ◎ 522-7629
145 No Return
151 Carlson G Grant ◎ 523-3477
154 Watson Ronald A ◎ 522-6847
165 Shrives Howard A ◎ 523-5458
330 Vacant
336 Wholesale West fl covering 523-8860
340 Eddie's Thrift Shop 523-4676
355★Fowler Gary A 522-8836
369 United Appliance retail appl sls 523-2895
375 Farmer Bros Coffee whol 523-8670

Target Street	Cross Street	Source
-	✓	Polk's City Directory

MAY ST 1975

First Federal S
Association o
A Home Institution Chartere
INSURED SAVING
500 N. Capital Ave.

9

MAY ST—Contd

385 Jerry's Automotive Machine mach shop 522-2163
391 Vacant
395 Brady's appl sls & serv 522-6763
Sewing Center & Knit Shop

22

N HIGBEE AV INTERSECTS

401 Dehnert Insurance Co 522-2253
405 Flora Bruce acct 522-0072
407 Northgate Denture Laboratory 522-3144
415 Vacant
422 Bolinder Peter E © 523-3814
423 Quality Auto Body repr 523-2167
430 Case Lavella O Mrs © 522-1277
433 Bonneville Cleaning Co Inc bldg mtce 523-4644
445 Serr Jim Automotive repr 524-2200
457★Sargis Eno J © 524-2858
460 A-1 Quality Glass Inc 524-0310
461 Holiday Self Service Laundry 522-9812
480 Metcalf Agnes S Mrs © 523-1402
482 Vacant
484 Magnusson Jack D © 523-6654
490 Kerney Glen S © 522-8430

N HOLMES AV INTERSECTS

547 Hathaway Leslie D 523-0332
555 Beasley Melvin L © 522-7620
577★Mc Gary Jerry 522-8921
591 Grant Robt L © 522-9386

FREEMAN AV INTERSECTS

615 Beins John A © 522-9162
624 Olney Phil G 522-4346
625 Rapp John R © 522-9334
630★Keller Lawrence G 524-3758
650 Rapp Sophia E Mrs ©
653 Nelson Raymond © 523-1216
655 Phillips Wm E © 523-4731
668 Campbell James © 523-2925
680 Jehovah's Witnesses Kingdom Hall
690★Glick J L © 522-0070

WABASH AV INTERSECTS

713 Mori Lloyd © 523-2298
714 No Return
722 Yost Max W © 523-2804
723 Tolli Marjorie S Mrs © 524-1841
733 Wilson Val R © 523-8275
734 Webb Edw L © 523-9363
743★Kobayashi Wayne © 524-0254
744 Rasmussen Gary S © 523-6327

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MC KINZIE AV —FROM END OF RICKS SOUTH TO E 21ST

Target Street	Cross Street	Source
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NORTHGATE MILE 1975

PREFERRED RISK
INSURANCE COMPANIES
383 1st ST. TEL. 524-0229

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NIXON ST—Contd
1360★Nizzi Dennis ◎ 523-4879
1363 Harris Gary D ◎ 522-7594
1384 Brown Sharell ◎ 522-4279
1387★Phippen Michl G ◎ 523-7132
1398 Lambert Robt O ◎ 522-7273
1399 Locke Robt E ◎ 524-1943

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NORTHGATE DR —FROM 890 LAKEWOOD DR NORTHWEST

ZIP CODE 83401
920 Sucher Donald ◎ 522-1618
925 Landon Darrell D ◎ 522-2666
935 Horsch Glen W ◎ 522-7276

20

NORTHGATE MILE —FROM INTERSECTION OF 1ST AND BOULEVARD NORTHEAST

ZIP CODE 83401
120 Hy-Way Drug 522-8357
125 By-Rite Gasoline Co 522-9841
★Collet Dave
155 Vacant
160 Vacant
164 Vacant
170 Sherwin Williams Co paint 522-2811
195 Idaho Canvas Products Co 522-3160
204 Phase Four Stereo & Electronics 523-1234
210 American Finance Corp 523-0012
220 Paramount Drapery Cleaners 522-6196
230 Steve's Radiator Shop 522-8460
238 Blair-Dean Inc truckers 522-2454
265 Big O Tires 523-5544
298 One-Ninety-One Club tavern
GARFIELD ST INTERSECTS
301 Pioneer Investment Co 522-7871
302 Romrell's Food Stores gro 523-8976
305 Northgate Cyclery & Sports bicycles & sports equip 522-6909
330 Bingham & Sons household appl 522-5662
333 Post-Register The 522-1800
335 Rainbow Cafe 522-9854
336 Family Storage Basket stge & dehydrated foods 522-1605
390 Hi-Way Barber Shop
401 Summers Exxon 523-9800
410 Jerry's Northgate Safety Center 523-1002
430 Carpetowne carpet drapes & uphol ret 522-4053
460 North Hi-Way Cafe 522-6212
475 Colonial Motel 522-5387
490 Ellsworth Bros Inc auto & truck dlr 522-2610
Leasing Service Inc 522-2610
495 Steve's Income Tax Service 524-3381
State Farm Insurance Co 523-2518
500 Ellsworth Bros Inc used cars 522-2610
501 Idaho Falls Foundry & Machine Inc 522-7412
535 Idaho Falls Bedding Co 522-7363
Universal Furniture & Upholstery 522-6464
555 B & G Service Parts Co 522-1311
555½ Dan's Volkswagen Repair 522-4876
Hoffman's Salvage 522-4876
560 Scotty's restr 523-6382
567 Appliance Service Center 523-1120
585 Vacant
593 Hal's Half Acre tavern 522-9937
600 Mart The hdw 522-5675
620 Farrell's Automotive Trim 522-1331
660 Inland Yacht Sales sailboat sales & services 523-9993
Snake River Dental Laboratory Inc 522-7549
675 U-Do-It Carpets carpets retail
685 Opal House rock and craft shop 524-4062
690 Robison Distributing Inc 522-6757
Robison's Parts & Service Co auto parts 522-6754
700 Vacant
701 Livestock Exchange Building 522-7211
State Brand Insp 522-6676
G & S Investment Co 523-2288
Idaho Livestock Commission Co 523-2288
L C Livestock Co 523-2288
Idaho Livestock Auction 522-7211
Skelton Cattle Co 523-2288
Skelton Floyd Feed Lots 523-2288
Skelton Ranch live stock dlrs 523-2288
Skelton & Studdert livestock comnr
Stockyard Cafe
MAY ST INTERSECTS
COLLEGE ST INTERSECTS
740 Vacant
760 Sayer Brothers Inc auto dlr 523-0603
Thrifty Rent-A-Car 522-9500
WHITTIER ST INTERSECTS
805 Smith Chevrolet used car lot 522-1761

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820 Dolly's Antique & Trading Post 524-2277
840 Matador Lounge 522-9976
E ELVA ST INTERSECTS
921 Stockman's Bar 523-7668
955 Falls Cab Co 522-5011
Yellow Cab Co 522-5011
Hendrickson & Son Chevron Service gas sta
A A A Emergency Service 523-0459
1020 Bank Of Commerce 523-2020
1031 Dixie's Bar 522-9706
1051 White Glove Auto used cars 523-2254
1051½ Bill's Car Clean-Up 523-9119
1052 Humphrey Al Chevron Service 522-9865
1055 Swap N' Shop
Electronic Service Laboratory electronic service and repair 522-9961
1060 Firestone Stores tires 522-7050
1070 Valley Glass Co 522-6550

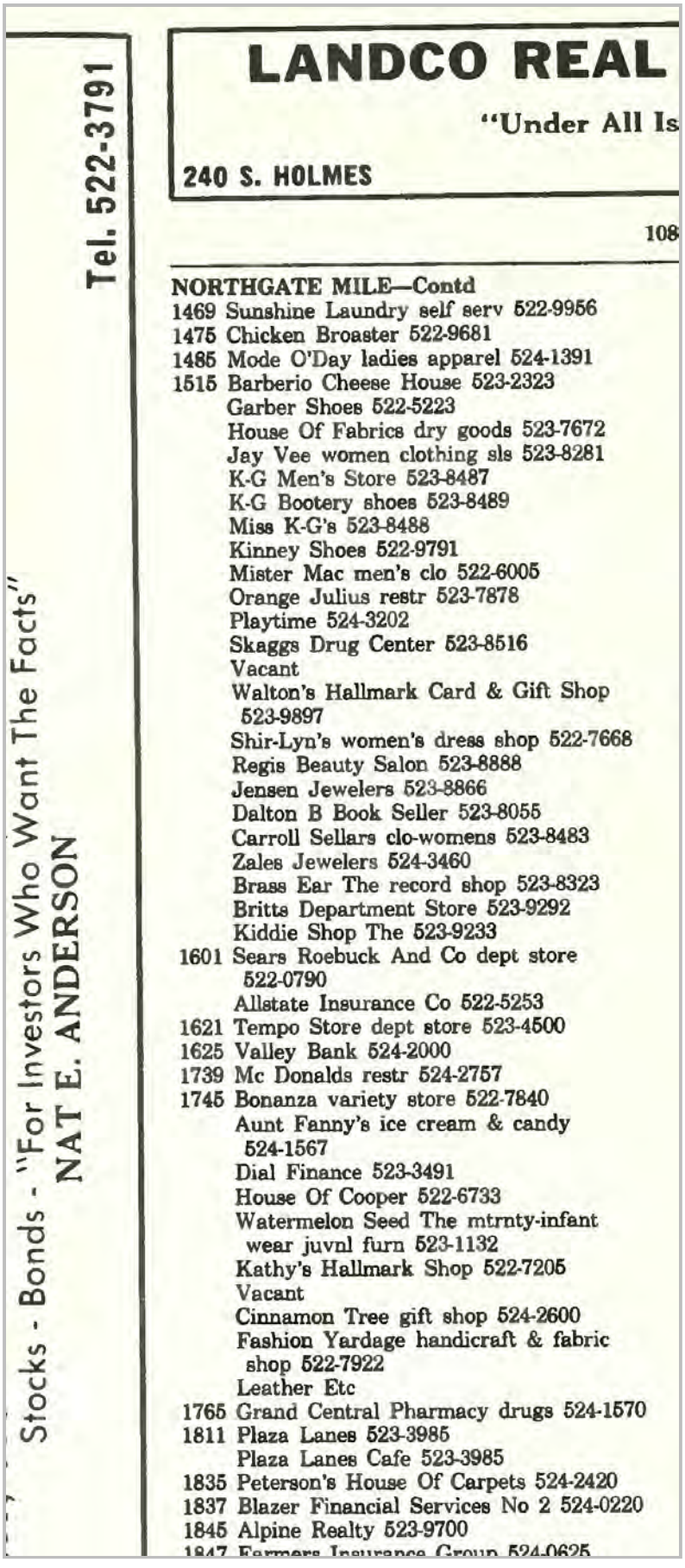
26

1095 Lyle's Texaco 522-9843
1115 Steve's Sinclair 524-1122
1199 Allen's Animal Clinic 522-5451
1353 Van Kampen's Inc furniture 523-1971
1355 Itex Of Idaho Falls ofc equip 522-3310
1357 Meyers Floor Covering 522-4353
1363 Lafayette Radio & Electronics 523-3579
1385 Vacant
1395 Discount Fabrics Inc retail fabric store 524-2111
1400 Country Club Shopping Center
1405 Safeway Stores Inc No 365 gros 522-1855
1455 Bank Of Idaho
1465 One Hour Martinizing 522-7480

IDAHO TITLE & TRUST CO.
TITLE INSURANCE – ESCROWS
(See Index To Advertisers)
547 N. CAPITAL AVE. TEL. 522-7895

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NORTHGATE MILE 1975



LANDCO REAL

"Under All Is

240 S. HOLMES

Tel. 522-3791

Stocks - Bonds - "For Investors Who Want The Facts"
NAT E. ANDERSON

NORTHGATE MILE—Contd

1469 Sunshine Laundry self serv 522-9956
1475 Chicken Broaster 522-9681
1485 Mode O'Day ladies apparel 524-1391
1515 Barberio Cheese House 523-2323
Garber Shoes 522-5223
House Of Fabrics dry goods 523-7672
Jay Vee women clothing sls 523-8281
K-G Men's Store 523-8487
K-G Bootery shoes 523-8489
Miss K-G's 523-8488
Kinney Shoes 522-9791
Mister Mac men's clo 522-6005
Orange Julius restr 523-7878
Playtime 524-3202
Skaggs Drug Center 523-8516
Vacant
Walton's Hallmark Card & Gift Shop 523-9897
Shir-Lyn's women's dress shop 522-7668
Regis Beauty Salon 523-8888
Jensen Jewelers 523-8866
Dalton B Book Seller 523-8055
Carroll Sellars clo-womens 523-8483
Zales Jewelers 524-3460
Brass Ear The record shop 523-8323
Britts Department Store 523-9292
Kiddie Shop The 523-9233
1601 Sears Roebuck And Co dept store 522-0790
Allstate Insurance Co 522-5253
1621 Tempo Store dept store 523-4500
1625 Valley Bank 524-2000
1739 Mc Donalds restr 524-2757
1745 Bonanza variety store 522-7840
Aunt Fanny's ice cream & candy 524-1567
Dial Finance 523-3491
House Of Cooper 522-6733
Watermelon Seed The mtrnty-infant wear juvnl furn 523-1132
Kathy's Hallmark Shop 522-7205
Vacant
Cinnamon Tree gift shop 524-2600
Fashion Yardage handicraft & fabric shop 522-7922
Leather Etc
1765 Grand Central Pharmacy drugs 524-1570
1811 Plaza Lanes 523-3985
Plaza Lanes Cafe 523-3985
1835 Peterson's House Of Carpets 524-2420
1837 Blazer Financial Services No 2 524-0220
1845 Alpine Realty 523-9700
1847 Farmers Insurance Group 524-0625

Target Street	Cross Street	Source
-	✓	Polk's City Directory

1565 Pierce Thos
1573 Abernathy Geo
1582 Potter Maxey ◎
1583 Vacant

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3 **ELVA ST E —FROM N BOULEVARD EAST TO CITY LIMITS, 8 NORTH OF 1ST**

ZIP CODE 83401
103 Vacant
114 Haslam Florence Mrs ◎ 523-3545
124 Shaw James A ◎ 522-4516
128 Clark Earl 523-4190
136 Vacant
142 Jannings Ed ◎ 522-3599
152 Clabo Kenneth carp contr ◎ 522-3543
157 Forsyth Apartments
1 Young Oral
2 Vacant
3 Henrie Everett
4 Vacant
163 Havens Wm H 523-0259
163½ Smith Bob
Monk J Lloyd ◎ 523-5031
165 No Return
Rear Vacant
165½ Vacant
7 167 Bloxham Charles J ◎ 522-5495
168 Hansen Nephi
171 Jacobsen Mary A Mrs ◎ 523-6469
175 Hiatt Jesse E ◎ 522-8196
Bsmt Boulter Ruddy
176 Sermon Frank 522-9661
178 Montgomery Margt Mrs
197 Mc Kelley Kenneth W ◎ 522-7030
199 Horner Joseph ◎ 523-2079
N LEE AV INTERSECTS
301 Rogers Brothers Co whse 522-0110

Target Street	Cross Street	Source
-	✓	Polk's City Directory

E ELVA ST 1970

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E ELVA ST—Contd
335 Vacant
385 Whirlwind Car Wash & Service Station
gas sta 523-1111

22

444 Lundahl Ray E Co used cars 522-9322
448 Pond's Fine Automobiles Inc 522-3411
640 Benevolent Protective Order Of Elks
Lodge No 1087 522-6371
Does Idaho Falls Grove No 106 B P O E
Elks Bowling Alley 523-9598
Elks Lounge 523-6371

24

700 Cheryl Ann Apartments
1 Miller Charles R ◎ 523-5051
2 Owsley Merrett M 522-7381
3 Kirk Jesse L 523-5530
4 Coyle L E
701 Municipal Golf Course 522-5161
Deming Charles W 523-1225
Simonson Gerald 522-5161
710 Under Constn
720 Under Constn
737 Fryslie Perry ◎ 522-8185
750 Beck Cheryl Mrs 523-9431
754 Phippen W Monroe ◎ 523-3053
764 Jewell Roy L ◎ 523-4541
840 Good Samaritan Nursing Center 523-4795
898 Holiday Market gros 523-5719
900 Miller Glen R ◎
902 Deddens Donald R ◎ 523-4399
903 Webster Dorsel R ◎ 523-3336
908 Ward Dean B ◎ 523-5574
909 Marker James D ◎ 522-4124
914 Briggs Ernest J ◎ 523-3714
915 Conyers Dale J ◎
920 Waggoner Carl M ◎ 523-5009
921 Cook Wm C Jr ◎ 523-5687
926 Goodell Harold E ◎ 522-4711
927 Denning Edw J ◎ 523-0728
932 Aerts Mona Mrs ◎ 523-0977
933 Chidester Gene ◎
938 Pisca Raymond J 522-9304
939 Bott Geo A ◎ 523-6471
944 Vacant
945 Clifford Brandon ◎ 522-5995
950 Moore Don L ◎ 523-6981
951 Lewis John L ◎ 522-7763
956 No Return
957 Freeman Richd 523-9962
962 Vacant
963 Hill Hazel Mrs 523-0839
968 Ballard Robt ◎ 523-7915
969 Mc Culloch Harry ◎ 523-6287
974 Call Elton D ◎ 522-1602
975 Siepker David ◎ 522-9682
980 Jeffs Elvira A Mrs ◎ 523-1491
986 Coleman R Wesley ◎ 522-0323
992 Everett Neeley ◎
998 Corsi Clyde E ◎ 523-1247

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ELVA ST W —FROM BOULEVARD WEST

Target Street	Cross Street	Source
-	✓	Polk's City Directory

MAY ST 1970

ZIP CODE 83401
1050 Vacant
1860 Brainard Wm S © 522-7795
1870 Vacant

20

MAY ST —FROM BOULEVARD EAST TO CITY LIMITS, 5 NORTH OF 1ST

ZIP CODE 83401
100 No Return
119 Vacant
127 Sitton Willard W © 523-2154
130 Draper Clifford ©
134 Harding Orson D © 522-7629
145 Hendrickson Alma Mrs © 523-0714
151 Carlson Grant G © 523-3477
154 Watson Ronald A © 522-6985
165 Shrives Howard A © 523-5458
330 Fifty Cents Robo Car Wash Of Idaho Falls self serv 522-9770
340 Eddy's Thrift Store bakery 523-4678
361 Mitchell Joanne Mrs 522-5241
369 Hooper Norman V 523-2833
381 Electrical Enterprises (Stge)
385 Vacant
391 Electrical Enterprises elec repr 523-4932
395 Mister Ted's Furniture & Appliance 523-5661

22

N HIGBEE AV INTERSECTS
401 Dehnert Insurance Co 522-2253
Sayer Realty 522-0704
405 Flora Bruce acct 522-0072
State Public Utilities 523-0125
State Motor Carrier Division 523-2577
407 Northgate Denture Laboratory 522-3144
415 Cunningham Fred © 522-4493
422 Bolinder Peter E © 523-3814
423 Jerrold Electric 522-6977
430 Case Lavella O Mrs © 522-1277
433 Bonneville Cleaning Co bldg mtce 523-4644
457 Herron David Rev 523-5753
460 Brandon's Repair auto 523-3584
461 Holiday Self Service Laundry 522-9812
480 Metcalf Agnes S Mrs © 523-1402
482 Palmer Francis C © 523-4831
484 Magnusson Jack D © 523-6654
490 Kearney Glen S © 522-8430
N HOLMES AV INTERSECTS
547 Rigoulot Harry ©
555 Beasley Melvin L © 522-7620
577 Sparr Emma A Mrs © 522-4339
591 Grant Robt L © 522-9386
615 Beins John A © 522-9162
624 Vacant
625 Rapp John R © 522-9334
630 Nichols Laraine 522-2323
650 Rapp Sophia E Mrs © 523-8024
653 Dona's Beauty Shop 523-1216
Nelson Raymond © 523-1216
655 Phillips Wm E © 523-4731
668 Vacant
680 Jehovah's Witnesses Kingdom Hall
690 Hawkins Harry J © 523-5045
WABASH AV INTERSECTS
713 Mori Lloyd © 523-2298
723 Tolli Fred J © 522-4764
714 Bodily Dallas O © 523-4561
722 Powers Lloyd © 522-5168
723 Tolli Marjorie S Mrs 522-4764
733 Winkel Bob V 522-8662
734 Boyar John A © 523-6086
743 Kinzer Richd © 523-6691
744 Rasmussen Gary A © 523-6573

Target Street	Cross Street	Source
✓	-	Polk's City Directory

NORTHGATE MILE 1970

24

NORTHGATE DR —FROM 890 LAKEWOOD DR NORTHWEST

ZIP CODE 83401
920 Stone Clyde ◎
925 Clontz S T
935 Horsch Glen

20

NORTHGATE MILE —FROM INTERSECTION OF 1ST AND BOULEVARD NORTHEAST

9 ZIP CODE 83401
120 Hy-Way Drug 522-8357
125 Blue Bell Gasoline Co gas sta 522-5531
Malmberg Jesse L 522-5531
155 Brevco Wholesale Inc farm implement dlrs 522-3471
160 Kandy's Beauty Salon 523-5086
9 170 Hill's Doris Carpet Shop 522-7201
Hill Chemical Co 522-7201
Lube-Tube Inc motor oil additive 522-7201
195 Idaho Canvas Products Co 522-3160
201 Sav-Mor Station gas sta 522-9738
204 Northgate Cyclery 522-6909
210 American Finance Corp 523-0012
220 Paramount Drapery Cleaners 522-6196
230 Steve's Radiator Shop 522-8460
8 238 Blair-Dean Inc truckers 522-2454
Dean's Oil Co gas sta 523-7135
298 One-Ninety-One Club tavern
GARFIELD ST INTERSECTS
301 Pioneer Investment Co 522-7871
302 Northgate Saving Center Inc gros 523-8976
305 Universal C I T Credit Corp finance 522-8512
330 Bingham & Sons household appl 522-5662
332 Hi-Way Barber Shop
6 333 Post-Register The 522-1800
335 Rainbow Cafe 522-9854
336 Northgate Upholstery 522-5055
401 Summers Enco gas sta 522-9753
410 Vic's 66 Service-Northgate 523-1002
460 North Hi-Way Cafe 522-6212

Target Street	Cross Street	Source
✓	-	Polk's City Directory

NORTHGATE MILE 1970

NORTHGATE MILE—Contd

475 Colonial Motel 522-7966
Bird Theola Mrs © 522-7966
490 Ellsworth Bros Inc auto & truck dlr 522-2610
Leasing Service Inc 522-2610
495 Vacant
500 Ellsworth Bros Inc used cars 522-2610
501 Idaho Falls Foundry & Machine Inc 522-7412
535 Idaho Falls Bedding Co 522-7363
555 B & G Service Parts Co 522-1311
555½ Jerry's Automotive Machine mach shop 522-2163
559 Vacant
560 Scotty's restr 523-6382
565 Vacant
573 Fox Trac Sales & Service snowmobiles 522-9774
575 Vacant
585 Vacant
593 Shamrock The tavern 522-9977
600 Mart The hdw 522-5675
620 Farrell's Automtoive Trim 522-1331
630 Vacant
675 C A L Ranch & Farm Supply 523-3359
690 Robison's Parts & Service Co auto parts 522-6754
700 Alvey's Husky Service gas sta 523-8978
701 Livestock Exchange Building
U S Animal Health & Quarantine Div 522-1192
State Brand Insp 522-6676
G & S Investment Co 523-2288
Idaho Livestock Commission Co 523-2288
L C Livestock Co 523-2288
Idaho Livestock Auction 522-7211
Skelton Cattle Co 523-2288
Skelton Floyd Feed Lots 523-2288
Skelton Ranch live stock dlrs 523-2288
Skelton & Studdert livestock comnr
Stockyard Cafe
MAY ST INTERSECTS
COLLEGE ST INTERSECTS
740 Vacant
760 Sayer Brothers Inc auto dlr 523-0603
WHITTIER ST INTERSECTS
805 City St Dept 522-5871
City Sanitation Dept 522-3191
City Garage 522-3191

22

820 Yamaha Of Idaho Falls motorcycles 523-8048
824 Vacant
840 Stockman's Bar tavern 522-9756
898 Ray's In & Out restr 522-2041
E ELVA ST INTERSECTS
910 Vacant
921 Lindsay Soft Water 522-6763
923 Hill Evelyn M Mrs © 522-1023
925 Sybil's Cafe 523-5823
940 Steele Harold Camper Town 523-0535
Shippen & Steele Inc auto dlr 523-0535
955 Falls Cab Co 522-5011
Yellow Cab Co 522-5011
Hendrickson & Son gas sta
960 Vacant
1020 Bank Of Commerce 523-2020
1031 Dixie's Bar 522-9706
1051 White Glove Auto used cars 523-2254
1052 Humphrey Al Chevron Service gas sta 522-9865
1055 Big O Tires 523-5544
1060 Firestone Stores tires 522-7050
1070 Valley Glass Co 522-6550

26

1095 Lyle's Texaco 522-9843
1115 Fairway Service Station 522-1842
U-Haul Of Idaho & Montana Inc 522-0840
1199 Allen's Veterinary Hospital animal hosp 522-5451
1353 Van Kampen's Inc furniture 523-1971
1355 Itex Of Idaho Falls ofc equip 522-3310
1357 Meyers Geo & Sandy Squires Co floor covering 522-4353
1363 Lafayette Radio & Electronics 523-3579
1385 Northgate Richfield Service 522-9903

24

NORTHRUP AV —FROM 1000 BLK ON KEARNEY AV SOUTH

ZIP CODE 83401
545 Starnes Richd L © 522-7061
565 Keller Max V © 523-2896
575 Maupin Billie Mrs
605 Purcell Dick © 522-1386
625 Moon John © 523-6522
655 Hall Connie J © 522-0586
675 Jaeger Melvin J © 522-3666
725 Erickson D Paul © 523-5916
755 Martin Jack R © 523-0248
756 No Return
775 Mc Kenzie Richd 522-9473

15

NORTHVIEW AV —FROM 1980 BRENTWOOD AV NORTH

ZIP CODE 83401
480 Vacant

13

NORTON ST —FROM WHITNEY ST NORTH, 1 WEST OF SKYLINE DR

ZIP CODE 83401
1044 Bright Darris © 523-1900
1088 Rau Harold © 523-4897
1110 Monson Hal L © 522-1443
1123 Renkin Mansel © 523-5716
1130 Grimaud Adrian V © 523-4997
1152 Vacant
1153 Vacant

24

NORVIN ST —FROM 1600 GARFIELD NORTH

ZIP CODE 83401
524 Folta Ken D © 523-8961
554 Loucks Steven © 522-5063
555 Schaffer Paul L © 522-0309
570 Campbell Neal K © 522-6223
590 Bailiss Gilbert © 522-6227
605 Lofholm Larry G © 523-3097
630 Burt Gordon © 523-5865
640 Vacant
700 Vacant
709 Holst Brent L © 522-3155
710 Martin Monroe D 523-1963
72? Walton Larry C © 523-4404
755 Hernan Ronald © 522-9634
756 Jones James E 522-9239
780 Campbell John © 522-1032

19

OAK ST —FROM RR EAST TO 14TH, 3 SOUTH OF WALNUT

ZIP CODE 83401

24

O'BRYANT ST —FROM 500 N 3400 E RUNS WEST TO LAWNDALE DR

ZIP CODE 83401
3470 Lords Blair W © 523-7795
3475 Orme Lavern H 523-0288
3480 Norman Reeve E © 523-3619
3485 Baldwin Burton R © 523-6523

14

OLIVE PLAZA —FROM 1 BLK WEST OF RONGLYN AV NORTH

ZIP CODE 83401

Target Street	Cross Street	Source
-	✓	Polk's City Directory

E ELVA ST 1966

FLAMINGO MOTEL
& RESTAURANT
888 N. HOLMES AVE. TEL. 523-5993
COCKTAIL LOUNGE and HEATED POOL



THE IDAHO FIRST NATIONAL BANK
MEMBER F.D.I.C. — IDAHO FALLS — (See Page 7 Buyers' Guide)
MAIN OFFICE 300 BROADWAY TEL. 523-1600
FIRST STREET OFFICE 510 1st TEL. 522-5868

113

ELMORE AV—Contd
1470 Thomson Ann Mrs 522-3950
1476 Dixon John T ◎
1480 Garner Darrell 523-6910
1490 Colby Isaac ◎
1521 Vacant
1551 Young Rex R ◎ 522-6182
1553 Dodson Jack A ◎ 522-3717
1560 Cave Ernest J ◎
1563 Likes Tom
1573 Sparks Lester E 522-4620
1582 Walton Melvin
1583 Deines John

20

ELVA EAST—From N Boulevard east to City limits & north of 1st
103 Howes K LeRoy ◎ 522-8609
114 Haslam Florence Mrs ◎ 522-9282
124 Shaw Jas A ◎ 522-4516
128 Bowman Joel
bsmt Vacant
136 Colan Delbert 522-7604
142 Dennis Thora L ◎ 522-3599
152 Clabo Kenneth ◎ carp 522-3543
157 **Forsyth Apts**
1 Ransom Dean
2 Moore Carol Mrs 523-6934
3 Vacant
4 Young Oral
Street continued
160 Hatch Janet
163 Hauens Wm H 523-0259
163½ Monk J Lloyd ◎ 523-5031
Clark Jackie Mrs 523-6903
165 Hansen Retta Mrs 522-5958
rear Vacant
165½ Smith Walter H 522-2700
167 Bloxham Chas J ◎ 522-5495
168 Hansen Nephi
171 Jacobsen Mary A Mrs ◎ 523-6469
175 Hutchison Burton ◎ 522-8196
bsmt Robinson Ricky F 522-5249
176 Sucher Don 522-6484
178 Johannesen G Henry ◎ 522-7734
197 McKelly Kenneth W ◎ 522-7030
199 Horner Joseph ◎
199½ Vacant
N Lee av intersects
N Emerson av intersects
301 Roger Bros Co whse 522-0110
325 Vacant
325½ Ralph's Body Shop 523-1111
385 Whirlwind Car Wash & Serv Sta 522-1463

22

444 Lundahl Ray E Co used cars 523-4798
448 Pond's Fine Automobiles Inc 522-3411
640 Benevolent Protective Order of Elks Lodge No 1087 522-6371
Does Idaho Falls Grove No 1061 (BPOE)
Elks Lounge 522-6371
Elks Bowling Alley 522-9938

24

701 Municipal Golf Course 522-5161
Simonson Gerald 522-5161
Deming Chas W 523-1225
715 Gomes Louie 523-0873
737 Fryslie A Perry ◎ 522-8185
754 Phippen W Monroe ◎ 523-3053
764 Jewell Roy L ◎ 523-4541
840 Greenview Chalet Convalescent & Retirement Center 523-4795
898 Bybee's IGA Market groc 523-5719
900 Vacant

"CASH FOR CULLS"
You can Depend On
MENAN STARCH CO., INC.
VERNON A. POWELL, Manager
851 S. Chamberlain Av. Phone 522-6168

Target Street	Cross Street	Source
-	✓	Polk's City Directory

MAY ST 1966

& RESTAURANT
888 N. HOLMES AVE. TEL. 523-5993
COCKTAIL LOUNGE and HEATED POOL

20

MAY—From Boulevard east to City limits, 5 north of 1st

100 Warren Wm J ◎ 522-7426
119 Curtis Lyman E ◎
127 Sitton Willard W ◎ 523-2154
130 Vacant
134 Harding Orson D ◎ 522-7629
145 Hendrickson Lester C ◎ 523-0714
151 Carlson Grant G ◎ 523-3477
154 Watson Ronald A ◎ 522-6985
165 Shrives Howard A ◎ 523-5458
330 Fifty Cents Robo Car Wash of Idaho Falls
340 J B F Advertising 523-4538
361 Fann Robt
381 Cowham Bus Paint Sls 523-0788
385 Howell Gary R
395 Mr Ted's Furn & Appl 523-5661

22

N Higbee av intersects

415 Patterson Donald M ◎ 522-5797
422 Bolinder Peter E ◎ 523-3814
423 Food Equipment & Service Co 523-2100
430 Case Lavella O Mrs ◎ 522-1277
433 State Department of Public Lands & Forests 523-5398
457 Idaho Falls Roofing Co contr 522-5325
Moses Herbert E 522-5325
460 Brandon's Repair auto 523-3584
461 Holiday Self Service Laundry 522-9812
480 Mohr Ignatus
482 Palmer Francis C ◎ 523-4831
484 Magnusson Jack D 523-6654
490 Kearney Glen S ◎ 522-8430

N Holmes av intersects

555 Beasley Melvin L ◎ 522-7620
577 Sparr Emma A Mrs ◎ 522-4339
591 Grant Robt L ◎ 522-9386
615 Beins John A ◎ 522-9162
624 Campbell Cath Mrs ◎ 523-5812
625 Rapp John R ◎ 522-9334
630 Mills Geo W 523-6816
650 Rapp Sophia E Mrs ◎ 522-4335
653 Nelson Raymond ◎ 523-1216
Dona's Beauty Shop 523-1216
655 Phillips Wm E ◎ 523-4731
668 Campbell Jas
668½ Campbell Sharon Mrs ◎
680 Jehovah's Witnesses Kingdom Hall
690 Idaho Falls Ambulance Service 523-5045
Hawkins Harry J ◎ 523-5045
713 Vacant
733 Shelton Custom Carpet 523-2155
Shelton Dennis L ◎ 523-2155

28

McKINZIE AVENUE—From end of Ricks south to E 21st

1826 Horwath Theo J ◎ 522-7722
1848 Block Geo A 522-8246
1870 Seward Lynn 522-4048
1894 Helmholz Henry R ◎ 523-6088
1895 Nelson Russell ◎ 523-3640
1916 Headington Wesley L ◎ 523-6966
1938 Steiling Bob P ◎ 522-8697
1949 Mikesell Robt 523-1733
1960 Kienlen Bruce A ◎ 523-0908
1975 Rawlins John K ◎ 523-5408

"CASH FOR CULLS"
You can Depend On
MENAN STARCH CO., INC.
VERNON A. POWELL, Manager
851 S. Chamberlain Av. Phone 522-6168

THE IDAHO FIRST NATIONAL BANK
MEMBER F.D.I.C. — IDAHO FALLS — (See Page 7 Buyers' Guide)
MAIN OFFICE 300 BROADWAY TEL. 523-1600
FIRST STREET OFFICE 510 1st TEL. 522-5868

Target Street	Cross Street	Source
✓	-	Polk's City Directory

NORTHGATE MILE 1966

522-1380
935 Penman Bruce ◎
3565 Fesnock John ◎ 523-6659

20

NORTHGATE MILE—From intersection of 1st and Boulevard northeast

120 Hy-Way Drug 522-8357
125 Blue Bell Gasoline Co gas sta 522-5531
Malmberg Lawrence E ◎ 522-5531
Malmberg Jesse L 522-5531
155 Morgan's Wholesale Distributors 522-3471
160 Mac's Barber Shop
Cinderella Beauty Salon 522-4965
170 Vacant
195 Idaho Canvas Products Co 522-3160
201 Sav Mor Station gas sta 522-9738
210 American Finance Corp 523-0012
220 Coit Drapery Cleaners 522-6196
Paramount Cleaner & Tailors 522-6196
230 Steve's Radiator Shop 522-8460
238 V-1 Service Station 523-6696
298 One-Ninety-One Club tavern
301 Pioneer Investment Co 522-7871
305 Universla CIT Credit Corp 522-8512
320 Vacant
Garfield intersects
330 Bingham & Sons hsehold appliance 522-5662

CK & STUCCO
NT FRAME HOME INTO A
SPECIALIZE IN BRICK and
WELLS. WE GO ANY WHERE.
OR TOO SMALL.
anteed
Tel. 522-4066



Target Street	Cross Street	Source
✓	-	Polk's City Directory

NORTHGATE MILE 1966

Culligan Water Conditioning, Inc.
PICK UP YOUR PHONE and SAY
(SEE PAGE 57 BUYERS' GUIDE)
480 N. Utah Ave. Tel. 522-2921
HEY CULLIGAN MAN!

NORTHGATE MILE—Contd
332 Hi-Way Barber Shop
333 Post-Register The 522-1800
401 Buds Enco Serv 522-9973
410 Vic's "66" Service 523-1002
430 Browning Freight Lines Inc 523-0463
Milne Truck Lines 522-0397
Vickers Freight Lines 523-0463
440 Kelly's Richfield Service 522-3749
460 North Hi-Way Cafe restr 522-6212
475 Colonial Motel 522-7966
Bird Chas E © 523-1674
490 Ellsworth Bros Inc auto dlrs 522-2610
495 Fine Music Co sls & serv 522-3187
500 Ellsworth Bros Inc used cars 522-6962
501 Idaho Falls Foundry & Machine 522-7412
535 Idaho Falls Bedding Co 522-7363
555 Service Parts Co auto accessories 522-1311
559 State Dept of Law Enforcement (Motor Carrier Division) 523-2577
State Public Utilities Comn 523-0125
560 Scotty's restr 523-6382
565 Krah Metal Awning Co 522-8040
573 Wiemer & Wilcock's Heating 523-3848
593 Shamrock The tavern
600 Mart Number Two hdw
Mart Appl Center Number Two 522-5675
610 Mac's Electronic Clinic 522-6582
620 Farrell's Automotive Trim 522-1331
630 Town Pump gas sta
675 CAL Ranch & Farm Sup 523-3359
685 Dehnert Ins Co 522-2253
690 Robison's Parts & Service Co 522-6754
695 Barnes American Serv gas sta 523-1922
700 Beeline Gas For Less 522-9152
701 **Livestock Exchange Bldg**
Idaho Livestock Auction 522-7211
Idaho Livestock Commission Co 523-2288
G&S Investment Co 523-2288
LC Livestock Co comnr ofc 523-2288
Rodgers Raymond B Real Estate 522-4200
Skelton & Studdert livestock comnr
Skelton Cattle Co 523-2288
Skelton Floyd Feed Lots 523-2288
Skelton Ranch ofc livestock dlrs 523-2288
State Brand Inspectors 522-6676
Stockyard Cafe
US Dept of Agrl Animal Disease Eradication Quarantine Div (Fed-State Cooperative Programs) 522-1192

May intersects
College intersects
760 Lundahl Ray E Co auto dlr 522-9322

Whittier intersects
805 City Garage 522-3191
City Street Dept 522-5871
City Sanitation Dept 522-3191

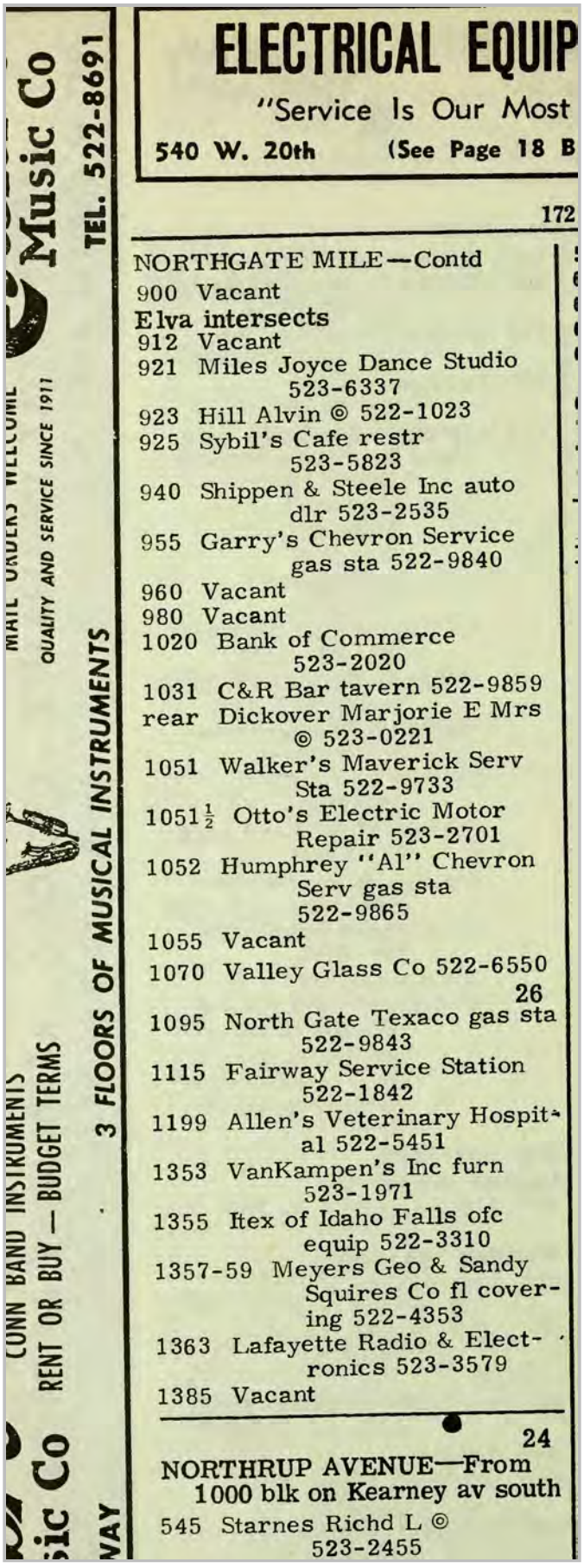
22
820 Sun Valley Marble of Idaho Falls Inc 522-5731
830 Vacant
840 Stockman's Bar tavern 522-9756
860 Compact Sales & Service vacuum clnrs 522-6763

KRAH Metal Awning Co.
565 N. YELLOWSTONE HWY.
First in Quality—Fairest in Price
CUSTOM MADE CABINETS
BOAT SALES
AWNINGS — SIDING — PATIOS
WINDOWS — DOORS
TEL. 522-8040

IDAHO TITLE & TRUST CO.
TITLE INSURANCE—ESCROWS—ABSTRACTS OF TITLE
547 N. CAPITAL AVE.
(See Page 54 Buyers' Guide)
TEL. 522-7895

Target Street	Cross Street	Source
✓	-	Polk's City Directory

NORTHGATE MILE 1966



ELECTRICAL EQUIP
"Service Is Our Most
540 W. 20th (See Page 18 B
Music Co TEL. 522-8691
MAIL ORDERS WELCOME
QUALITY AND SERVICE SINCE 1911
3 FLOORS OF MUSICAL INSTRUMENTS
CUNN BAND INSTRUMENTS
RENT OR BUY — BUDGET TERMS
ic Co
VAY

NORTHGATE MILE—Contd

900 Vacant

Elva intersects

912 Vacant

921 Miles Joyce Dance Studio 523-6337

923 Hill Alvin © 522-1023

925 Sybil's Cafe restr 523-5823

940 Shippen & Steele Inc auto dlr 523-2535

955 Garry's Chevron Service gas sta 522-9840

960 Vacant

980 Vacant

1020 Bank of Commerce 523-2020

1031 C&R Bar tavern 522-9859

rear Dickover Marjorie E Mrs © 523-0221

1051 Walker's Maverick Serv Sta 522-9733

1051½ Otto's Electric Motor Repair 523-2701

1052 Humphrey "Al" Chevron Serv gas sta 522-9865

1055 Vacant

1070 Valley Glass Co 522-6550

1095 North Gate Texaco gas sta 522-9843

1115 Fairway Service Station 522-1842

1199 Allen's Veterinary Hospital 522-5451

1353 VanKampen's Inc furn 523-1971

1355 Itex of Idaho Falls ofc equip 522-3310

1357-59 Meyers Geo & Sandy Squires Co fl covering 522-4353

1363 Lafayette Radio & Electronics 523-3579

1385 Vacant

NORTHRUP AVENUE—From 1000 blk on Kearney av south

545 Starnes Richd L © 523-2455

Target Street	Cross Street	Source
-	✓	Polk's City Directory

E ELVA ST 1963

522-7952
1573 Johnson Margie Mrs
1582 Colby Aldon D ◎
1583 Raymond Albert

20

ELVA EAST—From N Boulevard east to limits, 8 north of 1st

103 Howes K LeRoy ◎
522-8609
114 Haslam Florence Mrs ◎
522-9282
124 Shaw Jas A ◎ 522-4516
128 Burke Saml B ◎
523-0841
bsmt Clark Jacqueline Mrs
136 Colan Sarah E Mrs ◎
522-7604
142 Vacant
152 Clabo Kenneth ◎ carp
522-3543
157 **Forsyth Apartments**
Apartments:
1 Vacant
2 Covert John W 523-1033
3 Vacant
4 Adams Glenola Mrs
Street continued
160 Woodard Rebecca Mrs ◎
522-1318
163 Hauens Wm H 523-0259
Swain Max

Oil Company, Inc.
FIRESTONE JOBBER
ATING OIL
way
Tel. 522-4190
WE GIVE S&H GREEN STAMPS

Target Street	Cross Street	Source
-	✓	Polk's City Directory

MAY ST 1963

2631 Vacant

20

MAY–From Boulevard east to city limits, 5 north of 1st

100 No Return
119 Sorter Geo H ◎ 522-1335
127 Sitton Willard W ◎ 523-2154
130 Vacant
134 Harding Orson D ◎ 522-7629
145 Hendrickson Lester C ◎ 523-0714
151 Gardner Lynn D
154 Watson Ronald A ◎ 522-6985
165 Shriver Howard A ◎ 523-5458
330 Hock Tire Serv Inc 523-1873
355 Haley Richd F
361 Wayland Josephine Mrs
369 Outcelt John W 522-4834
381 Otto's Electric Mtr Repair 523-2701
385 Vacant

22

N Higbee av intersects

415 Vacant
422 Bolinder Peter E ◎
423 Intermountain Gas Co whse
430 Perrenoud Leo H ◎ 522-1277
433 Vacant
457 Idaho Falls Roofing Co 522-5325
Moses Herbert E 522-5325
460 Hatch Repair Service 523-3027
461 Holiday Self Service Laundry 522-9812
480 Johnston Richd P 523-5384
482 Baker Marvin 523-5354
484 Nielsen Richd K ◎ 523-2162
490 Kearney Glen S ◎ 522-8430

N Holmes av intersects

547 Seward Lynn E ◎ 522-4048
555 Beasley Melvin L ◎ 522-7620
577 Sparr Emma A Mrs ◎ 522-4339
591 Grant Robt L ◎ 522-9386
615 Beins John A ◎
624 Campbell Cath Mrs 523-5812

Target Street	Cross Street	Source
-	✓	Polk's City Directory

SUNDOWN

WITH AND WITHOUT KIT

MR. & MRS. JAMES L. COPLEY RD

MAY–Contd

625 Rapp John R © 522-9334
630 Anderson Robt D
650 Rapp Sophia E Mrs © 522-4335
653 Nelson Raymond © 523-1216
Dona's Beauty Shop 523-1216
655 Phillips Wm E © 523-4731
668 Campbell Jas
668½ Campbell Jerry M ©
680 Jehovah's Witnesses Kingdom Hall
682 Vacant
690 Vacant

28

McKINZIE AVENUE–From end of Ricks south to E 21st

1826 Vacant

Target Street	Cross Street	Source
✓	-	Polk's City Directory

NORTHGATE MILE (N YELLOWSTONE HWY) 1963

E intersects

20

YELLOWSTONE HIGHWAY NORTH—From intersection of 1st and Boulevard northeast

120 Hy-Way Drug 522-8357
125 Blue Bell Gasoline Co gas sta 522-5531
Malmberg Lawrence E ◎ 522-5531
Malmberg Jesse L JA2-5531
155 Morgan's agrl implts 522-3471
160 Mac's Barber Shop
170 Bonnieville Lumber Co 523-0995
195 Idaho Canvas Products Co 522-3160
200 Vacant
201 Boozer J H Oil Co gas sta 522-7340

Log Cabin Apartments 522-7340

1 Bastin Lloyd
2 Hill Janice
3 Means Kenneth
4 Burnside Douglas
5 Burnside Ronald J
6 Jardine Woodrow D
7 Vacant

Street continued

210 Strevell-Paterson Finance Co 523-0012
220 Pedersen-Paramount Clns & Tailors 522-6196
230 Steve's Radiator Shop 522-8460
238 Art's Richfield Serv gas sta 522-9816
275 Vacant
298 One-Ninety-One Club tavern
320-24 Long's Dutch Oven Bakery 522-2176

Garfield intersects

330 Bingham & Sons hsehold applinace 522-5662
332 Hi-Way Barber Shop

STEEL
ROBERTS
TEL. 522-7455

TECHNO RADIO-T.V. SERVICE
T.V. COLOR—BLACK AND WHITE
P AVE.
Free Pickup and Delivery
WE SERVICE ALL SMALL APPLIANCES
TEL. 522-5370

(See Page 62 Buyers' Guide)

Target Street	Cross Street	Source
✓	-	Polk's City Directory

NORTHGATE MILE (N YELLOWSTONE HWY) 1963

FALLS VALLEY GAS
HEATING, WATER HEATERS, RANGES, L.P. AND
NATURAL GAS, RESIDENTIAL AND COMMERCIAL
902 E. ELVA **TEL. 522-1488**

YELLOWSTONE HIGHWAY N
–Contd
333 Post Co The publ 522-1800
Post-Register The 522-1800
401 Dave's Enco Service gas sta 522-0785
410 Vic's 66 Service 523-1002
430 Browning Freight Lines Inc 523-0463
Vickers Freight Lines 523-0463
460 North Hi-Way Cafe 522-6212
475 Colonial Motel 522-7966
Bird Chas E © 522-7966
490 Ellsworth Bros Inc auto dlrs 522-2610
495 Western Specialties Inc bldg materials 522-0018
500 Ellsworth Bros Inc used cars 522-6962
501 Idaho Falls Foundry 522-7412
535 Idaho Falls Bedding Co 522-7363
555 Service Parts Co auto accessories 522-1311
560 Steed E R Equipment Co agrl equip 522-7575
565 Vacant
573 Vacant
575 Quality Dental Laby 522-3144
585 Safeway Stores Inc produce buying dept 522-1391
593 Vacant
595 Reliance Metal Wks 523-0823
600 Mart Farm & Home The hdw 522-5675
610 Wold Lamont TV Service repr 522-3545
620 Farrell's Auto Trim 522-1331
630 Fearless Farris Stinker Station gas sta 522-3134
640 Robison's Parts & Serv Co auto 522-6754
675 CAL Ranch & Farm Sup 523-3359
685 Dehnert Ins Co 522-2253
700 Roy's Beeline Serv gas sta 522-9152
701 **Livestock Exchange Bldg**
Idaho Livestock Auction Inc 522-7211
Idaho Livestock Commission Co 522-7211
G&S Investment Co
K Six Ranch Land Co real est
LC Livestock Co comnr ofc
Skelton & Studdert livestock comnr
Skelton Cattle Co
Skelton Floyd Feed Lots
Skelton Ranch ofc livestock dlrs
Rodgers Raymond B real est 522-4200
Stockyard Cafe
US Dept of Agrl Animal Disease Eradication Quarantine Div (Fed State Cooperative Programs) 522-1192

May intersects
College intersects
740 Crown Realty Inc 522-9077
760 Lundahl Ray E Co auto dlr 522-9322

20

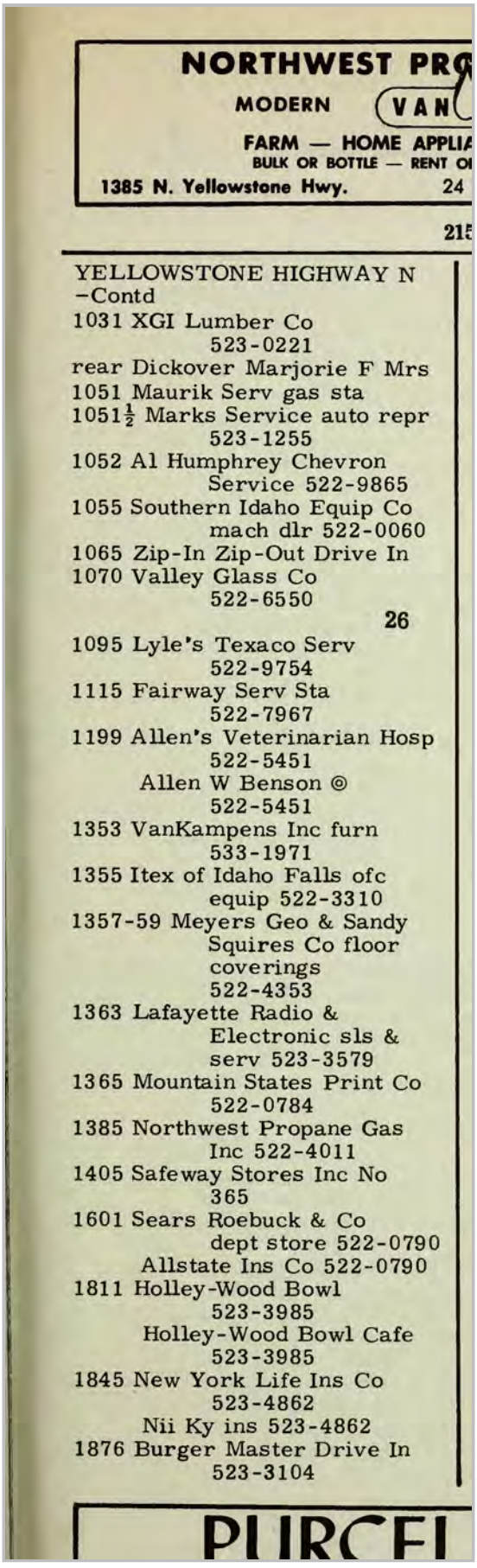
Whittier intersects
805 City Garage 522-7713
City Street Dept 522-5871
820 Ostler Glass & Paint Inc 522-1250
830 Spot The paint 523-4734
840 Stockman's Bar tavern 522-9756
860 Compact Associates of Idaho Falls vacuum clns 522-6763
898 Ray's In & Out restr 522-2041

22

Elva intersects
910 Vacant
912 Geisler Farm Supply Inc
921 Trail's End Saddle Shop
Trail's End Western Wear 523-4167
923 Hill Alvin © 522-1023
925 Sybil's Cafe 523-5823
950 Vacant
955 Phil's Chevron Serv gas sta 522-9840
960 Ker Max & Son Lbr Co 522-8295
1020 Bank of Commerce 523-2020

Target Street	Cross Street	Source
✓	-	Polk's City Directory

NORTHGATE MILE (N YELLOWSTONE HWY) 1963



NORTHWEST PR
MODERN VAN
FARM — HOME APPLIA
BULK OR BOTTLE — RENT O
1385 N. Yellowstone Hwy. 24

215

YELLOWSTONE HIGHWAY N
-Contd
1031 XGI Lumber Co
523-0221
rear Dickover Marjorie F Mrs
1051 Maurik Serv gas sta
1051½ Marks Service auto repr
523-1255
1052 Al Humphrey Chevron
Service 522-9865
1055 Southern Idaho Equip Co
mach dlr 522-0060
1065 Zip-In Zip-Out Drive In
1070 Valley Glass Co
522-6550

26

1095 Lyle's Texaco Serv
522-9754
1115 Fairway Serv Sta
522-7967
1199 Allen's Veterinarian Hosp
522-5451
Allen W Benson ©
522-5451
1353 VanKampens Inc furn
533-1971
1355 Itex of Idaho Falls ofc
equip 522-3310
1357-59 Meyers Geo & Sandy
Squires Co floor
coverings
522-4353
1363 Lafayette Radio &
Electronic sls &
serv 523-3579
1365 Mountain States Print Co
522-0784
1385 Northwest Propane Gas
Inc 522-4011
1405 Safeway Stores Inc No
365
1601 Sears Roebuck & Co
dept store 522-0790
Allstate Ins Co 522-0790
1811 Holley-Wood Bowl
523-3985
Holley-Wood Bowl Cafe
523-3985
1845 New York Life Ins Co
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Rocky Mountain ENVIRONMENTAL™ ASSOCIATES, INC.

Phase II Environmental Site Assessment
Stockyards Property
701 Northgate Mile
Idaho Falls, Idaho

RMEA Job Number 19-0152
October 31, 2019

Prepared on Behalf of:
Stantec Consulting Services Inc.
601 SW 2nd Avenue, 14th Floor
Portland, OR 97204

Environmental
-Phase I, II, & III ESAs
-Groundwater Monitoring
-Underground Storage Tanks
-Asbestos Inspections
-Site Investigations & Remediation
-Plans & Permitting

Water Rights
-Water Right Due Diligences
-Transfers & Applications
-Mitigation Plans

Hydrology
-Hydrologic Modeling
-Flow Measurements
-Well Design
-Groundwater Supply
-Aquifer Characterization
-Recharge Studies

Wetlands
-Wetland Delineations
-Environmental Planning
-Mitigation Plans



482 Constitution Way, Suite 303, Idaho Falls, Idaho, 83402. (208) 524-2353
www.rockymountainenvironmental.com

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1.0 INTRODUCTION

Rocky Mountain Environmental Associates Inc. (RMEA) has completed a Phase II Environmental Site Assessment (ESA) for Stantec Consulting Services Inc. (Stantec) on the property (Property) located at 701 Northgate Mile in Idaho Falls, Idaho (Figure 1). The Phase II ESA described in this report was performed in general accordance with Stantec's Site-Specific Sampling and Analysis Plan (SAP), Revision 1, dated September 17, 2019 (Stantec, 2019b). The SAP was approved by the United States Environmental Protection Agency (EPA) on September 20, 2019.

2.0 SITE DESCRIPTION AND HISTORY

The approximately 7.5-acre Property consists of Bonneville County tax lots 0620001044B and 0420004015B, and City Emerson Street right-of-way property. Current Property zoning is Industrial and Manufacturing Zone (I&M). The Property is currently developed as a livestock auction yard and stockyard. Property improvements include: 1) a main office and auction arena building and adjoining livestock pen building, 2) animal pens (northern portion of Property), and 3) gravel-covered area used for hay storage (southern portion of Property).

The Property is bound by Elva Street and industrial property to the north, land and railroad tracks owned by Oregon Short Line Railroad Co. to the west, May Street to the south, and Northgate Mile to the east. Property vicinity land use is a mix of commercial across Northgate Mile and light industrial.

Stantec completed a Phase I ESA of the Property in August 2019 (Stantec, 2019a). The Phase I ESA identified the following recognized environmental conditions (RECs) for the Property:

REC #1: The Property has been used as a stockyard and livestock auction yard for more than 80 years. Pesticides are commonly used at such facilities including 1) insecticides to control insects on livestock, and 2) herbicides to control unwanted vegetation. During the site reconnaissance, mention of a sheep dipping operation was made, and the location of the operation was pointed out (Figure 2), although this operation was reportedly of short duration. The potential for the use of persistent pesticides at the Property is considered a REC.

REC #2: Historical records indicate that a railroad switching yard has been located adjacent and west of the Property since prior to the 1940s. The material threat of an airborne release from railroad locomotive emissions, primarily polycyclic aromatic hydrocarbons (PAHs) in diesel particulate emissions, is considered a REC for the Property.

REC #3: Several nearby off-Property facilities have been identified that pose a material threat of a release that has the potential to impact the Property. These include historical gas stations at 385 Elva Street, 630 Northgate Mile and 700 Northgate Mile, and a historical machine shop at 675 Northgate Mile. Potential contaminants of concern associated with these operations include volatile organic compounds (VOCs) including

fuel constituents and solvents used for degreasing. These off-site facilities constitute a REC and potential vapor encroachment condition (VEC) for the Property.

An environmental issue of note that relates to this Phase II ESA was also identified at the Property during completion of the Phase I ESA and includes the following feature:

- A 550-gallon diesel above-ground storage tank (AST) was observed at the Property during the Phase I ESA site visit. This feature was identified as a *de minimis* condition as no evidence of significant surface staining was noted associated with it. While this feature may not warrant sampling if it were the only environmental condition at the Property, sampling of soil is recommended since a drill rig will be on-site doing other sampling, making the collection of a soil sample in this area very implementable and cost effective.

3.0 GEOLOGY AND SOILS

The Property is located in the Snake River Plain, a flat depression underlain by volcanic rocks, approximately 30 to 60 miles wide, that cuts an arcuate swath across southern Idaho. The volcanic province of which the Snake River Plain is a part extends from near Payette, Idaho, near the Oregon border, approximately 150 miles southeast to the vicinity of Twin Falls, and then approximately 190 miles northeast to the area of Ashton, Idaho (located about 50 miles south of West Yellowstone, Montana). The Eastern Snake River Plain, where the Property is located, is bounded on the southeast by mountains of the Basin and Range province. These mountains consist of upper Precambrian through lower Mesozoic sedimentary rocks; these units were uplifted along normal faults during Neogene and Quaternary tectonism. Southwest of the Snake River Plain are mid-Miocene rhyolitic and basalt rocks of the Owyhee Plateau (Kunz et al, 1992). On the northeast end of the Snake River Plain are Quaternary rhyolitic and basaltic rocks of the Yellowstone Plateau (Christianson, 2001).

The surface of the Property is mapped as Alluvium of Snake River Glacial Outwash (Qt) of late Pleistocene age. The Alluvium is described as well-rounded, clast-supported gravel, thickly planar- to cross-bedded, separated locally by thin, cross-bedded sand beds. Gravel is dominantly pebble- to cobble-sized, clast-supported, locally normally-graded and imbricated. Gravel framework is filled by subrounded fine- to medium-sand (Phillips and Welhan, 2011). The Alluvium is underlain by basalt bedrock (Basalt of Shattuck Butte [middle Pleistocene]), which is visible at the surface along the eastern Property boundary. Based on numerous site-wide shallow (up to 2 feet) soil borings that were completed for this project, the surface soils beneath the Property are variable and consist of gravels, sands, and silts.

Two soil borings were drilled to bedrock, including soil vapor sample point SG-2, and soil sample location DP-1 (Figure 2). Bedrock at SG-2 was encountered at 4 feet below ground surface (bgs) and bedrock at DP-1 was encountered at 23 feet bgs. Based on these limited borings, and given the visible bedrock at the surface along the east side of the Property, it appears that depth to bedrock is highly variable and likely ranges between 0 and approximately 25 feet bgs.

4.0 HYDROGEOLOGY

The aquifer system in the area is composed of fractures and interflow deposits in the volcanic bedrock underlying the Property. Depth to groundwater beneath the Property is probably on the order of approximately 120 feet bgs based on a nearby well log that was reviewed by Stantec during the performance of the Phase I ESA for the Property. Based on the location of the Property in the Snake River Plain, it is inferred that groundwater in the vicinity of the Property probably flows towards the southwest (with local variations). This inference is based upon the topography, geology and surface water hydrology present in the area of the Property. The regional aquifer system is locally overlain by shallow or perched saturated zones, many of which are associated with seasonal leakage from irrigation canals. In addition, the regional basalt aquifer contains localized interbedded zones of low-permeability sediments and basalt. These impede the vertical movement of water and contribute to conditions that produce horizontal water movements. The Snake River is located approximately 0.65 miles east of the Property. In this area, the Snake River lies well above the top of the regional aquifer.

5.0 FIELD SAMPLING ACTIVITIES

5.1 Pre-Field Activities

5.1.1 Utility Clearance

Prior to drilling and excavating activities, RMEA requested a utility locate from Digline of Idaho in order to establish the location of participating public utilities. The request was assigned Ticket #2019410913. Marking of the utilities was completed prior to drilling at the Property. No utilities were found to be marked that were deemed to be within unsafe distances to any of the proposed boring locations presented in the SAP.

RMEA also contracted Mr. Bob Pace to locate any private lines within the boundaries of the project scope. No underground utilities that were marked by Mr. Pace were found near any of the proposed boring locations.

The Stockyard Forman, Mr. Reed Radford, indicated prior to drilling that several underground waterlines transect the north portion of the Property, and are generally located along the fence lines or alleyways through the pens area. He also mentioned that waterline breaks and repairs were not uncommon at the Property. Mr. Radford indicated that the presence of any other private utilities in the areas of investigation was very unlikely. Mr. Radford was also aware of the approximate bearings of waterlines associated with the fire hydrant located near the 550-gallon AST on the east side of the Property, and he indicated those to RMEA.

5.1.2 Health and Safety

A Site-Specific Health and Safety Plan (HASP) was prepared to describe field sampling activity safety protocols for RMEA employees engaged in the project. At the start of each day of field sampling activities, an onsite “tailgate” meeting was held where health and safety was discussed with all field personnel prior to drilling activities.

5.2 Subsurface Assessment Methodologies

RMEA mobilized to the Property with EarthProbe on October 13, 2019. All drilling was performed by EarthProbe using their track-mounted Geoprobe 6620DT. On the first day of field sampling activities, twenty four shallow soil borings were completed and three composite soil samples (CS-01-0-3, CS-02-0-3, and CS-04-0-3) were collected. On October 14, 2019, sixteen shallow soil borings were completed and two composite soil samples (CS-03-0-3 and CS-05-0-3) were collected. Two additional soil borings were advanced for the purpose of soil vapor sample collection, and two soil vapor samples (SG-01-4-5 and SG-02-3-4) were collected. On October 15, 2019, eleven shallow soil borings were completed and two composite soil samples (CS-06-0-3 and CS-07-0-3) were collected. A twelfth soil boring was drilled to 23 feet bgs near the 550-gallon AST and one soil sample (DP-01-0.5-3) was collected. A thirteenth soil boring was advanced for the purpose of soil vapor sample collection, and soil vapor sample (SG-03-4-5) was collected.

5.2.1 Site-Wide Surface/Shallow Subsurface Soil Sampling

All soil sampling and analysis was completed in accordance with the SAP with the following exception:

1. Due to space restrictions and debris in the former sheep dipping area (Composite Area 6; see Figure 2), only three locations were drilled instead of four and therefore composite soil sample CS-06-0-3 consisted of three discrete soil samples instead of four.

During drilling and sample collection, soil from each boring was observed for visual and olfactory evidence of hazardous substance/petroleum impacts. Photoionization detector (PID) readings were collected from every sample in each boring, which was comprised of the upper 18 inches of soil below concrete or manure. PID screening consisted of placing soil from the full 18 inches into a Ziploc bag using disposable nitrile gloves. Each bag was then kept sealed for several minutes before PID screening to allow potential organic vapors to volatilize in the bag. The background concentration readings on ambient air were noted immediately prior to PID screening, and were subtracted from the maximum screening value obtained from each soil sample. Soil sample PID screening was conducted by opening a small section of the bag and inserting the sampling tube of the PID into the headspace. PID readings, which are indicative of the total concentration of volatile hydrocarbons in the headspace of the sealed bag containing the soil sample, were then recorded in the field book. No PID readings above background were observed in any composite area sample, and no staining or petroleum odors were observed in any of the borings.

5.2.2 AST Area Soil Sampling

All soil sampling and analysis for this area was completed in accordance with the SAP.

During drilling and sample collection, soil at 2.5-foot intervals was observed for visual and olfactory evidence of hazardous substance/petroleum impacts. PID readings were collected approximately every 2.5 vertical feet from soil in each boring using the method describe above. No staining/odors and/or PID readings above background were observed in this soil boring.

5.2.3 Soil Vapor Sampling

All soil vapor sampling and analysis was completed in accordance with the SAP with the following exception:

1. Bedrock was visible at the surface in numerous locations throughout the area of SG-4. Three attempts were made in the area to penetrate into the subsurface, however, due to shallow bedrock this was not achieved and therefore no soil vapor sample was collected for SG-4.

5.2.4 Sampling Effectiveness Summary

It is RMEA's opinion that despite these SAP deviations, the Property has been adequately characterized.

5.4 Subsurface Conditions

During the site-wide surface/shallow subsurface soil sampling phase of field activities, all soil borings were advanced to depths of 1.5 to 2 feet bgs. Soil types were noted by an RMEA geologist and were found to be variable by location, and consisted of interbedded gravels, sands, silts, and clays. At DP-1 the boring was advanced to 23 feet bgs, where basalt bedrock was encountered. Subsurface conditions at this location consisted of sandy silt to approximately 5 feet bgs underlain by a gravelly sand to approximately 10 feet bgs. This gravelly sand was underlain by clay to approximately 12.5 feet, underlain by silt extending to bedrock at 23 feet bgs. A soil boring log containing soil descriptions and PID screening results for DP-1 is provided in Appendix A. Groundwater was not encountered, nor was it expected to be encountered, during the drilling efforts.

6.0 LABORATORY TESTING RESULTS

In the subsections that follow, laboratory testing results are summarized for each sampled environmental media. All samples were analyzed in accordance with the Stantec SAP. Comparisons of testing results to potentially applicable Idaho Department of Environmental Quality (IDEQ) and EPA screening level concentrations are provided and discussed.

6.1 Soil Testing Results

A total of 7 composite soil samples were collected from 51 site-wide shallow subsurface borings and 1 grab sample was collected from shallow depths at a single boring location on the south side of the AST on the Property. Soil samples were submitted to Pace Analytical of Mount Juliet, Tennessee, a IDEQ National Environmental Laboratory Accreditation Program (NELAP) laboratory, for laboratory testing. Soil analytical results are described by analyte group in the subsections that follow. Soil testing data is summarized for detected concentrations only in Table 1 (petroleum hydrocarbons and volatile organic compounds [VOCs]), Table 2 (metals), Table 3 (Semi-volatile Organic Compounds [SVOCs]), and Table 4 (Ammonia [as Nitrogen] and nitrate [as nitrogen]). Organochlorine pesticides were also analyzed but none were detected above laboratory method detection limits, and therefore no table of these results is included in the report. Pace Analytical laboratory reports are provided in Appendix B.

6.1.1 Petroleum Hydrocarbons - Soil

One soil sample, DP-01-0.5-3, was analyzed for Total Petroleum Hydrocarbons (TPH) Gasoline-Range Organics (GRO) by method 8015D (referred to in the attached lab report as TPH Low Fraction), TPH Diesel-Range Organics (DRO), and TPH Residual-Range Organics (RRO), the latter two being analyzed by method NWTPH-Dx. RRO was not detected is the sample. GRO and DRO were detected but at very low concentrations and both were flagged by the laboratory with a "J", indicating estimated concentration values. Results for Total Petroleum Hydrocarbon analysis for soil are presented in **Table 1**.

6.1.2 Volatile Organic Compounds - Soil

Soil sample DP-01-0.5-3 was also collected via EPA Method 5035 and analyzed for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by method 8260. All four VOCs were detected in the sample, but at concentrations that are well below the most conservative IDEQ screening levels for each compound. Results of VOC analysis for soil are presented in **Table 1**.

6.1.3 Metals - Soil

Seven composite soil samples were analyzed for eight Resource Conservation and Recovery Act (RCRA) metals by method 6020B. Concentrations of arsenic, barium, cadmium, chromium, lead, mercury and selenium were detected in each of the analyzed soil samples. These concentrations were obtained by "total" metals analytical procedures, which includes complete digestion of the mineral material in the sample, which releases naturally occurring metals in the mineral fraction of the sample. With the exception of arsenic, none of the reported metals detections exceeded the EPA Residential Screening Levels (RSLs) for soil. The reported arsenic concentrations are below the average background concentration of naturally occurring arsenic in Bonneville County, Idaho, of 5.4 ppm (https://mrdata.usgs.gov/geochem/county.php?place=f16019&el=As&rf=northwestern). Leachable concentrations of arsenic, such as would be obtained through laboratory testing via toxicity characteristic leaching procedure (TCLP) procedures, would be expected to be well below the EPA RSL concentration of 0.68 ppm. Results of metals analysis for soil are presented in **Table 2**.

6.1.4 Semi-volatile Organic Compounds - Soil

Seven composite soil samples were analyzed for SVOCs. Detections of SVOCs were reported in soil samples CS-03-0-3, CS-04-0-3, CS-05-0-3, CS-06-0-3, and CS-07-0-3, but at concentrations well below the most conservative IDEQ screening levels. Results of SVOC analysis for soil are presented in **Table 3**.

6.1.5 General Chemistry - Soil

Seven composite soil samples were analyzed for Ammonia (as Nitrogen) and Nitrate (as Nitrogen). Neither the IDEQ nor the EPA have defined soil screening concentrations for Ammonia, however, the reported concentrations are relatively low on the order of 8 to 36 milligrams per kilogram (mg/kg). The IDEQ does not have defined soil screening concentrations for Nitrate, however, the EPA residential screening level for Nitrate in soil is 130,000 mg/kg which is over three orders of magnitude above the reported concentrations that ranged from 18.6 to 44.2 mg/kg. Results of the general chemistry analyses for soil are presented in **Table 4.**

6.1.6 Orangochlorine Pesticides - Soil

Seven composite soil samples were analyzed for organochlorine pesticides by method 8081B, however, none were detected above laboratory method detection limits.

6.2 Soil Vapor Testing Results

A total of three soil vapor samples and one sample duplicate sample were collected at the Property at the locations shown on Figure 2. Soil vapor samples were submitted to Eurofins/TestAmerica, Nashville, Tennessee for laboratory testing for total petroleum hydrocarbons (TPH) as gasoline, VOCs and helium (the gaseous leak-detection compound). Soil vapor testing data are summarized, for detected concentrations only, in **Table 5**. Eurofins/TestAmerica laboratory reports are provided in Appendix C.

Helium was detected in all three soil vapor samples and the sample duplicate. As indicated in the table below, based on the helium concentration detected and the helium concentration measured in the shroud during sample collection with a helium meter, it is estimated that between 17% and 43% of the sample volume in the four soil vapor samples was derived from ambient air. Such high ambient air concentrations in the subsurface vapor samples may result in an underestimation of VOC concentrations in soil vapor through dilution with ambient air. This occurrence also suggests the potential for the introduction of contaminants present in ambient air (e.g. above ground air at the sample location) into the subsurface vapor sample.

Sample ID	Sample Helium Concentration	Shroud Helium Concentration	Estimated Percent of Atmospheric Air in Sample
SG-01	4.6%	20%	23%
SG-01 (duplicate)	4.8%	20%	24%
SG-02	3.6%	21%	17%
SG-03	10%	23%	43%

No VOCs were detected in the samples or duplicate at a concentration exceeding DEQ Commercial/Industrial SLCs. VOC concentrations for compounds for which an SLC has not been published were compared to EPA soil gas screening levels derived by dividing the Composite Worker Air RSLs by the EPA default attenuation factor for the transport of subsurface contaminants to indoor air of 0.03. No VOCs were detected exceeding adjusted EPA RSLs with the following exceptions:

1. 1,3-Butadiene in each project sample and the duplicate. The maximum 1,3-butadiene concentration exceeds the EPA soil gas screening level by a factor of 3.0X. By far the most common source of 1-3-butadiene is auto exhaust. No potential subsurface sources of 1,3-butadiene have been identified. Based upon the relatively low concentration detected, and the presence of significant ambient air in the samples, 1,3-butadiene is attributed to ambient air contamination.

2. Bromodichloromethane in one project sample (SG-02). The bromodichloromethane concentration exceeds the EPA soil gas screening level by a factor of 1.1X. Most bromodichloromethane is formed as a by-product when chlorine is added to water supply

systems. A leaking water supply line is a potential release source of subsurface bromodichloromethane.

3. Chloroform in one project sample (SG-02). The chloroform concentration exceeds the EPA soil gas screening level by a factor of 6.8X. The most common source of chloroform is released from chlorine-treated drinking water and wastewater. A leaking water supply line is a potential release source of subsurface chloroform.

While several VOCs were detected at concentrations slightly exceeding potentially applicable human health screening values, it is RMEA's opinion that these exceedances do not indicate the presence of a release that warrants further investigation or cleanup.

7.0 DATA VALIDATION

The laboratory reports received from Pace Analytical and Eurofins/TestAmerica were validated by Stantec personnel to verify compliance with the project quality assurance project plan (QAPP) and SAP, and to confirm the usability of the laboratory data. No deviations from QAPP protocols or the laboratory testing program described in the SAP occurred. All data records were deemed usable as qualified. No data was rejected as a result of data validation completion. Data validation summary reports are provided in Appendix C.

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 Conclusions

Summarized below are RECs identified in the Phase I ESA and findings from the Phase II ESA associated with that REC.

REC #1: The Property has been used as a stockyard and livestock auction yard for more than 80 years. Pesticides are commonly used at such facilities including 1) insecticides to control insects on livestock, and 2) herbicides to control unwanted vegetation. During the site reconnaissance, mention of a short duration sheep dipping operation was made, and the location of the operation was pointed out (Figure 2). The potential for the use of persistent pesticides at the Property is considered a REC.

REC #1 Findings: Based on site-wide shallow subsurface soil sample analysis of the pesticides list of 22 compounds, no detections of pesticides were reported in any soil sample that was collected at the site.

REC #2: Historical records indicate that a railroad switching yard has been located adjacent and west of the Property since prior to the 1940s. The material threat of an airborne release from railroad locomotive emissions, primarily polycyclic aromatic hydrocarbons (PAHs) in diesel particulate emissions, is considered a REC for the Property.

REC #2 Findings: Very low-level detections of SVOCs were reported in soil samples from Composite Areas 3, 4, 5, 6, and 7 (Figure 2), but at concentrations below the most conservative IDEQ and EPA screening levels.

REC #3: Several nearby off-Property facilities have been identified that pose a material threat of a release that has the potential to impact the Property. These include historical gas stations at 385 Elva Street, 630 Northgate Mile and 700 Northgate Mile, and a historical machine shop at 675 Northgate Mile. Potential contaminants of concern associated with these operations include volatile organic compounds (VOCs) including fuel constituents and solvents used for degreasing. These off-site facilities constitute a REC and potential vapor encroachment condition (VEC) for the Property.

REC #3 Findings: Three soil vapor samples were collected along the east side of the Property, near Northgate Mile. No VOCs were reported in soil vapor samples exceeding the adjusted EPA RSLs with the exception of 1,3-Butadiene, Bromodichloromethane, and Chloroform. 1,3-Butadiene is attributed to auto exhaust contamination from the nearby Northgate Mile or on site vehicles. Bromodichloromethane and Chloroform are commonly associated with leaking water supply lines. Based on interviews with the Stockyard Foreman, waterline breaks and repairs are not uncommon on the Property.

During the performance of the field portion of this Phase II ESA, RMEA drilled a single soil boring to bedrock (23 feet bgs) near the Property AST. No visual, olfactory, or PID evidence of petroleum contamination was observed in this boring. Analytical laboratory results from this boring indicated low-level detections of hydrocarbons between 0.5 and 3 feet bgs, but at concentrations below applicable screening levels. Based on the above data, a limited release or releases from use of the AST may have occurred in the past, but no evidence of a significant release was identified.

8.2 Recommendations

Based on the above data, RMEA has no recommendations for further environmental investigation at the Property.



Chad Jensen, Staff Geologist



John Rice, PG
President

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Stantec, 2019a. 701 Northgate Mile, Idaho Falls, Idaho 83401, Stockyards Property, Phase I Environmental Site Assessment. August 19, 2019.

Stantec, 2019b. Site-Specific Sampling and Analysis Plan, Revision 1, Stockyards Property, 701 Northgate Mile, Idaho Falls, Idaho 83401, September 17, 2019.

TABLE 1
Soil Sample Analytical Results - Petroleum Hydrocarbons and Volatile Organic Compounds
Stockyards Property
701 Northgate Mile
Idaho Falls, Idaho

Sample ID	Date Sampled	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Benzene	Ethylbenzene	Toluene	Total Xylenes
CS-01-0-3	10/13/2019	--	--	--	--	--	--	--
CS-02-0-3	10/13/2019	--	--	--	--	--	--	--
FD-X-0-3	10/13/2019	--	--	--	--	--	--	--
CS-03-0-3	10/14/2019	--	--	--	--	--	--	--
CS-04-0-3	10/13/2019	--	--	--	--	--	--	--
CS-05-0-3	10/14/2019	--	--	--	--	--	--	--
CS-06-0-3	10/15/2019	--	--	--	--	--	--	--
CS-07-0-3	10/15/2019	--	--	--	--	--	--	--
DP-01-0.5-3	10/15/2019	**0.876 J**	**1.59 J**	11.5 U	**0.00110 J**	**0.00239 J**	**0.00921**	**0.0179**
IDEQ SLC - Vapor Intrusion		NA	NA	NA	0.08	0.25	1,300	27
IDEQ SLC - Direct Contact		NA	NA	NA	8.3	39	7,930	6,100
IDEQ SLC - Groundwater Protection		NA	NA	NA	0.025	7.4	6.6	93
EPA RSL - Residential		NA	NA	NA	1.2	5.8	4,900	580

Notes:
All results expressed as milligrams per kilogram
bold = indicates concentrations detected above method detection limits
highlighted yellow = indicates concentration exceeds one or more potentially applicable SLCs or RSLs
-- = sample not analyzed
FD = field duplicate
NA = Not Available, no screening value is listed for this analyte.

J = The result is an estimated value.
U = Not detected, the associated value is the method reporting limit

EPA RSLs = United States Environmental Protection Agency Regional Screening Levels, April 2019

TABLE 2
Soil Sample Analytical Results - Metals
Stockyards Property
701 Northgate Mile
Idaho Falls, Idaho

Sample ID	Date Sampled	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
CS-01-0-3	10/13/2019	**3.92**	**136**	**0.319 J**	**12.7**	**8.14**	**0.0116 J**	**0.687**	0.572 U
FD-X-0-3	10/13/2019	**4.03**	**129**	**0.299 J**	**11.7**	**7.96**	**0.0155 J**	**0.712**	0.572 U
CS-02-0-3	10/13/2019	**3.42**	**87.2**	**0.374 J**	**11.0**	**8.63**	**0.0104 J**	**0.594**	0.514 U
CS-03-0-3	10/14/2019	**3.11**	**92.8**	**0.275 J**	**11.9**	**9.28**	**0.0102 J**	**0.630**	0.564 U
CS-04-0-3	10/13/2019	**2.64**	**87.1**	**0.277 J**	**8.76**	**16.3**	**0.0143 J**	**0.410 J**	0.577 U
CS-05-0-3	10/14/2019	**3.43**	**100**	**0.306 J**	**11.6**	**11.4**	**0.0137 J**	**0.621**	0.556 U
CS-06-0-3	10/15/2019	**2.87**	**120**	**0.412 J**	**10.2**	**18.9**	**0.0212 J**	**0.309 J**	0.549 U
CS-07-0-3	10/15/2019	**3.39**	**112**	**0.308 J**	**12.1**	**22.3**	**0.0151 J**	**0.306 J**	0.544 U
DP-01-0.5-3	10/15/2019	--	--	--	--	--	--	--	--
USGS Background		5.4	NA	NA	NA	34.9	0.032	0.184	NA
IDEQ SLC - Direct Contact		NA	NA	NA	NA	NA	NA	NA	NA
IDEQ SLC - Groundwater Protection		NA	NA	NA	NA	NA	NA	NA	NA
EPA RSL - Residential		0.68	15,000	71	120,000	400	11	390	390

Notes:
All results expressed as milligrams per kilogram
bold = indicates concentrations detected above method detection limits
shaded gray = indicates concentration exceeds background screening value
highlighted yellow = indicates concentration exceeds background and one or more potentially applicable RSLs
FD = field duplicate
-- = not analyzed
NA = Not Available, no screening value is listed for this analyte

J = The result is an estimated value; "-" indicates a potential low bias, "+" indicates a potential high bias
U = Not detected, the associated value is the method reporting limit

EPA RSLs = United States Environmental Protection Agency Regional Screening Levels, April 2019
IDEQ SLCs = Idaho Department of Environmental Quality Screening Level Concentrations, August 2018
USGS Background = Average concentrations of elements in Bonneville County, Idaho determined by the United States Geological Survey (https://mrdata.usgs.gov/geochem/county.php?place=f16019&el=As&rf=northwestern).

TABLE 3
Soil Sample Analytical Results - Semivolatile Organic Compounds
Stockyards Property
701 Northgate Mile
Idaho Falls, Idaho

Sample ID	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo[a]-anthracene	Benzo[a]-pyrene	Benzo[b]-fluoranthene	Benzo[g,h,i]-perylene	Benzo[k]-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluoranthene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pentachloro-phenol	Pyrene
CS-01-0-3	10/13/2019	0.0229 U	0.0229 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.0229 U	0.00687 U	0.381 U	0.00687 U
CS-02-0-3	10/13/2019	0.0206 U	0.0206 U	0.00617 U	0.00617 U	0.00617 U	0.00617 U	0.00617 U	0.00617 U	0.00617 U	0.00617 U	0.00617 U	0.00617 U	0.00617 U	0.00617 U	0.0206 U	0.00617 U	0.342 U	0.00617 U
FD-X-0-3	10/13/2019	0.0229 U	0.0229 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.00687 U	0.0229 U	0.00687 U	0.381 U	0.00687 U
CS-03-0-3	10/14/2019	**0.00439 J**	**0.00596 J**	0.00677 U	0.00677 U	**0.000952 J**	**0.00115 J**	**0.000722 J**	**0.00146 J**	**0.000793 J**	0.00677 U	0.00168 J	0.00677 U	**0.00327 J**	0.00677 U	**0.00527 J**	**0.00341 J**	0.376 U	**0.00236 J**
CS-04-0-3	10/13/2019	**0.0344**	**0.0553**	**0.00243 J**	0.00693 U	**0.0107**	**0.0133**	**0.0115**	**0.0185**	**0.00979**	**0.00486 J**	**0.0171**	**0.00189 J**	**0.0461**	**0.00746**	**0.0549**	**0.0439**	0.385 U	**0.0538**
CS-05-0-3	10/14/2019	**0.0129 J**	**0.0134 J**	0.00667 U	0.00667 U	**0.00219 J**	**0.00527 J**	**0.00457 J**	**0.00765**	**0.00341 J**	**0.00214 J**	**0.00683**	0.00667 U	**0.0062 J**	**0.00336 J**	**0.00917 J**	**0.00652 J**	0.370 U	**0.00528 J**
CS-06-0-3	10/15/2019	**0.00855 J**	**0.0109 J**	0.00600 U	0.00600 U	**0.00316 J**	**0.00856**	**0.0113**	**0.0203**	**0.0118**	**0.00648**	**0.014**	0.00600 U	**0.0127**	**0.00856**	**0.00724 J**	**0.00824**	0.333 U	**0.0123**
CS-07-0-3	10/15/2019	**0.00460 J**	**0.00538 J**	0.00653 U	0.00653 U	**0.000856 J**	**0.00215 J**	**0.00193 J**	**0.00413 J**	**0.00283 J**	**0.00124 J**	**0.00371J**	0.00653 U	**0.00397 J**	**0.00212 J**	**0.00395 J**	**0.00374 J**	0.362 U	**0.00351 J**
DP-01-0.5-3	10/15/2019	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--
IDEQ SLC - Vapor Intrusion		NA	NA	NA	NA	NA	106	NA	NA	NA	NA	NA	NA	NA	NA	0.12	NA	NA	NA
IDEQ SLC - Direct Contact		NA	NA	4,470	NA	22,300	1.4	0.14	1.4	NA	14	139	NA	2,970	NA	44	NA	NA	2,230
IDEQ SLC - Groundwater Protection		NA	NA	200	NA	3,200	0.68	2.1	2.3	NA	23	69	NA	1,400	NA	21	NA	NA	1,000
EPA RSL - Residential		18	240	3,600	NA	18,000	1.1	0.11	1.1	NA	11	110	0.11	2,400	1.1	3.8	NA	1.0	1,800

Notes:
All results expressed as milligrams per kilogram
bold = indicates concentrations detected above method detection limits
highlighted yellow = indicates concentration exceeds one or more potentially applicable SLCs or RSLs
FD = field duplicate
NA = Not Available, no screening value is listed for this analyte.

J = The result is an estimated value.
U = Not detected, the associated value is the method reporting limit

EPA RSLs = United States Environmental Protection Agency Regional Screening Levels, April 2019
IDEQ SLCs = Idaho Department of Environmental Quality Screening Level Concentrations, August 2018

TABLE 4
Soil Sample Analytical Results - General Chemistry
Stockyards Property
701 Northgate Mile
Idaho Falls, Idaho

Sample ID	Date Sampled	Ammonia (as Nitrogen)	Nitrate (as Nitrogen)
CS-01-0-3	10/13/2019	**22.4**	**39.7**
CS-02-0-3	10/13/2019	**22.2**	**30 J-**
FD-X-0-3	10/13/2019	**35.8**	**31.1**
CS-03-0-3	10/14/2019	**19.5**	**18.6**
CS-04-0-3	10/13/2019	**18.2**	**34.1**
CS-05-0-3	10/14/2019	**20.7**	**37.4**
CS-06-0-3	10/15/2019	**8.69**	**44.2**
CS-07-0-3	10/15/2019	**17.1**	**35.5**
DP-01-0.5-3	10/15/2019	--	--
IDEQ SLC - Vapor Intrusion		NA	NA
IDEQ SLC - Direct Contact		NA	NA
IDEQ SLC - Groundwater Protection		NA	NA
EPA RSL - Residential		NA	130,000

Notes:
All results expressed as milligrams per kilogram
bold = indicates concentrations detected above method detection limits
highlighted yellow = indicates concentration exceeds one or more p
FD = field duplicate
NA = Not Available, no screening value is listed for this analyte.

J = The result is an estimated value; "-" indicates a potential low bias.

EPA RSLs = United States Environmental Protection Agency Regional Screer
IDEQ SLCs = Idaho Department of Environmental Quality Screening Level C

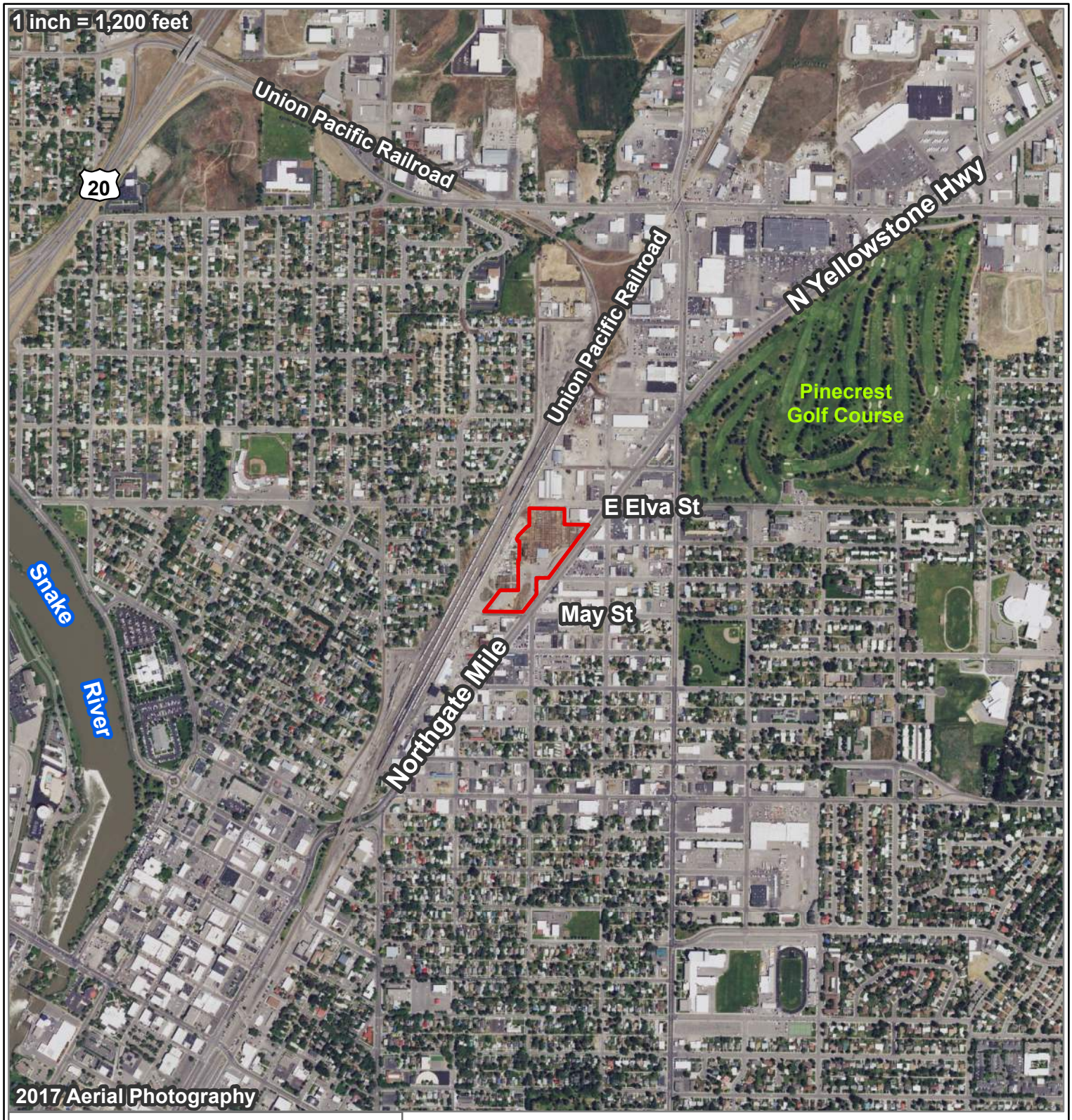
TABLE 5
Soil Gas Sample Analytical Results - Petroleum Hydrocarbons and Volatile Organic Compounds
Stockyards Property
701 Northgate Mile
Idaho Falls, Idaho

Sample ID	Date Sampled	Helium	Gasoline	1,2,4-Trimethylbenzene	1,3-Butadiene	2,2,4-Trimethyl-pentane	2-Butanone	4-Ethyltoluene	Acetone	Benzene	Bromodichloro-methane	Chloroform	Cyclohexane	Ethanol	Ethyl Benzene	Heptane	Hexane	m,p-Xylene	o-Xylene	Tetrachloro-ethene	Toluene	Total Xylenes
SG-01-4-5	10/14/2019	4.6%	**2000**	**12**	**41**	5.9 U	**28**	6.2 U	**110 J-**	**46**	8.4 U	**7.2**	**13**	**54 J-**	**9.3**	**26**	**38**	**40**	**14**	8.5 U	**80**	**54**
SG-V-4-5	10/14/2019	4.8%	**2000**	**9.6**	**36**	5.4 U	**25**	5.7 U	**110 J-**	**47**	7.8 U	**7.4**	**14**	**54 J-**	**8.7**	**26**	**38**	**42**	**10**	7.9 U	**82**	**52**
SG-02-3-4	10/14/2019	3.6%	**1400**	**12**	**13**	**40**	**16**	6.6 U	**82 J-**	**29**	**12**	**120**	**7.0**	**44 J-**	**11**	**17**	**25**	**36**	**11**	9.1 U	**95**	**47**
SG03-4-5	10/15/2019	10%	**1700 J**	**14 J**	**23 J**	5.6 UJ	**37 J**	**13 J**	**94 J**	**29 J**	8.0 UJ	**7.5 J**	**5.2 J**	**38 J-**	**14 J**	**18 J**	**21 J**	**61 J**	**18 J**	**63 J**	**100 J**	**79 J**
IDEQ SLC Vapor Intrusion - Unrestricted Use		NA	NA	NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	37	NA	NA	NA	NA	NA	170,000	3,500
IDEQ SLC Vapor Intrusion - Commercial/Industrial		NA	NA	NA	NA	NA	NA	NA	NA	53	NA	NA	NA	NA	163	NA	NA	NA	NA	NA	733,333	14,667
EPA RSL - Residential		NA	NA	2,100	3.1	NA	173,333	NA	1,066,667	12	2.5	4.0	210,000	NA	37	14,000	24,333	NA	3,333	367	173,333	3,333
EPA RSL - Composite Worker		NA	NA	8,667	14	NA	733,333	NA	4,666,667	53	11	18	866,667	NA	163	60,000	103,333	NA	14,667	1,567	733,333	14,667

Notes:
All results expressed as micrograms per cubic meter except helium
bold = indicates concentrations detected above method reporting limits
shaded gray = indicates concentration exceeds residential SCL and/or RSL
highlighted yellow = indicates concentration exceeds occupational SCL and/or RSL
NA = Not Available, no screening value is listed for this analyte

J = The result is an estimated value; "-" indicates a potential low bias
U = Not detected, the associated value is the method reporting limit
UJ = Not detected; the associated method reporting limit is approximate

EPA RSLs = United States Environmental Protection Agency Regional Screening Levels, April 2019. RSL values are divided by an attenuation factor of 0.03 to adjust for sub-slab and near-surface samples.



Approximate Site Boundary

0 600 1,200 2,400 3,600 4,800 Feet

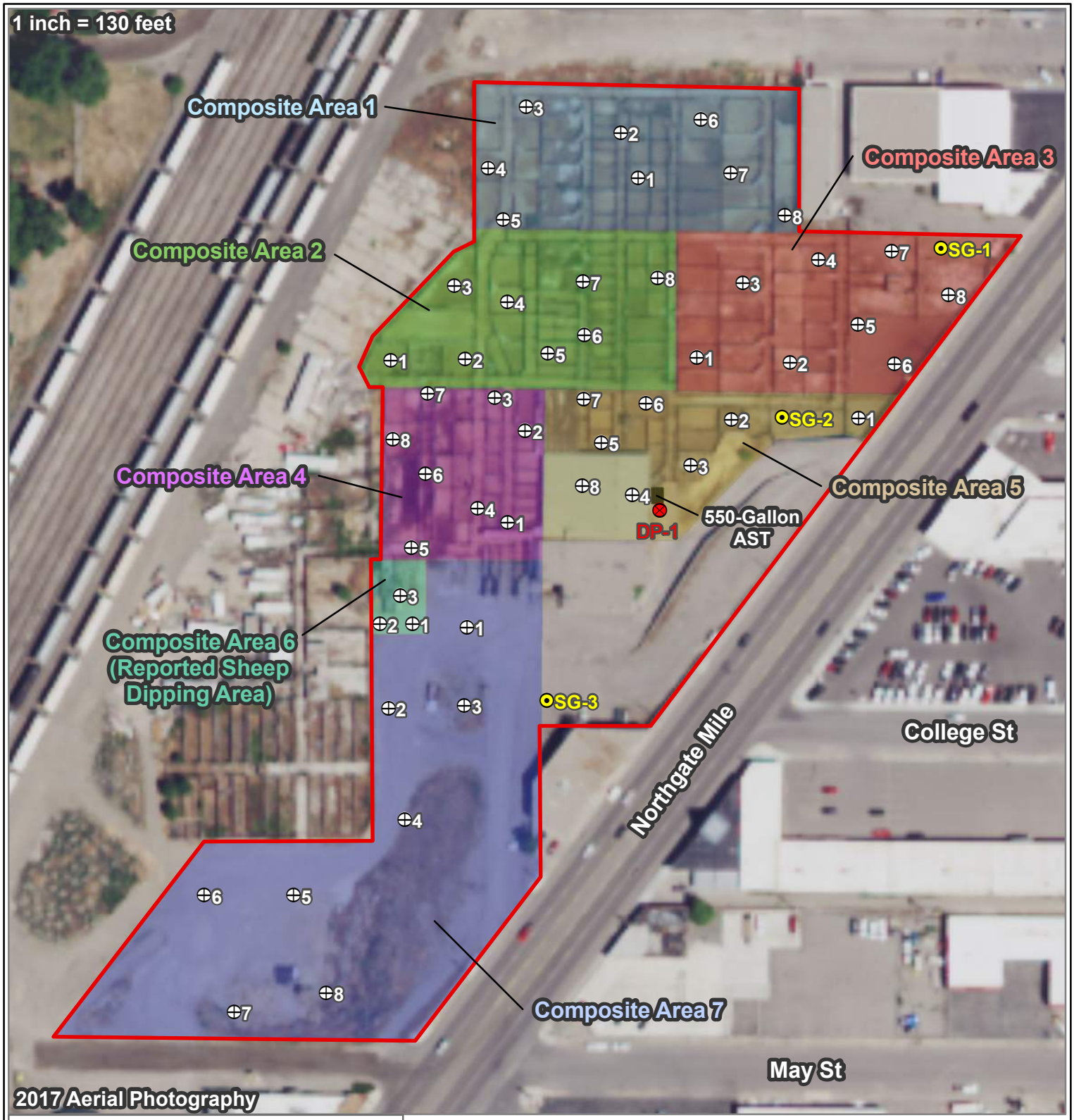
Figure 1: Site Location Map

701 Northgate Mile
Idaho Falls, Idaho

Rocky Mountain ENVIRONMENTAL ASSOCIATES, INC.

Idaho Falls Stockyards
Phase II ESA
Project Manager: John Rice

Date: 10/27/2019
Project #: 19-0152
Drawn by: CJ



Approximate Site Boundary

Soil Gas Sample Location

Composite Soil Sample Location

0 65 130 260 390 520 Feet

Figure 2: Sample Locations Map

701 Northgate Mile
Idaho Falls, Idaho

Rocky Mountain ENVIRONMENTAL ASSOCIATES, INC.

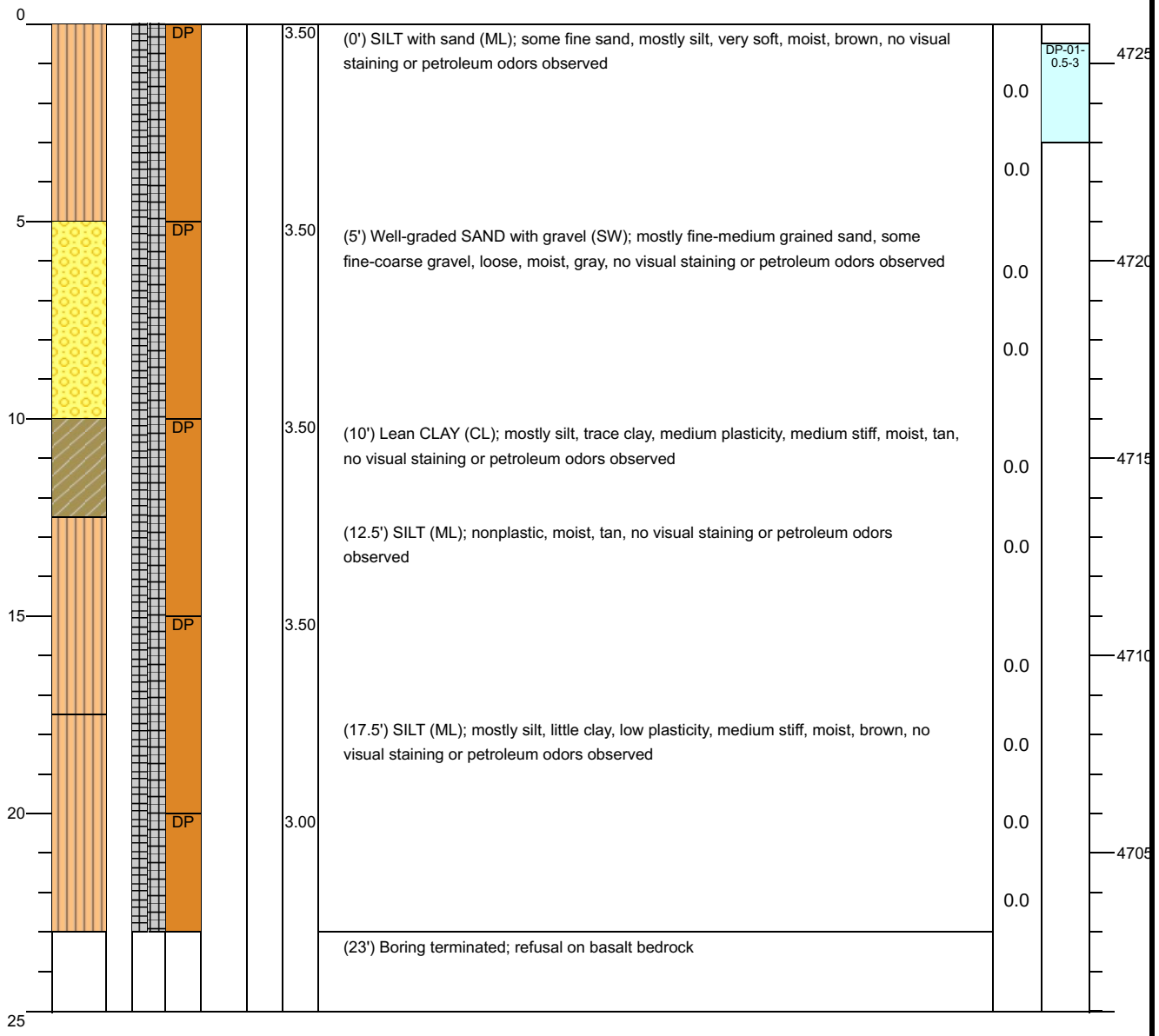
Idaho Falls Stockyards
Phase II ESA
Project Manager: John Rice

Date: 10/27/2019
Project #: 19-0152
Drawn by: CJ

Appendix A Boring Log – DP-1

Rocky Mountain ENVIRONMENTAL ASSOCIATES, INC.	Client: City of Idaho Falls	BORING LOG
	Project: Idaho Falls Stockyards	Boring No. DP-1
	Address: 701 Northgate Mile, Idaho Falls, ID	Page: 1 of 1

Drilling Start Date:	**10/15/2019 10:00**	Boring Depth (ft):	**23.0**
Drilling End Date:	**10/15/2019 10:30**	Boring Diameter (in):	**2.00**
Drilling Company:	**EarthProbe**	Sampling Method(s):	**Direct Push**
Drilling Method:	**Direct Push**	DTW During Drilling (ft):	**N/A**
Drilling Equipment:	**Geoprobe 6620DT**	DTW After Drilling (ft):	**N/A**
Driller:	**M. Taggart**	Ground Surface Elev. (ft):	**4,726.00**
Logged By:	**C. Jensen**	Location (Lat, Long):	**43.502815, -112.028121**



NOTES: DP = Direct Push

generated using LogitEasy.com

Appendix B Laboratory Reports and Chain-of-Custody Documentation

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 21, 2019

Stantec Consulting - Portland, OR

Sample Delivery Group:	L1149989
Samples Received:	10/15/2019
Project Number:	
Description:	Idaho Falls

Report To: Leonard Farr
9400 SW Barnes Rd., Suite 200
Portland, OR 97225

Entire Report Reviewed By:

Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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CS-01-0-3 L1149989-01 Solid

Collected by: Chad Jensen | Collected date/time: 10/13/19 16:40 | Received date/time: 10/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1364684	1	10/18/19 12:42	10/18/19 12:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1363934	1	10/16/19 16:48	10/17/19 12:05	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1363261	1	10/16/19 10:16	10/16/19 18:48	ST	Mt. Juliet, TN
Mercury by Method 7471B	WG1363559	1	10/15/19 22:11	10/16/19 11:11	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1363721	5	10/16/19 18:41	10/17/19 17:12	LD	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG1363534	1	10/16/19 07:23	10/16/19 15:05	LEL	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1363948	1	10/16/19 13:18	10/16/19 23:08	JNJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1364014	1	10/16/19 16:37	10/17/19 09:25	DMG	Mt. Juliet, TN

CS-02-0-3 L1149989-02 Solid

Collected by: Chad Jensen | Collected date/time: 10/13/19 15:05 | Received date/time: 10/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1364684	1	10/18/19 12:42	10/18/19 12:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1363934	1	10/16/19 16:48	10/17/19 12:06	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1363261	1	10/16/19 10:16	10/16/19 19:04	ST	Mt. Juliet, TN
Mercury by Method 7471B	WG1363559	1	10/15/19 22:11	10/16/19 10:33	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1363721	5	10/16/19 18:41	10/17/19 15:09	LD	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG1363534	1	10/16/19 07:23	10/16/19 15:20	LEL	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1363948	1	10/16/19 13:18	10/17/19 01:30	JNJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1364014	1	10/16/19 16:37	10/17/19 08:22	DMG	Mt. Juliet, TN

CS-03-0-3 L1149989-03 Solid

Collected by: Chad Jensen | Collected date/time: 10/14/19 12:00 | Received date/time: 10/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1364684	1	10/18/19 12:42	10/18/19 12:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1363934	1	10/16/19 16:48	10/17/19 12:09	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1363261	1	10/16/19 10:16	10/16/19 19:50	ST	Mt. Juliet, TN
Mercury by Method 7471B	WG1363559	1	10/15/19 22:11	10/16/19 11:14	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1363721	5	10/16/19 18:41	10/17/19 17:16	LD	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG1363534	1	10/16/19 07:23	10/16/19 16:04	LEL	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1363948	1	10/16/19 13:18	10/17/19 04:39	JNJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1364014	1	10/16/19 16:37	10/17/19 09:47	DMG	Mt. Juliet, TN

CS-04-0-3 L1149989-04 Solid

Collected by: Chad Jensen | Collected date/time: 10/13/19 13:05 | Received date/time: 10/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1364684	1	10/18/19 12:42	10/18/19 12:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1363934	1	10/16/19 16:48	10/17/19 12:10	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1363261	5	10/16/19 10:16	10/16/19 20:06	ST	Mt. Juliet, TN
Mercury by Method 7471B	WG1363559	1	10/15/19 22:11	10/16/19 11:21	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1363721	5	10/16/19 18:41	10/17/19 17:21	LD	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG1363534	1	10/16/19 07:23	10/16/19 16:19	LEL	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1363948	1	10/16/19 13:18	10/17/19 05:23	JNJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1364014	1	10/16/19 16:37	10/17/19 10:08	DMG	Mt. Juliet, TN

CS-05-0-3 L1149989-05 Solid

Collected by: Chad Jensen
Collected date/time: 10/14/19 14:45
Received date/time: 10/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1364684	1	10/18/19 12:42	10/18/19 12:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1363934	1	10/16/19 16:48	10/17/19 12:12	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1364094	1	10/16/19 18:45	10/16/19 23:12	LDC	Mt. Juliet, TN
Mercury by Method 7471B	WG1363559	1	10/15/19 22:11	10/16/19 11:24	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1363721	5	10/16/19 18:41	10/17/19 17:25	LD	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG1363534	1	10/16/19 07:23	10/16/19 16:34	LEL	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1363948	1	10/16/19 13:18	10/17/19 05:01	JNJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1364014	1	10/16/19 16:37	10/17/19 10:29	DMG	Mt. Juliet, TN

FD-X-0-3 L1149989-06 Solid

Collected by: Chad Jensen
Collected date/time: 10/13/19 00:00
Received date/time: 10/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1364684	1	10/18/19 12:42	10/18/19 12:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1363934	1	10/16/19 16:48	10/17/19 12:13	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1364094	1	10/16/19 18:45	10/16/19 23:28	LDC	Mt. Juliet, TN
Mercury by Method 7471B	WG1363559	1	10/15/19 22:11	10/16/19 11:26	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1363721	5	10/16/19 18:41	10/17/19 17:30	LD	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG1363534	1	10/16/19 07:23	10/16/19 16:49	LEL	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1363948	1	10/16/19 13:18	10/16/19 22:45	JNJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1364014	1	10/16/19 16:37	10/17/19 10:50	DMG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.4		1	10/18/2019 12:48	WG1364684

Wet Chemistry by Method 350.1

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Ammonia Nitrogen	22.4		1.80	5.72	1	10/17/2019 12:05	WG1363934

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Nitrate as (N)	39.7		0.0133	1.14	1	10/16/2019 18:48	WG1363261

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0116	J	0.00321	0.0343	1	10/16/2019 11:11	WG1363559

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.92		0.143	0.572	5	10/17/2019 17:12	WG1363721
Barium	136		0.183	1.14	5	10/17/2019 17:12	WG1363721
Cadmium	0.319	J	0.0916	0.572	5	10/17/2019 17:12	WG1363721
Chromium	12.7		0.309	1.14	5	10/17/2019 17:12	WG1363721
Lead	8.14		0.137	0.572	5	10/17/2019 17:12	WG1363721
Selenium	0.687		0.217	0.572	5	10/17/2019 17:12	WG1363721
Silver	U		0.177	0.572	5	10/17/2019 17:12	WG1363721

Pesticides (GC) by Method 8081B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00155	0.0229	1	10/16/2019 15:05	WG1363534
Alpha BHC	U		0.00156	0.0229	1	10/16/2019 15:05	WG1363534
Beta BHC	U		0.00183	0.0229	1	10/16/2019 15:05	WG1363534
Delta BHC	U		0.00164	0.0229	1	10/16/2019 15:05	WG1363534
Gamma BHC	U		0.00166	0.0229	1	10/16/2019 15:05	WG1363534
Chlordane	U		0.0446	0.229	1	10/16/2019 15:05	WG1363534
4,4-DDD	U		0.00179	0.0229	1	10/16/2019 15:05	WG1363534
4,4-DDE	U		0.00176	0.0229	1	10/16/2019 15:05	WG1363534
4,4-DDT	U		0.00229	0.0229	1	10/16/2019 15:05	WG1363534
Dieldrin	U		0.00174	0.0229	1	10/16/2019 15:05	WG1363534
Endosulfan I	U		0.00171	0.0229	1	10/16/2019 15:05	WG1363534
Endosulfan II	U		0.00183	0.0229	1	10/16/2019 15:05	WG1363534
Endosulfan sulfate	U		0.00173	0.0229	1	10/16/2019 15:05	WG1363534
Endrin	U		0.00180	0.0229	1	10/16/2019 15:05	WG1363534
Endrin aldehyde	U		0.00148	0.0229	1	10/16/2019 15:05	WG1363534
Endrin ketone	U		0.00189	0.0229	1	10/16/2019 15:05	WG1363534
Hexachlorobenzene	U		0.00142	0.0229	1	10/16/2019 15:05	WG1363534
Heptachlor	U		0.00176	0.0229	1	10/16/2019 15:05	WG1363534
Heptachlor epoxide	U		0.00184	0.0229	1	10/16/2019 15:05	WG1363534
Methoxychlor	U		0.00204	0.0229	1	10/16/2019 15:05	WG1363534
Toxaphene	U		0.0412	0.458	1	10/16/2019 15:05	WG1363534
(S) Decachlorobiphenyl	*90.9*			*10.0-135*		*10/16/2019 15:05*	WG1363534

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Tetrachloro-m-xylene	*93.4*			*10.0-139*		*10/16/2019 15:05*	WG1363534

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Pentachlorophenol	U		0.0549	0.381	1	10/16/2019 23:08	WG1363948
(S) 2-Fluorophenol	*87.3*			*12.0-120*		*10/16/2019 23:08*	WG1363948
(S) Phenol-d5	*73.4*			*10.0-120*		*10/16/2019 23:08*	WG1363948
(S) Nitrobenzene-d5	*70.3*			*10.0-122*		*10/16/2019 23:08*	WG1363948
(S) 2-Fluorobiphenyl	*72.8*			*15.0-120*		*10/16/2019 23:08*	WG1363948
(S) 2,4,6-Tribromophenol	*58.6*			*10.0-127*		*10/16/2019 23:08*	WG1363948
(S) p-Terphenyl-d14	*74.3*			*10.0-120*		*10/16/2019 23:08*	WG1363948

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Acenaphthene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Acenaphthylene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Benzo(a)anthracene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Benzo(a)pyrene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Benzo(b)fluoranthene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Benzo(g,h,i)perylene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Benzo(k)fluoranthene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Chrysene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Dibenz(a,h)anthracene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Fluoranthene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Fluorene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Indeno(1,2,3-cd)pyrene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Naphthalene	U		0.00229	0.0229	1	10/17/2019 09:25	WG1364014
Phenanthrene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
Pyrene	U		0.000687	0.00687	1	10/17/2019 09:25	WG1364014
1-Methylnaphthalene	U		0.00229	0.0229	1	10/17/2019 09:25	WG1364014
2-Methylnaphthalene	U		0.00229	0.0229	1	10/17/2019 09:25	WG1364014
2-Chloronaphthalene	U		0.00229	0.0229	1	10/17/2019 09:25	WG1364014
(S) Nitrobenzene-d5	*93.1*			*14.0-149*		*10/17/2019 09:25*	WG1364014
(S) 2-Fluorobiphenyl	*69.7*			*34.0-125*		*10/17/2019 09:25*	WG1364014
(S) p-Terphenyl-d14	*61.8*			*23.0-120*		*10/17/2019 09:25*	WG1364014

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	10/18/2019 12:48	WG1364684

Wet Chemistry by Method 350.1

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Ammonia Nitrogen	22.2		1.61	5.14	1	10/17/2019 12:06	WG1363934

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Nitrate as (N)	30.0	J6	0.0119	1.03	1	10/16/2019 19:04	WG1363261

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0104	J	0.00288	0.0308	1	10/16/2019 10:33	WG1363559

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.42		0.128	0.514	5	10/17/2019 15:09	WG1363721
Barium	87.2		0.164	1.03	5	10/17/2019 15:09	WG1363721
Cadmium	0.374	J O1	0.0822	0.514	5	10/17/2019 15:09	WG1363721
Chromium	11.0		0.278	1.03	5	10/17/2019 15:09	WG1363721
Lead	8.63	O1	0.123	0.514	5	10/17/2019 15:09	WG1363721
Selenium	0.594	O1	0.195	0.514	5	10/17/2019 15:09	WG1363721
Silver	U		0.159	0.514	5	10/17/2019 15:09	WG1363721

Pesticides (GC) by Method 8081B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00139	0.0206	1	10/16/2019 15:20	WG1363534
Alpha BHC	U		0.00140	0.0206	1	10/16/2019 15:20	WG1363534
Beta BHC	U		0.00164	0.0206	1	10/16/2019 15:20	WG1363534
Delta BHC	U		0.00147	0.0206	1	10/16/2019 15:20	WG1363534
Gamma BHC	U		0.00149	0.0206	1	10/16/2019 15:20	WG1363534
Chlordane	U		0.0401	0.206	1	10/16/2019 15:20	WG1363534
4,4-DDD	U		0.00160	0.0206	1	10/16/2019 15:20	WG1363534
4,4-DDE	U		0.00158	0.0206	1	10/16/2019 15:20	WG1363534
4,4-DDT	U		0.00206	0.0206	1	10/16/2019 15:20	WG1363534
Dieldrin	U		0.00156	0.0206	1	10/16/2019 15:20	WG1363534
Endosulfan I	U		0.00153	0.0206	1	10/16/2019 15:20	WG1363534
Endosulfan II	U		0.00164	0.0206	1	10/16/2019 15:20	WG1363534
Endosulfan sulfate	U		0.00155	0.0206	1	10/16/2019 15:20	WG1363534
Endrin	U		0.00161	0.0206	1	10/16/2019 15:20	WG1363534
Endrin aldehyde	U		0.00133	0.0206	1	10/16/2019 15:20	WG1363534
Endrin ketone	U		0.00170	0.0206	1	10/16/2019 15:20	WG1363534
Hexachlorobenzene	U		0.00127	0.0206	1	10/16/2019 15:20	WG1363534
Heptachlor	U		0.00158	0.0206	1	10/16/2019 15:20	WG1363534
Heptachlor epoxide	U		0.00165	0.0206	1	10/16/2019 15:20	WG1363534
Methoxychlor	U		0.00183	0.0206	1	10/16/2019 15:20	WG1363534
Toxaphene	U		0.0370	0.411	1	10/16/2019 15:20	WG1363534
(S) Decachlorobiphenyl	*90.1*			*10.0-135*		*10/16/2019 15:20*	WG1363534

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Tetrachloro-m-xylene	*91.8*			*10.0-139*		*10/16/2019 15:20*	WG1363534

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Pentachlorophenol	U		0.0493	0.342	1	10/17/2019 01:30	WG1363948
(S) 2-Fluorophenol	*108*			*12.0-120*		*10/17/2019 01:30*	WG1363948
(S) Phenol-d5	*91.3*			*10.0-120*		*10/17/2019 01:30*	WG1363948
(S) Nitrobenzene-d5	*84.7*			*10.0-122*		*10/17/2019 01:30*	WG1363948
(S) 2-Fluorobiphenyl	*83.8*			*15.0-120*		*10/17/2019 01:30*	WG1363948
(S) 2,4,6-Tribromophenol	*78.0*			*10.0-127*		*10/17/2019 01:30*	WG1363948
(S) p-Terphenyl-d14	*89.0*			*10.0-120*		*10/17/2019 01:30*	WG1363948

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Acenaphthene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Acenaphthylene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Benzo(a)anthracene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Benzo(a)pyrene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Benzo(b)fluoranthene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Benzo(g,h,i)perylene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Benzo(k)fluoranthene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Chrysene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Dibenz(a,h)anthracene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Fluoranthene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Fluorene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Indeno(1,2,3-cd)pyrene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Naphthalene	U		0.00206	0.0206	1	10/17/2019 08:22	WG1364014
Phenanthrene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
Pyrene	U		0.000617	0.00617	1	10/17/2019 08:22	WG1364014
1-Methylnaphthalene	U		0.00206	0.0206	1	10/17/2019 08:22	WG1364014
2-Methylnaphthalene	U		0.00206	0.0206	1	10/17/2019 08:22	WG1364014
2-Chloronaphthalene	U		0.00206	0.0206	1	10/17/2019 08:22	WG1364014
(S) Nitrobenzene-d5	*129*			*14.0-149*		*10/17/2019 08:22*	WG1364014
(S) 2-Fluorobiphenyl	*95.4*			*34.0-125*		*10/17/2019 08:22*	WG1364014
(S) p-Terphenyl-d14	*88.2*			*23.0-120*		*10/17/2019 08:22*	WG1364014

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.7		1	10/18/2019 12:48	WG1364684

Wet Chemistry by Method 350.1

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Ammonia Nitrogen	19.5		1.77	5.64	1	10/17/2019 12:09	WG1363934

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Nitrate as (N)	18.6		0.0131	1.13	1	10/16/2019 19:50	WG1363261

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0102	J	0.00316	0.0338	1	10/16/2019 11:14	WG1363559

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.11		0.141	0.564	5	10/17/2019 17:16	WG1363721
Barium	92.8		0.180	1.13	5	10/17/2019 17:16	WG1363721
Cadmium	0.275	J	0.0902	0.564	5	10/17/2019 17:16	WG1363721
Chromium	11.9		0.305	1.13	5	10/17/2019 17:16	WG1363721
Lead	9.28		0.135	0.564	5	10/17/2019 17:16	WG1363721
Selenium	0.630		0.214	0.564	5	10/17/2019 17:16	WG1363721
Silver	U		0.175	0.564	5	10/17/2019 17:16	WG1363721

Pesticides (GC) by Method 8081B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00152	0.0226	1	10/16/2019 16:04	WG1363534
Alpha BHC	U		0.00153	0.0226	1	10/16/2019 16:04	WG1363534
Beta BHC	U		0.00180	0.0226	1	10/16/2019 16:04	WG1363534
Delta BHC	U		0.00161	0.0226	1	10/16/2019 16:04	WG1363534
Gamma BHC	U		0.00164	0.0226	1	10/16/2019 16:04	WG1363534
Chlordane	U		0.0440	0.226	1	10/16/2019 16:04	WG1363534
4,4-DDD	U		0.00176	0.0226	1	10/16/2019 16:04	WG1363534
4,4-DDE	U		0.00174	0.0226	1	10/16/2019 16:04	WG1363534
4,4-DDT	U		0.00226	0.0226	1	10/16/2019 16:04	WG1363534
Dieldrin	U		0.00171	0.0226	1	10/16/2019 16:04	WG1363534
Endosulfan I	U		0.00168	0.0226	1	10/16/2019 16:04	WG1363534
Endosulfan II	U		0.00180	0.0226	1	10/16/2019 16:04	WG1363534
Endosulfan sulfate	U		0.00170	0.0226	1	10/16/2019 16:04	WG1363534
Endrin	U		0.00177	0.0226	1	10/16/2019 16:04	WG1363534
Endrin aldehyde	U		0.00146	0.0226	1	10/16/2019 16:04	WG1363534
Endrin ketone	U		0.00186	0.0226	1	10/16/2019 16:04	WG1363534
Hexachlorobenzene	U		0.00140	0.0226	1	10/16/2019 16:04	WG1363534
Heptachlor	U		0.00174	0.0226	1	10/16/2019 16:04	WG1363534
Heptachlor epoxide	U		0.00182	0.0226	1	10/16/2019 16:04	WG1363534
Methoxychlor	U		0.00201	0.0226	1	10/16/2019 16:04	WG1363534
Toxaphene	U		0.0406	0.451	1	10/16/2019 16:04	WG1363534
(S) Decachlorobiphenyl	*90.2*			*10.0-135*		*10/16/2019 16:04*	WG1363534

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Tetrachloro-m-xylene	*90.0*			*10.0-139*		*10/16/2019 16:04*	WG1363534

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Pentachlorophenol	U		0.0541	0.376	1	10/17/2019 04:39	WG1363948
(S) 2-Fluorophenol	*90.5*			*12.0-120*		*10/17/2019 04:39*	WG1363948
(S) Phenol-d5	*82.3*			*10.0-120*		*10/17/2019 04:39*	WG1363948
(S) Nitrobenzene-d5	*84.5*			*10.0-122*		*10/17/2019 04:39*	WG1363948
(S) 2-Fluorobiphenyl	*72.8*			*15.0-120*		*10/17/2019 04:39*	WG1363948
(S) 2,4,6-Tribromophenol	*95.9*			*10.0-127*		*10/17/2019 04:39*	WG1363948
(S) p-Terphenyl-d14	*85.4*			*10.0-120*		*10/17/2019 04:39*	WG1363948

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.000952	J	0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Acenaphthene	U		0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Acenaphthylene	U		0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Benzo(a)anthracene	0.00115	J	0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Benzo(a)pyrene	0.000722	J	0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Benzo(b)fluoranthene	0.00146	J	0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Benzo(g,h,i)perylene	0.000793	J	0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Benzo(k)fluoranthene	U		0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Chrysene	0.00168	J	0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Dibenz(a,h)anthracene	U		0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Fluoranthene	0.00327	J	0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Fluorene	U		0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Indeno(1,2,3-cd)pyrene	U		0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Naphthalene	0.00527	J	0.00226	0.0226	1	10/17/2019 09:47	WG1364014
Phenanthrene	0.00341	J	0.000677	0.00677	1	10/17/2019 09:47	WG1364014
Pyrene	0.00236	J	0.000677	0.00677	1	10/17/2019 09:47	WG1364014
1-Methylnaphthalene	0.00439	J	0.00226	0.0226	1	10/17/2019 09:47	WG1364014
2-Methylnaphthalene	0.00596	J	0.00226	0.0226	1	10/17/2019 09:47	WG1364014
2-Chloronaphthalene	U		0.00226	0.0226	1	10/17/2019 09:47	WG1364014
(S) Nitrobenzene-d5	*137*			*14.0-149*		*10/17/2019 09:47*	WG1364014
(S) 2-Fluorobiphenyl	*91.1*			*34.0-125*		*10/17/2019 09:47*	WG1364014
(S) p-Terphenyl-d14	*86.4*			*23.0-120*		*10/17/2019 09:47*	WG1364014

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	10/18/2019 12:48	WG1364684

Wet Chemistry by Method 350.1

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Ammonia Nitrogen	18.2		1.81	5.77	1	10/17/2019 12:10	WG1363934

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Nitrate as (N)	34.1		0.0670	5.77	5	10/16/2019 20:06	WG1363261

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0143	J	0.00323	0.0346	1	10/16/2019 11:21	WG1363559

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.64		0.144	0.577	5	10/17/2019 17:21	WG1363721
Barium	87.1		0.185	1.15	5	10/17/2019 17:21	WG1363721
Cadmium	0.277	J	0.0924	0.577	5	10/17/2019 17:21	WG1363721
Chromium	8.76		0.312	1.15	5	10/17/2019 17:21	WG1363721
Lead	16.3		0.139	0.577	5	10/17/2019 17:21	WG1363721
Selenium	0.410	J	0.219	0.577	5	10/17/2019 17:21	WG1363721
Silver	U		0.179	0.577	5	10/17/2019 17:21	WG1363721

Pesticides (GC) by Method 8081B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00156	0.0231	1	10/16/2019 16:19	WG1363534
Alpha BHC	U		0.00157	0.0231	1	10/16/2019 16:19	WG1363534
Beta BHC	U		0.00185	0.0231	1	10/16/2019 16:19	WG1363534
Delta BHC	U		0.00165	0.0231	1	10/16/2019 16:19	WG1363534
Gamma BHC	U		0.00167	0.0231	1	10/16/2019 16:19	WG1363534
Chlordane	U		0.0450	0.231	1	10/16/2019 16:19	WG1363534
4,4-DDD	U		0.00180	0.0231	1	10/16/2019 16:19	WG1363534
4,4-DDE	U		0.00178	0.0231	1	10/16/2019 16:19	WG1363534
4,4-DDT	U		0.00231	0.0231	1	10/16/2019 16:19	WG1363534
Dieldrin	U		0.00176	0.0231	1	10/16/2019 16:19	WG1363534
Endosulfan I	U		0.00172	0.0231	1	10/16/2019 16:19	WG1363534
Endosulfan II	U		0.00185	0.0231	1	10/16/2019 16:19	WG1363534
Endosulfan sulfate	U		0.00174	0.0231	1	10/16/2019 16:19	WG1363534
Endrin	U		0.00181	0.0231	1	10/16/2019 16:19	WG1363534
Endrin aldehyde	U		0.00149	0.0231	1	10/16/2019 16:19	WG1363534
Endrin ketone	U		0.00191	0.0231	1	10/16/2019 16:19	WG1363534
Hexachlorobenzene	U		0.00143	0.0231	1	10/16/2019 16:19	WG1363534
Heptachlor	U		0.00178	0.0231	1	10/16/2019 16:19	WG1363534
Heptachlor epoxide	U		0.00186	0.0231	1	10/16/2019 16:19	WG1363534
Methoxychlor	U		0.00206	0.0231	1	10/16/2019 16:19	WG1363534
Toxaphene	U		0.0416	0.462	1	10/16/2019 16:19	WG1363534
(S) Decachlorobiphenyl	*74.7*			*10.0-135*		*10/16/2019 16:19*	WG1363534

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Tetrachloro-m-xylene	*84.2*			*10.0-139*		*10/16/2019 16:19*	WG1363534

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Pentachlorophenol	U		0.0554	0.385	1	10/17/2019 05:23	WG1363948
(S) 2-Fluorophenol	*84.2*			*12.0-120*		*10/17/2019 05:23*	WG1363948
(S) Phenol-d5	*78.6*			*10.0-120*		*10/17/2019 05:23*	WG1363948
(S) Nitrobenzene-d5	*80.9*			*10.0-122*		*10/17/2019 05:23*	WG1363948
(S) 2-Fluorobiphenyl	*69.1*			*15.0-120*		*10/17/2019 05:23*	WG1363948
(S) 2,4,6-Tribromophenol	*91.1*			*10.0-127*		*10/17/2019 05:23*	WG1363948
(S) p-Terphenyl-d14	*78.8*			*10.0-120*		*10/17/2019 05:23*	WG1363948

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0107		0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Acenaphthene	0.00243	J	0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Acenaphthylene	U		0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Benzo(a)anthracene	0.0133		0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Benzo(a)pyrene	0.0115		0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Benzo(b)fluoranthene	0.0185		0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Benzo(g,h,i)perylene	0.00979		0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Benzo(k)fluoranthene	0.00486	J	0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Chrysene	0.0171		0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Dibenz(a,h)anthracene	0.00189	J	0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Fluoranthene	0.0461		0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Fluorene	0.00821		0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Indeno(1,2,3-cd)pyrene	0.00746		0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Naphthalene	0.0549		0.00231	0.0231	1	10/17/2019 10:08	WG1364014
Phenanthrene	0.0439		0.000693	0.00693	1	10/17/2019 10:08	WG1364014
Pyrene	0.0538		0.000693	0.00693	1	10/17/2019 10:08	WG1364014
1-Methylnaphthalene	0.0344		0.00231	0.0231	1	10/17/2019 10:08	WG1364014
2-Methylnaphthalene	0.0553		0.00231	0.0231	1	10/17/2019 10:08	WG1364014
2-Chloronaphthalene	U		0.00231	0.0231	1	10/17/2019 10:08	WG1364014
(S) Nitrobenzene-d5	*129*			*14.0-149*		*10/17/2019 10:08*	WG1364014
(S) 2-Fluorobiphenyl	*89.4*			*34.0-125*		*10/17/2019 10:08*	WG1364014
(S) p-Terphenyl-d14	*88.0*			*23.0-120*		*10/17/2019 10:08*	WG1364014

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.0		1	10/18/2019 12:48	WG1364684

Wet Chemistry by Method 350.1

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Ammonia Nitrogen	20.7		1.74	5.56	1	10/17/2019 12:12	WG1363934

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Nitrate as (N)	37.4		0.0129	1.11	1	10/16/2019 23:12	WG1364094

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0137	J	0.00311	0.0333	1	10/16/2019 11:24	WG1363559

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.43		0.139	0.556	5	10/17/2019 17:25	WG1363721
Barium	100		0.178	1.11	5	10/17/2019 17:25	WG1363721
Cadmium	0.306	J	0.0889	0.556	5	10/17/2019 17:25	WG1363721
Chromium	11.6		0.300	1.11	5	10/17/2019 17:25	WG1363721
Lead	11.4		0.133	0.556	5	10/17/2019 17:25	WG1363721
Selenium	0.621		0.211	0.556	5	10/17/2019 17:25	WG1363721
Silver	U		0.172	0.556	5	10/17/2019 17:25	WG1363721

Pesticides (GC) by Method 8081B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00150	0.0222	1	10/16/2019 16:34	WG1363534
Alpha BHC	U		0.00151	0.0222	1	10/16/2019 16:34	WG1363534
Beta BHC	U		0.00178	0.0222	1	10/16/2019 16:34	WG1363534
Delta BHC	U		0.00159	0.0222	1	10/16/2019 16:34	WG1363534
Gamma BHC	U		0.00161	0.0222	1	10/16/2019 16:34	WG1363534
Chlordane	U		0.0433	0.222	1	10/16/2019 16:34	WG1363534
4,4-DDD	U		0.00173	0.0222	1	10/16/2019 16:34	WG1363534
4,4-DDE	U		0.00171	0.0222	1	10/16/2019 16:34	WG1363534
4,4-DDT	U		0.00222	0.0222	1	10/16/2019 16:34	WG1363534
Dieldrin	U		0.00169	0.0222	1	10/16/2019 16:34	WG1363534
Endosulfan I	U		0.00166	0.0222	1	10/16/2019 16:34	WG1363534
Endosulfan II	U		0.00178	0.0222	1	10/16/2019 16:34	WG1363534
Endosulfan sulfate	U		0.00168	0.0222	1	10/16/2019 16:34	WG1363534
Endrin	U		0.00174	0.0222	1	10/16/2019 16:34	WG1363534
Endrin aldehyde	U		0.00143	0.0222	1	10/16/2019 16:34	WG1363534
Endrin ketone	U		0.00183	0.0222	1	10/16/2019 16:34	WG1363534
Hexachlorobenzene	U		0.00138	0.0222	1	10/16/2019 16:34	WG1363534
Heptachlor	U		0.00171	0.0222	1	10/16/2019 16:34	WG1363534
Heptachlor epoxide	U		0.00179	0.0222	1	10/16/2019 16:34	WG1363534
Methoxychlor	U		0.00198	0.0222	1	10/16/2019 16:34	WG1363534
Toxaphene	U		0.0400	0.444	1	10/16/2019 16:34	WG1363534
(S) Decachlorobiphenyl	*86.7*			*10.0-135*		*10/16/2019 16:34*	WG1363534

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Tetrachloro-m-xylene	*85.1*			*10.0-139*		*10/16/2019 16:34*	WG1363534

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Pentachlorophenol	U		0.0533	0.370	1	10/17/2019 05:01	WG1363948
(S) 2-Fluorophenol	*87.7*			*12.0-120*		*10/17/2019 05:01*	WG1363948
(S) Phenol-d5	*80.3*			*10.0-120*		*10/17/2019 05:01*	WG1363948
(S) Nitrobenzene-d5	*83.1*			*10.0-122*		*10/17/2019 05:01*	WG1363948
(S) 2-Fluorobiphenyl	*72.6*			*15.0-120*		*10/17/2019 05:01*	WG1363948
(S) 2,4,6-Tribromophenol	*98.4*			*10.0-127*		*10/17/2019 05:01*	WG1363948
(S) p-Terphenyl-d14	*84.7*			*10.0-120*		*10/17/2019 05:01*	WG1363948

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00219	J	0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Acenaphthene	U		0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Acenaphthylene	U		0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Benzo(a)anthracene	0.00527	J	0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Benzo(a)pyrene	0.00457	J	0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Benzo(b)fluoranthene	0.00765		0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Benzo(g,h,i)perylene	0.00341	J	0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Benzo(k)fluoranthene	0.00214	J	0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Chrysene	0.00683		0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Dibenz(a,h)anthracene	U		0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Fluoranthene	0.00620	J	0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Fluorene	U		0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Indeno(1,2,3-cd)pyrene	0.00336	J	0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Naphthalene	0.00917	J	0.00222	0.0222	1	10/17/2019 10:29	WG1364014
Phenanthrene	0.00652	J	0.000667	0.00667	1	10/17/2019 10:29	WG1364014
Pyrene	0.00528	J	0.000667	0.00667	1	10/17/2019 10:29	WG1364014
1-Methylnaphthalene	0.0129	J	0.00222	0.0222	1	10/17/2019 10:29	WG1364014
2-Methylnaphthalene	0.0134	J	0.00222	0.0222	1	10/17/2019 10:29	WG1364014
2-Chloronaphthalene	U		0.00222	0.0222	1	10/17/2019 10:29	WG1364014
(S) Nitrobenzene-d5	*123*			*14.0-149*		*10/17/2019 10:29*	WG1364014
(S) 2-Fluorobiphenyl	*82.9*			*34.0-125*		*10/17/2019 10:29*	WG1364014
(S) p-Terphenyl-d14	*74.3*			*23.0-120*		*10/17/2019 10:29*	WG1364014

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.4		1	10/18/2019 12:48	WG1364684

Wet Chemistry by Method 350.1

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Ammonia Nitrogen	35.8		1.80	5.72	1	10/17/2019 12:13	WG1363934

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Nitrate as (N)	31.1		0.0133	1.14	1	10/16/2019 23:28	WG1364094

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0155	J	0.00320	0.0343	1	10/16/2019 11:26	WG1363559

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.03		0.143	0.572	5	10/17/2019 17:30	WG1363721
Barium	129		0.183	1.14	5	10/17/2019 17:30	WG1363721
Cadmium	0.299	J	0.0916	0.572	5	10/17/2019 17:30	WG1363721
Chromium	11.7		0.309	1.14	5	10/17/2019 17:30	WG1363721
Lead	7.96		0.137	0.572	5	10/17/2019 17:30	WG1363721
Selenium	0.712		0.217	0.572	5	10/17/2019 17:30	WG1363721
Silver	U		0.177	0.572	5	10/17/2019 17:30	WG1363721

Pesticides (GC) by Method 8081B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00155	0.0229	1	10/16/2019 16:49	WG1363534
Alpha BHC	U		0.00156	0.0229	1	10/16/2019 16:49	WG1363534
Beta BHC	U		0.00183	0.0229	1	10/16/2019 16:49	WG1363534
Delta BHC	U		0.00164	0.0229	1	10/16/2019 16:49	WG1363534
Gamma BHC	U		0.00166	0.0229	1	10/16/2019 16:49	WG1363534
Chlordane	U		0.0446	0.229	1	10/16/2019 16:49	WG1363534
4,4-DDD	U		0.00179	0.0229	1	10/16/2019 16:49	WG1363534
4,4-DDE	U		0.00176	0.0229	1	10/16/2019 16:49	WG1363534
4,4-DDT	U		0.00229	0.0229	1	10/16/2019 16:49	WG1363534
Dieldrin	U		0.00174	0.0229	1	10/16/2019 16:49	WG1363534
Endosulfan I	U		0.00171	0.0229	1	10/16/2019 16:49	WG1363534
Endosulfan II	U		0.00183	0.0229	1	10/16/2019 16:49	WG1363534
Endosulfan sulfate	U		0.00173	0.0229	1	10/16/2019 16:49	WG1363534
Endrin	U		0.00180	0.0229	1	10/16/2019 16:49	WG1363534
Endrin aldehyde	U		0.00148	0.0229	1	10/16/2019 16:49	WG1363534
Endrin ketone	U		0.00189	0.0229	1	10/16/2019 16:49	WG1363534
Hexachlorobenzene	U		0.00142	0.0229	1	10/16/2019 16:49	WG1363534
Heptachlor	U		0.00176	0.0229	1	10/16/2019 16:49	WG1363534
Heptachlor epoxide	U		0.00184	0.0229	1	10/16/2019 16:49	WG1363534
Methoxychlor	U		0.00204	0.0229	1	10/16/2019 16:49	WG1363534
Toxaphene	U		0.0412	0.458	1	10/16/2019 16:49	WG1363534
(S) Decachlorobiphenyl	*94.3*			*10.0-135*		*10/16/2019 16:49*	WG1363534

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Tetrachloro-m-xylene	*94.5*			*10.0-139*		*10/16/2019 16:49*	WG1363534

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Pentachlorophenol	U		0.0549	0.381	1	10/16/2019 22:45	WG1363948
(S) 2-Fluorophenol	*95.2*			*12.0-120*		*10/16/2019 22:45*	WG1363948
(S) Phenol-d5	*79.5*			*10.0-120*		*10/16/2019 22:45*	WG1363948
(S) Nitrobenzene-d5	*73.7*			*10.0-122*		*10/16/2019 22:45*	WG1363948
(S) 2-Fluorobiphenyl	*76.2*			*15.0-120*		*10/16/2019 22:45*	WG1363948
(S) 2,4,6-Tribromophenol	*55.8*			*10.0-127*		*10/16/2019 22:45*	WG1363948
(S) p-Terphenyl-d14	*82.8*			*10.0-120*		*10/16/2019 22:45*	WG1363948

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Acenaphthene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Acenaphthylene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Benzo(a)anthracene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Benzo(a)pyrene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Benzo(b)fluoranthene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Benzo(g,h,i)perylene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Benzo(k)fluoranthene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Chrysene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Dibenz(a,h)anthracene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Fluoranthene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Fluorene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Indeno(1,2,3-cd)pyrene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Naphthalene	U		0.00229	0.0229	1	10/17/2019 10:50	WG1364014
Phenanthrene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
Pyrene	U		0.000687	0.00687	1	10/17/2019 10:50	WG1364014
1-Methylnaphthalene	U		0.00229	0.0229	1	10/17/2019 10:50	WG1364014
2-Methylnaphthalene	U		0.00229	0.0229	1	10/17/2019 10:50	WG1364014
2-Chloronaphthalene	U		0.00229	0.0229	1	10/17/2019 10:50	WG1364014
(S) Nitrobenzene-d5	*127*			*14.0-149*		*10/17/2019 10:50*	WG1364014
(S) 2-Fluorobiphenyl	*80.6*			*34.0-125*		*10/17/2019 10:50*	WG1364014
(S) p-Terphenyl-d14	*77.8*			*23.0-120*		*10/17/2019 10:50*	WG1364014

Method Blank (MB)

(MB) R3462632-1 10/18/19 12:48

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1150038-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1150038-01 10/18/19 12:48 • (DUP) R3462632-3 10/18/19 12:48

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.1	89.3	1	0.225		10

Laboratory Control Sample (LCS)

(LCS) R3462632-2 10/18/19 12:48

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3462021-1 10/17/19 11:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ammonia Nitrogen	U		1.57	5.00

L1148602-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1148602-02 10/17/19 11:56 • (DUP) R3462021-3 10/17/19 11:57

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	10.5	6.67	1	44.4	P1	20

L1149989-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1149989-04 10/17/19 12:10 • (DUP) R3462021-6 10/17/19 12:11

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	18.2	19.6	1	7.54		20

Laboratory Control Sample (LCS)

(LCS) R3462021-2 10/17/19 11:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	500	539	108	90.0-110	

L1149989-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149989-02 10/17/19 12:06 • (MS) R3462021-4 10/17/19 12:07 • (MSD) R3462021-5 10/17/19 12:08

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	514	22.2	509	529	94.7	98.7	1	80.0-120			3.90	20

L1150272-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150272-02 10/17/19 12:24 • (MS) R3462021-7 10/17/19 12:26 • (MSD) R3462021-8 10/17/19 12:27

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	500	15.7	483	479	93.5	92.7	1	80.0-120			0.781	20

Method Blank (MB)

(MB) R3461835-1 10/16/19 11:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Nitrate	U		0.0116	1.00

L1148806-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1148806-02 10/16/19 13:39 • (DUP) R3461835-3 10/16/19 13:55

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	ND	0.000	1	0.000		15

L1149414-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1149414-01 10/16/19 16:45 • (DUP) R3461835-4 10/16/19 17:00

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	15.2	12.1	1	22.7	J3	15

Laboratory Control Sample (LCS)

(LCS) R3461835-2 10/16/19 11:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate	20.0	20.0	99.8	80.0-120	

L1149989-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149989-02 10/16/19 19:04 • (MS) R3461835-5 10/16/19 19:19 • (MSD) R3461835-6 10/16/19 19:35

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate	51.4	30.0	74.5	70.7	86.6	79.3	1	80.0-120		J6	5.21	15

Method Blank (MB)

(MB) R3461940-1 10/16/19 20:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Nitrate	0.168	J	0.0116	1.00

L1149965-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1149965-02 10/16/19 22:06 • (DUP) R3461940-3 10/16/19 22:22

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	15.8	17.2	1	8.28		15

L1150123-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1150123-06 10/17/19 01:56 • (DUP) R3461940-4 10/17/19 02:12

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	ND	0.0896	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3461940-2 10/16/19 20:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate	20.0	20.5	103	80.0-120	

L1150272-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150272-02 10/17/19 04:24 • (MS) R3461940-5 10/17/19 04:40 • (MSD) R3461940-6 10/17/19 04:56

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate	50.0	32.6	92.2	88.9	119	113	1	80.0-120			3.59	15

Method Blank (MB)

(MB) R3461527-1 10/16/19 10:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.00280	0.0300

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3461527-2 10/16/19 10:27 • (LCSD) R3461527-3 10/16/19 10:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.507	0.499	101	99.9	80.0-120			1.53	20

L1149989-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149989-02 10/16/19 10:33 • (MS) R3461527-4 10/16/19 10:35 • (MSD) R3461527-5 10/16/19 10:38

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.514	0.0104	0.500	0.543	95.3	104	1	75.0-125			8.32	20

Method Blank (MB)

(MB) R3462222-1 10/17/19 14:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.125	0.500
Barium	U		0.160	1.00
Cadmium	U		0.0800	0.500
Chromium	U		0.270	1.00
Lead	U		0.120	0.500
Selenium	U		0.190	0.500
Silver	U		0.155	0.500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3462222-2 10/17/19 15:00 • (LCSD) R3462222-3 10/17/19 15:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	96.6	91.0	96.6	91.0	80.0-120			5.93	20
Barium	100	91.9	91.4	91.9	91.4	80.0-120			0.494	20
Cadmium	100	108	104	108	104	80.0-120			3.75	20
Chromium	100	105	98.4	105	98.4	80.0-120			6.31	20
Lead	100	101	98.9	101	98.9	80.0-120			2.33	20
Selenium	100	108	103	108	103	80.0-120			4.76	20
Silver	20.0	20.2	19.6	101	97.8	80.0-120			3.41	20

L1149989-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149989-02 10/17/19 15:09 • (MS) R3462222-6 10/17/19 15:22 • (MSD) R3462222-7 10/17/19 15:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	20.6	3.42	96.0	105	90.1	98.7	5	75.0-125			8.82	20
Barium	20.6	87.2	182	191	92.3	101	5	75.0-125			4.72	20
Cadmium	20.6	0.374	109	120	105	116	5	75.0-125			9.63	20
Chromium	20.6	11.0	112	120	98.7	106	5	75.0-125			6.78	20
Lead	20.6	8.63	107	121	96.1	109	5	75.0-125			11.5	20
Selenium	20.6	0.594	110	119	106	115	5	75.0-125			7.78	20
Silver	4.11	U	20.4	22.5	99.2	109	5	75.0-125			9.77	20

Method Blank (MB)

(MB) R3461602-1 10/16/19 12:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00135	0.0200
Alpha BHC	U		0.00136	0.0200
Beta BHC	U		0.00160	0.0200
Delta BHC	U		0.00143	0.0200
Gamma BHC	U		0.00145	0.0200
4,4-DDD	U		0.00156	0.0200
4,4-DDE	U		0.00154	0.0200
4,4-DDT	U		0.00200	0.0200
Dieldrin	U		0.00152	0.0200
Endosulfan I	U		0.00149	0.0200
Endosulfan II	U		0.00160	0.0200
Endosulfan sulfate	U		0.00151	0.0200
Endrin	U		0.00157	0.0200
Endrin aldehyde	U		0.00129	0.0200
Endrin ketone	U		0.00165	0.0200
Heptachlor	U		0.00154	0.0200
Heptachlor epoxide	U		0.00161	0.0200
Hexachlorobenzene	U		0.00124	0.0200
Methoxychlor	U		0.00178	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*94.4*			*10.0-135*
(S) Tetrachloro-m-xylene	*96.8*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3461602-2 10/16/19 13:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0699	105	34.0-136	
Alpha BHC	0.0666	0.0726	109	34.0-139	
Beta BHC	0.0666	0.0660	99.1	34.0-133	
Delta BHC	0.0666	0.0722	108	34.0-135	
Gamma BHC	0.0666	0.0705	106	34.0-136	
4,4-DDD	0.0666	0.0687	103	33.0-141	
4,4-DDE	0.0666	0.0788	118	34.0-134	
4,4-DDT	0.0666	0.0756	114	30.0-143	
Dieldrin	0.0666	0.0685	103	35.0-137	
Endosulfan I	0.0666	0.0646	97.0	34.0-134	

Laboratory Control Sample (LCS)

(LCS) R3461602-2 10/16/19 13:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0661	99.2	35.0-132	
Endosulfan sulfate	0.0666	0.0615	92.3	35.0-132	
Endrin	0.0666	0.0703	106	34.0-137	
Endrin aldehyde	0.0666	0.0562	84.4	23.0-121	
Endrin ketone	0.0666	0.0665	99.8	35.0-144	
Heptachlor	0.0666	0.0723	109	36.0-141	
Heptachlor epoxide	0.0666	0.0673	101	36.0-134	
Hexachlorobenzene	0.0666	0.0694	104	33.0-129	
Methoxychlor	0.0666	0.0693	104	28.0-150	
(S) Decachlorobiphenyl			*96.7*	*10.0-135*	
(S) Tetrachloro-m-xylene			*98.6*	*10.0-139*	

L1149989-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149989-02 10/16/19 15:20 • (MS) R3461602-3 10/16/19 15:35 • (MSD) R3461602-4 10/16/19 15:50

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0685	U	0.0707	0.0718	103	105	1	20.0-135			1.59	37
Alpha BHC	0.0685	U	0.0738	0.0749	108	109	1	27.0-140			1.52	35
Beta BHC	0.0685	U	0.0681	0.0693	99.5	101	1	23.0-141			1.65	37
Delta BHC	0.0685	U	0.0740	0.0751	108	110	1	21.0-138			1.52	35
Gamma BHC	0.0685	U	0.0729	0.0735	106	107	1	27.0-137			0.843	36
4,4-DDD	0.0685	U	0.0745	0.0760	109	111	1	15.0-152			1.91	39
4,4-DDE	0.0685	U	0.0806	0.0826	118	121	1	10.0-152			2.52	40
4,4-DDT	0.0685	U	0.0794	0.0809	116	118	1	10.0-151			1.79	40
Dieldrin	0.0685	U	0.0712	0.0726	104	106	1	17.0-145			1.86	37
Endosulfan I	0.0685	U	0.0661	0.0667	96.5	97.4	1	20.0-137			0.929	36
Endosulfan II	0.0685	U	0.0705	0.0717	103	105	1	15.0-141			1.73	37
Endosulfan sulfate	0.0685	U	0.0676	0.0687	98.8	100	1	15.0-143			1.51	38
Endrin	0.0685	U	0.0730	0.0742	107	108	1	19.0-143			1.68	37
Endrin aldehyde	0.0685	U	0.0708	0.0709	103	104	1	10.0-139			0.145	40
Endrin ketone	0.0685	U	0.0706	0.0718	103	105	1	17.0-149			1.73	38
Heptachlor	0.0685	U	0.0735	0.0746	107	109	1	22.0-138			1.53	37
Heptachlor epoxide	0.0685	U	0.0697	0.0710	102	104	1	22.0-138			1.90	36
Hexachlorobenzene	0.0685	U	0.0696	0.0707	102	103	1	25.0-126			1.61	35
Methoxychlor	0.0685	U	0.0841	0.0850	123	124	1	10.0-159			1.09	40
(S) Decachlorobiphenyl					*93.2*	*95.2*		*10.0-135*				
(S) Tetrachloro-m-xylene					*92.8*	*95.2*		*10.0-139*				

Method Blank (MB)

(MB) R3462101-2 10/16/19 22:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pentachlorophenol	U		0.0480	0.333
(S) Nitrobenzene-d5	*76.9*			*10.0-122*
(S) 2-Fluorobiphenyl	*82.3*			*15.0-120*
(S) p-Terphenyl-d14	*91.0*			*10.0-120*
(S) Phenol-d5	*79.0*			*10.0-120*
(S) 2-Fluorophenol	*96.5*			*12.0-120*
(S) 2,4,6-Tribromophenol	*55.9*			*10.0-127*

Laboratory Control Sample (LCS)

(LCS) R3462101-1 10/16/19 21:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Pentachlorophenol	0.666	0.466	70.0	29.0-120	
(S) Nitrobenzene-d5			*82.0*	*10.0-122*	
(S) 2-Fluorobiphenyl			*86.8*	*15.0-120*	
(S) p-Terphenyl-d14			*90.1*	*10.0-120*	
(S) Phenol-d5			*88.3*	*10.0-120*	
(S) 2-Fluorophenol			*105*	*12.0-120*	
(S) 2,4,6-Tribromophenol			*74.5*	*10.0-127*	

L1149989-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149989-02 10/17/19 01:30 • (MS) R3462101-3 10/17/19 01:53 • (MSD) R3462101-4 10/17/19 02:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Pentachlorophenol	0.674	U	0.426	0.465	63.1	69.3	1	10.0-160			8.78	31
(S) Nitrobenzene-d5					*64.9*	*71.2*		*10.0-122*				
(S) 2-Fluorobiphenyl					*64.3*	*70.6*		*15.0-120*				
(S) p-Terphenyl-d14					*71.6*	*76.1*		*10.0-120*				
(S) Phenol-d5					*72.7*	*77.6*		*10.0-120*				
(S) 2-Fluorophenol					*82.3*	*90.6*		*12.0-120*				
(S) 2,4,6-Tribromophenol					*67.2*	*74.5*		*10.0-127*				

Method Blank (MB)

(MB) R3462148-2 10/17/19 08:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	U		0.000600	0.00600
Benzo(g,h,i)perylene	U		0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	U		0.00200	0.0200
Phenanthrene	U		0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) Nitrobenzene-d5	*128*			*14.0-149*
(S) 2-Fluorobiphenyl	*91.6*			*34.0-125*
(S) p-Terphenyl-d14	*75.1*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3462148-1 10/17/19 07:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0692	86.5	50.0-126	
Acenaphthene	0.0800	0.0734	91.8	50.0-120	
Acenaphthylene	0.0800	0.0753	94.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0687	85.9	45.0-120	
Benzo(a)pyrene	0.0800	0.0610	76.3	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0595	74.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0598	74.8	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0712	89.0	49.0-125	
Chrysene	0.0800	0.0714	89.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0610	76.3	47.0-125	
Fluoranthene	0.0800	0.0778	97.3	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3462148-1 10/17/19 07:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0682	85.3	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0622	77.8	46.0-125	
Naphthalene	0.0800	0.0753	94.1	50.0-120	
Phenanthrene	0.0800	0.0689	86.1	47.0-120	
Pyrene	0.0800	0.0639	79.9	43.0-123	
1-Methylnaphthalene	0.0800	0.0814	102	51.0-121	
2-Methylnaphthalene	0.0800	0.0778	97.3	50.0-120	
2-Chloronaphthalene	0.0800	0.0672	84.0	50.0-120	
(S) Nitrobenzene-d5			*138*	*14.0-149*	
(S) 2-Fluorobiphenyl			*89.0*	*34.0-125*	
(S) p-Terphenyl-d14			*76.4*	*23.0-120*	

L1149989-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149989-02 10/17/19 08:22 • (MS) R3462148-3 10/17/19 08:43 • (MSD) R3462148-4 10/17/19 09:04

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0793	U	0.0694	0.0693	87.4	88.2	1	10.0-145			0.148	30
Acenaphthene	0.0793	U	0.0710	0.0759	89.5	96.6	1	14.0-127			6.58	27
Acenaphthylene	0.0793	U	0.0745	0.0776	93.9	98.8	1	21.0-124			4.05	25
Benzo(a)anthracene	0.0793	U	0.0693	0.0747	87.3	95.2	1	10.0-139			7.57	30
Benzo(a)pyrene	0.0793	U	0.0644	0.0702	81.2	89.4	1	10.0-141			8.55	31
Benzo(b)fluoranthene	0.0793	U	0.0596	0.0655	75.1	83.4	1	10.0-140			9.37	36
Benzo(g,h,i)perylene	0.0793	U	0.0584	0.0560	73.6	71.3	1	10.0-140			4.13	33
Benzo(k)fluoranthene	0.0793	U	0.0655	0.0723	82.5	92.0	1	10.0-137			9.85	31
Chrysene	0.0793	U	0.0669	0.0707	84.3	90.1	1	10.0-145			5.53	30
Dibenz(a,h)anthracene	0.0793	U	0.0605	0.0623	76.3	79.3	1	10.0-132			2.85	31
Fluoranthene	0.0793	U	0.0802	0.0874	101	111	1	10.0-153			8.59	33
Fluorene	0.0793	U	0.0696	0.0770	87.7	98.0	1	11.0-130			10.1	29
Indeno(1,2,3-cd)pyrene	0.0793	U	0.0602	0.0624	75.9	79.5	1	10.0-137			3.52	32
Naphthalene	0.0793	U	0.0734	0.0770	92.5	98.0	1	10.0-135			4.78	27
Phenanthrene	0.0793	U	0.0709	0.0700	89.4	89.1	1	10.0-144			1.31	31
Pyrene	0.0793	U	0.0662	0.0765	83.4	97.4	1	10.0-148			14.4	35
1-Methylnaphthalene	0.0793	U	0.0812	0.0788	102	100	1	10.0-142			2.95	28
2-Methylnaphthalene	0.0793	U	0.0771	0.0746	97.2	95.0	1	10.0-137			3.25	28
2-Chloronaphthalene	0.0793	U	0.0692	0.0713	87.2	90.8	1	29.0-120			3.07	24
(S) Nitrobenzene-d5					*129*	*136*		*14.0-149*				
(S) 2-Fluorobiphenyl					*86.7*	*98.9*		*34.0-125*				
(S) p-Terphenyl-d14					*73.2*	*88.8*		*23.0-120*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
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Mississippi	TN00003	West Virginia	233
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A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Stantec Consulting - Portland, OR

9400 SW Barnes Rd., Suite 200
Portland, OR 97225

Billing Information:
Accounts Payable
9400 SW Barnes Rd., Suite 200
Portland, OR 97225

Pres Chk

Report to: Leonard Farr

Email To: leonard.farr@stantec.com; robert.mcalister@stantec.com

Project Description: Idaho Falls

City/State Collected:

Please Circle: PT MT CT ET

Phone: 503-297-1631
Fax: 503-297-5429

Client Project #

Lab Project # SECORTOR-IDAHOFALLS

Collected by (print): Chad Jensen

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
X Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1149989

C035

Acctnum: SECORTOR
Template: T157081
Prelogin: P734493
PM: 546 - Jared Starkey
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NH3 Ammonia 8ozClr-NoPres	Nitrate 8ozClr-NoPres	PCP (SV8270ACID) 4ozClr-NoPres	Pest 8081 4ozClr-NoPres	RCRA Metals 6020 2ozClr-NoPres	SV8270PAHSIMD 4ozClr-NoPres	TPH d/o 4ozClr-NoPres	TPH g GRO 40mlAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres	Remarks	Sample # (lab only)
CS-01-0-3	Comp	SS	upper 18"	10/13/19	16:40	4	X	X	X	X	X	X			X		-01
CS-02-0-3	↓	SS	↓	10/13/19	15:05	4	X	X	X	X	X	X			X		02
CS-03-0-3		SS		10/14/19	12:00	4	X	X	X	X	X	X			X		03
CS-04-0-3		SS		10/13/19	13:05	4	X	X	X	X	X	X			✓		04
CS-05-0-3		SS		10/14/19	14:45	4	X	X	X	X	✓	X			✓		05
FD-X-0-3		SS		10/13/19		4	X	X	X	X	X	X			X		06
		SS															
		SS															
		SS															
		SS															

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # FedEx 1145 2230 9665

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		✓ N
Bottles arrive intact:		✓ N
Correct bottles used:		✓ N
Sufficient volume sent:		✓ N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		✓ N
RAD Screen <0.5 mR/hr:		✓ N

	Date:	Time:		
Relinquished by : (Signature)	10/14/19	16:30	Received by: (Signature)	Trip Blank Received: Yes (No) HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.5 °C Bottles Received: 24
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/15/19 Time: 9:30

0.3+1=0.3

If preservation required by Login: Date/Time

Hold:

Conditions: NCF / OK

Pace Analytical®
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ANALYTICAL REPORT

October 21, 2019

Stantec Consulting - Portland, OR

Sample Delivery Group:	L1150272
Samples Received:	10/16/2019
Project Number:	
Description:	Idaho Falls

Report To: Leonard Farr
9400 SW Barnes Rd., Suite 200
Portland, OR 97225

Entire Report Reviewed By:

Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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CS-06-0-3 L1150272-01 Solid

Collected by: Chad Jensen | Collected date/time: 10/15/19 11:20 | Received date/time: 10/16/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1365632	1	10/19/19 13:00	10/19/19 13:11	KDW	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1363934	1	10/16/19 16:48	10/17/19 12:23	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1364094	1	10/16/19 18:45	10/17/19 04:07	LDC	Mt. Juliet, TN
Mercury by Method 7471B	WG1364226	1	10/16/19 18:37	10/16/19 22:32	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1364412	5	10/17/19 17:57	10/18/19 16:47	JPD	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG1364783	1	10/17/19 17:34	10/19/19 09:20	LEL	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1364733	1	10/17/19 19:09	10/18/19 22:35	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1364795	1	10/17/19 18:56	10/18/19 16:54	DMM	Mt. Juliet, TN

CS-07-0-3 MS/MSD L1150272-02 Solid

Collected by: Chad Jensen | Collected date/time: 10/15/19 12:30 | Received date/time: 10/16/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1365633	1	10/19/19 12:46	10/19/19 12:56	KDW	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1363934	1	10/16/19 16:48	10/17/19 12:24	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1364094	1	10/16/19 18:45	10/17/19 04:24	LDC	Mt. Juliet, TN
Mercury by Method 7471B	WG1364226	1	10/16/19 18:37	10/16/19 21:30	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1364412	5	10/17/19 17:57	10/18/19 15:11	JPD	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG1364783	1	10/17/19 17:34	10/21/19 15:51	LEL	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1364733	1	10/17/19 19:09	10/18/19 21:27	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1364795	1	10/17/19 18:56	10/18/19 17:16	DMM	Mt. Juliet, TN

DP-01-0.5-3 L1150272-03 Solid

Collected by: Chad Jensen | Collected date/time: 10/15/19 10:30 | Received date/time: 10/16/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1365633	1	10/19/19 12:46	10/19/19 12:56	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1366699	25	10/15/19 10:30	10/21/19 15:28	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1364757	1	10/17/19 17:28	10/18/19 08:19	JDG	Mt. Juliet, TN

EB01-150CT19 L1150272-04 GW

Collected by: Chad Jensen | Collected date/time: 10/15/19 12:00 | Received date/time: 10/16/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG1363518	1	10/16/19 16:08	10/16/19 16:08	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1363767	1	10/16/19 14:37	10/16/19 14:37	LDC	Mt. Juliet, TN
Mercury by Method 7470A	WG1363969	1	10/16/19 16:14	10/17/19 17:46	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1364194	1	10/17/19 08:07	10/17/19 13:35	JPD	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1364295	1	10/17/19 16:23	10/18/19 08:42	RP	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1365712	1	10/19/19 15:27	10/20/19 13:08	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1364011	1	10/16/19 21:39	10/17/19 16:21	LEA	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	10/19/2019 13:11	WG1365632

Wet Chemistry by Method 350.1

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Ammonia Nitrogen	8.69		1.72	5.49	1	10/17/2019 12:23	WG1363934

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Nitrate as (N)	44.2		0.0127	1.10	1	10/17/2019 04:07	WG1364094

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0212	J	0.00307	0.0329	1	10/16/2019 22:32	WG1364226

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.87		0.137	0.549	5	10/18/2019 16:47	WG1364412
Barium	120		0.176	1.10	5	10/18/2019 16:47	WG1364412
Cadmium	0.412	J	0.0878	0.549	5	10/18/2019 16:47	WG1364412
Chromium	10.2		0.296	1.10	5	10/18/2019 16:47	WG1364412
Lead	18.9		0.132	0.549	5	10/18/2019 16:47	WG1364412
Selenium	0.309	J	0.209	0.549	5	10/18/2019 16:47	WG1364412
Silver	U		0.170	0.549	5	10/18/2019 16:47	WG1364412

Pesticides (GC) by Method 8081B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00148	0.0220	1	10/19/2019 09:20	WG1364783
Alpha BHC	U		0.00149	0.0220	1	10/19/2019 09:20	WG1364783
Beta BHC	U		0.00176	0.0220	1	10/19/2019 09:20	WG1364783
Delta BHC	U		0.00157	0.0220	1	10/19/2019 09:20	WG1364783
Gamma BHC	U		0.00159	0.0220	1	10/19/2019 09:20	WG1364783
Chlordane	U		0.0428	0.220	1	10/19/2019 09:20	WG1364783
4,4-DDD	U		0.00171	0.0220	1	10/19/2019 09:20	WG1364783
4,4-DDE	U		0.00169	0.0220	1	10/19/2019 09:20	WG1364783
4,4-DDT	U		0.00220	0.0220	1	10/19/2019 09:20	WG1364783
Dieldrin	U		0.00167	0.0220	1	10/19/2019 09:20	WG1364783
Endosulfan I	U		0.00164	0.0220	1	10/19/2019 09:20	WG1364783
Endosulfan II	U		0.00176	0.0220	1	10/19/2019 09:20	WG1364783
Endosulfan sulfate	U		0.00166	0.0220	1	10/19/2019 09:20	WG1364783
Endrin	U		0.00172	0.0220	1	10/19/2019 09:20	WG1364783
Endrin aldehyde	U		0.00142	0.0220	1	10/19/2019 09:20	WG1364783
Endrin ketone	U		0.00181	0.0220	1	10/19/2019 09:20	WG1364783
Hexachlorobenzene	U		0.00136	0.0220	1	10/19/2019 09:20	WG1364783
Heptachlor	U		0.00169	0.0220	1	10/19/2019 09:20	WG1364783
Heptachlor epoxide	U		0.00177	0.0220	1	10/19/2019 09:20	WG1364783
Methoxychlor	U		0.00195	0.0220	1	10/19/2019 09:20	WG1364783
Toxaphene	U		0.0395	0.439	1	10/19/2019 09:20	WG1364783
(S) Decachlorobiphenyl	*67.5*			*10.0-135*		*10/19/2019 09:20*	WG1364783

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Tetrachloro-m-xylene	*64.2*			*10.0-139*		*10/19/2019 09:20*	WG1364783

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Pentachlorophenol	U		0.0527	0.365	1	10/18/2019 22:35	WG1364733
(S) 2-Fluorophenol	*75.2*			*12.0-120*		*10/18/2019 22:35*	WG1364733
(S) Phenol-d5	*68.1*			*10.0-120*		*10/18/2019 22:35*	WG1364733
(S) Nitrobenzene-d5	*62.5*			*10.0-122*		*10/18/2019 22:35*	WG1364733
(S) 2-Fluorobiphenyl	*63.4*			*15.0-120*		*10/18/2019 22:35*	WG1364733
(S) 2,4,6-Tribromophenol	*82.6*			*10.0-127*		*10/18/2019 22:35*	WG1364733
(S) p-Terphenyl-d14	*78.0*			*10.0-120*		*10/18/2019 22:35*	WG1364733

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00347	J	0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Acenaphthene	U		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Acenaphthylene	U		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Benzo(a)anthracene	0.00940		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Benzo(a)pyrene	0.0124		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Benzo(b)fluoranthene	0.0223		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Benzo(g,h,i)perylene	0.0130		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Benzo(k)fluoranthene	0.00711		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Chrysene	0.0154		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Dibenz(a,h)anthracene	U		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Fluoranthene	0.0139		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Fluorene	U		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Indeno(1,2,3-cd)pyrene	0.00940		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Naphthalene	0.00795	J	0.00220	0.0220	1	10/18/2019 16:54	WG1364795
Phenanthrene	0.00904		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
Pyrene	0.0135		0.000659	0.00659	1	10/18/2019 16:54	WG1364795
1-Methylnaphthalene	0.00938	J	0.00220	0.0220	1	10/18/2019 16:54	WG1364795
2-Methylnaphthalene	0.0120	J	0.00220	0.0220	1	10/18/2019 16:54	WG1364795
2-Chloronaphthalene	U		0.00220	0.0220	1	10/18/2019 16:54	WG1364795
(S) Nitrobenzene-d5	*84.7*			*14.0-149*		*10/18/2019 16:54*	WG1364795
(S) 2-Fluorobiphenyl	*85.7*			*34.0-125*		*10/18/2019 16:54*	WG1364795
(S) p-Terphenyl-d14	*84.7*			*23.0-120*		*10/18/2019 16:54*	WG1364795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.9		1	10/19/2019 12:56	WG1365633

Wet Chemistry by Method 350.1

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Ammonia Nitrogen	17.1		1.71	5.44	1	10/17/2019 12:24	WG1363934

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Nitrate as (N)	35.5		0.0126	1.09	1	10/17/2019 04:24	WG1364094

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0151	J	0.00305	0.0326	1	10/16/2019 21:30	WG1364226

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.39		0.136	0.544	5	10/18/2019 15:11	WG1364412
Barium	112		0.174	1.09	5	10/18/2019 15:11	WG1364412
Cadmium	0.308	J	0.0870	0.544	5	10/18/2019 15:11	WG1364412
Chromium	12.1		0.294	1.09	5	10/18/2019 15:11	WG1364412
Lead	22.3		0.131	0.544	5	10/18/2019 15:11	WG1364412
Selenium	0.306	J	0.207	0.544	5	10/18/2019 15:11	WG1364412
Silver	U		0.169	0.544	5	10/18/2019 15:11	WG1364412

Pesticides (GC) by Method 8081B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00147	0.0218	1	10/21/2019 15:51	WG1364783
Alpha BHC	U		0.00148	0.0218	1	10/21/2019 15:51	WG1364783
Beta BHC	U		0.00174	0.0218	1	10/21/2019 15:51	WG1364783
Delta BHC	U		0.00156	0.0218	1	10/21/2019 15:51	WG1364783
Gamma BHC	U		0.00158	0.0218	1	10/21/2019 15:51	WG1364783
Chlordane	U		0.0424	0.218	1	10/21/2019 15:51	WG1364783
4,4-DDD	U		0.00170	0.0218	1	10/21/2019 15:51	WG1364783
4,4-DDE	U		0.00168	0.0218	1	10/21/2019 15:51	WG1364783
4,4-DDT	U		0.00218	0.0218	1	10/21/2019 15:51	WG1364783
Dieldrin	U		0.00165	0.0218	1	10/21/2019 15:51	WG1364783
Endosulfan I	U		0.00162	0.0218	1	10/21/2019 15:51	WG1364783
Endosulfan II	U		0.00174	0.0218	1	10/21/2019 15:51	WG1364783
Endosulfan sulfate	U		0.00164	0.0218	1	10/21/2019 15:51	WG1364783
Endrin	U		0.00171	0.0218	1	10/21/2019 15:51	WG1364783
Endrin aldehyde	U		0.00140	0.0218	1	10/21/2019 15:51	WG1364783
Endrin ketone	U		0.00179	0.0218	1	10/21/2019 15:51	WG1364783
Hexachlorobenzene	U		0.00135	0.0218	1	10/21/2019 15:51	WG1364783
Heptachlor	U		0.00168	0.0218	1	10/21/2019 15:51	WG1364783
Heptachlor epoxide	U		0.00175	0.0218	1	10/21/2019 15:51	WG1364783
Methoxychlor	U		0.00194	0.0218	1	10/21/2019 15:51	WG1364783
Toxaphene	U		0.0392	0.435	1	10/21/2019 15:51	WG1364783
(S) Decachlorobiphenyl	*55.4*			*10.0-135*		*10/21/2019 15:51*	WG1364783

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Tetrachloro-m-xylene	*56.3*			*10.0-139*		*10/21/2019 15:51*	WG1364783

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Pentachlorophenol	U		0.0522	0.362	1	10/18/2019 21:27	WG1364733
(S) 2-Fluorophenol	*78.7*			*12.0-120*		*10/18/2019 21:27*	WG1364733
(S) Phenol-d5	*70.5*			*10.0-120*		*10/18/2019 21:27*	WG1364733
(S) Nitrobenzene-d5	*66.2*			*10.0-122*		*10/18/2019 21:27*	WG1364733
(S) 2-Fluorobiphenyl	*65.0*			*15.0-120*		*10/18/2019 21:27*	WG1364733
(S) 2,4,6-Tribromophenol	*75.9*			*10.0-127*		*10/18/2019 21:27*	WG1364733
(S) p-Terphenyl-d14	*73.5*			*10.0-120*		*10/18/2019 21:27*	WG1364733

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.000856	J	0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Acenaphthene	U		0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Acenaphthylene	U		0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Benzo(a)anthracene	0.00215	J	0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Benzo(a)pyrene	0.00193	J	0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Benzo(b)fluoranthene	0.00413	J	0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Benzo(g,h,i)perylene	0.00283	J	0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Benzo(k)fluoranthene	0.00124	J	0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Chrysene	0.00371	J	0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Dibenz(a,h)anthracene	U		0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Fluoranthene	0.00397	J	0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Fluorene	U		0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Indeno(1,2,3-cd)pyrene	0.00212	J	0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Naphthalene	0.00395	J	0.00218	0.0218	1	10/18/2019 17:16	WG1364795
Phenanthrene	0.00374	J	0.000653	0.00653	1	10/18/2019 17:16	WG1364795
Pyrene	0.00351	J	0.000653	0.00653	1	10/18/2019 17:16	WG1364795
1-Methylnaphthalene	0.00460	J	0.00218	0.0218	1	10/18/2019 17:16	WG1364795
2-Methylnaphthalene	0.00538	J	0.00218	0.0218	1	10/18/2019 17:16	WG1364795
2-Chloronaphthalene	U		0.00218	0.0218	1	10/18/2019 17:16	WG1364795
(S) Nitrobenzene-d5	*81.2*			*14.0-149*		*10/18/2019 17:16*	WG1364795
(S) 2-Fluorobiphenyl	*77.5*			*34.0-125*		*10/18/2019 17:16*	WG1364795
(S) p-Terphenyl-d14	*76.3*			*23.0-120*		*10/18/2019 17:16*	WG1364795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.0		1	10/19/2019 12:56	WG1365633

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.876	B J	0.624	2.87	25	10/21/2019 15:28	WG1366699
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*77.0-120*		*10/21/2019 15:28*	WG1366699

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	1.59	J	1.53	4.60	1	10/18/2019 08:19	WG1364757
Residual Range Organics (RRO)	U		3.83	11.5	1	10/18/2019 08:19	WG1364757
(S) o-Terphenyl	*72.9*			*18.0-148*		*10/18/2019 08:19*	WG1364757

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ammonia Nitrogen	U		31.7	100	1	10/16/2019 16:08	WG1363518

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate as (N)	U		22.7	100	1	10/16/2019 14:37	WG1363767

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0490	0.200	1	10/17/2019 17:46	WG1363969

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	U		0.250	2.00	1	10/17/2019 13:35	WG1364194
Barium	0.479	J	0.360	5.00	1	10/17/2019 13:35	WG1364194
Cadmium	U		0.160	1.00	1	10/17/2019 13:35	WG1364194
Chromium	1.54	B J	0.540	2.00	1	10/17/2019 13:35	WG1364194
Lead	U		0.240	2.00	1	10/17/2019 13:35	WG1364194
Selenium	U		0.380	2.00	1	10/17/2019 13:35	WG1364194
Silver	U		0.310	2.00	1	10/17/2019 13:35	WG1364194

Pesticides (GC) by Method 8081

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aldrin	U	J3	0.00813	0.0500	1	10/18/2019 08:42	WG1364295
Alpha BHC	U	J3	0.0166	0.0500	1	10/18/2019 08:42	WG1364295
Beta BHC	U		0.0184	0.0500	1	10/18/2019 08:42	WG1364295
Delta BHC	U		0.0197	0.0500	1	10/18/2019 08:42	WG1364295
Gamma BHC	U	J3	0.0176	0.0500	1	10/18/2019 08:42	WG1364295
Chlordane	U		0.0977	0.500	1	10/18/2019 08:42	WG1364295
4,4-DDD	U		0.0170	0.0500	1	10/18/2019 08:42	WG1364295
4,4-DDE	U		0.0164	0.0500	1	10/18/2019 08:42	WG1364295
4,4-DDT	U		0.0177	0.0500	1	10/18/2019 08:42	WG1364295
Dieldrin	U		0.00751	0.0500	1	10/18/2019 08:42	WG1364295
Endosulfan I	U		0.0179	0.0500	1	10/18/2019 08:42	WG1364295
Endosulfan II	0.0415	J P	0.0176	0.0500	1	10/18/2019 08:42	WG1364295
Endosulfan sulfate	U		0.0196	0.0500	1	10/18/2019 08:42	WG1364295
Endrin	U		0.0189	0.0500	1	10/18/2019 08:42	WG1364295
Endrin aldehyde	U		0.0142	0.0500	1	10/18/2019 08:42	WG1364295
Endrin ketone	U		0.0170	0.0500	1	10/18/2019 08:42	WG1364295
Hexachlorobenzene	U	J3	0.0134	0.0500	1	10/18/2019 08:42	WG1364295
Heptachlor	U	J3	0.0108	0.0500	1	10/18/2019 08:42	WG1364295
Heptachlor epoxide	U		0.0175	0.0500	1	10/18/2019 08:42	WG1364295
Methoxychlor	U		0.0193	0.0500	1	10/18/2019 08:42	WG1364295
Toxaphene	U		0.168	0.500	1	10/18/2019 08:42	WG1364295
(S) Decachlorobiphenyl	*50.2*			*10.0-128*		*10/18/2019 08:42*	WG1364295
(S) Tetrachloro-m-xylene	*88.9*			*10.0-127*		*10/18/2019 08:42*	WG1364295

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Pentachlorophenol	U		0.313	10.0	1	10/20/2019 13:08	WG1365712
(S) 2-Fluorophenol	*48.1*			*10.0-120*		*10/20/2019 13:08*	WG1365712
(S) Phenol-d5	*30.3*			*10.0-120*		*10/20/2019 13:08*	WG1365712
(S) Nitrobenzene-d5	*58.4*			*10.0-127*		*10/20/2019 13:08*	WG1365712
(S) 2-Fluorobiphenyl	*68.9*			*10.0-130*		*10/20/2019 13:08*	WG1365712
(S) 2,4,6-Tribromophenol	*74.5*			*10.0-155*		*10/20/2019 13:08*	WG1365712
(S) p-Terphenyl-d14	*84.2*			*10.0-128*		*10/20/2019 13:08*	WG1365712

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Anthracene	U		0.0140	0.0500	1	10/17/2019 16:21	WG1364011
Acenaphthene	U		0.0100	0.0500	1	10/17/2019 16:21	WG1364011
Acenaphthylene	U		0.0120	0.0500	1	10/17/2019 16:21	WG1364011
Benzo(a)anthracene	U		0.00410	0.0500	1	10/17/2019 16:21	WG1364011
Benzo(a)pyrene	U		0.0116	0.0500	1	10/17/2019 16:21	WG1364011
Benzo(b)fluoranthene	U		0.00212	0.0500	1	10/17/2019 16:21	WG1364011
Benzo(g,h,i)perylene	U		0.00227	0.0500	1	10/17/2019 16:21	WG1364011
Benzo(k)fluoranthene	U		0.0136	0.0500	1	10/17/2019 16:21	WG1364011
Chrysene	U		0.0108	0.0500	1	10/17/2019 16:21	WG1364011
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	10/17/2019 16:21	WG1364011
Fluoranthene	U		0.0157	0.0500	1	10/17/2019 16:21	WG1364011
Fluorene	U		0.00850	0.0500	1	10/17/2019 16:21	WG1364011
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	10/17/2019 16:21	WG1364011
Naphthalene	U		0.0198	0.250	1	10/17/2019 16:21	WG1364011
Phenanthrene	U		0.00820	0.0500	1	10/17/2019 16:21	WG1364011
Pyrene	U		0.0117	0.0500	1	10/17/2019 16:21	WG1364011
1-Methylnaphthalene	U		0.00821	0.250	1	10/17/2019 16:21	WG1364011
2-Methylnaphthalene	U		0.00902	0.250	1	10/17/2019 16:21	WG1364011
2-Chloronaphthalene	U		0.00647	0.250	1	10/17/2019 16:21	WG1364011
(S) Nitrobenzene-d5	*96.3*			*31.0-160*		*10/17/2019 16:21*	WG1364011
(S) 2-Fluorobiphenyl	*98.9*			*48.0-148*		*10/17/2019 16:21*	WG1364011
(S) p-Terphenyl-d14	*74.7*			*37.0-146*		*10/17/2019 16:21*	WG1364011

Method Blank (MB)

(MB) R3463185-1 10/19/19 13:11

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1150127-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1150127-04 10/19/19 13:11 • (DUP) R3463185-3 10/19/19 13:11

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	85.3	84.9	1	0.375		10

Laboratory Control Sample (LCS)

(LCS) R3463185-2 10/19/19 13:11

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3463129-1 10/19/19 12:56

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1150272-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1150272-02 10/19/19 12:56 • (DUP) R3463129-3 10/19/19 12:56

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	91.9	92.0	1	0.0859		10

Laboratory Control Sample (LCS)

(LCS) R3463129-2 10/19/19 12:56

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.9	99.8	85.0-115	

Method Blank (MB)

(MB) R3461715-1 10/16/19 15:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ammonia Nitrogen	U		31.7	100

L1150152-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1150152-01 10/16/19 15:22 • (DUP) R3461715-3 10/16/19 15:24

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	122	119	1	2.49		10

L1150209-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1150209-01 10/16/19 15:46 • (DUP) R3461715-5 10/16/19 15:48

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	3130	3280	1	4.81		10

Laboratory Control Sample (LCS)

(LCS) R3461715-2 10/16/19 15:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7500	7110	94.8	90.0-110	

L1150211-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150211-01 10/16/19 15:51 • (MS) R3461715-6 10/16/19 15:53 • (MSD) R3461715-7 10/16/19 15:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5000	1630	6680	6450	101	96.3	1	90.0-110			3.44	10

Method Blank (MB)

(MB) R3462021-1 10/17/19 11:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ammonia Nitrogen	U		1.57	5.00

L1148602-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1148602-02 10/17/19 11:56 • (DUP) R3462021-3 10/17/19 11:57

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	15.4	9.78	1	44.4	P1	20

L1149989-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1149989-04 10/17/19 12:10 • (DUP) R3462021-6 10/17/19 12:11

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	18.2	19.6	1	7.54		20

Laboratory Control Sample (LCS)

(LCS) R3462021-2 10/17/19 11:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	500	539	108	90.0-110	

L1149989-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149989-02 10/17/19 12:06 • (MS) R3462021-4 10/17/19 12:07 • (MSD) R3462021-5 10/17/19 12:08

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	514	22.2	509	529	94.7	98.7	1	80.0-120			3.90	20

L1150272-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150272-02 10/17/19 12:24 • (MS) R3462021-7 10/17/19 12:26 • (MSD) R3462021-8 10/17/19 12:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	544	17.1	526	522	93.5	92.7	1	80.0-120			0.781	20

Method Blank (MB)

(MB) R3461869-1 10/16/19 09:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Nitrate	U		22.7	100

L1150272-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1150272-04 10/16/19 14:37 • (DUP) R3461869-3 10/16/19 14:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Nitrate	U	0.000	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3461869-2 10/16/19 09:46

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Nitrate	8000	7920	99.0	80.0-120	

L1150272-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150272-04 10/16/19 14:37 • (MS) R3461869-4 10/16/19 15:02 • (MSD) R3461869-5 10/16/19 15:15

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate	5000	U	5000	4990	99.9	99.7	1	80.0-120			0.202	15

Method Blank (MB)

(MB) R3461940-1 10/16/19 20:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Nitrate	0.168	J	0.0116	1.00

L1149965-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1149965-02 10/16/19 22:06 • (DUP) R3461940-3 10/16/19 22:22

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	15.8	17.2	1	8.28		15

L1150123-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1150123-06 10/17/19 01:56 • (DUP) R3461940-4 10/17/19 02:12

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	ND	0.0896	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3461940-2 10/16/19 20:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate	20.0	20.5	103	80.0-120	

L1150272-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150272-02 10/17/19 04:24 • (MS) R3461940-5 10/17/19 04:40 • (MSD) R3461940-6 10/17/19 04:56

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate	54.4	35.5	100	96.8	119	113	1	80.0-120			3.59	15

Method Blank (MB)

(MB) R3462269-1 10/17/19 17:29

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Mercury	U		0.0490	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3462269-2 10/17/19 17:31 • (LCSD) R3462269-3 10/17/19 17:33

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Mercury	3.00	2.72	2.58	90.7	86.1	80.0-120			5.22	20

L1149191-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149191-01 10/17/19 17:39 • (MS) R3462269-4 10/17/19 17:41 • (MSD) R3462269-5 10/17/19 17:42

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury	3.00	U	2.71	2.70	90.2	90.1	1	75.0-125			0.0813	20

Method Blank (MB)

(MB) R3461819-1 10/16/19 21:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.00280	0.0300

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3461819-2 10/16/19 21:20 • (LCSD) R3461819-3 10/16/19 21:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.422	0.409	84.5	81.8	80.0-120			3.20	20

L1150272-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150272-02 10/16/19 21:30 • (MS) R3461819-4 10/16/19 21:33 • (MSD) R3461819-5 10/16/19 21:35

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.544	0.0151	0.468	0.494	83.3	88.1	1	75.0-125			5.35	20

Method Blank (MB)

(MB) R3462018-1 10/17/19 11:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Arsenic	U		0.250	2.00
Barium	U		0.360	5.00
Cadmium	U		0.160	1.00
Chromium	1.02	J	0.540	2.00
Lead	U		0.240	2.00
Selenium	U		0.380	2.00
Silver	U		0.310	2.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3462018-2 10/17/19 12:00 • (LCSD) R3462018-3 10/17/19 12:03

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	50.0	49.7	49.1	99.5	98.2	80.0-120			1.35	20
Barium	50.0	47.3	46.9	94.7	93.7	80.0-120			0.961	20
Cadmium	50.0	50.3	48.3	101	96.6	80.0-120			4.05	20
Chromium	50.0	52.7	50.7	105	101	80.0-120			3.70	20
Lead	50.0	49.6	47.6	99.3	95.3	80.0-120			4.15	20
Selenium	50.0	50.7	49.1	101	98.2	80.0-120			3.24	20
Silver	50.0	50.7	50.1	101	100	80.0-120			1.09	20

L1149371-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149371-10 10/17/19 12:07 • (MS) R3462018-5 10/17/19 12:13 • (MSD) R3462018-6 10/17/19 12:16

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	50.0	ND	48.9	50.3	97.7	101	1	75.0-125			2.97	20
Barium	50.0	ND	48.4	50.6	96.8	101	1	75.0-125			4.48	20
Cadmium	50.0	ND	50.4	51.6	101	103	1	75.0-125			2.50	20
Chromium	50.0	ND	52.5	53.0	103	104	1	75.0-125			0.964	20
Lead	50.0	ND	48.3	51.2	96.7	102	1	75.0-125			5.72	20
Selenium	50.0	ND	49.2	50.1	98.3	100	1	75.0-125			1.90	20
Silver	50.0	ND	50.9	53.0	102	106	1	75.0-125			3.98	20

Method Blank (MB)

(MB) R3462626-1 10/18/19 15:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.125	0.500
Barium	U		0.160	1.00
Cadmium	U		0.0800	0.500
Chromium	0.284	J	0.270	1.00
Lead	U		0.120	0.500
Selenium	U		0.190	0.500
Silver	U		0.155	0.500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3462626-2 10/18/19 15:04 • (LCSD) R3462626-3 10/18/19 15:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	96.6	97.2	96.6	97.2	80.0-120			0.570	20
Barium	100	100	102	100	102	80.0-120			2.25	20
Cadmium	100	101	103	101	103	80.0-120			1.54	20
Chromium	100	103	103	103	103	80.0-120			0.0223	20
Lead	100	101	102	101	102	80.0-120			1.65	20
Selenium	100	99.5	102	99.5	102	80.0-120			2.61	20
Silver	20.0	19.9	20.2	99.5	101	80.0-120			1.40	20

L1150272-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150272-02 10/18/19 15:11 • (MS) R3462626-6 10/18/19 15:21 • (MSD) R3462626-7 10/18/19 15:24

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	21.8	3.39	94.7	99.5	84.0	88.4	5	75.0-125			4.94	20
Barium	21.8	112	210	220	90.3	99.0	5	75.0-125			4.41	20
Cadmium	21.8	0.308	98.0	107	89.8	97.8	5	75.0-125			8.46	20
Chromium	21.8	12.1	108	113	87.9	93.1	5	75.0-125			5.12	20
Lead	21.8	22.3	108	129	78.8	98.3	5	75.0-125			17.8	20
Selenium	21.8	0.306	98.3	106	90.1	96.8	5	75.0-125			7.19	20
Silver	4.35	U	19.3	20.7	88.9	95.0	5	75.0-125			6.69	20

Method Blank (MB)

(MB) R3463327-3 10/21/19 13:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0292	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*94.1*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3463327-2 10/21/19 13:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.57	83.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*77.0-120*	

Method Blank (MB)

(MB) R3462391-1 10/18/19 05:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Residual Range Organics (RRO)	U		3.33	10.0
Diesel Range Organics (DRO)	U		1.33	4.00
(S) o-Terphenyl	*76.7*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3462391-2 10/18/19 05:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	39.0	78.0	50.0-150	
(S) o-Terphenyl			*77.9*	*18.0-148*	

L1149564-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149564-08 10/18/19 09:11 • (MS) R3462391-3 10/18/19 09:24 • (MSD) R3462391-4 10/18/19 09:37

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	50.0	5.09	49.1	48.8	88.0	87.4	1	50.0-150			0.613	20
(S) o-Terphenyl					*62.8*	*68.8*		*18.0-148*				

Method Blank (MB)

(MB) R3462741-4 10/18/19 13:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Aldrin	U		0.00813	0.0500
Alpha BHC	U		0.0166	0.0500
Beta BHC	U		0.0184	0.0500
Delta BHC	U		0.0197	0.0500
Gamma BHC	U		0.0176	0.0500
4,4-DDD	U		0.0170	0.0500
4,4-DDE	U		0.0164	0.0500
4,4-DDT	U		0.0177	0.0500
Dieldrin	U		0.00751	0.0500
Endosulfan I	U		0.0179	0.0500
Endosulfan II	U		0.0176	0.0500
Endosulfan sulfate	U		0.0196	0.0500
Endrin	U		0.0189	0.0500
Endrin aldehyde	U		0.0142	0.0500
Endrin ketone	U		0.0170	0.0500
Heptachlor	U		0.0108	0.0500
Heptachlor epoxide	U		0.0175	0.0500
Hexachlorobenzene	U		0.0134	0.0500
Methoxychlor	U		0.0193	0.0500
Chlordane	U		0.0977	0.500
Toxaphene	U		0.168	0.500
(S) Decachlorobiphenyl	*69.2*			*10.0-128*
(S) Tetrachloro-m-xylene	*67.6*			*10.0-127*

Laboratory Control Sample (LCS)

(LCS) R3462741-1 10/18/19 07:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	1.00	0.899	89.9	22.0-124	
Alpha BHC	1.00	0.976	97.6	54.0-130	
Beta BHC	1.00	0.990	99.0	53.0-136	
Delta BHC	1.00	1.02	102	54.0-133	
Gamma BHC	1.00	0.966	96.6	55.0-129	
4,4-DDD	1.00	0.962	96.2	56.0-140	
4,4-DDE	1.00	1.03	103	52.0-128	
4,4-DDT	1.00	1.08	108	50.0-141	
Dieldrin	1.00	0.955	95.5	59.0-133	
Endosulfan I	1.00	0.922	92.2	57.0-131	

Laboratory Control Sample (LCS)

(LCS) R3462741-1 10/18/19 07:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	1.00	0.988	98.8	58.0-133	
Endosulfan sulfate	1.00	0.928	92.8	58.0-133	
Endrin	1.00	0.999	99.9	57.0-134	
Endrin aldehyde	1.00	0.949	94.9	53.0-129	
Endrin ketone	1.00	0.999	99.9	60.0-145	
Heptachlor	1.00	0.968	96.8	27.0-132	
Heptachlor epoxide	1.00	0.959	95.9	57.0-130	
Hexachlorobenzene	1.00	0.925	92.5	30.0-114	
Methoxychlor	1.00	1.05	105	54.0-155	
(S) Decachlorobiphenyl			*33.1*	*10.0-128*	
(S) Tetrachloro-m-xylene			*81.8*	*10.0-127*	

L1150272-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150272-04 10/18/19 08:42 • (MS) R3462741-2 10/18/19 08:56 • (MSD) R3462741-3 10/18/19 09:11

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	1.00	U	0.764	0.478	76.4	47.8	1	10.0-141		J3	46.1	40
Alpha BHC	1.00	U	0.696	0.214	69.6	21.4	1	10.0-145		J3	106	40
Beta BHC	1.00	U	0.981	0.760	98.1	76.0	1	14.0-146			25.4	35
Delta BHC	1.00	U	1.04	0.822	104	82.2	1	17.0-143			23.4	38
Gamma BHC	1.00	U	0.832	0.424	83.2	42.4	1	14.0-141		J3	65.0	40
4,4-DDD	1.00	U	1.03	0.877	103	87.7	1	10.0-160			16.0	38
4,4-DDE	1.00	U	1.07	0.898	107	89.8	1	10.0-159			17.5	35
4,4-DDT	1.00	U	1.14	0.940	114	94.0	1	10.0-160			19.2	38
Dieldrin	1.00	U	1.00	0.838	100	83.8	1	10.0-158			17.6	38
Endosulfan I	1.00	U	0.949	0.774	94.9	77.4	1	10.0-153			20.3	36
Endosulfan II	1.00	0.0415	1.04	0.897	99.8	85.5	1	10.0-159			14.8	39
Endosulfan sulfate	1.00	U	0.973	0.851	97.3	85.1	1	23.0-147			13.4	35
Endrin	1.00	U	1.04	0.874	104	87.4	1	10.0-160			17.3	39
Endrin aldehyde	1.00	U	0.968	0.845	96.8	84.5	1	10.0-148			13.6	38
Endrin ketone	1.00	U	1.04	0.909	104	90.9	1	10.0-160			13.4	40
Heptachlor	1.00	U	0.811	0.443	81.1	44.3	1	16.0-136		J3	58.7	40
Heptachlor epoxide	1.00	U	0.967	0.772	96.7	77.2	1	10.0-160			22.4	36
Hexachlorobenzene	1.00	U	0.526	0.125	52.6	12.5	1	10.0-130		J3	123	40
Methoxychlor	1.00	U	1.11	0.955	111	95.5	1	10.0-160			15.0	34
(S) Decachlorobiphenyl					*75.8*	*37.8*		*10.0-128*				
(S) Tetrachloro-m-xylene					*36.4*	*2.83*		*10.0-127*		J2		

Method Blank (MB)

(MB) R3462865-1 10/19/19 07:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00135	0.0200
Alpha BHC	U		0.00136	0.0200
Beta BHC	U		0.00160	0.0200
Delta BHC	U		0.00143	0.0200
Gamma BHC	U		0.00145	0.0200
4,4-DDD	U		0.00156	0.0200
4,4-DDE	U		0.00154	0.0200
4,4-DDT	U		0.00200	0.0200
Dieldrin	U		0.00152	0.0200
Endosulfan I	U		0.00149	0.0200
Endosulfan II	U		0.00160	0.0200
Endosulfan sulfate	U		0.00151	0.0200
Endrin	U		0.00157	0.0200
Endrin aldehyde	U		0.00129	0.0200
Endrin ketone	U		0.00165	0.0200
Heptachlor	U		0.00154	0.0200
Heptachlor epoxide	U		0.00161	0.0200
Hexachlorobenzene	U		0.00124	0.0200
Methoxychlor	U		0.00178	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*81.1*			*10.0-135*
(S) Tetrachloro-m-xylene	*77.0*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3462865-2 10/19/19 07:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0492	73.9	34.0-136	
Alpha BHC	0.0666	0.0499	74.9	34.0-139	
Beta BHC	0.0666	0.0465	69.8	34.0-133	
Delta BHC	0.0666	0.0495	74.3	34.0-135	
Gamma BHC	0.0666	0.0487	73.1	34.0-136	
4,4-DDD	0.0666	0.0480	72.1	33.0-141	
4,4-DDE	0.0666	0.0532	79.9	34.0-134	
4,4-DDT	0.0666	0.0509	76.4	30.0-143	
Dieldrin	0.0666	0.0478	71.8	35.0-137	
Endosulfan I	0.0666	0.0467	70.1	34.0-134	

Laboratory Control Sample (LCS)

(LCS) R3462865-2 10/19/19 07:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0468	70.3	35.0-132	
Endosulfan sulfate	0.0666	0.0436	65.5	35.0-132	
Endrin	0.0666	0.0475	71.3	34.0-137	
Endrin aldehyde	0.0666	0.0371	55.7	23.0-121	
Endrin ketone	0.0666	0.0485	72.8	35.0-144	
Heptachlor	0.0666	0.0503	75.5	36.0-141	
Heptachlor epoxide	0.0666	0.0478	71.8	36.0-134	
Hexachlorobenzene	0.0666	0.0515	77.3	33.0-129	
Methoxychlor	0.0666	0.0469	70.4	28.0-150	
(S) Decachlorobiphenyl			*87.2*	*10.0-135*	
(S) Tetrachloro-m-xylene			*82.6*	*10.0-139*	

L1150272-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150272-02 10/21/19 15:51 • (MS) R3463334-1 10/21/19 16:05 • (MSD) R3463334-2 10/21/19 16:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0724	U	0.0416	0.0461	57.4	63.7	1	20.0-135			10.4	37
Alpha BHC	0.0724	U	0.0445	0.0490	61.4	67.6	1	27.0-140			9.55	35
Beta BHC	0.0724	U	0.0426	0.0457	58.9	63.1	1	23.0-141			6.90	37
Delta BHC	0.0724	U	0.0449	0.0492	62.0	67.9	1	21.0-138			9.02	35
Gamma BHC	0.0724	U	0.0435	0.0475	60.1	65.6	1	27.0-137			8.84	36
4,4-DDD	0.0724	U	0.0473	0.0537	65.3	74.2	1	15.0-152			12.7	39
4,4-DDE	0.0724	U	0.0462	0.0516	63.8	71.2	1	10.0-152			10.9	40
4,4-DDT	0.0724	U	0.0310	0.0318	42.8	43.8	1	10.0-151			2.43	40
Dieldrin	0.0724	U	0.0402	0.0450	55.6	62.2	1	17.0-145			11.2	37
Endosulfan I	0.0724	U	0.0374	0.0416	51.7	57.4	1	20.0-137			10.5	36
Endosulfan II	0.0724	U	0.0401	0.0433	55.4	59.8	1	15.0-141			7.56	37
Endosulfan sulfate	0.0724	U	0.0360	0.0395	49.7	54.5	1	15.0-143			9.22	38
Endrin	0.0724	U	0.0409	0.0449	56.5	62.0	1	19.0-143			9.38	37
Endrin aldehyde	0.0724	U	0.0375	0.0432	51.8	59.6	1	10.0-139			14.0	40
Endrin ketone	0.0724	U	0.0373	0.0406	51.5	56.0	1	17.0-149			8.38	38
Heptachlor	0.0724	U	0.0434	0.0462	59.9	63.8	1	22.0-138			6.31	37
Heptachlor epoxide	0.0724	U	0.0401	0.0453	55.4	62.5	1	22.0-138			12.0	36
Hexachlorobenzene	0.0724	U	0.0432	0.0466	59.6	64.3	1	25.0-126			7.52	35
Methoxychlor	0.0724	U	0.0362	0.0384	50.0	53.0	1	10.0-159			5.83	40
(S) Decachlorobiphenyl					*50.2*	*51.4*		*10.0-135*				
(S) Tetrachloro-m-xylene					*57.2*	*61.7*		*10.0-139*				

Method Blank (MB)

(MB) R3463292-3 10/20/19 12:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Pentachlorophenol	U		0.313	10.0
(S) 2-Fluorophenol	*29.5*			*10.0-120*
(S) Phenol-d5	*19.1*			*10.0-120*
(S) Nitrobenzene-d5	*39.7*			*10.0-127*
(S) 2-Fluorobiphenyl	*51.4*			*10.0-130*
(S) 2,4,6-Tribromophenol	*44.1*			*10.0-155*
(S) p-Terphenyl-d14	*50.0*			*10.0-128*

Laboratory Control Sample (LCS)

(LCS) R3463292-1 10/20/19 12:07

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Pentachlorophenol	50.0	44.4	88.8	23.0-120	
(S) 2-Fluorophenol			*46.2*	*10.0-120*	
(S) Phenol-d5			*31.4*	*10.0-120*	
(S) Nitrobenzene-d5			*63.8*	*10.0-127*	
(S) 2-Fluorobiphenyl			*81.8*	*10.0-130*	
(S) 2,4,6-Tribromophenol			*83.5*	*10.0-155*	
(S) p-Terphenyl-d14			*90.9*	*10.0-128*	

Method Blank (MB)

(MB) R3462738-2 10/18/19 16:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pentachlorophenol	U		0.0480	0.333
(S) Nitrobenzene-d5	*69.7*			*10.0-122*
(S) 2-Fluorobiphenyl	*72.7*			*15.0-120*
(S) p-Terphenyl-d14	*85.3*			*10.0-120*
(S) Phenol-d5	*75.2*			*10.0-120*
(S) 2-Fluorophenol	*87.2*			*12.0-120*
(S) 2,4,6-Tribromophenol	*61.7*			*10.0-127*

Laboratory Control Sample (LCS)

(LCS) R3462738-1 10/18/19 16:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Pentachlorophenol	0.666	0.464	69.7	29.0-120	
(S) Nitrobenzene-d5			*68.5*	*10.0-122*	
(S) 2-Fluorobiphenyl			*70.6*	*15.0-120*	
(S) p-Terphenyl-d14			*80.8*	*10.0-120*	
(S) Phenol-d5			*75.5*	*10.0-120*	
(S) 2-Fluorophenol			*85.6*	*12.0-120*	
(S) 2,4,6-Tribromophenol			*73.7*	*10.0-127*	

L1150272-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150272-02 10/18/19 21:27 • (MS) R3462738-3 10/18/19 21:49 • (MSD) R3462738-4 10/18/19 22:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Pentachlorophenol	0.698	U	0.582	0.597	83.3	86.6	1	10.0-160			2.58	31
(S) Nitrobenzene-d5					*67.3*	*68.8*		*10.0-122*				
(S) 2-Fluorobiphenyl					*64.2*	*67.2*		*15.0-120*				
(S) p-Terphenyl-d14					*78.5*	*80.8*		*10.0-120*				
(S) Phenol-d5					*71.0*	*76.2*		*10.0-120*				
(S) 2-Fluorophenol					*81.5*	*84.2*		*12.0-120*				
(S) 2,4,6-Tribromophenol					*82.9*	*84.1*		*10.0-127*				

Method Blank (MB)

(MB) R3461968-3 10/17/19 09:26

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Anthracene	U		0.0140	0.0500
Acenaphthene	U		0.0100	0.0500
Acenaphthylene	U		0.0120	0.0500
Benzo(a)anthracene	U		0.00410	0.0500
Benzo(a)pyrene	U		0.0116	0.0500
Benzo(b)fluoranthene	U		0.00212	0.0500
Benzo(g,h,i)perylene	U		0.00227	0.0500
Benzo(k)fluoranthene	U		0.0136	0.0500
Chrysene	U		0.0108	0.0500
Dibenz(a,h)anthracene	U		0.00396	0.0500
Fluoranthene	U		0.0157	0.0500
Fluorene	U		0.00850	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500
Naphthalene	U		0.0198	0.250
Phenanthrene	U		0.00820	0.0500
Pyrene	U		0.0117	0.0500
1-Methylnaphthalene	U		0.00821	0.250
2-Methylnaphthalene	U		0.00902	0.250
2-Chloronaphthalene	U		0.00647	0.250
(S) Nitrobenzene-d5	*101*			*31.0-160*
(S) 2-Fluorobiphenyl	*105*			*48.0-148*
(S) p-Terphenyl-d14	*95.5*			*37.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3461968-1 10/17/19 08:41 • (LCSD) R3461968-2 10/17/19 09:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	2.00	1.96	1.91	98.0	95.5	67.0-150			2.58	20
Acenaphthene	2.00	1.87	1.84	93.5	92.0	65.0-138			1.62	20
Acenaphthylene	2.00	2.05	1.99	102	99.5	66.0-140			2.97	20
Benzo(a)anthracene	2.00	1.96	1.90	98.0	95.0	61.0-140			3.11	20
Benzo(a)pyrene	2.00	1.73	1.70	86.5	85.0	60.0-143			1.75	20
Benzo(b)fluoranthene	2.00	1.60	1.55	80.0	77.5	58.0-141			3.17	20
Benzo(g,h,i)perylene	2.00	2.06	2.01	103	100	52.0-153			2.46	20
Benzo(k)fluoranthene	2.00	1.75	1.75	87.5	87.5	58.0-148			0.000	20
Chrysene	2.00	1.86	1.82	93.0	91.0	64.0-144			2.17	20
Dibenz(a,h)anthracene	2.00	2.06	2.03	103	102	52.0-155			1.47	20
Fluoranthene	2.00	1.89	1.89	94.5	94.5	69.0-153			0.000	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3461968-1 10/17/19 08:41 • (LCSD) R3461968-2 10/17/19 09:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Fluorene	2.00	1.90	1.87	95.0	93.5	64.0-136			1.59	20
Indeno(1,2,3-cd)pyrene	2.00	1.96	1.93	98.0	96.5	54.0-153			1.54	20
Naphthalene	2.00	1.80	1.77	90.0	88.5	61.0-137			1.68	20
Phenanthrene	2.00	1.92	1.91	96.0	95.5	62.0-137			0.522	20
Pyrene	2.00	1.62	1.59	81.0	79.5	60.0-142			1.87	20
1-Methylnaphthalene	2.00	1.79	1.74	89.5	87.0	66.0-142			2.83	20
2-Methylnaphthalene	2.00	1.70	1.64	85.0	82.0	62.0-136			3.59	20
2-Chloronaphthalene	2.00	2.00	1.96	100	98.0	64.0-140			2.02	20
(S) Nitrobenzene-d5				*96.5*	*92.0*	*31.0-160*				
(S) 2-Fluorobiphenyl				*98.0*	*99.0*	*48.0-148*				
(S) p-Terphenyl-d14				*90.0*	*89.5*	*37.0-146*				

Method Blank (MB)

(MB) R3462796-2 10/18/19 16:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	U		0.000600	0.00600
Benzo(g,h,i)perylene	U		0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	U		0.00200	0.0200
Phenanthrene	U		0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) Nitrobenzene-d5	*86.2*			*14.0-149*
(S) 2-Fluorobiphenyl	*90.2*			*34.0-125*
(S) p-Terphenyl-d14	*89.1*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3462796-1 10/18/19 16:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0650	81.3	50.0-126	
Acenaphthene	0.0800	0.0694	86.8	50.0-120	
Acenaphthylene	0.0800	0.0711	88.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0695	86.9	45.0-120	
Benzo(a)pyrene	0.0800	0.0524	65.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0667	83.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0686	85.8	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0713	89.1	49.0-125	
Chrysene	0.0800	0.0686	85.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0712	89.0	47.0-125	
Fluoranthene	0.0800	0.0701	87.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3462796-1 10/18/19 16:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0709	88.6	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0717	89.6	46.0-125	
Naphthalene	0.0800	0.0668	83.5	50.0-120	
Phenanthrene	0.0800	0.0709	88.6	47.0-120	
Pyrene	0.0800	0.0665	83.1	43.0-123	
1-Methylnaphthalene	0.0800	0.0679	84.9	51.0-121	
2-Methylnaphthalene	0.0800	0.0655	81.9	50.0-120	
2-Chloronaphthalene	0.0800	0.0686	85.8	50.0-120	
(S) Nitrobenzene-d5			*90.2*	*14.0-149*	
(S) 2-Fluorobiphenyl			*92.8*	*34.0-125*	
(S) p-Terphenyl-d14			*89.1*	*23.0-120*	

L1150272-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150272-02 10/18/19 17:16 • (MS) R3462796-3 10/18/19 17:38 • (MSD) R3462796-4 10/18/19 18:00

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0870	0.000856	0.0734	0.0720	83.4	81.8	1	10.0-145			1.94	30
Acenaphthene	0.0870	U	0.0719	0.0714	82.6	82.0	1	14.0-127			0.759	27
Acenaphthylene	0.0870	U	0.0778	0.0772	89.4	88.8	1	21.0-124			0.702	25
Benzo(a)anthracene	0.0870	0.00215	0.0786	0.0768	87.9	85.8	1	10.0-139			2.38	30
Benzo(a)pyrene	0.0870	0.00193	0.0738	0.0714	82.5	79.8	1	10.0-141			3.30	31
Benzo(b)fluoranthene	0.0870	0.00413	0.0740	0.0724	80.3	78.5	1	10.0-140			2.08	36
Benzo(g,h,i)perylene	0.0870	0.00283	0.0707	0.0685	78.0	75.5	1	10.0-140			3.12	33
Benzo(k)fluoranthene	0.0870	0.00124	0.0696	0.0673	78.6	76.0	1	10.0-137			3.34	31
Chrysene	0.0870	0.00371	0.0745	0.0734	81.4	80.1	1	10.0-145			1.47	30
Dibenz(a,h)anthracene	0.0870	U	0.0687	0.0686	79.0	78.9	1	10.0-132			0.158	31
Fluoranthene	0.0870	0.00397	0.0784	0.0752	85.6	81.8	1	10.0-153			4.25	33
Fluorene	0.0870	U	0.0739	0.0740	84.9	85.0	1	11.0-130			0.147	29
Indeno(1,2,3-cd)pyrene	0.0870	0.00212	0.0704	0.0696	78.4	77.6	1	10.0-137			1.09	32
Naphthalene	0.0870	0.00395	0.0731	0.0710	79.5	77.1	1	10.0-135			2.87	27
Phenanthrene	0.0870	0.00374	0.0775	0.0747	84.7	81.6	1	10.0-144			3.57	31
Pyrene	0.0870	0.00351	0.0744	0.0726	81.5	79.3	1	10.0-148			2.52	35
1-Methylnaphthalene	0.0870	0.00460	0.0758	0.0744	81.8	80.2	1	10.0-142			1.88	28
2-Methylnaphthalene	0.0870	0.00538	0.0744	0.0727	79.3	77.3	1	10.0-137			2.37	28
2-Chloronaphthalene	0.0870	U	0.0699	0.0695	80.4	79.9	1	29.0-120			0.624	24
(S) Nitrobenzene-d5					*88.0*	*87.3*		*14.0-149*				
(S) 2-Fluorobiphenyl					*83.1*	*82.5*		*34.0-125*				
(S) p-Terphenyl-d14					*79.9*	*80.3*		*23.0-120*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
P	RPD between the primary and confirmatory analysis exceeded 40%.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Stantec Consulting - Portland, OR

9400 SW Barnes Rd., Suite 200
Portland, OR 97225

Billing Information:
Accounts Payable
9400 SW Barnes Rd., Suite 200
Portland, OR 97225

Report to: **Leonard Farr**

Email To: **leonard.farr@stantec.com; robert.mcalister@stantec.com**

Project Description: **Idaho Falls**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **503-297-1631**
Fax: **503-297-5429**

Client Project #

Lab Project #: **SECORTOR-IDAHOFALLS**

Collected by (print): Chad Jensen

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
X Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NH3 Ammonia 8ozClr-NoPres	Nitrate 8ozClr-NoPres	PCP (SV8270ACID) 4ozClr-NoPres	Pest 8081 4ozClr-NoPres	RCRA Metals 6020 2ozClr-NoPres	SV8270PAHSIMD 4ozClr-NoPres	TPH d/o 4ozClr-NoPres	TPH g GRO 40mlAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres		Remarks	Sample # (lab only)
CS-06-0-3	Comp	SS	upper 18"	10/15/19	11:20	4	X	X	X	X	X	X			X			-01
CS-07-0-3 ms/msd	Comp	SS	↓	10/15/19	12:30	12	X	X	X	X	X	X			X			-02
DP-01-0.5-3	Grab	SS	0.5-3'	10/15/19	10:30	3							X	X				-03
EB01-150ct19		W ~~SS~~		10/15/19	12:00	9	X	X	X	X	X	X						-04
		SS		TO														
		SS																
		SS																
		SS																
		SS																
		SS																
		SS																

Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1150272
B024

Acctnum: **SECORTOR**
Template: **T157081**
Prelogin: **P734493**
PM: **546 - Jared Starkey**
PB:
Shipped Via:

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 1145 2230 9676

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	10/14/19	17:00		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.0+.2 °C Bottles Received: 38	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/16 Time: 0830	Hold: / Condition: NCF / OK

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 24, 2019

Stantec Consulting - Portland, OR

Sample Delivery Group:	L1152442
Samples Received:	10/11/2019
Project Number:	
Description:	Idaho Falls

Report To: Leonard Farr
9400 SW Barnes Rd., Suite 200
Portland, OR 97225

Entire Report Reviewed By:

Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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DP-01-0.5-3 L1152442-01 Solid

Collected by	Collected date/time	Received date/time
Chad Jensen	10/10/19 13:04	10/11/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1365633	1	10/19/19 12:46	10/19/19 12:56	JAV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368696	1	10/15/19 10:30	10/24/19 14:22	ACG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.0		1	10/19/2019 12:56	WG1365633

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.00110	J	0.000460	0.00115	1	10/24/2019 14:22	WG1368696
Toluene	0.00921		0.00144	0.00575	1	10/24/2019 14:22	WG1368696
Ethylbenzene	0.00239	J	0.000609	0.00287	1	10/24/2019 14:22	WG1368696
Total Xylenes	0.0179		0.00549	0.00747	1	10/24/2019 14:22	WG1368696
(S) Toluene-d8	*110*			*75.0-131*		*10/24/2019 14:22*	WG1368696
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*10/24/2019 14:22*	WG1368696
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*10/24/2019 14:22*	WG1368696

Method Blank (MB)

(MB) R3463129-1 10/19/19 12:56

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1150272-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1150272-02 10/19/19 12:56 • (DUP) R3463129-3 10/19/19 12:56

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	91.9	92.0	1	0.0859		10

Laboratory Control Sample (LCS)

(LCS) R3463129-2 10/19/19 12:56

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.9	99.8	85.0-115	

Method Blank (MB)

(MB) R3464712-2 10/24/19 10:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*109*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3464712-1 10/24/19 09:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.108	86.4	70.0-123	
Ethylbenzene	0.125	0.132	106	74.0-126	
Toluene	0.125	0.118	94.4	75.0-121	
Xylenes, Total	0.375	0.411	110	72.0-127	
(S) Toluene-d8			*110*	*75.0-131*	
(S) 4-Bromofluorobenzene			*109*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*107*	*70.0-130*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Stantec Consulting - Portland, OR

9400 SW Barnes Rd., Suite 200
Portland, OR 97225

Billing Information:
Accounts Payable
9400 SW Barnes Rd., Suite 200
Portland, OR 97225

Pres Chk

Report to: **Leonard Farr**

Email To: leonard.farr@stantec.com; robert.mcalister@stantec.com

Project Description: **Idaho Falls**

City/State Collected:

Please Circle: PT MT CT ET

Phone: 503-297-1631
Fax: 503-297-5429

Client Project #

Lab Project # **SECORTOR-IDAHOFALLS**

Collected by (print): Chad Jensen

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
X Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NH3 Ammonia 8ozClr-NoPres	Nitrate 8ozClr-NoPres	PCP (SV8270ACID) 4ozClr-NoPres	Pest 8081 4ozClr-NoPres	RCRA Metals 6020 2ozClr-NoPres	SV8270PAHSIMD 4ozClr-NoPres	TPH d/o 4ozClr-NoPres	TPH g GRO 40mlAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres		Remarks	Sample # (lab only)
CS-06-0-3	Comp	SS	upper 18"	10/15/19	11:20	4	X	X	X	X	X	X			X			-01
CS-07-0-3 ms/msd	Comp	SS	↓	10/15/19	12:30	12	X	X	X	X	X	X			X			-02
DP-01-0.5-3	Grab	SS	0.5-3'	10/15/19	10:30	3							X	X			01	-03
EB01-151019		W ~~SS~~		10/15/19	12:00	9	X	X	X	X	X	X						-04
		SS																
		SS																
		SS																
		SS																
		SS																
		SS																

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1150272 10/22
B024
Table #
Acctnum: SECORTOR
Template: T157081
Prelogin: P734493
PM: 546 - Jared Starkey
PB:
Shipped Via:

1152442

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ___ Temp ___
Flow ___ Other ___

Samples returned via: __ UPS __ FedEx __ Courier

Tracking # 1145 2230 9676

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: X N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	10/14/19	17:00	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
1 HCl / MeoH TBR

Temp: 2.2+0.2 °C Bottles Received: 38

Date: 10/16 Time: 0830

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Matt Shacklock

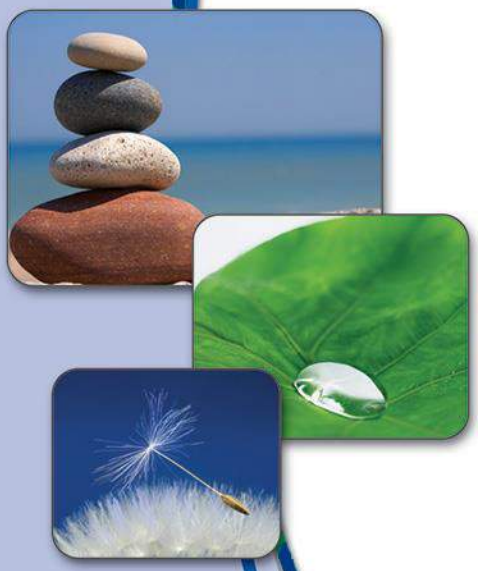
From: Jared N. Starkey
Sent: Monday, October 21, 2019 5:40 PM
To: Project Service
Subject: L1150272 SECORTOR relog

Please re-log L1150272-03 to a new SDG for V8260BTEX as R3 10/24, transfer TS.

Jared Starkey
Project Manager
Pace Analytical National Center for Testing & Innovation
12065 Lebanon Road | Mt. Juliet, TN 37122
615.773.9698
jstarkey@pacenational.com | pacenational.com

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ANALYTICAL REPORT

Eurofins TestAmerica, Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

Laboratory Job ID: 490-177895-1
Client Project/Site: Idaho Falls Stockyard

For:
Stantec Consulting Corp.
9400 SW Barnes Road
Suite 200
Portland, Oregon 97225-6690

Attn: Leonard Farr

Authorized for release by:
10/17/2019 3:43:53 PM

Andy Johnson, Manager of Project Management
(615)301-5045
andy.johnson@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Idaho Falls Stockyard

Job ID: 490-177895-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
490-177895-1	SG-01-4-5	Air	10/14/19 10:45	10/17/19 07:31	
490-177895-2	SG-V-4-5	Air	10/14/19 10:45	10/15/19 08:00	
490-177895-3	SG-02-3-4	Air	10/14/19 10:44	10/15/19 08:00	

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Idaho Falls Stockyard

Job ID: 490-177895-1

Method	Method Description	Protocol	Laboratory
Subcontract	TO-15	None	Eurofins

Protocol References:

None = None

Laboratory References:

Eurofins = Eurofins Air Toxics, 180 Blue Ravine Road, Suite B, Folsom, CA 95630

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Idaho Falls Stockyard

Job ID: 490-177895-1

Laboratory: Eurofins TestAmerica, Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	TN200001	04-26-20

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10/17/2019
Ms. Lauren Evans
Eurofins Test America
2960 Foster Creighton Dr.

Nashville TN 37204

Project Name: Idaho Falls Stockyard
Project #:
Workorder #: 1910343A

Dear Ms. Lauren Evans

The following report includes the data for the above referenced project for sample(s) received on 10/15/2019 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

WORK ORDER #: 1910343A

Work Order Summary

CLIENT:	Ms. Lauren Evans Eurofins Test America 2960 Foster Creighton Dr. Nashville, TN 37204	**BILL TO:**	Accounts Payable Eurofins Test America 4104 Shuffel St NW North Canton, OH 44720
PHONE:	800-765-0980	**P.O. #**	490-177895
FAX:	615-726-3404	**PROJECT #**	Idaho Falls Stockyard
DATE RECEIVED:	10/15/2019	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/17/2019		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG-01-4-5	TO-15	6.0 "Hg	15 psi
02A	SG-V-4-5	TO-15	4.0 "Hg	15 psi
03A	SG-02-3-4	TO-15	7.5 "Hg	15 psi
04A	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/17/19

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Eurofins Test America
Workorder# 1910343A

Three 1 Liter Summa Canister samples were received on October 15, 2019. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) information for samples SG-01-4-5, SG-V-4-5, and SG-02-3-4 did not match the entries on the sample tags with regard to sample identification. Therefore the information on the COC was used to process and report the samples.

There was a difference (greater than or equal to 5.0" Hg) between the measured canister receipt vacuum and that which was reported on the Chain of Custody (COC) for sample SG-02-3-4. A leak test indicated that the valve was functioning properly.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-01-4-5

Lab ID#: 1910343A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.3	18	2.8	41
Ethanol	5.0	29 J0	9.5	54 J0
Acetone	13	46	30	110
Hexane	1.3	11	4.4	38
2-Butanone (Methyl Ethyl Ketone)	5.0	9.4	15	28
Chloroform	1.3	1.5	6.2	7.2
Cyclohexane	1.3	3.7	4.3	13
Benzene	1.3	14	4.0	46
Heptane	1.3	6.3	5.2	26
Toluene	1.3	21	4.7	80
Ethyl Benzene	1.3	2.1	5.5	9.3
m,p-Xylene	1.3	9.2	5.5	40
o-Xylene	1.3	3.2	5.5	14
1,2,4-Trimethylbenzene	1.3	2.4	6.2	12
TPH ref. to Gasoline (MW=100)	130	500	520	2000

Client Sample ID: SG-V-4-5

Lab ID#: 1910343A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.2	16	2.6	36
Ethanol	4.7	29 J0	8.8	54 J0
Acetone	12	45	28	110
Hexane	1.2	11	4.1	38
2-Butanone (Methyl Ethyl Ketone)	4.7	8.6	14	25
Chloroform	1.2	1.5	5.7	7.4
Cyclohexane	1.2	4.0	4.0	14
Benzene	1.2	15	3.7	47
Heptane	1.2	6.3	4.8	26
Toluene	1.2	22	4.4	82
Ethyl Benzene	1.2	2.0	5.0	8.7
m,p-Xylene	1.2	9.8	5.0	42
o-Xylene	1.2	2.3	5.0	10

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-V-4-5

Lab ID#: 1910343A-02A

1,2,4-Trimethylbenzene	1.2	1.9	5.7	9.6
TPH ref. to Gasoline (MW=100)	120	490	480	2000

Client Sample ID: SG-02-3-4

Lab ID#: 1910343A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.3	6.0	3.0	13
Ethanol	5.4	24 J0	10	44 J0
Acetone	13	34	32	82
Hexane	1.3	7.2	4.7	25
2-Butanone (Methyl Ethyl Ketone)	5.4	5.6	16	16
Chloroform	1.3	24	6.6	120
Cyclohexane	1.3	2.0	4.6	7.0
2,2,4-Trimethylpentane	1.3	8.5	6.3	40
Benzene	1.3	9.2	4.3	29
Heptane	1.3	4.2	5.5	17
Bromodichloromethane	1.3	1.8	9.0	12
Toluene	1.3	25	5.1	95
Ethyl Benzene	1.3	2.6	5.8	11
m,p-Xylene	1.3	8.3	5.8	36
o-Xylene	1.3	2.4	5.8	11
1,2,4-Trimethylbenzene	1.3	2.5	6.6	12
TPH ref. to Gasoline (MW=100)	130	340	550	1400

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Client Sample ID: SG-01-4-5

Lab ID#: 1910343A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101608**	**Date of Collection:**	**10/14/19 10:45:00 A**
Dil. Factor:	**2.52**	**Date of Analysis:**	**10/16/19 11:28 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.2	Not Detected
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	13	Not Detected	26	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	18	2.8	41
Bromomethane	13	Not Detected	49	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Ethanol	5.0	29 J0	9.5	54 J0
Freon 113	1.3	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	13	46	30	110
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	11	4.4	38
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	9.4	15	28
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.7	Not Detected
Chloroform	1.3	1.5	6.2	7.2
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Cyclohexane	1.3	3.7	4.3	13
Carbon Tetrachloride	1.3	Not Detected	7.9	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	5.9	Not Detected
Benzene	1.3	14	4.0	46
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	6.3	5.2	26
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	21	4.7	80
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	Not Detected	8.5	Not Detected
2-Hexanone	5.0	Not Detected	21	Not Detected

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Client Sample ID: SG-01-4-5

Lab ID#: 1910343A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101608**	**Date of Collection:**	**10/14/19 10:45:00 A**
Dil. Factor:	**2.52**	**Date of Analysis:**	**10/16/19 11:28 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	2.1	5.5	9.3
m,p-Xylene	1.3	9.2	5.5	40
o-Xylene	1.3	3.2	5.5	14
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.6	Not Detected
Propylbenzene	1.3	Not Detected	6.2	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	2.4	6.2	12
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	54	Not Detected
TPH ref. to Gasoline (MW=100)	130	500	520	2000

J0 = Estimated value due to bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	117	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: SG-V-4-5

Lab ID#: 1910343A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101609**	**Date of Collection:**	**10/14/19 10:45:00 A**
Dil. Factor:	**2.33**	**Date of Analysis:**	**10/16/19 11:55 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	16	2.6	36
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	29 J0	8.8	54 J0
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	45	28	110
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	11	4.1	38
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	8.6	14	25
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	1.5	5.7	7.4
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	4.0	4.0	14
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	15	3.7	47
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	6.3	4.8	26
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	22	4.4	82
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected

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Client Sample ID: SG-V-4-5

Lab ID#: 1910343A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101609**	**Date of Collection:**	**10/14/19 10:45:00 A**
Dil. Factor:	**2.33**	**Date of Analysis:**	**10/16/19 11:55 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	2.0	5.0	8.7
m,p-Xylene	1.2	9.8	5.0	42
o-Xylene	1.2	2.3	5.0	10
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	1.9	5.7	9.6
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
TPH ref. to Gasoline (MW=100)	120	490	480	2000

J0 = Estimated value due to bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	120	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: SG-02-3-4

Lab ID#: 1910343A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101610**	**Date of Collection:**	**10/14/19 11:44:00 A**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/16/19 12:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.6	Not Detected
Freon 114	1.3	Not Detected	9.4	Not Detected
Chloromethane	13	Not Detected	28	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	6.0	3.0	13
Bromomethane	13	Not Detected	52	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.6	Not Detected
Ethanol	5.4	24 J0	10	44 J0
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Acetone	13	34	32	82
2-Propanol	5.4	Not Detected	13	Not Detected
Carbon Disulfide	5.4	Not Detected	17	Not Detected
3-Chloropropene	5.4	Not Detected	17	Not Detected
Methylene Chloride	13	Not Detected	47	Not Detected
Methyl tert-butyl ether	5.4	Not Detected	19	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Hexane	1.3	7.2	4.7	25
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	5.6	16	16
cis-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Tetrahydrofuran	1.3	Not Detected	4.0	Not Detected
Chloroform	1.3	24	6.6	120
1,1,1-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Cyclohexane	1.3	2.0	4.6	7.0
Carbon Tetrachloride	1.3	Not Detected	8.5	Not Detected
2,2,4-Trimethylpentane	1.3	8.5	6.3	40
Benzene	1.3	9.2	4.3	29
1,2-Dichloroethane	1.3	Not Detected	5.4	Not Detected
Heptane	1.3	4.2	5.5	17
Trichloroethene	1.3	Not Detected	7.2	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.2	Not Detected
1,4-Dioxane	5.4	Not Detected	19	Not Detected
Bromodichloromethane	1.3	1.8	9.0	12
cis-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.5	Not Detected
Toluene	1.3	25	5.1	95
trans-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Tetrachloroethene	1.3	Not Detected	9.1	Not Detected
2-Hexanone	5.4	Not Detected	22	Not Detected

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Client Sample ID: SG-02-3-4

Lab ID#: 1910343A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101610**	**Date of Collection:**	**10/14/19 11:44:00 A**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/16/19 12:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.2	Not Detected
Ethyl Benzene	1.3	2.6	5.8	11
m,p-Xylene	1.3	8.3	5.8	36
o-Xylene	1.3	2.4	5.8	11
Styrene	1.3	Not Detected	5.7	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.6	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.2	Not Detected
Propylbenzene	1.3	Not Detected	6.6	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.6	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.3	2.5	6.6	12
1,3-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	7.0	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,2,4-Trichlorobenzene	5.4	Not Detected	40	Not Detected
Hexachlorobutadiene	5.4	Not Detected	57	Not Detected
TPH ref. to Gasoline (MW=100)	130	340	550	1400

J0 = Estimated value due to bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	122	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1910343A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101607**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/19 10:28 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected UJ	3.8	Not Detected UJ
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1910343A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101607**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/19 10:28 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	123	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: CCV

Lab ID#: 1910343A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101605**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/19 09:10 AM**	

Compound	%Recovery
Freon 12	118
Freon 114	106
Chloromethane	91
Vinyl Chloride	84
1,3-Butadiene	81
Bromomethane	97
Chloroethane	83
Freon 11	114
Ethanol	66 Q
Freon 113	105
1,1-Dichloroethene	105
Acetone	75
2-Propanol	85
Carbon Disulfide	90
3-Chloropropene	91
Methylene Chloride	86
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	98
Hexane	90
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	96
Tetrahydrofuran	79
Chloroform	99
1,1,1-Trichloroethane	109
Cyclohexane	92
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	91
Benzene	80
1,2-Dichloroethane	102
Heptane	88
Trichloroethene	90
1,2-Dichloropropane	75
1,4-Dioxane	89
Bromodichloromethane	94
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	82
Toluene	84
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	84
Tetrachloroethene	97
2-Hexanone	85

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Client Sample ID: CCV

Lab ID#: 1910343A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101605**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/19 09:10 AM**	

Compound	%Recovery
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	87
Chlorobenzene	87
Ethyl Benzene	91
m,p-Xylene	100
o-Xylene	97
Styrene	101
Bromoform	98
Cumene	104
1,1,2,2-Tetrachloroethane	72
Propylbenzene	98
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	109
TPH ref. to Gasoline (MW=100)	100

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	114	70-130

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Client Sample ID: LCS

Lab ID#: 1910343A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/19 08:03 AM**	

Compound	%Recovery	Method Limits
Freon 12	123	70-130
Freon 114	113	70-130
Chloromethane	92	70-130
Vinyl Chloride	86	70-130
1,3-Butadiene	80	70-130
Bromomethane	99	70-130
Chloroethane	88	70-130
Freon 11	122	70-130
Ethanol	65 Q	70-130
Freon 113	106	70-130
1,1-Dichloroethene	95	70-130
Acetone	75	70-130
2-Propanol	84	70-130
Carbon Disulfide	93	70-130
3-Chloropropene	94	70-130
Methylene Chloride	87	70-130
Methyl tert-butyl ether	103	70-130
trans-1,2-Dichloroethene	108	70-130
Hexane	92	70-130
1,1-Dichloroethane	92	70-130
2-Butanone (Methyl Ethyl Ketone)	87	70-130
cis-1,2-Dichloroethene	90	70-130
Tetrahydrofuran	80	70-130
Chloroform	104	70-130
1,1,1-Trichloroethane	118	70-130
Cyclohexane	95	70-130
Carbon Tetrachloride	109	70-130
2,2,4-Trimethylpentane	86	70-130
Benzene	84	70-130
1,2-Dichloroethane	102	70-130
Heptane	94	70-130
Trichloroethene	93	70-130
1,2-Dichloropropane	74	70-130
1,4-Dioxane	91	70-130
Bromodichloromethane	99	70-130
cis-1,3-Dichloropropene	93	70-130
4-Methyl-2-pentanone	80	70-130
Toluene	86	70-130
trans-1,3-Dichloropropene	97	70-130
1,1,2-Trichloroethane	85	70-130
Tetrachloroethene	104	70-130
2-Hexanone	83	70-130

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Client Sample ID: LCS

Lab ID#: 1910343A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/19 08:03 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	104	70-130
1,2-Dibromoethane (EDB)	92	70-130
Chlorobenzene	90	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	104	70-130
o-Xylene	104	70-130
Styrene	111	70-130
Bromoform	107	70-130
Cumene	109	70-130
1,1,2,2-Tetrachloroethane	77	70-130
Propylbenzene	102	70-130
4-Ethyltoluene	106	70-130
1,3,5-Trimethylbenzene	105	70-130
1,2,4-Trimethylbenzene	106	70-130
1,3-Dichlorobenzene	99	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	106	70-130
1,2-Dichlorobenzene	99	70-130
1,2,4-Trichlorobenzene	92	70-130
Hexachlorobutadiene	109	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	128	70-130
4-Bromofluorobenzene	120	70-130

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Client Sample ID: LCSD

Lab ID#: 1910343A-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/19 08:28 AM**	

Compound	%Recovery	Method Limits
Freon 12	114	70-130
Freon 114	101	70-130
Chloromethane	86	70-130
Vinyl Chloride	85	70-130
1,3-Butadiene	79	70-130
Bromomethane	94	70-130
Chloroethane	85	70-130
Freon 11	112	70-130
Ethanol	67 Q	70-130
Freon 113	102	70-130
1,1-Dichloroethene	92	70-130
Acetone	67 Q	70-130
2-Propanol	81	70-130
Carbon Disulfide	88	70-130
3-Chloropropene	85	70-130
Methylene Chloride	82	70-130
Methyl tert-butyl ether	97	70-130
trans-1,2-Dichloroethene	99	70-130
Hexane	85	70-130
1,1-Dichloroethane	84	70-130
2-Butanone (Methyl Ethyl Ketone)	86	70-130
cis-1,2-Dichloroethene	80	70-130
Tetrahydrofuran	74	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	110	70-130
Cyclohexane	86	70-130
Carbon Tetrachloride	101	70-130
2,2,4-Trimethylpentane	81	70-130
Benzene	83	70-130
1,2-Dichloroethane	103	70-130
Heptane	88	70-130
Trichloroethene	94	70-130
1,2-Dichloropropane	74	70-130
1,4-Dioxane	89	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	96	70-130
4-Methyl-2-pentanone	83	70-130
Toluene	85	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	83	70-130
Tetrachloroethene	101	70-130
2-Hexanone	82	70-130

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Client Sample ID: LCSD

Lab ID#: 1910343A-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j101604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/19 08:28 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	99	70-130
1,2-Dibromoethane (EDB)	89	70-130
Chlorobenzene	89	70-130
Ethyl Benzene	92	70-130
m,p-Xylene	104	70-130
o-Xylene	103	70-130
Styrene	109	70-130
Bromoform	106	70-130
Cumene	105	70-130
1,1,2,2-Tetrachloroethane	75	70-130
Propylbenzene	100	70-130
4-Ethyltoluene	124	70-130
1,3,5-Trimethylbenzene	105	70-130
1,2,4-Trimethylbenzene	105	70-130
1,3-Dichlorobenzene	95	70-130
1,4-Dichlorobenzene	101	70-130
alpha-Chlorotoluene	104	70-130
1,2-Dichlorobenzene	99	70-130
1,2,4-Trichlorobenzene	97	70-130
Hexachlorobutadiene	110	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	115	70-130

eurofins | Air Toxics

10/17/2019
Ms. Lauren Evans
Eurofins Test America
2960 Foster Creighton Dr.

Nashville TN 37204

Project Name: Idaho Falls Stockyard
Project #:
Workorder #: 1910343B

Dear Ms. Lauren Evans

The following report includes the data for the above referenced project for sample(s) received on 10/15/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

WORK ORDER #: 1910343B

Work Order Summary

CLIENT:	Ms. Lauren Evans Eurofins Test America 2960 Foster Creighton Dr. Nashville, TN 37204	**BILL TO:**	Accounts Payable Eurofins Test America 4104 Shuffel St NW North Canton, OH 44720
PHONE:	800-765-0980	**P.O. #**	490-177895
FAX:	615-726-3404	**PROJECT #**	Idaho Falls Stockyard
DATE RECEIVED:	10/15/2019	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/17/2019		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG-01-4-5	Modified ASTM D-1946	6.0 "Hg	15 psi
02A	SG-V-4-5	Modified ASTM D-1946	4.0 "Hg	15 psi
03A	SG-02-3-4	Modified ASTM D-1946	7.5 "Hg	15 psi
04A	Lab Blank	Modified ASTM D-1946	NA	NA
05A	LCS	Modified ASTM D-1946	NA	NA
05AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/17/19

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
Eurofins Test America
Workorder# 1910343B

Three 1 Liter Summa Canister samples were received on October 15, 2019. The laboratory performed analysis via Modified ASTM Method D-1946 for Helium in air using GC/TCD. The method involves direct injection of 1.0 mL of sample.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

The Chain of Custody (COC) information for samples SG-01-4-5, SG-V-4-5, and SG-02-3-4 did not match the entries on the sample tags with regard to sample identification. Therefore the information on the COC was used to process and report the samples.

There was a difference (greater than or equal to 5.0" Hg) between the measured canister receipt

vacuum and that which was reported on the Chain of Custody (COC) for sample SG-02-3-4. A leak test indicated that the valve was functioning properly.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SG-01-4-5

Lab ID#: 1910343B-01A

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.13	4.6

Client Sample ID: SG-V-4-5

Lab ID#: 1910343B-02A

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.12	4.8

Client Sample ID: SG-02-3-4

Lab ID#: 1910343B-03A

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.13	3.6

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Client Sample ID: SG-01-4-5

Lab ID#: 1910343B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101610c**	**Date of Collection: 10/14/19 10:45:00 A**	
Dil. Factor:	**2.52**	**Date of Analysis: 10/16/19 12:24 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.13	4.6

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-V-4-5

Lab ID#: 1910343B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101611c**	**Date of Collection: 10/14/19 10:45:00 A**	
Dil. Factor:	**2.33**	**Date of Analysis: 10/16/19 12:48 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.12	4.8

Container Type: 1 Liter Summa Canister

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Client Sample ID: SG-02-3-4

Lab ID#: 1910343B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101612c**	**Date of Collection: 10/14/19 11:44:00 A**	
Dil. Factor:	**2.69**	**Date of Analysis: 10/16/19 01:41 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.13	3.6

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1910343B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101605c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/19 09:53 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1910343B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101602c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/19 08:20 AM**	

Compound	%Recovery	Method Limits
Helium	99	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1910343B-05AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101627c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/19 09:44 PM**	

Compound	%Recovery	Method Limits
Helium	98	85-115

Container Type: NA - Not Applicable

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

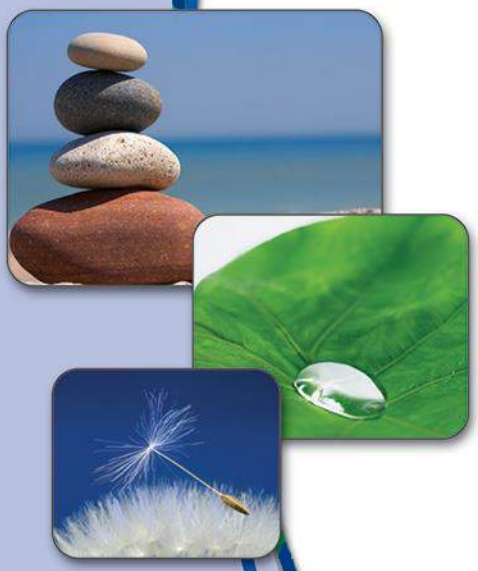
Job Number: 490-177895-1

Login Number: 177895
List Number: 1
Creator: Evans, Lauren R

List Source: Eurofins TestAmerica, Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

eurofins | Environment Testing TestAmerica



ANALYTICAL REPORT

Eurofins TestAmerica, Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

Laboratory Job ID: 490-177896-1
Client Project/Site: Idaho Falls Stockyard

For:
Stantec Consulting Corp.
9400 SW Barnes Road
Suite 200
Portland, Oregon 97225-6690

Attn: Leonard Farr

Authorized for release by:
10/18/2019 6:36:37 PM

Andy Johnson, Manager of Project Management
(615)301-5045
andy.johnson@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Idaho Falls Stockyard

Job ID: 490-177896-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
490-177896-1	SG03-4-5	Air	10/15/19 13:29	10/17/19 07:51	

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Idaho Falls Stockyard

Job ID: 490-177896-1

Method	Method Description	Protocol	Laboratory
Subcontract	TO-15	None	Eurofins

Protocol References:

None = None

Laboratory References:

Eurofins = Eurofins Air Toxics, 180 Blue Ravine Road, Suite B, Folsom, CA 95630

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Idaho Falls Stockyard

Job ID: 490-177896-1

Laboratory: Eurofins TestAmerica, Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	TN200001	04-26-20

10/18/2019
Ms. Lauren Evans
Eurofins Test America
2960 Foster Creighton Dr.

Nashville TN 37204

Project Name: Idaho Falls Stockyard
Project #: 185751005
Workorder #: 1910378A

Dear Ms. Lauren Evans

The following report includes the data for the above referenced project for sample(s) received on 10/16/2019 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker

Project Manager

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WORK ORDER #: 1910378A

Work Order Summary

CLIENT:	Ms. Lauren Evans Eurofins Test America 2960 Foster Creighton Dr. Nashville, TN 37204	**BILL TO:**	Accounts Payable Eurofins Test America 4104 Shuffel St NW North Canton, OH 44720
PHONE:	800-765-0980	**P.O. #**	490-177896
FAX:	615-726-3404	**PROJECT #**	185751005 Idaho Falls Stockyard
DATE RECEIVED:	10/16/2019	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/18/2019		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG03-4-5	TO-15	4.9 "Hg	14.8 psi
02A	Lab Blank	TO-15	NA	NA
03A	CCV	TO-15	NA	NA
04A	LCS	TO-15	NA	NA
04AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/18/19

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Eurofins Test America
Workorder# 1910378A

One 1 Liter Summa Canister sample was received on October 16, 2019. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) information for sample SG03-4-5 did not match the information on the canister with regard to canister barcode. The sample labeled 4 on the COC is labeled as 1L1989 on the canister. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG03-4-5

Lab ID#: 1910378A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.2	10	2.6	23
Ethanol	4.8	20	9.0	38
Acetone	12	40	28	94
Hexane	1.2	6.0	4.2	21
2-Butanone (Methyl Ethyl Ketone)	4.8	12	14	37
Chloroform	1.2	1.5	5.8	7.5
Cyclohexane	1.2	1.5	4.1	5.2
Benzene	1.2	9.2	3.8	29
Heptane	1.2	4.5	4.9	18
Toluene	1.2	28	4.5	100
Tetrachloroethene	1.2	9.3	8.1	63
Ethyl Benzene	1.2	3.3	5.2	14
m,p-Xylene	1.2	14	5.2	61
o-Xylene	1.2	4.1	5.2	18
4-Ethyltoluene	1.2	2.6	5.9	13
1,2,4-Trimethylbenzene	1.2	2.8	5.9	14
TPH ref. to Gasoline (MW=100)	120	420	490	1700

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Client Sample ID: SG03-4-5

Lab ID#: 1910378A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101724**	**Date of Collection:**	**10/15/19 1:29:00 PM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**10/17/19 11:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	10	2.6	23
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Ethanol	4.8	20	9.0	38
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	40	28	94
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	6.0	4.2	21
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	12	14	37
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	1.5	5.8	7.5
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	1.5	4.1	5.2
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	9.2	3.8	29
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	4.5	4.9	18
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	28	4.5	100
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	9.3	8.1	63
2-Hexanone	4.8	Not Detected	20	Not Detected

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Client Sample ID: SG03-4-5

Lab ID#: 1910378A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101724**	**Date of Collection:**	**10/15/19 1:29:00 PM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**10/17/19 11:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	3.3	5.2	14
m,p-Xylene	1.2	14	5.2	61
o-Xylene	1.2	4.1	5.2	18
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	2.6	5.9	13
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	2.8	5.9	14
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
TPH ref. to Gasoline (MW=100)	120	420	490	1700

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1910378A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101723**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/19 09:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1910378A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101723**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/19 09:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: CCV

Lab ID#: 1910378A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101702**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/19 11:03 AM**

Compound	%Recovery
Freon 12	87
Freon 114	92
Chloromethane	87
Vinyl Chloride	89
1,3-Butadiene	87
Bromomethane	96
Chloroethane	97
Freon 11	86
Ethanol	73
Freon 113	94
1,1-Dichloroethene	98
Acetone	93
2-Propanol	80
Carbon Disulfide	105
3-Chloropropene	101
Methylene Chloride	74
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	100
Hexane	93
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	103
Tetrahydrofuran	84
Chloroform	97
1,1,1-Trichloroethane	89
Cyclohexane	106
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	100
Benzene	106
1,2-Dichloroethane	83
Heptane	111
Trichloroethene	99
1,2-Dichloropropane	97
1,4-Dioxane	103
Bromodichloromethane	89
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	93
Toluene	101
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	104
Tetrachloroethene	102
2-Hexanone	97

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Client Sample ID: CCV

Lab ID#: 1910378A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/19 11:03 AM**	

Compound	%Recovery
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	103
Chlorobenzene	97
Ethyl Benzene	102
m,p-Xylene	102
o-Xylene	100
Styrene	104
Bromoform	100
Cumene	102
1,1,2,2-Tetrachloroethane	100
Propylbenzene	100
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	96
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	102
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCS

Lab ID#: 1910378A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/19 11:29 AM**	

Compound	%Recovery	Method Limits
Freon 12	79	70-130
Freon 114	86	70-130
Chloromethane	67 Q	70-130
Vinyl Chloride	85	70-130
1,3-Butadiene	88	70-130
Bromomethane	89	70-130
Chloroethane	92	70-130
Freon 11	81	70-130
Ethanol	62 Q	70-130
Freon 113	92	70-130
1,1-Dichloroethene	95	70-130
Acetone	91	70-130
2-Propanol	72	70-130
Carbon Disulfide	96	70-130
3-Chloropropene	94	70-130
Methylene Chloride	74	70-130
Methyl tert-butyl ether	98	70-130
trans-1,2-Dichloroethene	92	70-130
Hexane	94	70-130
1,1-Dichloroethane	94	70-130
2-Butanone (Methyl Ethyl Ketone)	97	70-130
cis-1,2-Dichloroethene	112	70-130
Tetrahydrofuran	78	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	86	70-130
Cyclohexane	100	70-130
Carbon Tetrachloride	88	70-130
2,2,4-Trimethylpentane	96	70-130
Benzene	98	70-130
1,2-Dichloroethane	78	70-130
Heptane	101	70-130
Trichloroethene	90	70-130
1,2-Dichloropropane	91	70-130
1,4-Dioxane	94	70-130
Bromodichloromethane	85	70-130
cis-1,3-Dichloropropene	98	70-130
4-Methyl-2-pentanone	86	70-130
Toluene	97	70-130
trans-1,3-Dichloropropene	96	70-130
1,1,2-Trichloroethane	97	70-130
Tetrachloroethene	96	70-130
2-Hexanone	85	70-130

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Client Sample ID: LCS

Lab ID#: 1910378A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/19 11:29 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	91	70-130
1,2-Dibromoethane (EDB)	96	70-130
Chlorobenzene	91	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	95	70-130
o-Xylene	96	70-130
Styrene	91	70-130
Bromoform	92	70-130
Cumene	95	70-130
1,1,2,2-Tetrachloroethane	97	70-130
Propylbenzene	92	70-130
4-Ethyltoluene	88	70-130
1,3,5-Trimethylbenzene	92	70-130
1,2,4-Trimethylbenzene	91	70-130
1,3-Dichlorobenzene	89	70-130
1,4-Dichlorobenzene	89	70-130
alpha-Chlorotoluene	86	70-130
1,2-Dichlorobenzene	92	70-130
1,2,4-Trichlorobenzene	85	70-130
Hexachlorobutadiene	89	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 1910378A-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/19 11:56 AM**	

Compound	%Recovery	Method Limits
Freon 12	76	70-130
Freon 114	85	70-130
Chloromethane	62 Q	70-130
Vinyl Chloride	84	70-130
1,3-Butadiene	89	70-130
Bromomethane	89	70-130
Chloroethane	93	70-130
Freon 11	80	70-130
Ethanol	64 Q	70-130
Freon 113	91	70-130
1,1-Dichloroethene	96	70-130
Acetone	92	70-130
2-Propanol	73	70-130
Carbon Disulfide	96	70-130
3-Chloropropene	93	70-130
Methylene Chloride	71	70-130
Methyl tert-butyl ether	93	70-130
trans-1,2-Dichloroethene	87	70-130
Hexane	89	70-130
1,1-Dichloroethane	89	70-130
2-Butanone (Methyl Ethyl Ketone)	93	70-130
cis-1,2-Dichloroethene	107	70-130
Tetrahydrofuran	75	70-130
Chloroform	90	70-130
1,1,1-Trichloroethane	81	70-130
Cyclohexane	94	70-130
Carbon Tetrachloride	84	70-130
2,2,4-Trimethylpentane	91	70-130
Benzene	97	70-130
1,2-Dichloroethane	78	70-130
Heptane	103	70-130
Trichloroethene	92	70-130
1,2-Dichloropropane	92	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	85	70-130
cis-1,3-Dichloropropene	98	70-130
4-Methyl-2-pentanone	86	70-130
Toluene	98	70-130
trans-1,3-Dichloropropene	94	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	96	70-130
2-Hexanone	85	70-130

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Client Sample ID: LCSD

Lab ID#: 1910378A-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/19 11:56 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	89	70-130
1,2-Dibromoethane (EDB)	96	70-130
Chlorobenzene	90	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	95	70-130
o-Xylene	96	70-130
Styrene	90	70-130
Bromoform	92	70-130
Cumene	94	70-130
1,1,2,2-Tetrachloroethane	96	70-130
Propylbenzene	91	70-130
4-Ethyltoluene	88	70-130
1,3,5-Trimethylbenzene	90	70-130
1,2,4-Trimethylbenzene	91	70-130
1,3-Dichlorobenzene	88	70-130
1,4-Dichlorobenzene	88	70-130
alpha-Chlorotoluene	86	70-130
1,2-Dichlorobenzene	90	70-130
1,2,4-Trichlorobenzene	86	70-130
Hexachlorobutadiene	90	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	81	70-130
4-Bromofluorobenzene	103	70-130

10/18/2019
Ms. Lauren Evans
Eurofins Test America
2960 Foster Creighton Dr.

Nashville TN 37204

Project Name: Idaho Falls Stockyard
Project #: 185751005
Workorder #: 1910378B

Dear Ms. Lauren Evans

The following report includes the data for the above referenced project for sample(s) received on 10/16/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

WORK ORDER #: 1910378B

Work Order Summary

CLIENT:	Ms. Lauren Evans Eurofins Test America 2960 Foster Creighton Dr. Nashville, TN 37204	**BILL TO:**	Accounts Payable Eurofins Test America 4104 Shuffel St NW North Canton, OH 44720
PHONE:	800-765-0980	**P.O. #**	490-177896
FAX:	615-726-3404	**PROJECT #**	185751005 Idaho Falls Stockyard
DATE RECEIVED:	10/16/2019	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/18/2019		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG03-4-5	Modified ASTM D-1946	4.9 "Hg	14.8 psi
02A	Lab Blank	Modified ASTM D-1946	NA	NA
03A	LCS	Modified ASTM D-1946	NA	NA
03AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/18/19

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
Eurofins Test America
Workorder# 1910378B

One 1 Liter Summa Canister sample was received on October 16, 2019. The laboratory performed analysis via Modified ASTM Method D-1946 for Helium in air using GC/TCD. The method involves direct injection of 1.0 mL of sample.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

The Chain of Custody (COC) information for sample SG03-4-5 did not match the information on the canister with regard to canister barcode. The sample labeled 4 on the COC is labeled as 1L1989 on the canister. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

eurofins | Air Toxics

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SG03-4-5

Lab ID#: 1910378B-01A

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.12	10

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Client Sample ID: SG03-4-5

Lab ID#: 1910378B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101709c**	**Date of Collection: 10/15/19 1:29:00 PM**	
Dil. Factor:	**2.40**	**Date of Analysis: 10/17/19 12:03 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.12	10

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1910378B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101703c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/19 09:08 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1910378B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101702c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/19 08:37 AM**	

Compound	%Recovery	Method Limits
Helium	99	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1910378B-03AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10101726c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/19 08:06 PM**	

Compound	%Recovery	Method Limits
Helium	99	85-115

Container Type: NA - Not Applicable

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 490-177896-1

Login Number: 177896
List Number: 1
Creator: Evans, Lauren R

List Source: Eurofins TestAmerica, Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Appendix C Data Validation Reports

DATA VALIDATION SUMMARY REPORT

GENERAL INFORMATION:

Lab Name:	Pace National Laboratory
Lab SDG/Project/Work Order:	L1149989
Project Name:	Phase II ESA, Stockyards Property 701 Northgate Mile
Stantec Project Number:	185751005
Client:	City of Idaho Falls
Validator Name:	Sarah Von Raesfeld
Date of Validation:	October 21, 2019

SAMPLE INFORMATION:

Number of Samples:	6
Matrix:	Soil
Number of Trip Blanks:	None
Number of Equipment Blanks:	None
Number of Field Duplicates	One
Date of Sample Collection:	October 13-14, 2019

Sample Name:	Analyses:	Batch:
CS-01-0-3	PAHs (SW8270D SIM)	WG1364014
	Pentachlorophenol (SW8270D)	WG1363948
	OCPs (SW8081B)	WG1363534
	Ammonia-N (EPA 350.1)	WG1363934
	Nitrate-N (SW9056A)	WG1363261
	RCRA Metals (SW6020B)	WG1363721
	Mercury (SW7471B)	WG1363559
CS-02-0-3	PAHs (SW8270D SIM)	WG1364014
	Pentachlorophenol (SW8270D)	WG1363948
	OCPs (SW8081B)	WG1363534
	Ammonia-N (EPA 350.1)	WG1363934
	Nitrate-N (SW9056A)	WG1363261
	RCRA Metals (SW6020B)	WG1363721
	Mercury (SW7471B)	WG1363559
CS-03-0-3	PAHs (SW8270D SIM)	WG1364014
	Pentachlorophenol (SW8270D)	WG1363948
	OCPs (SW8081B)	WG1363534
	Ammonia-N (EPA 350.1)	WG1363934
	Nitrate-N (SW9056A)	WG1363261
	RCRA Metals (SW6020B)	WG1363721
	Mercury (SW7471B)	WG1363559

Sample Name:	Analyses:	Batch:
CS-04-0-3	PAHs (SW8270D SIM)	WG1364014
	Pentachlorophenol (SW8270D)	WG1363948
	OCPs (SW8081B)	WG1363534
	Ammonia-N (EPA 350.1)	WG1363934
	Nitrate-N (SW9056A)	WG1363261
	RCRA Metals (SW6020B)	WG1363721
	Mercury (SW7471B)	WG1363559
CS-05-0-3	PAHs (SW8270D SIM)	WG1364014
	Pentachlorophenol (SW8270D)	WG1363948
	OCPs (SW8081B)	WG1363534
	Ammonia-N (EPA 350.1)	WG1363934
	Nitrate-N (SW9056A)	WG1364094
	RCRA Metals (SW6020B)	WG1363721
	Mercury (SW7471B)	WG1363559
FD-X-0-3	PAHs (SW8270D SIM)	WG1364014
	Pentachlorophenol (SW8270D)	WG1363948
	OCPs (SW8081B)	WG1363534
	Ammonia-N (EPA 350.1)	WG1363934
	Nitrate-N (SW9056A)	WG1364094
	RCRA Metals (SW6020B)	WG1363721
	Mercury (SW7471B)	WG1363559

GENERAL DATA VALIDATION:

Case Narrative:
The laboratory did not identify any non-conformances.

Chain of Custody:
The COC is complete. All requested analyses were performed.

Sample Receipt:
All samples were received in good condition.

Holding Times:
All samples were analyzed within the required holding times.

Trip Blank Review:
The were no trip blanks submitted.

Equipment Blank Review:
Equipment blank sample, EB01-150CT19, is associated with the samples in this SDG; the data are reported in SDG L11150272.
Barium and endosulfan II were detected In EB01-150CT19 at 0.000479 and 0.0000415 mg/L, respectively. Endosulfan II was not detected in the associated samples and barium was detected at concentrations exceeding ten-times the equipment blank concentration, so no data were qualified.

Surrogates:
All surrogate recoveries were within acceptance criteria.

Elevated Reporting Limits:
RCRA metals were analyzed at a 5x dilution in all six samples, nitrate was analyzed at a 5x dilution factor in sample CS-04-0-3.

Elevated detection limits were reported but still met project goals; no data were qualified.

PER ANALYSIS:

Polycyclic Aromatic Hydrocarbons, *Method 8270D SIM* (Batch WG1364014)

Method Blanks:
No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.

Laboratory Control Sample:
The LCS percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike/Matrix Spike Duplicate:
Project samples CS-02-0-3 was analyzed as the matrix spike sample. The MS/MSD percent recoveries and RPDS were within the acceptance limits. No qualifiers are needed.

Pentachlorophenol, *Method 8270D* (Batch WG1363948)

Method Blanks:
PCP was not detected above the MDL in the laboratory method blank. No qualifiers are needed.

Laboratory Control Sample:
The LCS percent recovery was within the acceptance limits. No qualifiers are needed.

Matrix Spike/Matrix Spike Duplicate:
Project samples CS-02-0-3 was analyzed as the matrix spike sample. The MS/MSD percent recoveries and RPDS were within the acceptance limits. No qualifiers are needed.

Organochlorine Pesticides, *Method 8081B* (Batch WG1363534)

Method Blanks:
No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.

Laboratory Control Sample:
The LCS percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike/Matrix Spike Duplicate:
Project samples CS-02-0-3 was analyzed as the matrix spike sample. The MS/MSD percent recoveries and RPDs were within the acceptance limits. No qualifiers are needed.

RCRA 8 Metals, Method 6020B (Batch WG1363721)

Method Blanks:
No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:
The LCS/LCSD percent recoveries and RPDs were within the acceptance limits. No qualifiers are needed.

Matrix Spike/Matrix Spike Duplicate:
Project samples CS-02-0-3 was analyzed as the matrix spike sample. The MS/MSD percent recoveries and RPDS were within the acceptance limits. No qualifiers are needed.

Mercury, Method 7471B (Batch WG1363558)
Method Blanks: Mercury was not detected above the MDL in the laboratory method blank. No qualifiers are needed.
Laboratory Control Sample/Laboratory Control Sample Duplicate: The LCS/LCSD percent recoveries and RPD were within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: Project samples CS-02-0-3 was analyzed as the matrix spike sample. The MS/MSD percent recoveries and RPD were within the acceptance limits. No qualifiers are needed.
Ammonia Nitrogen, Method 350.1 (Batch WG1363934)
Method Blanks: Ammonia-N was not detected above the MDL in the laboratory method blank. No qualifiers are needed.
Laboratory Control Sample: The LCS percent recoveries were within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: Project samples CS-02-0-3 was analyzed as the matrix spike sample. The MS/MSD percent recoveries and RPD were within the acceptance limits. No qualifiers are needed.
Laboratory Duplicate: Project samples CS-04-0-3 was analyzed as the lab duplicate. The RPD was below the acceptance limit, no qualifiers are needed
Nitrate as Nitrogen, Method 9056A (Batches WG1364094 and WG1363261)
Method Blanks: Nitrate-N was detected at 0.168 mg/kg in the method blank for batch WG1364094. Nitrate was detected in the two associated samples at concentration greater than ten-times the blank result. No data were qualified.
Laboratory Control Sample: The LCS percent recoveries were within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: Project samples CS-02-0-3 was analyzed as the MS/MSD sample for batch WG1363261. The MSD percent recovery was less than the lower acceptance limit. Nitrate-N was qualified the as estimated with a potential low bias (J-) in the parent sample.

FIELD DUPLICATE REVIEW: One field duplicate sample was collected. Sample FD-X-0-3 is a field duplicate of sample CS-01-0-3. RPDs are calculated between the results of the original and field duplicate samples for constituents detected in both samples at concentrations exceeding five-times their respective MRLs. Constituents that met the criteria are tabulated below. The duplicate RPDs were within project acceptance limits; no data were qualified.

Sample Name	Analyte	Result	MRL	Unit	RPD
CS-01-0-3	Arsenic	3.92	0.572	mg/kg	2.8%
FD-X-0-3		4.03	0.572		
CS-01-0-3	Barium	136	1.14	mg/kg	5.3%
FD-X-0-3		129	1.14		
CS-01-0-3	Chromium	12.7	1.14	mg/kg	8.2%
FD-X-0-3		11.7	1.14		
CS-01-0-3	Lead	8.14	0.572	mg/kg	2.2%
FD-X-0-3		7.96	0.572		
CS-01-0-3	Nitrate	39.7	1.14	mg/kg	24%
FD-X-0-3		31.1	1.14		

DETERMINATION:
The data in this work order have been validated and are usable as qualified:

Sample ID	Analyte	Original Result	Validated Result	Units	Reason Code
CS-02-0-3	Nitrate-N	30.0 J6	30.0 J-	mg/kg	MSD %R < LAL

%R – percent recovery
LAL – lower acceptance limit
mg/kg – milligrams per kilogram
MSD – matrix spike duplicate

NOTES:

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

- U Indicates the analyte was analyzed for, but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.

- UJ Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).

- J Indicates the analyte was positively indentified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier as considered and detected at an estimated value. J-qualifiers may be appended with a "+" or "-" to indicate the result has a potential positive or negative bias, respectively.

- R Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

EPA. 2002. *Guidance on Environmental Data Verification and Data Validation, EPA QA/G-8.* USEPA. November 2002.

EPA. 2014a. United States Environmental Protection Agency (*USEPA) National Functional Guidelines for Inorganic Superfund Data Review, EPA-540-R-013-001.* Office of Superfund Remediation and Technology Innovation (*OSRTI).* August.

EPA. 2014b. *USEPA National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-014-002*. OSRTI. August.

Stantec. 2019. *Master Quality Assurance Project Plan Revision 1 Idaho Falls Brownfield Coalition. Cooperative Agreement No. BF-01J50701.* March 21, 2019.

DATA VALIDATION SUMMARY REPORT

GENERAL INFORMATION:

Lab Name:	Pace National Laboratory
Lab SDG/Project/Work Order:	L1150272
Project Name:	Phase II ESA, Stockyards Property 701 Northgate Mile
Stantec Project Number:	185751005
Client:	City of Idaho Falls
Validator Name:	Sarah Von Raesfeld
Date of Validation:	October 22, 2019

SAMPLE INFORMATION:

Number of Samples:	4
Matrix:	3 Soil, 1 QC water
Number of Trip Blanks:	None
Number of Equipment Blanks:	One
Number of Field Duplicates	None
Date of Sample Collection:	October 15, 2019

Sample Name:	Analyses:	Batch:
CS-06-0-3	PAHs (SW8270D SIM)	WG1364795
	Pentachlorophenol (SW8270D)	WG1364733
	OCPs (SW8081B)	WG1364783
	Ammonia-N (EPA 350.1)	WG1363934
	Nitrate-N (SW9056A)	WG1364094
	RCRA Metals (SW6020B)	WG1364412
	Mercury (SW7471B)	WG1364226
CS-07-0-3	PAHs (SW8270D SIM)	WG1364795
	Pentachlorophenol (SW8270D)	WG1364733
	Ammonia-N (EPA 350.1)	WG1363934
	Nitrate-N (SW9056A)	WG1364094
	RCRA Metals (SW6020B)	WG1364412
	Mercury (SW7471B)	WG1364226
DP-01-0.5-3	TPH DRO/ORO (SW8015D)	WG1364757
	TPH GRO (SW8015D)	WG1366699
EB01-150CT19	PAHs (SW8270D SIM)	WG1364011
	OCPs (SW8081B)	WG1364295
	Ammonia-N (EPA 350.1)	WG1363518
	Nitrate-N (SW9056A)	WG1363767
	RCRA Metals (SW6020B)	WG1364194
	Mercury (SW7470A)	WG1363969

GENERAL DATA VALIDATION:

Case Narrative: The laboratory did not identify any non-conformances.
Chain of Custody: The COC is complete. All requested analyses were performed.
Sample Receipt: All samples were received in good condition.
Holding Times: All samples were analyzed within the required holding times.
Trip Blank Review: The were no trip blanks submitted.
Equipment Blank Review: Barium and endosulfan II were detected In EB01-150CT19 at 0.000479 and 0.0000415 mg/L, respectively. Endosulfan II was not detected in the associated samples and barium was detected at concentrations exceeding ten-times the equipment blank concentration, so no data were qualified.
Surrogates: All surrogate recoveries were within acceptance criteria.
Elevated Reporting Limits: RCRA metals were analyzed at a 5x dilution in samples CS-06-0-3 and CS-07-0-3. Elevated detection limits were reported but still met project goals; no data were qualified.

PER ANALYSIS:

Gasoline Range Organics, Method 8015D (Batch WG1366699)
Method Blank: GRO was detected at 0.0292 mg/kg in the laboratory method blank and detected between the MDL and MRL in sample DP-01-0.5-3. The result was qualified as not detected at the MRL (U).
Laboratory Control Sample: The LCS percent recovery was within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: A project samples was not analyzed as the matrix spike sample. No qualifiers are needed.
Diesel and Oil Range Organics, Method 8015D (Batch WG1364757)
Method Blank: No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.
Laboratory Control Sample: The LCS percent recovery was within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: A project samples was not analyzed as the matrix spike sample. No qualifiers are needed.

Polycyclic Aromatic Hydrocarbons, *Method 8270D SIM* (Batches WG1364011 and WG1364795)
Method Blanks: No analytes were detected above the MDL in the laboratory method blanks. No qualifiers are needed.
Laboratory Control Sample: The LCS percent recoveries were within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: Project sample CS-07-0-3 was analyzed as the matrix spike sample. The MS/MSD percent recoveries and RPD were within the acceptance limits. No qualifiers are needed.
Pentachlorophenol, *Method 8270D* (Batches WG1365712 and WG1364733)
Method Blanks: PCP was not detected above the MDL in the laboratory method blanks. No qualifiers are needed.
Laboratory Control Sample: The LCS percent recoveries were within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: Project sample CS-07-0-3 was analyzed as the matrix spike sample. The MS/MSD percent recoveries and RPD were within the acceptance limits. No qualifiers are needed.
Organochlorine Pesticides, *Method 8081B* (Batches WG1364783 and WG1364295)
Method Blanks: No analytes were detected above the MDL in the laboratory method blanks. No qualifiers are needed.
Laboratory Control Sample: The LCS percent recoveries were within the acceptance limits. No qualifiers are needed
Matrix Spike/Matrix Spike Duplicate: Project samples EB01-150CT19 and CS-07-0-3 were analyzed as the matrix spike sample. The MS/MSD RPDs exceeded the control limit for five OCPs in batch WG1364295. The OCPs were not detected in EB01-150CT19 and therefore were not qualified.
RCRA 8 Metals, Method 6020B (Batches WG1364194 and WG1364412)
Method Blanks: Chromium was detected at 0.284 mg/kg in the method blank for batch WG1364412 and at 1.02 µg/L for batch WG1364194. Chromium was detected between the MDL and MRL in sample EB01-150CT19; the result was qualified as not-detected at the MRL (U). Chromium was detected in the remaining samples at concentration greater than ten-times the blank result. and was not qualified.
Laboratory Control Sample: The LCS percent recoveries were within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: Project sample CS-07-0-3 was analyzed as the matrix spike sample. The MS/MSD percent recoveries and RPD were within the acceptance limits. No qualifiers are needed.
Mercury, Methods 7470A and 7471B (Batches WG1363969 and WG1364226)
Method Blanks: No analytes were detected above the MDL in the laboratory method blanks. No qualifiers are needed.
Laboratory Control Sample: The LCS percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike/Matrix Spike Duplicate: Project sample CS-07-0-3 was analyzed as the matrix spike sample. The MS/MSD percent recoveries and RPD were within the acceptance limits. No qualifiers are needed
Ammonia as Nitrogen, Method 350.1 (Batch WG1363518)
Method Blanks: Ammonia-N was not detected above the MDL in the laboratory method blank. No qualifiers are needed.
Laboratory Control Sample: The LCS percent recovery was within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: Project sample CS-07-0-3 was analyzed as the matrix spike sample. The MS/MSD percent recoveries and RPD were within the acceptance limits. No qualifiers are needed
Nitrate as Nitrogen, Method 9056A (Batches WG1363767 and WS1364094)
Method Blanks: Nitrate-N was detected at 0.168 mg/kg in the method blank for batch WG1364094. Nitrate was detected in the two associated samples at concentration greater than ten-times the blank result. No data were qualified.
Laboratory Control Sample: The LCS percent recoveries were within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: Project samples EB01-150CT19 and CS-07-0-3 were analyzed as the matrix spike sample. The MS/MSD percent recoveries and RPDs were within the acceptance limits. No qualifiers are needed

FIELD DUPLICATE REVIEW: There were no field duplicate sample collected for this SDG.

DETERMINATION:
The data in this work order have been validated and are usable as qualified:

Sample ID	Analyte	Original Result	Validated Result	Units	Reason Code
EB01-150CT19	Chromium	0.00154 JB	0.002 U	mg/L	MB Contamination
DP-01-0.5-3	GRO	0.0876 JB	2.87 U	mg/kg	MB Contamination

MB – method blank
mg/kg – milligrams per kilogram
mg/L – milligrams per liter

NOTES:

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

- U Indicates the analyte was analyzed for, but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.

- UJ Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).

- J Indicates the analyte was positively indentified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier as considered and detected at an estimated value. J-qualifiers may be appended with a "+" or "-" to indicate the result has a potential positive or negative bias, respectively.

- R Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

EPA. 2002. *Guidance on Environmental Data Verification and Data Validation, EPA QA/G-8.* USEPA. November 2002.

EPA. 2014a. United States Environmental Protection Agency (*USEPA) National Functional Guidelines for Inorganic Superfund Data Review, EPA-540-R-013-001.* Office of Superfund Remediation and Technology Innovation (*OSRTI)*. August.

EPA. 2014b. *USEPA National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-014-002*. OSRTI. August.

Stantec. 2019. *Master Quality Assurance Project Plan Revision 1 Idaho Falls Brownfield Coalition. Cooperative Agreement No. BF-01J50701.* March 21, 2019.

DATA VALIDATION SUMMARY REPORT

GENERAL INFORMATION:

Lab Name:	Pace National Laboratory
Lab SDG/Project/Work Order:	L1152442
Project Name:	Phase II ESA, Stockyards Property 701 Northgate Mile
Stantec Project Number:	185751005
Client:	City of Idaho Falls
Validator Name:	Sarah Von Raesfeld
Date of Validation:	October 24, 2019

SAMPLE INFORMATION:

Number of Samples:	1
Matrix:	Soil
Number of Trip Blanks:	None
Number of Equipment Blanks:	None
Number of Field Duplicates	None
Date of Sample Collection:	October 15, 2019

Sample Name:	**Analyses:**	**Batch:**
DP-01-0.5-3	BTEX (SW8260B)	WG1368696

GENERAL DATA VALIDATION:

Case Narrative:
The laboratory did not identify any non-conformances.

Chain of Custody:
The COC is complete, BTEX analysis was added after samples were submitted to the laboratory.

Sample Receipt:
The sample was received in good condition.

Holding Times:
The sample was analyzed within the required holding times.

Trip Blank Review:
The were no trip blanks submitted.

Equipment Blank Review:
There was no equipment blank submitted for BTEX analysis.

Surrogates:
All surrogate recoveries were within acceptance criteria.

Elevated Reporting Limits:
There were no elevated reporting limits.

PER ANALYSIS:

Benzene, Toluene, Ethylbenzene, and Total Xylenes, Method 8260B (Batch WG1368696)
Method Blank: No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.
Laboratory Control Sample: The LCS percent recoveries were within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: A project samples was not analyzed as the matrix spike sample. No qualifiers are needed.

FIELD DUPLICATE REVIEW: There were no field duplicate sample collected for this SDG.

DETERMINATION: The data in this work order have been validated, no data were qualified. All data are usable as reported.

NOTES:

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

- U Indicates the analyte was analyzed for, but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.

- UJ Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).

- J Indicates the analyte was positively indentified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier as considered and detected at an estimated value. J-qualifiers may be appended with a "+" or "-" to indicate the result has a potential positive or negative bias, respectively.

- R Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

EPA. 2002. *Guidance on Environmental Data Verification and Data Validation, EPA QA/G-8.* USEPA. November 2002.

EPA. 2014a. United States Environmental Protection Agency (*USEPA) National Functional Guidelines for Inorganic Superfund Data Review, EPA-540-R-013-001.* Office of Superfund Remediation and Technology Innovation (*OSRTI)*. August.

EPA. 2014b. *USEPA National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-014-002*. OSRTI. August.

Stantec. 2019. *Master Quality Assurance Project Plan Revision 1 Idaho Falls Brownfield Coalition. Cooperative Agreement No. BF-01J50701.* March 21, 2019.

DATA VALIDATION SUMMARY REPORT

GENERAL INFORMATION:

Lab Name:	Eurofins TestAmerica Laboratories, Eurofins Air Toxics
Lab SDG/Project/Work Order:	490-177895-1
Project Name:	Phase II ESA, Stockyards Property 701 Northgate Mile
Stantec Project Number:	185751005
Client:	City of Idaho Falls
Validator Name:	Sarah Von Raesfeld
Date of Validation:	October 20, 2019

SAMPLE INFORMATION:

Number of Samples:	3
Matrix:	Soil vapor
Number of Trip Blanks:	None
Number of Equipment Blanks:	None
Number of Field Duplicates	None
Date of Sample Collection:	October 14, 2019

Sample Name	Matrix	Analyses:
SG-01-4-5	SV	VOCs (EPA TO-15) Helium (ASTM D-1946)
SG-V-4-5	SV	VOCs (EPA TO-15) Helium (ASTM D-1946)
SG-02-3-4	SV	VOCs (EPA TO-15) Helium (ASTM D-1946)

GENERAL DATA VALIDATION:

Case Narrative:
The laboratory narrated sample name and receipt conditions, which are detailed below.

Chain of Custody:
The COC is complete. All requested analyses were performed.
The sample IDs were inconsistent between the COC and sample labels; the laboratory logged the samples per the COC.

Sample Receipt:
All samples were received in good condition. The laboratory-measured canister pressure differed from the pressure noted on the COC. A leak check was performed on the canister determined there was not leak. No data were qualified.

Holding Times:
All samples were analyzed within the required holding times.

Trip Blank Review:
There were no trip blanks submitted.

Equipment Blank Review:
There were no equipment blank samples submitted.

Surrogates:
All surrogate recoveries were within acceptance limits.

Elevated Reporting Limits:
Samples were analyzed at dilutions ranging between 2.33 and 2.69x due to the size of the summa canisters used.

Leak Check Review:
Helium was detected at concentrations ranging between 3.6% and 4.8% in the samples; no data were qualified.

PER ANALYSIS:

VOCs, Method TO-15

Method Blanks:
No analytes were detected above the MRL in the laboratory method blanks. No qualifiers are needed.

Laboratory Control Sample:
The LCSD prevent recovery was below the lower acceptance level for acetone and the LCS/LCD percent recoveries were below the lower acceptance level for ethanol. Both compounds were qualified as estimated with a potential low bias (J-).

Matrix Spike/Matrix Spike Duplicate:
A project sample was not analyzed for the matrix spike.

Helium, Method ASTM D-1946

Method Blanks:
No analytes were detected above the MRL in the laboratory method blanks. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:
The LCS/LCSD percent recoveries and RPD were within the acceptance limits. No qualifiers are needed.

Matrix Spike/Matrix Spike Duplicate:
A project sample was not analyzed for the matrix spike.

FIELD DUPLICATE REVIEW: One field duplicate sample was collected. Sample SG-V-4-5 is a field duplicate of sample SG-01-4-5. RPDs are calculated between the results of the original and field duplicate samples for constituents detected in both samples at concentrations exceeding five-times their respective MRLs. Constituents that met the criteria are tabulated below. The duplicate RPD was within project acceptance limits; no data were qualified.

Sample Name	Constituent	Result	MRL	Unit	RPD
SG-01-4-5	1,3-Butadiene	41	2.8	µg/m³	13%
SG-V-4-5		36	2.6		
SG-01-4-5	Benzene	46	4.0	µg/m³	2.2%
SG-V-4-5		47	3.7		
SG-01-4-5	Ethanol	54	9.5	µg/m³	0.0%
SG-V-4-5		54	8.8		
SG-01-4-5	Hexane	38	4.4	µg/m³	0.0%
SG-V-4-5		38	4.1		
SG-01-4-5	m,p-Xylene	40	5.5	µg/m³	4.9%
SG-V-4-5		42	5.0		
SG-01-4-5	Toluene	80	4.7	µg/m³	2.5%
SG-V-4-5		82	4.4		

DETERMINATION:
The data in this work order have been validated and are usable as qualified:

Sample ID	Analyte	Original Result	Validated Result	Units	Reason Code
SG-01-4-5	Ethanol	54 J0	54 J-	µg/m³	LCS/LCD %R < LAL
SG-01-4-5	Acetone	110	110 J-	µg/m³	LCD %R < LAL
SG-V-4-5	Ethanol	54 J0	54 J-	µg/m³	LCS/LCD %R < LAL
SG-V-4-5	Acetone	110	110 J-	µg/m³	LCD %R < LAL
SG-02-3-4	Ethanol	44 J0	44 J-	µg/m³	LCS/LCD %R < LAL
SG-02-3-4	Acetone	82	82 J-	µg/m³	LCD %R < LAL

%R – percent recovery
µg/m³ – micrograms per cubic meter
LAL – lower acceptance limit
LC/LCSD – laboratory control sample/laboratory control sample duplicate

NOTES:

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

- U Indicates the analyte was analyzed for, but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.

- UJ Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).

- J Indicates the analyte was positively indentified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier as considered and detected at an estimated value. J-qualifiers may be appended with a "+" or "-" to indicate the result has a potential positive or negative bias, respectively.

- R Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

EPA. 2002. *Guidance on Environmental Data Verification and Data Validation, EPA QA/G-8.* USEPA. November 2002.

EPA. 2014a. United States Environmental Protection Agency (*USEPA) National Functional Guidelines for Inorganic Superfund Data Review, EPA-540-R-013-001.* Office of Superfund Remediation and Technology Innovation (*OSRTI)*. August.

EPA. 2014b. *USEPA National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-014-002*. OSRTI. August.

Stantec. 2019. *Master Quality Assurance Project Plan Revision 1 Idaho Falls Brownfield Coalition. Cooperative Agreement No. BF-01J50701.* March 21, 2019.

DATA VALIDATION SUMMARY REPORT

GENERAL INFORMATION:

Lab Name:	Eurofins TestAmerica Laboratories, Eurofins Air Toxics
Lab SDG/Project/Work Order:	490-177896-1
Project Name:	Phase II ESA, Stockyards Property 701 Northgate Mile
Stantec Project Number:	185751005
Client:	City of Idaho Falls
Validator Name:	Sarah Von Raesfeld
Date of Validation:	October 20, 2019

SAMPLE INFORMATION:

Number of Samples:	1	
Matrix:	Soil vapor	
Number of Trip Blanks:	None	
Number of Equipment Blanks:	None	
Number of Field Duplicates	None	
Date of Sample Collection:	October 15, 2019	
Sample Name	**Matrix**	**Analyses:**
SG-03-4-5	SV	VOCs (EPA TO-15) Helium (ASTM D-1946)

GENERAL DATA VALIDATION:

Case Narrative:
The laboratory narrated sample receipt conditions, which are detailed below.

Chain of Custody:
The COC is complete. All requested analyses were performed.

Sample Receipt:
The sample canister IDs were inconsistent between the COC and canister barcode; the laboratory logged the sample using the canister barcode.

Holding Times:
The sample was analyzed within the required holding times.

Trip Blank Review:
There were no trip blanks submitted.

Equipment Blank Review:
There were no equipment blank samples submitted.

Surrogates:
All surrogate recoveries were within acceptance limits.

Elevated Reporting Limits:
The sample was analyzed at a 2.40x dilution due to the size of the summa canisters used; sample detection limits were raised accordingly.

Leak Check Review:
Helium was detected at 10% in sample SG-03-4-5. All VOC results were qualified as estimated. "J" for detected compounds and "UJ" for non-detects.

PER ANALYSIS:

VOCs, Method TO-15
Method Blanks: No analytes were detected above the MRL in the laboratory method blank. No qualifiers are needed.
Laboratory Control Sample: The LCS/LCD percent recoveries were below the lower acceptance level for chloromethane and ethanol. Both compounds were qualified as estimated with a potential low bias (J-).
Matrix Spike/Matrix Spike Duplicate: A project sample was not analyzed for the matrix spike.
Helium, Method ASTM D-1946
Method Blanks: No analytes were detected above the MRL in the laboratory method blanks. No qualifiers are needed.
Laboratory Control Sample/Laboratory Control Sample Duplicate: The LCS/LCSD percent recoveries and RPD were within the acceptance limits. No qualifiers are needed.
Matrix Spike/Matrix Spike Duplicate: A project sample was not analyzed for the matrix spike.

FIELD DUPLICATE REVIEW: No field duplicate samples were collected for this SDG.

DETERMINATION:
The data in this work order have been validated and are usable as qualified:

Sample ID	Analyte	Original Result	Validated Result	Units	Reason Code
SG03-4-5	1,1,1-Trichloroethane	6.5 U	6.5 UJ	µg/m³	LCC > 5%
SG03-4-5	1,1,2,2-Tetrachloroethane	8.2 U	8.2 UJ	µg/m³	LCC > 5%
SG03-4-5	1,1,2-Trichloroethane	6.5 U	6.5 UJ	µg/m³	LCC > 5%
SG03-4-5	1,1-Dichloroethane	4.8 U	4.8 UJ	µg/m³	LCC > 5%
SG03-4-5	1,1-Dichloroethene	4.8 U	4.8 UJ	µg/m³	LCC > 5%
SG03-4-5	1,2,4-Trichlorobenzene	36 U	36 UJ	µg/m³	LCC > 5%
SG03-4-5	1,2,4-Trimethylbenzene	14	14 J	µg/m³	LCC > 5%
SG03-4-5	1,2-Dibromoethane	9.2 U	9.2 UJ	µg/m³	LCC > 5%
SG03-4-5	1,2-Dichlorobenzene	7.2 U	7.2 UJ	µg/m³	LCC > 5%
SG03-4-5	1,2-Dichloroethane	4.8 U	4.8 UJ	µg/m³	LCC > 5%
SG03-4-5	1,2-Dichloropropane	5.5 U	5.5 UJ	µg/m³	LCC > 5%
SG03-4-5	1,3,5-Trimethylbenzene	5.9 U	5.9 UJ	µg/m³	LCC > 5%
SG03-4-5	1,3-Butadiene	23	23 J	µg/m³	LCC > 5%
SG03-4-5	1,3-Dichlorobenzene	7.2 U	7.2 UJ	µg/m³	LCC > 5%
SG03-4-5	1,4-Dichlorobenzene	7.2 U	7.2 UJ	µg/m³	LCC > 5%
SG03-4-5	1,4-Dioxane	17 U	17 UJ	µg/m³	LCC > 5%
SG03-4-5	2,2,4-Trimethylpentane	5.6 U	5.6 UJ	µg/m³	LCC > 5%
SG03-4-5	2-Butanone	37	37 J	µg/m³	LCC > 5%
SG03-4-5	2-Hexanone	20 U	20 UJ	µg/m³	LCC > 5%
SG03-4-5	2-Propanol	12 U	12 UJ	µg/m³	LCC > 5%
SG03-4-5	3-Chloropropene	15 U	15 UJ	µg/m³	LCC > 5%
SG03-4-5	4-Ethyltoluene	13	13 J	µg/m³	LCC > 5%
SG03-4-5	4-Methyl-2-pentanone	4.9 U	4.9 UJ	µg/m³	LCC > 5%
SG03-4-5	Acetone	94	94 J	µg/m³	LCC > 5%
SG03-4-5	alpha-Chlorotoluene	6.2 U	6.2 UJ	µg/m³	LCC > 5%
SG03-4-5	Benzene	29	29 J	µg/m³	LCC > 5%
SG03-4-5	Bromodichloromethane	8.0 U	8.0 UJ	µg/m³	LCC > 5%
SG03-4-5	Bromoform	12 U	12 UJ	µg/m³	LCC > 5%
SG03-4-5	Bromomethane	47 U	47 UJ	µg/m³	LCC > 5%
SG03-4-5	Carbon Disulfide	15 U	15 UJ	µg/m³	LCC > 5%
SG03-4-5	Carbon Tetrachloride	7.6 U	7.6 UJ	µg/m³	LCC > 5%
SG03-4-5	Chlorobenzene	5.5 U	5.5 UJ	µg/m³	LCC > 5%
SG03-4-5	Chloroethane	13 U	13 UJ	µg/m³	LCC > 5%
SG03-4-5	Chloroform	7.5	7.5 J	µg/m³	LCC > 5%
SG03-4-5	Chloromethane	25 U	25 UJ	µg/m³	LCC > 5%; LCS/LCSD %R < LAL
SG03-4-5	cis-1,2-Dichloroethene	4.8 U	4.8 UJ	µg/m³	LCC > 5%
SG03-4-5	cis-1,3-Dichloropropene	5.4 U	5.4 UJ	µg/m³	LCC > 5%
SG03-4-5	Cumene	5.9 U	5.9 UJ	µg/m³	LCC > 5%
SG03-4-5	Cyclohexane	5.2	5.2 J	µg/m³	LCC > 5%
SG03-4-5	Dibromochloromethane	10 U	10 UJ	µg/m³	LCC > 5%
SG03-4-5	Ethanol	38	38 J-	µg/m³	LCC > 5%; LCS/LCSD %R < LAL
SG03-4-5	Ethyl Benzene	14	14 J	µg/m³	LCC > 5%
SG03-4-5	Freon 11	6.7 U	6.7 UJ	µg/m³	LCC > 5%
SG03-4-5	Freon 113	9.2 U	9.2 UJ	µg/m³	LCC > 5%
SG03-4-5	Freon 114	8.4 U	8.4 UJ	µg/m³	LCC > 5%

Sample ID	Analyte	Original Result	Validated Result	Units	Reason Code
SG03-4-5	Freon 12	5.9 U	5.9 UJ	µg/m³	LCC > 5%
SG03-4-5	Heptane	18	18 J	µg/m³	LCC > 5%
SG03-4-5	Hexachlorobutadiene	51 U	51 UJ	µg/m³	LCC > 5%
SG03-4-5	Hexane	21	21 J	µg/m³	LCC > 5%
SG03-4-5	m,p-Xylene	61	61 J	µg/m³	LCC > 5%
SG03-4-5	Methyl tert-butyl ether	17 U	17 UJ	µg/m³	LCC > 5%
SG03-4-5	Methylene Chloride	42 U	42 UJ	µg/m³	LCC > 5%
SG03-4-5	o-Xylene	18	18 J	µg/m³	LCC > 5%
SG03-4-5	Propylbenzene	5.9 U	5.9 UJ	µg/m³	LCC > 5%
SG03-4-5	Styrene	5.1 U	5.1 UJ	µg/m³	LCC > 5%
SG03-4-5	Tetrachloroethene	63	63 J	µg/m³	LCC > 5%
SG03-4-5	Tetrahydrofuran	3.5 U	3.5 UJ	µg/m³	LCC > 5%
SG03-4-5	Toluene	100	100 J	µg/m³	LCC > 5%
SG03-4-5	GRO	1700	1700 J	µg/m³	LCC > 5%
SG03-4-5	trans-1,2-Dichloroethene	4.8 U	4.8 UJ	µg/m³	LCC > 5%
SG03-4-5	trans-1,3-Dichloropropene	5.4 U	5.4 UJ	µg/m³	LCC > 5%
SG03-4-5	Trichloroethene	6.4 U	6.4 UJ	µg/m³	LCC > 5%
SG03-4-5	Vinyl Chloride	3.1 U	3.1 UJ	µg/m³	LCC > 5%

%R – percent recovery
µg/m³ – micrograms per cubic meter
GRO – gasoline range organics
LAL – lower acceptance limit
LCC – leak check compound
LCS/LCSD – laboratory control sample/laboratory control sample duplicate

NOTES:

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

- U Indicates the analyte was analyzed for, but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.

- UJ Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).

- J Indicates the analyte was positively indentified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier as considered and detected at an estimated value. J-qualifiers may be appended with a "+" or "-" to indicate the result has a potential positive or negative bias, respectively.

- R Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

EPA. 2002. *Guidance on Environmental Data Verification and Data Validation, EPA QA/G-8.* USEPA. November 2002.

EPA. 2014a. United States Environmental Protection Agency (*USEPA) National Functional Guidelines for Inorganic Superfund Data Review, EPA-540-R-013-001.* Office of Superfund Remediation and Technology Innovation (*OSRTI)*. August.

EPA. 2014b. *USEPA National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-014-002*. OSRTI. August.

Stantec. 2019. *Master Quality Assurance Project Plan Revision 1 Idaho Falls Brownfield Coalition. Cooperative Agreement No. BF-01J50701.* March 21, 2019.

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Idaho Falls Police Department
Idaho Falls, ID
Addendum - 01

Note: Project Manual covers both buildings unless specifically noted: (Main Bldg.) or (Auxiliary Bldg.)

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SECTION 01 31 00 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative provisions for coordinating construction operations on Project, including, but not limited to, the following:

1. General coordination procedures.
2. Coordination drawings.
3. RFIs.
4. Digital project management procedures.
5. Web-based Project management software package.
6. Project meetings.

B. Each contractor shall participate in coordination requirements. Certain areas of responsibility are assigned to a specific contractor.

1.3 DEFINITIONS

~~A. BIM: Building Information Modeling.~~

~~B.~~**A.** RFI: Request for Information. Request from Owner, Architect, or Contractor seeking information required by or clarifications of the Contract Documents.

1.4 INFORMATIONAL SUBMITTALS

A. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:

1. Name, address, telephone number, and email address of entity performing subcontract or supplying products.
2. Number and title of related Specification Section(s) covered by subcontract.
3. Drawing number and detail references, as appropriate, covered by subcontract.

B. Key Personnel Names: Within 15 days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses, cellular telephone numbers, and e-mail addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.

1. Post copies of list in Project meeting room, in temporary field office, in web-based Project software directory, and in prominent location in built facility. Keep list current at all times.

1.5 GENERAL COORDINATION PROCEDURES

A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations included in different Sections that depend on each other for proper installation, connection, and operation.

1. Schedule construction operations in sequence required to obtain the best results, where installation of one part of the Work depends on installation of other components, before or after its own installation.
2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
3. Make adequate provisions to accommodate items scheduled for later installation.

B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.

1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.

C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and scheduled activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:

1. Preparation of Contractor's construction schedule.
2. Preparation of the schedule of values.
3. Installation and removal of temporary facilities and controls.
4. Delivery and processing of submittals.
5. Progress meetings.
6. Preinstallation conferences.
7. Project closeout activities.
8. Startup and adjustment of systems.

1.6 COORDINATION DRAWINGS

A. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, and additionally where installation is not completely indicated on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.

1. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:

a. Use applicable Drawings as a basis for preparation of coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
b. Coordinate the addition of trade-specific information to coordination drawings in a sequence that best provides for coordination of the information and resolution of conflicts between installed components before submitting for review.
c. Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.
d. Indicate space requirements for routine maintenance and for anticipated replacement of components during the life of the installation.
e. Show location and size of access doors required for access to concealed dampers, valves, and other controls.
f. Indicate required installation sequences.
g. Indicate dimensions shown on Drawings. Specifically note dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternative sketches to Architect indicating proposed resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.

B. Coordination Drawing Organization: Organize coordination drawings as follows:

1. Floor Plans and Reflected Ceiling Plans: Show architectural and structural elements, and mechanical, plumbing, fire-protection, fire-alarm, and electrical Work. Show locations of visible ceiling-mounted devices relative to acoustical ceiling grid. Supplement plan drawings with section drawings where required to adequately represent the Work.
2. Plenum Space: Indicate subframing for support of ceiling and wall systems, mechanical and electrical equipment, and related Work. Locate components within plenums to accommodate layout of light fixtures and other components indicated on Drawings. Indicate areas of conflict between light fixtures and other components.
3. Mechanical Rooms: Provide coordination drawings for mechanical rooms, showing plans and elevations of mechanical, plumbing, fire-protection, fire-alarm, and electrical equipment.
4. Structural Penetrations: Indicate penetrations and openings required for all disciplines.

5. Slab Edge and Embedded Items: Indicate slab edge locations and sizes and locations of embedded items for metal fabrications, sleeves, anchor bolts, bearing plates, angles, door floor closers, slab depressions for floor finishes, curbs and housekeeping pads, and similar items.
6. Mechanical and Plumbing Work: Show the following:

    a. Sizes and bottom elevations of ductwork, piping, and conduit runs, including insulation, bracing, flanges, and support systems.
    b. Dimensions of major components, such as dampers, valves, diffusers, access doors, cleanouts and electrical distribution equipment.
    c. Fire-rated enclosures around ductwork.

7. Electrical Work: Show the following:

    a. Runs of vertical and horizontal conduit 1-1/4 inches in diameter and larger.
    b. Light fixture, exit light, emergency battery pack, smoke detector, and other fire-alarm locations.
    c. Panel board, switchboard, switchgear, transformer, busway, generator, and motor-control center locations.
    d. Location of pull boxes and junction boxes, dimensioned from column center lines.

8. Fire-Protection System: Show the following:

    a. Locations of standpipes, mains piping, branch lines, pipe drops, and sprinkler heads.

9. Review: Architect will review coordination drawings to confirm that, in general, the Work is being coordinated, but not for the details of the coordination, which are Contractor's responsibility. If Architect determines that coordination drawings are not being prepared in sufficient scope or detail, or are otherwise deficient, Architect will so inform Contractor, who shall make suitable modifications and resubmit.
10. Coordination Drawing Prints: Prepare coordination drawing prints according to requirements in Section 01 33 00 "Submittal Procedures."

C. Coordination Drawing Process: Prepare coordination drawings in the following manner:

1. Schedule submittal and review of Fire Sprinkler, Plumbing, HVAC, and Electrical Shop Drawings to make required changes prior to preparation of coordination drawings.
2. Commence routing of coordination drawing files with HVAC Installer, who will provide drawing plan files denoting approved ductwork. HVAC Installer will locate ductwork and piping on a single layer, using orange color. Forward drawings to Plumbing Installer.
3. Plumbing Installer will locate plumbing and equipment on a single layer, using blue color.
4. Fire Sprinkler Installer will locate piping and equipment, using red color. Fire Sprinkler Installer shall forward drawing files to Electrical Installer.

5. Electrical Installer will indicate service and feeder conduit runs and equipment in green color. Electrical Installer shall forward drawing files to Communications and Electronic Safety and Security Installer.
6. Communications and Electronic Safety and Security Installer will indicate cable trays and cabling runs and equipment in purple color. Communications and Electronic Safety and Security Installer shall forward completed drawing files to Contractor.
7. Contractor shall perform the final coordination review. As each coordination drawing is completed, Contractor will meet with Architect to review and resolve conflicts on the coordination drawings.

D. Coordination Digital Data Files: Prepare coordination digital data files according to the following requirements:

1. File Preparation Format:

   a. Same digital data software program, version, and operating system as original Drawings.
   b. Bluebeam PDF, operating in Microsoft Windows operating system.

2. File Submittal Format: Submit or post coordination drawing files using format same as file preparation format **or PDF format**.
~~3. BIM File Incorporation: Incorporate Contractor's coordination drawing files into BIM established for Project.~~

   ~~a. Perform three-dimensional component conflict analysis as part of preparation of coordination drawings. Resolve component conflicts prior to submittal. Indicate where conflict resolution requires modification of design requirements by Architect.~~

~~4.~~**3.** Architect will furnish Contractor one set of digital data files of Drawings for use in preparing coordination digital data files.

   a. Architect makes no representations as to the accuracy or completeness of digital data files as they relate to Drawings.
   b. Digital Data Software Program: Drawings are available in Revit 2021/ AutoCAD.
   c. Contractor shall execute a data licensing agreement in the form of Agreement form acceptable to Owner and Architect.

1.7 REQUEST FOR INFORMATION (RFI)

A. General: Immediately on discovery of the need for additional information, clarification, or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.

1. Architect will return without response those RFIs submitted to Architect by other entities controlled by Contractor.

2. Coordinate and submit RFIs in a prompt manner to avoid delays in Contractor's work or work of subcontractors.

B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:

1. Project name.
2. Owner name.
3. Owner's Project number.
4. Name of Architect.
5. Architect's Project number.
6. Date.
7. Name of Contractor.
8. RFI number, numbered sequentially.
9. RFI subject.
10. Specification Section number and title and related paragraphs, as appropriate.
11. Drawing number and detail references, as appropriate.
12. Field dimensions and conditions, as appropriate.
13. Contractor's suggested resolution. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
14. Contractor's signature.
15. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.

    a. Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on attached sketches.

C. RFI Forms: Software-generated form with substantially the same content as indicated above, acceptable to Architect.

1. Attachments shall be electronic files in PDF format.

D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow seven days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.

1. The following Contractor-generated RFIs will be returned without action:

    a. Requests for approval of submittals.
    b. Requests for approval of substitutions.
    c. Requests for approval of Contractor's means and methods.
    d. Requests for coordination information already indicated in the Contract Documents.
    e. Requests for adjustments in the Contract Time or the Contract Sum.
    f. Requests for interpretation of Architect's actions on submittals.
    g. Incomplete RFIs or inaccurately prepared RFIs.

2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt by Architect of additional information.
3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 01 26 00 "Contract Modification Procedures."

    a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within 10 days of receipt of the RFI response.

E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log monthly. Use software log that is part of web-based Project management software. Software log with not less than the following:

1. Project name.
2. Name and address of Contractor.
3. Name and address of Architect.
4. RFI number, including RFIs that were returned without action or withdrawn.
5. RFI description.
6. Date the RFI was submitted.
7. Date Architect's response was received.
8. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.

F. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within seven days if Contractor disagrees with response.

1.8 DIGITAL PROJECT MANAGEMENT PROCEDURES

A. Use of Architect's Digital Data Files: Digital data files of Architect's BIM model or CAD drawings will be provided by Architect for Contractor's use during construction.

1. Digital data files may be used by Contractor in preparing coordination drawings, Shop Drawings, and Project Record Drawings.
2. Architect makes no representations as to the accuracy or completeness of digital data files as they relate to Contract Drawings.
3. Digital Drawing Software Program: Contract Drawings are available in Revit 2021/ AutoCAD.
4. Contractor shall execute a data licensing agreement in the form of Agreement form acceptable to Owner and Architect.

a. Subcontractors and other parties granted access by Contractor to Architect's digital data files shall execute a data licensing agreement in the form of Agreement acceptable to Owner and Architect.

5. The following digital data files will be furnished for each appropriate discipline:

a. Floor plans.
b. Reflected ceiling plans.

B. Web-Based Project Management Software Package: Provide, administer, and use web-based Project management software package for purposes of hosting and managing Project communication and documentation until Final Completion.

1. Web-based Project management software includes, at a minimum, the following features:

a. Compilation of Project data, including Contractor, subcontractors, Architect, Architect's consultants, Owner, and other entities involved in Project. Include names of individuals and contact information.
b. Access control for each entity for each workflow process, to determine entity's digital rights to create, modify, view, and print documents.
c. Document workflow planning, allowing customization of workflow between project entities.
d. Creation, logging, tracking, and notification for Project communications required in other Specification Sections, including, but not limited to, RFIs, submittals, Minor Changes in the Work, Construction Change Directives, and Change Orders.
e. Track status of each Project communication in real time, and log time and date when responses are provided.
f. Procedures for handling PDFs or similar file formats, allowing markups by each entity. Provide security features to lock markups against changes once submitted.
g. Processing and tracking of payment applications.
h. Processing and tracking of contract modifications.
i. Creating and distributing meeting minutes.
j. Document management for Drawings, Specifications, and coordination drawings, including revision control.
k. Management of construction progress photographs.
l. Mobile device compatibility, including smartphones and tablets.

2. Provide up to seven Project management software user licenses for use of Owner, Architect, and Architect's consultants. Provide eight hours of software training at Architect's office for web-based Project software users.
3. At completion of Project, provide digital archive in format that is readable by common desktop software applications in format acceptable to Architect. Provide data in locked format to prevent further changes.

C. PDF Document Preparation: Where PDFs are required to be submitted to Architect, prepare as follows:

1. Assemble complete submittal package into a single indexed file, incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
2. Name file with submittal number or other unique identifier, including revision identifier.
3. Certifications: Where digitally submitted certificates and certifications are required, provide a digital signature with digital certificate on where indicated.

1.9 PROJECT MEETINGS

A. General: Schedule and conduct meetings and conferences at Project site unless otherwise indicated.

1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times a minimum of seven days prior to meeting.
2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner, and Architect, within three days of the meeting.

B. Preconstruction Conference: Schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect, but no later than 15 days after execution of the Agreement.

1. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
2. Agenda: Discuss items of significance that could affect progress, including the following:

    a. Responsibilities and personnel assignments.
    b. Tentative construction schedule.
    c. Phasing.
    d. Critical work sequencing and long lead items.
    e. Designation of key personnel and their duties.
    f. Lines of communications.
    g. Use of web-based Project software.
    h. Procedures for processing field decisions and Change Orders.
    i. Procedures for RFIs.
    j. Procedures for testing and inspecting.
    k. Procedures for processing Applications for Payment.
    l. Distribution of the Contract Documents.
    m. Submittal procedures.

n. Preparation of Record Documents.
o. Use of the premises.
p. Work restrictions.
q. Working hours.
r. Responsibility for temporary facilities and controls.
s. Procedures for moisture and mold control.
t. Procedures for disruptions and shutdowns.
u. Construction waste management and recycling.
v. Parking availability.
w. Office, work, and storage areas.
x. Equipment deliveries and priorities.
y. First aid.
z. Security.
aa. Progress cleaning.

3. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.

C. Preinstallation Conferences: Conduct a preinstallation conference at Project site before each construction activity when required by other Sections and when required for coordination with other construction.

1. Attendees: Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise Architect of scheduled meeting dates.
2. Agenda: Review progress of other construction activities and preparations for the particular activity under consideration, including requirements for the following:

a. Contract Documents.
b. Options.
c. Related RFIs.
d. Related Change Orders.
e. Purchases.
f. Deliveries.
g. Submittals.
h. Review of mockups.
i. Possible conflicts.
j. Compatibility requirements.
k. Time schedules.
l. Weather limitations.
m. Manufacturer's written instructions.
n. Warranty requirements.
o. Compatibility of materials.
p. Acceptability of substrates.
q. Temporary facilities and controls.
r. Space and access limitations.
s. Regulations of authorities having jurisdiction.
t. Testing and inspecting requirements.
u. Installation procedures.

v. Coordination with other work.
w. Required performance results.
x. Protection of adjacent work.
y. Protection of construction and personnel.

3. Record significant conference discussions, agreements, and disagreements, including required corrective measures and actions.
4. Reporting: Distribute minutes of the meeting to each party present and to other parties requiring information.
5. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.

D. Project Closeout Conference: Schedule and conduct a project closeout conference, at a time convenient to Owner and Architect, but no later than 90 days prior to the scheduled date of Substantial Completion.

1. Conduct the conference to review requirements and responsibilities related to Project closeout.
2. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the meeting. Participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
3. Agenda: Discuss items of significance that could affect or delay Project closeout, including the following:

a. Preparation of Record Documents.
b. Procedures required prior to inspection for Substantial Completion and for final inspection for acceptance.
c. Procedures for completing and archiving web-based Project software site data files.
d. Submittal of written warranties.
e. Requirements for preparing operations and maintenance data.
f. Requirements for delivery of material samples, attic stock, and spare parts.
g. Requirements for demonstration and training.
h. Preparation of Contractor's punch list.
i. Procedures for processing Applications for Payment at Substantial Completion and for final payment.
j. Submittal procedures.
k. Coordination of separate contracts.
l. Installation of Owner's furniture, fixtures, and equipment.
m. Responsibility for removing temporary facilities and controls.

4. Minutes: Entity conducting meeting will record and distribute meeting minutes.

E. Progress Meetings: Conduct progress meetings at monthly intervals.

1. Coordinate dates of meetings with preparation of payment requests.

2. Attendees: In addition to representatives of Owner, and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
3. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.

    a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.

        1) Review schedule for next period.

    b. Review present and future needs of each entity present, including the following:

        1) Interface requirements.
        2) Sequence of operations.
        3) Resolution of ~~BIM component~~ **coordination drawings** conflicts.
        4) Status of submittals.
        5) Deliveries.
        6) Off-site fabrication.
        7) Access.
        8) Site use.
        9) Temporary facilities and controls.
        10) Progress cleaning.
        11) Quality and work standards.
        12) Status of correction of deficient items.
        13) Field observations.
        14) Status of RFIs.
        15) Status of Proposal Requests.
        16) Pending changes.
        17) Status of Change Orders.
        18) Pending claims and disputes.
        19) Documentation of information for payment requests.

4. Minutes: Entity responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.

    a. Schedule Updating: Revise Contractor's construction schedule after each progress meeting, where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

F. Coordination Meetings: Conduct Project coordination meetings at biweekly intervals. Project coordination meetings are in addition to specific meetings held for other purposes, such as progress meetings and preinstallation conferences.

1. Attendees: In addition to representatives of Owner, and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meetings shall be familiar with Project and authorized to conclude matters relating to the Work.
2. Agenda: Review and correct or approve minutes of the previous coordination meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.

    a. Combined Contractor's Construction Schedule: Review progress since the last coordination meeting. Determine whether each contract is on time, ahead of schedule, or behind schedule, in relation to combined Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
    b. Schedule Updating: Revise combined Contractor's construction schedule after each coordination meeting, where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with report of each meeting.
    c. Review present and future needs of each contractor present, including the following:

        1) Interface requirements.
        2) Sequence of operations.
        3) Resolution of ~~BIM component~~ **coordination drawings** conflicts.
        4) Status of submittals.
        5) Deliveries.
        6) Off-site fabrication.
        7) Access.
        8) Site use.
        9) Temporary facilities and controls.
        10) Work hours.
        11) Hazards and risks.
        12) Progress cleaning.
        13) Quality and work standards.
        14) Status of RFIs.
        15) Proposal Requests.
        16) Change Orders.
        17) Pending changes.

3. Reporting: Record meeting results and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from each meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 31 00

SECTION 07 54 19 - POLYVINYL-CHLORIDE (PVC) ROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Mechanically Fastened polyvinyl chloride (PVC) roofing system.
2. Accessory roofing materials.
3. Walkways.

1.3 DEFINITIONS

A. Roofing Terminology: Definitions in ASTM D1079 and glossary in NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" apply to work of this Section.

1.4 PREINSTALLATION MEETINGS

A. Preliminary Roofing Conference: Before starting roof deck construction, conduct conference at Project site.

1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, air barrier Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
4. Review deck substrate requirements for conditions and finishes, including flatness and fastening.
5. Review structural loading limitations of roof deck during and after roofing.
6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.

7. Review governing regulations and requirements for insurance and certificates if applicable.
8. Review temporary protection requirements for roofing system during and after installation.
9. Review roof observation and repair procedures after roofing installation.

B. Preinstallation Roofing Conference: Conduct conference at Project site.

1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, air barrier Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
5. Review structural loading limitations of roof deck during and after roofing.
6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.
7. Review governing regulations and requirements for insurance and certificates if applicable.
8. Review temporary protection requirements for roofing system during and after installation.
9. Review roof observation and repair procedures after roofing installation.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Include roof plans, sections, details, and attachments to other work, including the following:

1. Layout and thickness of insulation.
2. Base flashings and membrane terminations.
3. Flashing details at penetrations.
4. Insulation fastening patterns for corner, perimeter, and field-of-roof locations.

C. Samples for Verification: For the following products:

1. Roof membrane and flashing, of color required.
2. Walkway pads or rolls, of color required.

D. Wind Uplift Resistance Submittal: For roofing system, indicating compliance with wind uplift performance requirements.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and manufacturer.

B. Manufacturer Certificates:

1. Performance Requirement Certificate: Signed by roof membrane manufacturer, certifying that roofing system complies with requirements specified in "Performance Requirements" Article.

a. Submit evidence of compliance with performance requirements.

2. Special Warranty Certificate: Signed by roof membrane manufacturer, certifying that all materials supplied under this Section are acceptable for special warranty.

C. Product Test Reports: For roof membrane and insulation, tests performed by independent qualified testing agency indicating compliance with specified requirements.

D. Evaluation Reports: For components of roofing system, from ICC-ES.

E. Field Test Reports:

1. Fastener-pullout test results and manufacturer's revised requirements for fastener patterns.

F. Field quality-control reports.

G. Sample Warranties: For manufacturer's special warranties.

1.7 CLOSEOUT SUBMITTALS

A. Maintenance Data: For roofing system to include in maintenance manuals.

1.8 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturers: A qualified manufacturer that is listed in FM Approvals' RoofNav for roofing system identical to that used for this Project.
2. Installers: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.

B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.

1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.

C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.

D. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.

1.10 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.11 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.

1. Special warranty includes roof membrane, base flashings, roof insulation, fasteners, cover boards, and other components of roofing system.
2. Warranty Period: 20 years from date of Substantial Completion.

B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering the Work of this Section, including all components of roofing system such as roof membrane, base flashing, roof insulation, fasteners, cover boards, and walkway products, for the following warranty period:

1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General Performance: Installed roofing and base flashings to withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Roof system and flashings to remain watertight.

1. Accelerated Weathering: Roof membrane to withstand 2000 hours of exposure when tested according to ASTM G152, ASTM G154, or ASTM G155.
2. Impact Resistance: Roof membrane to resist impact damage when tested according to ASTM D3746, ASTM D4272/D4272M, or the "Resistance to Foot Traffic Test" in FM Approvals 4470.

B. Material Compatibility: Roofing materials to be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roof membrane manufacturer based on testing and field experience.

C. Wind Uplift Resistance: Design roofing system to resist the following wind uplift pressures when tested according to FM Approvals 4474, UL 580, or UL 1897:

1. Zone 1 (Roof Area Field): As indicated.
2. Zone 2 (Roof Area Perimeter): As indicated.

a. Location: From roof edge to distance indicated inside roof edge.

3. Zone 3 (Roof Area Corners): As indicated.

a. Location: From roof edge to distance indicated inside roof edge.

D. SPRI's Directory of Roof Assemblies Listing: Roof membrane, base flashings, and component materials comply with requirements in FM Approvals 4450 or FM Approvals 4470 as part of a roofing system, and are listed in SPRI's Directory of Roof Assemblies for roof assembly identical for that specified for this Project.

E. ENERGY STAR Listing: Roofing system to be listed on the DOE's ENERGY STAR "Roof Products Qualified Product List" for low-slope roof products.

F. Fire-Resistance Ratings: Comply with fire-resistance-rated assembly designs indicated. Identify products with appropriate markings of applicable testing agency.

2.2 POLYVINYL CHLORIDE (PVC) ROOFING

A. PVC Sheet Type III: ASTM D4434/D4434M, fabric reinforced.

1. Basis-of-Design Product: Subject to compliance with requirements, provide Sika Sarnafil; Sika Corporation; S 327-18 EL, or a comparable product by one of the following:

    a. Johns Manville; a Berkshire Hathaway company.
    b. Soprema, Inc.

2. Thickness: ~~72~~**60** mils.
3. Exposed Face Color: Reflective Gray.

B. Source Limitations: Obtain components for roofing system from roof membrane manufacturer.

2.3 ACCESSORY ROOFING MATERIALS

A. General: Accessory materials recommended by roofing system manufacturer for intended use and compatible with other roofing components.

1. Adhesives and Sealants: Comply with VOC limits of authorities having jurisdiction.

B. Sheet Flashing: Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as PVC sheet.

C. Prefabricated Pipe Flashings: As recommended by roof membrane manufacturer.

D. Roof Vents: As recommended by roof membrane manufacturer.

1. Size: Not less than 4-inch diameter.

E. Bonding Adhesive: Manufacturer's standard.

F. Metal Termination Bars: Manufacturer's standard, predrilled stainless steel or aluminum bars, approximately 1 by 1/8 inch thick; with anchors.

G. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roofing components to substrate, and acceptable to roofing system manufacturer.

H. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories.

2.4 WALKWAYS

A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway pads or rolls, approximately 3/16 inch thick and acceptable to roofing system manufacturer.

1. Size: Approximately 36 by 60 inches.
2. Color: Contrasting with roof membrane.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.

1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing system installation according to roofing system manufacturer's written instructions. Remove sharp projections.

B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.

C. Perform fastener-pullout tests according to roof system manufacturer's written instructions.

1. Submit test result within 24 hours of performing tests.

a. Include manufacturer's requirements for any revision to previously submitted fastener patterns required to achieve specified wind uplift requirements.

3.3 INSTALLATION OF ROOFING, GENERAL

A. Install roofing system according to roofing system manufacturer's written instructions, listed roof assembly requirements, and FM Global Property Loss Prevention Data Sheet 1-29.

B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at end of workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

3.4 INSTALLATION OF MECHANICALLY FASTENED ROOF MEMBRANE

A. Mechanically fasten roof membrane over area to receive roofing according to roofing system manufacturer's written instructions.

B. Unroll roof membrane and allow to relax before installing.

C. For in-splice attachment, install roof membrane with long dimension perpendicular to steel roof deck flutes.

D. Start installation of roofing in presence of roofing system manufacturer's technical personnel.

E. Accurately align roof membrane, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.

F. Mechanically fasten or adhere roof membrane securely at terminations, penetrations, and perimeter of roofing.

G. Apply roof membrane with side laps shingled with slope of roof deck where possible.

H. In-Seam Attachment: Secure one edge of PVC sheet using fastening plates or metal battens centered within seam, and mechanically fasten PVC sheet to roof deck.

I. Seams: Clean seam areas, overlap roof membrane, and hot-air weld side and end laps of roof membrane and sheet flashings to ensure a watertight seam installation.

1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of roof membrane and sheet flashings.
2. Verify field strength of seams a minimum of twice daily, and repair seam sample areas.
3. Repair tears, voids, and lapped seams in roof membrane that do not comply with requirements.

J. Spread sealant bed over deck-drain flange at roof drains, and securely seal roof membrane in place with clamping ring.

3.5 INSTALLATION OF BASE FLASHING

A. Install sheet flashings and preformed flashing accessories, and adhere to substrates according to roofing system manufacturer's written instructions.

B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam area of flashing.

C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.

D. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.

E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.6 INSTALLATION OF WALKWAYS

A. Flexible Walkways: Install walkway products according to manufacturer's written instructions.

1. Install flexible walkways at the following locations:

a. Locations indicated on Drawings, and as required by roof membrane manufacturer's warranty requirements.

2. Provide 6-inch clearance between adjoining pads.
3. Heat weld to substrate or adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's written instructions.

3.7 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to inspect substrate conditions, surface preparation, roof membrane application, sheet flashings, protection, and drainage components, and to furnish reports to Architect.

~~B. Perform the following tests:~~

~~1. Low-Voltage ELD Testing: Testing agency surveys entire roof area and flashings to locate discontinuities in the roof membrane using low-voltage membrane electric field vector mapping in accordance with ASTM D8231.~~

~~a. Perform tests before overlying construction is placed.~~
~~b. After testing, repair areas of discontinuities, repeat tests, and make further repairs until roofing and flashing installations are contiguous.~~

~~1) Cost of retesting is Contractor's responsibility.~~

~~c. Testing agency to prepare survey report indicating locations of initial discontinuities, if any.~~

~~2. Testing agency to prepare survey report indicating locations of initial discontinuities, if any.~~

~~C.~~**B.** Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion, in presence of Architect, and to prepare inspection report.

~~D.~~**C.** Repair or remove and replace components of roofing system where inspections indicate that they do not comply with specified requirements.

~~E.~~**D.** Additional testing and inspecting, at Contractor's expense, will be performed to determine if replaced or additional work complies with specified requirements.

3.8 PROTECTING AND CLEANING

A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing system for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.

B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

3.9 ROOFING INSTALLER'S WARRANTY

A. WHEREAS _____ of _____, herein called the "Roofing Installer," has performed roofing and associated work ("work") on the following project:

1. Owner: <**Insert name of Owner**>.
2. Owner Address: <**Insert address**>.
3. Building Name/Type: <**Insert information**>.
4. Building Address: <**Insert address**>.
5. Area of Work: <**Insert information**>.
6. Acceptance Date: _____.
7. Warranty Period: <**Insert time**>.
8. Expiration Date: _____.

B. AND WHEREAS Roofing Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against leaks and faulty or defective materials and workmanship for designated Warranty Period,

C. NOW THEREFORE Roofing Installer hereby warrants, subject to terms and conditions herein set forth, that during Warranty Period Roofing Installer will, at Roofing Installer's own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a watertight condition.

D. This Warranty is made subject to the following terms and conditions:

1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:

    a. lightning;
    b. peak gust wind speed exceeding <**Insert mph**>;
    c. fire;
    d. failure of roofing system substrate, including cracking, settlement, excessive deflection, deterioration, and decomposition;
    e. faulty construction of parapet walls, copings, chimneys, skylights, vents, equipment supports, and other edge conditions and penetrations of the work;
    f. vapor condensation on bottom of roofing; and
    g. activity on roofing by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.

2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Roofing Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designated.
3. Roofing Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from leaks or faults or defects of work.
4. During Warranty Period, if Owner allows alteration of work by anyone other than Roofing Installer, including cutting, patching, and maintenance in connection with penetrations, attachment of other work, and positioning of anything on roof, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Roofing Installer to perform said alterations, Warranty shall not become null and void unless Roofing Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
5. During Warranty Period, if original use of roof is changed and it becomes used for, but was not originally specified for, a promenade, work deck, spray-cooled surface, flooded basin, or other use or service more severe than originally specified, this Warranty shall become null and void on date of said change, but only to the extent said change affects work covered by this Warranty.
6. Owner shall promptly notify Roofing Installer of observed, known, or suspected leaks, defects, or deterioration and shall afford reasonable opportunity for Roofing Installer to inspect work and to examine evidence of such leaks, defects, or deterioration.
7. This Warranty is recognized to be the only warranty of Roofing Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of roofing failure. Specifically, this Warranty shall not operate to relieve Roofing Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.

E. IN WITNESS THEREOF, this instrument has been duly executed this _____ day of _____, _____.

1. Authorized Signature: _____.
2. Name: _____.
3. Title: _____.

END OF SECTION 07 54 19

SECTION 08 71 00 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.
2. Sliding doors.
3. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Automatic operators.
4. Cylinders specified for doors in other sections.

C. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

D. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.
h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.

b. Complete (risers, point-to-point) access control system block wiring diagrams.
c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

F. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

I. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:

1. Ten years for mortise locks and latches.
2. Seven years for heavy duty cylindrical (bored) locks and latches.
3. Five years for exit hardware.
4. Twenty five years for manual overhead door closer bodies.
5. Five years for motorized electric latch retraction exit devices.
6. Two years for electromechanical door hardware.

1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:

a. Two Hinges: For doors with heights up to 60 inches.

b. Three Hinges: For doors with heights 61 to 90 inches.
c. Four Hinges: For doors with heights 91 to 120 inches.
d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:

a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

5. Cam Lift Hinges: Where specified provide hinges that move the door up and then lower it to create a tight seal when the door is closed.

6. Manufacturers:

a. Hager Companies (HA).
b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK).
c. Stanley Hardware (ST).

B. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge. with minimum 0.120-inch thick extruded 6060 T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:

a. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).

2.3 POWER TRANSFER DEVICES

A. Electrified Quick Connect Transfer Hinges: Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

a. Hager Companies (HA) - ETW-QC (# wires) Option.
b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - QC (# wires) Option.
c. Stanley Hardware (ST) - C Option.

B. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

a. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE) - EL-CEPT Series.

C. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:

a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Electrical Connecting Kit: QC-R001.
b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Connector Hand Tool: QC-R003.

2. Manufacturers:

a. Hager Companies (HA) - Quick Connect.

b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - QC-C Series.
c. Stanley Hardware (ST) - WH Series.

2.4 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

5. Manufacturers:

a. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
b. Trimco (TC).

B. Coordinators: ANSI/BHMA A156.3 certified door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.

1. Manufacturers:

a. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
b. Trimco (TC).

C. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.

5. Manufacturers:

a. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
b. Trimco (TC).

2.5 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

C. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Manufacturer’s Standard.

D. Removable Cores: Provide removable cores as specified, core insert, removable by use of a special key, and for use with only the core manufacturer's cylinder and door hardware.

E. Patented Cylinders: ANSI/BHMA A156.5, Grade 1 Certified Products Directory (CPD) listed cylinders employing a utility patented and restricted keyway requiring the use of a patented key. Cylinders are to be protected from unauthorized manufacture and distribution by manufacturer’s United States patents. Cylinders are to be factory keyed with owner having the ability for on-site original key cutting.

1. Patented key systems shall not be established with products that have an expired patent. Expired systems shall only be specified and supplied to support existing systems.

2. Manufacturers:

a. Corbin Russwin (RU) - Access 3 AP.
b. Sargent (SA) - Degree DG1 or DG2

F. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. New System: Key locks to a new key system as directed by the Owner.

G. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Three (3).
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).
4. Construction Control Keys (where required): Two (2).
5. Permanent Control Keys (where required): Two (2).

H. Construction Keying: Provide temporary keyed construction cores.

I. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 KEY CONTROL

A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

1. Manufacturers:

a. Lund Equipment (LU).
b. MMF Industries (MM).
c. Telkee (TK).

2.7 MECHANICAL LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.

1. Where specified, provide status indicators with highly reflective color and wording for “locked/unlocked” or “vacant/occupied” with custom wording options if required. Indicator to be located above the cylinder with the inside thumb-turn not blocking the visibility of the indicator status. Indicator window size to be a minimum of 2.1” x 0.6” with a curved design allowing a 180 degree viewing angle with protective covering to prevent tampering.

2. Manufacturers:

a. Corbin Russwin Hardware (RU) - ML2000 Series.
b. Sargent Manufacturing (SA) - 8200 Series.

B. Cylindrical Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed.

1. Locks shall meet or exceed the requirements of ANSI/BHMA A156.2 Series 4000, Grade 1 with all standard trims, as follows:

a. Cycle Test: ANSI/BHMA A156.2 Grade 1 requirements with no lever sag.
b. Abusive Locked Lever Torque: Exceed 3,100 in-lb with no entry; lock to maintain egress functionality in compliance with BHMA certification requirements.
c. Offset Lever Pull: Exceed 1,600 lbs with no entry (8 times ANSI/BHMA A156.2 requirements).
d. Latch Retraction with Preload: Exceed 100 lb preload while maintaining ANSI/BHMA requirements for operation in warped doors (2 times ANSI/BHMA A156.2 requirements).

2. Vertical Impact: Exceed 100 vertical impacts (20 times ANSI/BHMA A156.2 requirements).

3. Furnish with solid cast levers, standard 2 3/4” backset, and 1/2" (3/4" at rated paired openings) throw brass or stainless steel latchbolt.

4. Locks are to be non-handed and fully field reversible.

5. Extended cycle test: Locks to have been cycle tested in ordinance with ANSI/BHMA 156.2 requirements to 12 million cycles.

6. Manufacturers:

a. Sargent Manufacturing (SA) - 10X Line.

2.8 ELECTROMECHANICAL LOCKING DEVICES

A. Electromechanical Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed, subject to same compliance standards and requirements as mechanical mortise locksets, electrified locksets to be of type and design as specified below and in the hardware sets.

1. Electrified Lock Options: Where indicated in the Hardware Sets, provide electrified options including: outside door lock/unlock trim control, latchbolt and lock/unlock status monitoring, deadbolt monitoring, and request-to-exit signaling. Support end-of-line resistors contained within the lock case. Unless otherwise indicated, provide electrified locksets standard as fail secure.

2. Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.

3. Manufacturers:

    a. Corbin Russwin Hardware (RU) - ML20900 Series.
    b. Sargent Manufacturing (SA) - 8200 Series.

B. Electromechanical Cylindrical Locksets, Grade 1 (Heavy Duty): Subject to same compliance standards and requirements as mechanical cylindrical locksets, electrified locksets to be of type and design as specified below.

1. Electrified Lock Options: Where indicated in the Hardware Sets, provide electrified options including: outside door lock/unlock trim control and request-to-exit signaling. Unless otherwise indicated, provide electrified locksets standard as fail secure.

2. Manufacturers:

    a. Corbin Russwin Hardware (RU) - CL33900 Series.
    b. Sargent Manufacturing (SA) - 10G70/71 Series.

2.9 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.10 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.

2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer’s catalog and template book for specific requirements.

3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.

4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.

5. Flush End Caps: Provide flush end caps made of architectural metal in the same finish as the devices as in the Hardware Sets. Plastic end caps will not be acceptable.

6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.

   a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
   b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.

8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2” wide stiles.

9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.

10. Rail Sizing: Provide exit device rails factory sized for proper door width application.

11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

12. Hurricane and Tornado Resistance Compliance: Conventional exit devices are to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or tornado resistant products that have been independent third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.

1. Manufacturers:

a. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series.
b. Sargent Manufacturing (SA) - 80 Series.

2.11 ELECTROMECHANICAL EXIT DEVICES

A. Electromechanical Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices subject to same compliance standards and requirements as mechanical exit devices. Electrified exit devices to be of type and design as specified below and in the hardware sets.

1. Energy Efficient Design: Provide devices which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.

2. Where conventional power supplies are not sufficient, include any specific controllers required to provide the proper inrush current.

3. Motorized Electric Latch Retraction: Devices with an electric latch retraction feature must use motors which have a maximum current draw of 600mA. Solenoid driven latch retraction is not acceptable.

4. Manufacturers:

a. Corbin Russwin Hardware (RU) - ED5000 Series.
b. Sargent Manufacturing (SA) - 80 Series.

2.12 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.

2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.

4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.

1. Manufacturers:

   a. Corbin Russwin Hardware (RU) – DC6000 Series.
   b. Sargent Manufacturing (SA) - 281 Series.

2.13 ELECTROHYDRAULIC DOOR OPERATORS

A. General: Provide low energy operators of size recommended by manufacturer for door size, weight, and movement; for condition of exposure; and for compliance with UL 325. Coordinate operator mechanisms with door operation, hinges, and activation devices.
   1. Fire-Rated Doors: Provide door operators for fire-rated door assemblies that comply with NFPA 80 for fire-rated door components and are listed and labeled by a qualified testing agency.

B. Standard: Certified ANSI/BHMA A156.19.

C. Performance Requirements:

1. Opening Force if Power Fails: Not more than 15 lbf required to release a latch if provided, not more than 30 lbf required to manually set door in motion, and not more than 15 lbf required to fully open door.
2. Entrapment Protection: Not more than 15 lbf required to prevent stopped door from closing or opening.

D. Configuration: Surface mounted or in-ground as required. Door operators to control single swinging and pair of swinging doors.

E. Operation: Power opening and spring closing operation capable of meeting ANSI A117.1 accessibility guideline. Provide time delay for door to remain open before initiating closing cycle as required by ANSI/BHMA A156.19. When not in automatic mode, door operator to function as manual door closer with fully adjustable opening and closing forces, with or without electrical power.

F. Features: Operator units to have full feature adjustments for door opening and closing force and speed, backcheck, motor assist acceleration from 0 to 30 seconds, time delay, vestibule interface delay, obstruction recycle, and hold open time from 0 up to 30 seconds.

G. Provide outputs and relays on board the operator to allow for coordination of exit device latch retraction, electric strikes, magnetic locks, card readers, safety and motion sensors and specified auxiliary contacts.

H. Brackets and Reinforcements: Manufacturer's standard, fabricated from aluminum with nonferrous shims for aligning system components.

I. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Norton Door Controls (NO) - 6000 Series.

2.14 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.

2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1” LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.

3. Where plates are applied to fire rated doors with the top of the plate more than 16” above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer’s catalog and template book for specific requirements for size and applications.

4. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:

    a. Stainless Steel: 300 grade, 050-inch thick.

5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.

6. Manufacturers:

    a. Hager Companies (HA).
    b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    c. Trimco (TC).

2.15 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

    a. Hager Companies (HA).
    b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    c. Trimco (TC).

C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Manufacturers:

    a. Rixson Door Controls (RF).

2.16 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. National Guard Products (NG).
2. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).
3. Reese Enterprises, Inc. (RE).

2.17 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.18 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."

4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.5 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.6 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.7 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule.

Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

B. Manufacturer's Abbreviations:

1. GS - ASSA ABLOY Glass Solutions
2. MK – McKinney
3. NO - Norton
4. PE - Pemko
5. RO - Rockwood
6. SA - SARGENT
7. SU - Securitron
8. RF - Rixson
9. OT - Other

Hardware Sets

Set: 1.0
Doors: 176
Description: Ext Alum Pair @ Staff Entry w/ Access Control & Auto Operator

2	Continuous Hinge	CFM SLF-HD1 PT		PE
2	Electric Power Transfer	EL-CEPT (cast)		SU
2	CVR Exit Device w/ ELR	43 55 56 AD8410 Less Pull	US32D	SA
1	Mortise Cylinder	Cylinder As Required	US15	SA
1	Core	DG1 6300	US15	SA
2	Pull	RM2540-36	US32D	RO
1	Automatic Opener (double)	D6000 Series	689	NO
2	Door Stop	466-RKW	Black	RO
2	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
2	Door Position Switch	By Security Contractor (Div 28)		SU
1	Switch Post	500	689	NO
1	Wall Switch	704		NO
1	Keyswitch	MKA		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Balance of hardware including thresholds and perimeter weatherstripping by the aluminum door supplier.

Doors are normally closed and locked. Presenting valid credential to reader temporarily retracts latch bolt permitting entry. Always free egress. Request to exit (55) allows authorized egress.

As programmed by the access control system, the exterior actuator will initiate opening cycle of automatic operator. From non secure side activating door switch will retract latchbolt and initiate opening cycle of automatic operator. Keyswitch to power operator on/off.

Set: 2.0
Doors: 238A, 238B
Description: Ext Alum Pair @ Lobby w/ Access Control & Auto Operator

2	Continuous Hinge	CFM SLF-HD1 PT		PE
2	Electric Power Transfer	EL-CEPT (cast)		SU
2	CVR Exit Device w/ ELR	43 55 56 AD8410 Less Pull	US32D	SA
1	Mortise Cylinder	Cylinder As Required	US15	SA
1	Core	DG1 6300	US15	SA
2	Pull	RM2540-36	US32D	RO
1	Automatic Opener (double)	D6000 Series	689	NO
2	Door Stop	466-RKW	Black	RO
2	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
2	Door Position Switch	By Security Contractor (Div 28)		SU
1	Keyswitch	MKA		SU
2	Door Switch	506		NO
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT
1	Video Intercom System	By Security Contractor (Div 28)		OT
1	Remote Push Buttom Release	Provided By Security Contractor		OT

Notes: Balance of hardware including thresholds and perimeter weatherstripping by the aluminum door supplier.

Doors are normally closed and locked. Presenting valid credential to reader temporarily retracts latch bolt permitting entry. Always free egress. Request to exit (55) allows authorized egress.

As programmed by the access control system, the exterior actuator will initiate opening cycle of automatic operator. From non secure side activating door switch will retract latchbolt and initiate opening cycle of automatic operator. Keyswitch to power operator on/off.

Remote release provided by the security contractor - located at reception desk

Set: 3.0
Doors: 018A
Description: Ext Alum Pair Auxiliary Building w/ Access Control & Auto Operator

2	Continuous Hinge	CFM SLF-HD1 PT		PE
2	Electric Power Transfer	EL-CEPT (cast)		SU
2	CVR Exit Device w/ ELR	43 55 56 AD8410 Less Pull	US32D	SA
1	Mortise Cylinder	Cylinder As Required	US15	SA
1	Core	DG1 6300	US15	SA
2	Pull	RM2540-36	US32D	RO
1	Automatic Opener (double)	D6000 Series	689	NO
2	Door Stop	466-RKW	Black	RO
2	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
2	Door Position Switch	By Security Contractor (Div 28)		SU
1	Keyswitch	MKA		SU
2	Door Switch	506		NO
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Balance of hardware including thresholds and perimeter weatherstripping by the aluminum door supplier.

Doors are normally closed and locked. Presenting valid credential to reader temporarily retracts latch bolt permitting entry. Always free egress. Request to exit (55) allows authorized egress.

As programmed by the access control system, the exterior actuator will initiate opening cycle of automatic operator. From non secure side activating door switch will retract latchbolt and initiate opening cycle of automatic operator. Keyswitch to power operator on/off.

Set: 4.0
Doors: 122A, 126A
Description: Ext Alum Single w/ Access Control

1	Continuous Hinge	CFM SLF-HD1 PT		PE
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	CVR Exit Device w/ ELR	43 55 56 AD8410 Less Pull	US32D	SA
1	Pull	RM2540-36	US32D	RO
1	Surface Closer	TB 281 CPS	EN	SA
1	Door Stop	466-RKW	Black	RO
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Balance of hardware including thresholds and perimeter weatherstripping by the aluminum door supplier.

Doors are normally closed and locked. Presenting valid credential to reader temporarily retracts latch bolt permitting entry. Always free egress. Request to exit (55) allows authorized egress.

Set: 5.0
Doors: 104
Description: Ext HM Evidence Vestibule Pair w/ Access Control

2	Continuous Hinge	CFM SLF-HD1 PT		PE
2	Electric Power Transfer	EL-CEPT (cast)		SU
2	Surface Vert Rod Exit, ELR	DG264 43 55 56 8706 ETND	US32D	SA
2	Core	DG2 6300	US15	SA
2	Surface Closer	TB 281 CPS	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
2	Door Stop	466-RKW	Black	RO
1	Threshold	2005AV		PE
1	Gasketing	S88D		PE
1	Rain Guard	346C		PE
2	Sweep	315CN		PE
2	Astragal	303ASTST		PE
2	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
2	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT
1	Video Intercom System	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to retract latch. Entry also by mechanical key override. Fail Secure - Power off, door remains locked. Always free egress. Request to exit (55) permits authorized egress.

Set: 6.0
Doors: 182
Description: Ext HM Corridor Pair w/ Access Control

2	Continuous Hinge	CFM SLF-HD1 PT		PE
2	Electric Power Transfer	EL-CEPT (cast)		SU
1	Surface Vert Rod Exit, ELR	DG264 43 55 56 8706 ETND	US32D	SA
1	Surface Vert Rod Exit, Dummy	43 55 8710 ETND	US32D	SA
1	Core	DG2 6300	US15	SA
2	Surface Closer	TB 281 CPS	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
2	Door Stop	466-RKW	Black	RO
1	Threshold	2005AV		PE
1	Gasketing	S88D		PE
1	Rain Guard	346C		PE
2	Sweep	315CN		PE
2	Astragal	303ASTST		PE
2	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
2	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to retract latch. Entry also by mechanical key override. Fail Secure - Power off, door remains locked. Always free egress. Request to exit (55) permits authorized egress.

Set: 7.0
Doors: G01C
Description: Ext HM Covered Storage Pair w/ Access Control

6	Hinge (heavy weight)	T4A3386 x NRP	US32D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
2	Flush Bolt	555	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Electrified Mortise Lock	DG264 NAC-82281-24v LNND	US26D	SA
1	Core	DG2 6300	US15	SA
1	Surf Overhead Stop	9-X36	689	RF
1	Surface Closer	TB 281 CPS	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Threshold	2005AV		PE
1	Gasketing	S88D		PE
1	Rain Guard	346C		PE
2	Sweep	315CN		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
2	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Astragal Included By Door Mfg

Doors are normally closed and locked. Entry by presentation of valid credential to release outside trim or by mechanical key override to retract latchbolt. Fail Secure - Power off, locks outside trim. Always free egress. Door position switch and request to exit included with lock.

Set: 8.0
Doors: 017A, 017B, 017C, 018B, 107A, 174B, 213A, 213B
Description: Ext HM Single w/ Access Control

3	Hinge (heavy weight)	T4A3386 x NRP	US32D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Rim Exit Device, ELR	DG264 43 55 56 8806 ETND	US32D	SA
1	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 CPS	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	466-RKW	Black	RO
1	Threshold	2005AV		PE
1	Gasketing	S88D		PE
1	Rain Guard	346C		PE
1	Sweep	315CN		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT
1	Viewer	620	CRM	RO

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to retract latch. Entry also by mechanical key override. Fail Secure - Power off, door remains locked. Always free egress. Request to exit (55) permits authorized egress.

Set: 9.0
Description: Ext HM Corridor Single (Delayed Egress) **NOT USED**

2	Hinge (heavy weight)	T4A3386 x NRP	US32D	MK
2	Electric Hinge (heavy weight)	T4A3386-QC8	US32D	MK
1	Fail Secure Exit Device	DG264 43 59 8876-24v ETND (15sec delayed egress)	US32D	SA
1	Mortise Cylinder	Cylinder As Required	US15	SA
2	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 CPS	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	466-RKW	Black	RO
1	Threshold	2005AV		PE
1	Gasketing	S88D		PE
1	Rain Guard	346C		PE
1	Sweep	315CN		PE
2	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
2	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT
1	Viewer	620	CRM	RO

Notes: CARD READER BOTH SIDES: Doors are normally closed and locked. Entry by presentation of valid credential from pull side of door to release outside trim and shunt device alarm. Delayed egress: depressing push rail will sound local alarm and door will remain closed for up to 15 seconds. Authorized exit when valid credential presented from push side of door temporarily disables the exit alarm allowing legal exit. Mechanical key override will also allow authorized entry and exit. Fail Secure - Power off, locks outside trim.

Set: 10.0
Doors: 147
Description: Ext HM Vehicle Sally Port (Delayed Egress)

2	Hinge (heavy weight)	T4A3386 x NRP	US32D	MK
2	Electric Hinge (heavy weight)	T4A3386-QC8	US32D	MK
1	Fail Secure Exit Device	DG264 43 59 8876-24v ETND (15sec delayed egress)	US32D	SA
1	Mortise Cylinder	Cylinder As Required	US15	SA
2	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 P10	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	466-RKW	Black	RO
1	Threshold	2005AV		PE
1	Gasketing	S88D		PE
1	Rain Guard	346C		PE
1	Sweep	315CN		PE
2	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
2	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT
1	Viewer	620	CRM	RO

Notes: CARD READER BOTH SIDES: Doors are normally closed and locked. Entry by presentation of valid credential from pull side of door to release outside trim and shunt device alarm. Delayed egress: depressing push rail will sound local alarm and door will remain closed for up to 15 seconds. Authorized exit when valid credential presented from push side of door temporarily disables the exit alarm allowing legal exit. Mechanical key override will also allow authorized entry and exit. Fail Secure - Power off, locks outside trim.

Set: 11.0
Doors: 114A
Description: Ext HM Single Vehicle Bay

3	Hinge (heavy weight)	T4A3386 x NRP	US32D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Electrified Mortise Lock	DG264 NAC-82281-24v LNND	US26D	SA
1	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 CPS	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Threshold	2005AV		PE
1	Gasketing	S88D		PE
1	Rain Guard	346C		PE
1	Sweep	315CN		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT
1	Viewer	620	CRM	RO

Notes: Doors are normally closed and locked. Entry by presentation of valid credential to release outside trim or by mechanical key override to retract latchbolt. Fail Secure - Power off, locks outside trim. Always free egress. Door position switch and request to exit included with lock.

Set: 12.0
Doors: S001B, S003B
Description: Ext HM Single Stair (exit only)

3	Hinge (heavy weight)	T4A3386 x NRP	US32D	MK
1	Rim Exit Device, Exit Only	12 43 8810 EO	US32D	SA
1	Surface Closer	TB 281 CPS	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Threshold	2005AV		PE
1	Gasketing	S88D		PE
1	Rain Guard	346C		PE
1	Sweep	315CN		PE
1	Door Position Switch	By Security Contractor (Div 28)		SU

Set: 13.0
Doors: 126B
Description: Breakroom (ALL GLASS)

1	Door Top Rail	DRS-4AC-T	US32D	GS
1	Door Bottom Rail	DRS-6AC-B	US32D	GS
1	Sidelite Rail	As Required	US32D	GS
1	OHC Header	As Required	US32D	GS
1	Bottom Pivot	PV-ENDLOAD	AL	GS
1	Door Stop	DS-3000	US32D	GS
1	Door Pull	RM3301x48BTB	US32D	GS
1	Concealed Closer	OHC-609-90NHO		GS
1	Arm	OHC-609-ARM		GS
1	Mounting Clip	OHC-609-MC		GS
1	Door Stop	446	US32D	RO

Notes: Basis of Design ASSA ABLOY P-Style - Balance of hardware by glass door supplier. Provide closer arm, pivot, cover plate, mounting brackets and clips necessary to complete the opening.

Set: 14.0
Doors: S001A, S003A
Description: Stair w/ Access Control

3	Hinge (heavy weight)	T4A3786 x NRP	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Fail Secure Exit Device	DG264 12 43 55 8876-24v ETND	US32D	SA
1	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 O	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
1	Gasketing	S88D		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Request to exit (55) allows authorized egress. Always free egress.

Set: 15.0
Doors: S001C, S003C
Description: Stair w/ Access Control (fail safe)

3	Hinge (heavy weight)	T4A3786 x NRP	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Fail Safe Exit Device	DG264 12 43 55 8875-24v ETND	US32D	SA
1	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 O	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
1	Gasketing	S88D		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Safe - Power off, unlocks outside trim. Request to exit (55) allows authorized egress. Always free egress.

Set: 16.0
Doors: 174A
Description: Staff Vestibule

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Rim Exit Device, Passage	43 8815 ETND	US32D	SA
1	Surface Closer	TB 281 P10	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
1	Gasketing	S88D		PE

Set: 17.0
Doors: 233A, 234A
Description: Single w/ Access Control LEVEL 4 BALLISTIC

1	Continuous Hinge	CFM SLF-HD1 PT		PE
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Fail Secure Lock	DG264 RX 8271-24V LNND	US26D	SA
1	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 O or P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
1	Gasketing	S88D		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: BALLISTIC RATED LEVEL IV
Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Always free egress.

Set: 18.0
Doors: 158
Description: Armory w/ Access Control

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Fail Secure Lock	DG264 RX 8271-24V LNND	US26D	SA
1	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 O or P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
1	Gasketing	S88D		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Always free egress.

Set: 19.0
Doors: 105
Description: Int Evidence Vestibule Pair LEVEL 4 BALLISTIC

2	Continuous Hinge	CFM SLF-HD1 PT		PE
2	Electric Power Transfer	EL-CEPT (cast)		SU
2	Rim Exit Device, ELR	DG264 12 43 55 56 8806 ETND	US32D	SA
2	Core	DG2 6300	US15	SA
2	Surface Closer	TB 281 P9	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
2	Door Stop	441H or 409	US26D	RO
1	Gasketing	S88D		PE
2	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
2	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to retract latch. Entry also by mechanical key override. Fail Secure - Power off, door remains locked. Always free egress. Request to exit (55) permits authorized egress.

BALLISTICS RATED LEVEL IV Mullion included by ballistic door manufacturer

Set: 20.0
Doors: 235, 236
Description: Report Taking LEVEL 4 BALLISTIC

1	Continuous Hinge	CFM SLF-HD1		PE
1	Storeroom Lock	DG160 8204 LNND	US26D	SA
1	Core	DG1 6300	US15	SA
1	Surface Closer	TB 281 O	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
1	Gasketing	S88D		PE

Notes: BALLISTIC RATED LEVEL IV

Set: 21.0
Doors: 237
Description: Secure Lobby Pair LEVEL 4 BALLISTIC

2	Continuous Hinge	CFM SLF-HD1 PT		PE
2	Electric Power Transfer	EL-CEPT (cast)		SU
2	Rim Exit Device, ELR	DG264 12 43 55 56 8806 ETND	US32D	SA
2	Core	DG2 6300	US15	SA
2	Surface Closer	TB 281 P9	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
2	Wall Stop	409	US32D	RO
1	Gasketing	S88D		PE
2	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
2	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to retract latch. Entry also by mechanical key override. Fail Secure - Power off, door remains locked. Always free egress. Request to exit (55) permits authorized egress.

BALLISTICS RATED LEVEL IV Mullion included by ballistic door manufacturer

Set: 22.0
Doors: 138, 248
Description: Electrical Room Pair w/ Access Control

6	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
2	Electric Power Transfer	EL-CEPT (cast)		SU
1	Surface Vert Rod Exit, ELR	DG264 12 43 55 56 NB8706 ETND	US32D	SA
1	Surface Vert Rod Exit, Dummy	12 43 55 NB8710 ETND	US32D	SA
1	Core	DG2 6300	US15	SA
2	Surface Closer	TB 281 PS	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Gasketing	S88D		PE
2	Astragal	303ASTST		PE
2	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
2	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to retract latch. Entry also by mechanical key override. Fail Secure - Power off, door remains locked. Always free egress. Request to exit (55) permits authorized egress.

Set: 23.0
Doors: 016, 139, 249
Description: Mechanical Room Pair w/ Access Control

6	Hinge, Full Mortise	TA2714xNRP	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Flush Bolt	2805 or 2905 (Top Only)	US26D	RO
1	Fail Secure Lock	DG264 RX 8271-24V LNND	US26D	SA
1	Core	DG2 6300	US15	SA
1	Coordinator	2600 Series x Brkt Req	US28	RO
2	Surface Closer	TB 281 PS	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Gasketing	S88D		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
2	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Always free egress. Astragal Included By Door Mfg

Set: 24.0
Doors: 004
Description: Electrical Room Pair w/ Access Control (inswing)

6	Hinge, Full Mortise	TA2714	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Flush Bolt	2805 or 2905 (Top Only)	US26D	RO
1	Fail Secure Lock	DG264 RX 8271-24V LNND	US26D	SA
1	Core	DG2 6300	US15	SA
2	Surface Closer	TB 281 O	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
2	Silencer	608		RO
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
2	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Always free egress. Astragal Included By Door Mfg

Set: 25.0
Doors: 107B, 108D, 109A
Description: Corridor From Evidence Pair

6	Hinge (heavy weight)	T4A3786 x NRP	US26D	MK
2	Electric Power Transfer	EL-CEPT (cast)		SU
1	Surface Vert Rod Exit, ELR	DG264 43 55 56 NB8706 ETND	US32D	SA
1	Surface Vert Rod Exit, Dummy	43 55 NB8710 ETND	US32D	SA
1	Core	DG2 6300	US15	SA
2	Surface Closer	TB 281 P9	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
2	Door Stop	441H or 409	US26D	RO
1	Gasketing	S88D		PE
2	Astragal	303ASTST		PE
2	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
2	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to retract latch. Entry also by mechanical key override. Fail Secure - Power off, door remains locked. Always free egress. Request to exit (55) permits authorized egress.

Set: 26.0
Doors: 181A, 181B
Description: Corridor Pair @ Lockers

6	Hinge (heavy weight)	T4A3786 x NRP	US26D	MK
2	Electric Power Transfer	EL-CEPT (cast)		SU
2	SVR Exit Dev, Classroom	DG160 43 NB8713 ETND	US32D	SA
2	Core	DG1 6300	US15	SA
2	Surface Closer	TB 281 P9	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
2	Door Stop	441H or 409	US26D	RO
1	Gasketing	S88D		PE
2	Astragal	303ASTST		PE
2	Door Position Switch	By Security Contractor (Div 28)		SU

Notes: (INFRASTRUCTURE ONLY FOR FUTURE ACCESS CONTROL)

Set: 27.0
Doors: 018C
Description: Corridor Pair @ Auxiliary Bldg

6	Hinge (heavy weight)	T4A3786 x NRP	US26D	MK
2	SVR Exit Dev, Classroom	DG160 43 NB8713 ETND	US32D	SA
2	Core	DG1 6300	US15	SA
2	Surface Closer	TB 281 CPS	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Gasketing	S88D		PE
2	Astragal	303ASTST		PE

Set: 28.0
Doors: 018D
Description: Corridor Single @ Auxiliary Bldg

3	Hinge (heavy weight)	T4A3786 x NRP	US26D	MK
1	Rim Exit Device, Classroom	DG160 43 8813 ETND	US32D	SA
1	Core	DG1 6300	US15	SA
1	Surface Closer	TB 281 CPS	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Gasketing	S88D		PE

Set: 29.0
Doors: 156C, 156D, 229B, 229C, 264A, 264D
Description: Corridor w/ Access Control

3	Hinge (heavy weight)	T4A3786 x NRP	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Fail Secure Exit Device	DG264 12 43 55 8876-24v ETND	US32D	SA
1	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
1	Gasketing	S88D		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Request to exit (55) allows authorized egress. Always free egress.

ROUGH IN FOR FUTURE ACCESS CONTROL AT 156C & 156D

Set: 30.0
Doors: 014A, 142, 149A, 205A, 207, 233B, 234B, 245, 254, 258A, 258B, 273, 274
Description: Various Single w/ Access Control

3	Hinge, Full Mortise	TA2714xNRP	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Fail Secure Lock	DG264 RX 8271-24V LNND	US26D	SA
1	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 O or P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
1	Gasketing	S88D		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Always free egress.

Set: 31.0
Doors: 008, 157, 272
Description: Various Single w/ Access Control (OHS)

3	Hinge, Full Mortise	TA2714xNRP	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Fail Secure Lock	DG264 RX 8271-24V LNND	US26D	SA
1	Core	DG2 6300	US15	SA
1	Conc Overhead Stop	1ADJ-x36	652	RF
1	Surface Closer	TB 281 P3	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Gasketing	S88D		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Always free egress.

ROUGH IN FOR FUTURE ACCESS CONTROL AT 157

Set: 32.0
Doors: 113A, 115, 119
Description: Various Single w/ Access Control (wide)

3	Hinge (heavy weight)	T4A3786 x NRP	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Fail Secure Lock	DG264 RX 8271-24V LNND	US26D	SA
1	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 O or P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
1	Gasketing	S88D		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Always free egress.

Set: 32.1
Doors: 253
Description: Tele/Data/Server w/ Access Control

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Fail Secure Lock	DG264 RX 8271-24V LNND	US26D	SA
1	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 O	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
1	Gasketing	319CS		PE
1	Door Bottom	4131CSL		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Always free egress.

Add-Alternate for FM200 Halon Fire Suppression Systems

Set: 33.0
Doors: 101, 102, 103
Description: Narcotics / Firearms w/ Access Control

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Fail Secure Lock	DG264 RX 8271-24V LNND	US26D	SA
1	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 O	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
1	Gasketing	S88D		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Power Supply	By Security Contractor (Div 28)		OT
1	Biometric Reader	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Always free egress.

Set: 34.0
Doors: 259
Description: Evidence Processing Storage w/ Access Control

3	Hinge, Full Mortise	TA2714xNRP	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
1	Fail Secure Lock	DG264 RX 8271-24V LNND	US26D	SA
1	Core	DG2 6300	US15	SA
1	Conc Overhead Stop	1ADJ-x36	652	RF
1	Surface Closer	TB 281 P3	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
3	Silencer	608		RO
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Always free egress.

Set: 35.0
Doors: 152, 153A, 153B, 208A, 208B
Description: Interview w/ Access Control STC50 Assembly

~~3~~	~~Hinge, Cam Lift~~	~~INCLUDED BY STC DOOR MFG~~	~~US32D~~	~~MK~~
3	**Hinge (heavy weight)**	**T4A3786 x NRP**	**US26D**	**MK**
1	Electric Power Transfer	EL-CEPT (cast)		SU
~~1~~	~~Fail Secure Lock~~	~~DG264 23 28 10G71-24V LP 3-3/4"BS~~	~~US26D~~	~~SA~~
1	**Fail Secure Lock**	**DG264 RX 8271-24V LNND**	**US26D**	**SA**
1	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 O	EN	SA
1	Door Stop	441H or 409	US26D	RO
1	Threshold	INCLUDED BY STC DOOR MFG		PE
1	STC SEAL SYSTEM	INCLUDED BY STC DOOR MFG		PE
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

~~Notes: Access control to be reviewed and modified for STC compliance as required~~
~~Provide door viewer at 153A & 153B~~
Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Always free egress.

Provide door viewer at 153A & 153B (may affect STC rating)

Coordinate specific hardware requirements with STC Door Mfg - hinges & lock may need to be revised pending selection of STC door mfg

Basis of design Curries 757 STC50 door with standard HM frame and Pemko Seal Set #6

Set: 36.0
Doors: 148A, 148B, 148D
Description: Interview STC50 Assembly

~~3~~	~~Hinge, Cam Lift~~	~~INCLUDED BY STC DOOR MFG~~	~~US32D~~	~~MK~~
3	**Hinge (heavy weight)**	**T4A3786 x NRP**	**US26D**	**MK**
1	Electric Power Transfer	EL-CEPT (cast)		SU
~~1~~	~~Passage Latch~~	~~23 10XU15 LND 3-3/4"BS~~	~~US26D~~	~~SA~~
1	**Fail Safe Lock**	**DG264 8272-24V LNND (dbl cyl)**	**US26D**	**SA**
2	**Core**	**DG2 6300**	**US15**	**SA**
1	Wall Stop	409	US32D	RO
1	Threshold	INCLUDED BY STC DOOR MFG		PE
1	STC SEAL SYSTEM	INCLUDED BY STC DOOR MFG		PE
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	**ElectroLynx Harness**	**QC-C* Qty x Length Wires Req'd**		**MK**
2	**Card Reader / Keypad**	**By Security Contractor (Div 28)**		**OT**
1	**Power Supply**	**By Security Contractor (Div 28)**		**OT**

~~Notes: Coordinate specific hardware requirements with STC Door Mfg (INFRASTRUCTURE ONLY FOR CARD READER BOTH SIDES - FAIL SAFE)~~

Notes: CARD READER BOTH SIDES: Doors are normally closed and locked. Entry and exit by presentation of valid credential at wall reader to release trim or by mechanical key override. Fail Safe - Power off, unlocks trim.

Coordinate specific hardware requirements with STC Door Mfg - hinges & lock may need to be revised pending selection of STC door mfg

Basis of design Curries 757 STC50 door with standard HM frame and Pemko Seal Set #6

Set: 37.0
Doors: 278B
Description: Training Room Pair

6	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
2	SVR Exit Dev, Classroom	DG160 43 NB8713 ETND	US32D	SA
2	Core	DG1 6300	US15	SA
2	Surface Closer	TB 281 P9	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
2	Wall Stop	409	US32D	RO
1	Gasketing	S88D		PE
2	Astragal	303ASTST		PE

Set: 38.0
Doors: 001A, 001B, 278A
Description: Training Room Single

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Rim Exit Device, Classroom	DG160 43 8813 ETND	US32D	SA
1	Core	DG1 6300	US15	SA
1	Surface Closer	TB 281 P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
1	Gasketing	S88D		PE

Set: 39.0
Doors: 002
Description: Dutch Door @ Quartermaster Storage w/ Access Control

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Electric Hinge	TA2714-QC8	US26D	MK
1	Surface Bolt	630-4	US26D	RO
1	Fail Secure Lock	DG264 28 10G71-24V LP	US26D	SA
1	Core	DG2 6300	US15	SA
2	Door Stop	441H or 409	US26D	RO
3	Silencer	608		RO
1	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Doors are normally closed and locked. Entry by presentation of valid credential at wall reader to release outside trim or by mechanical key override when lock is not energized. Fail Secure - Power off, locks outside trim. Always free egress.

Dutch door shelf included by door manufacturer

Set: 40.0
Doors: 001.1
Description: Defensive Tactics Storage Pair (OHS)

6	Hinge, Full Mortise	TA2714	US26D	MK
2	Flush Bolt	555	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Storeroom Lock	DG160 10XG04 LND	US26D	SA
1	Core	DG1 6300	US15	SA
2	Conc Overhead Stop	1ADJ-x36	652	RF
2	Silencer	608		RO

Set: 41.0
Doors: 149, 215
Description: Storage Pair (OHS)

6	Hinge, Full Mortise	TA2714	US26D	MK
1	Flush Bolt	555	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Storeroom Lock	DG160 10XG04 LND	US26D	SA
1	Core	DG1 6300	US15	SA
2	Conc Overhead Stop	1ADJ-x36	652	RF
2	Silencer	608		RO

Notes: Astragal Included By Door Mfg

Set: 42.0
Doors: 003, 116, 121
Description: Storage (w/ closer)

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom Lock	DG160 10XG04 LND	US26D	SA
1	Core	DG1 6300	US15	SA
1	Surface Closer	TB 281 O or P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
3	Silencer	608		RO

Set: 43.0
Doors: 120, 125, 155, 163, 220, 228, 252
Description: Storage (no closer)

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom Lock	DG160 10XG04 LND	US26D	SA
1	Core	DG1 6300	US15	SA
1	Door Stop	441H or 409	US26D	RO
3	Silencer	608		RO

Set: 44.0
Doors: 009, 122C, 212
Description: Storage (OHS, no closer)

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom Lock	DG160 10XG04 LND	US26D	SA
1	Core	DG1 6300	US15	SA
1	Conc Overhead Stop	1ADJ-x36	652	RF
3	Silencer	608		RO

Set: 45.0
Doors: 122D, 122E, 126C
Description: Physical Agility / Break Room

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Rim Exit Device, Passage	43 8815 ETND	US32D	SA
1	Surface Closer	TB 281 P10	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
1	Gasketing	S88D		PE

Set: 46.0
Doors: 165A, 165B
Description: Briefing Room

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Rim Exit Device, Passage	43 8815 ETND	US32D	SA
1	Surface Closer	TB 281 P10	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO

Set: 47.0
Doors: 151
Description: Corridor (Delayed Egress)

2	Hinge (heavy weight)	T4A3786 x NRP	US26D	MK
2	Electric Hinge, Hvy Wt	T4A3786-QC8	US26D	MK
1	Fail Secure Exit Device	DG264 43 59 8876-24v ETND (15sec delayed egress)	US32D	SA
1	Mortise Cylinder	Cylinder As Required	US15	SA
2	Core	DG2 6300	US15	SA
1	Surface Closer	TB 281 P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
1	Gasketing	S88D		PE
2	ElectroLynx Harness	QC-C* Qty x Length Wires Req'd		MK
1	Door Position Switch	By Security Contractor (Div 28)		SU
2	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: CARD READER BOTH SIDES: Doors are normally closed and locked. Entry by presentation of valid credential from pull side of door to release outside trim and shunt device alarm. Delayed egress: depressing push rail will sound local alarm and door will remain closed for up to 15 seconds. Authorized exit when valid credential presented from push side of door temporarily disables the exit alarm allowing legal exit. Mechanical key override will also allow authorized entry and exit. Fail Secure - Power off, locks outside trim.

Set: 47.1
Doors: 148C
Description: Interview Corridor

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Passage Latch	10XU15 LND	US26D	SA
1	Surface Closer	TB 281 O	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO

Set: 48.0
Doors: 007, 012, 117, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 140, 148E, 209, 210, 211, 218, 226, 239, 250, 255, 256
Description: Restroom

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Privacy Lock w/ IND	V11 8265 LNND	US26D	SA
1	Surface Closer	TB 281 O or P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
1	Gasketing	S88D		PE

Set: 49.0
Doors: 141, 251
Description: Janitor

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom Lock	DG160 10XG04 LND	US26D	SA
1	Core	DG1 6300	US15	SA
1	Surface Closer	TB 281 O	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO

Set: 50.0
Doors: 015
Description: Robot Storage Pair

6	Hinge, Full Mortise	TA2714	US26D	MK
1	Flush Bolt	2805 or 2905 (Top Only)	US26D	RO
1	Storeroom Lock	DG160 10XG04 LND	US26D	SA
1	Core	DG1 6300	US15	SA
2	Surface Closer	TB 281 CPSH	EN	SA
2	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Gasketing	S88D		PE

Notes: Astragal Included By Door Mfg

Set: 51.0
Doors: 005, 006, 011, 113B
Description: Office (w/ closer)

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Office Lock	DG160 10XG05 LND	US26D	SA
1	Core	DG1 6300	US15	SA
1	Surface Closer	TB 281 O or P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
3	Silencer	608		RO

Set: 52.0
Doors: 169, 206A, 230, 247
Description: Office (no closer)

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Office Lock	DG160 10XG05 LND	US26D	SA
1	Core	DG1 6300	US15	SA
1	Door Stop	441H or 409	US26D	RO
3	Silencer	608		RO

Set: 53.0
Doors: 166, 167, 170, 171, 172, 201, 202, 203, 204, 217, 221, 222, 223, 224, 225, 265, 266, 267, 269, 270, 271
Description: Office (ALL GLASS)

1	Office Lock	DG160 10XG05 LND	US26D	SA
1	Core	DG1 6300	US15	SA

Notes: Balance of hardware by STEELCASE

Set: 53.1
Doors: 232
Description: Admin Assistant (ALL GLASS)

1	Passage Latch	10XU15 LND	US26D	SA

Notes: Balance of hardware by STEELCASE

Set: 54.0
Doors: 164, 268A
Description: Conference (ALL GLASS)

1	Door Pull	RM3301x48BTB	US32D	GS

Notes: Balance of hardware by STEELCASE

Set: 54.1
Doors: 231
Description: Conference (ALL GLASS)

1	Privacy Lock	10XU65 LND	US26D	SA

Notes: Balance of hardware by STEELCASE

Set: 55.0
Doors: S002S
Description: Stair Pair (ALL GLASS) w/ Access Control

2	Door Bottom Rail	DRS-6AC-B	US32D	GS
2	Top Patch	PFD-20	US32D	GS
2	Floor Closer	FC-6280		GS
2	Cover Plate	FC-6280-CVR	US32D	GS
2	Arm	FC-6275/6280-ARM		GS
2	Magnetic Lock	MAG-SAMBD	US32D	GS
2	Door Pull	RM3301x48BTB	US32D	GS
2	Door Stop	446	US32D	RO
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT

Notes: Basis of Design ASSA ABLOY BP-Style
Connect power supply to fire alarm system.

DESCRIPTION OF OPERATION:
• Doors normally closed and locked.
• Valid credential releases magnetic locks.
• NOT A MEANS OF EGRESS
• In case of power loss or fire alarm, doors are closed and unlocked.

Set: 56.0
Doors: 216A, 216B
Description: Break Room

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Passage Latch	10XU15 LND	US26D	SA
1	Surface Closer	TB 281 P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
1	Gasketing	S88D		PE

Set: 57.0
Doors: 010, 013
Description: Special Teams Ready Room & SWAT Lockers

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Push Pull	111x73C/73CL	US32D	RO
1	Surface Closer	TB 281 P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO

Set: 58.0
Doors: 241
Description: Records Reception

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Passage Latch	10XU15 LND	US26D	SA
1	Surface Closer	TB 281 P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO

Set: 59.0
Doors: 149B
Description: Vestibule @ DUI / Drug Recognition

3	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Push Pull	111x73C/73CL	US32D	RO
1	Surface Closer	TB 281 P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
3	Silencer	608		RO

Set: 59.1
Doors: 150
Description: Juvenile

3	Hinge, Full Mortise, Hvy Wt	T4A3786 **NRP**	US26D	MK
1	Electric Power Transfer	EL-CEPT (cast)		SU
~~1~~	~~Passage Latch~~	~~8215 LNND~~	~~US26D~~	~~SA~~
1	**Fail Safe Lock**	**DG264 8272-24V LNND (dbl cyl)**	**US26D**	**SA**
2	**Core**	**DG2 6300**	**US15**	**SA**
1	Surface Closer	TB 281 P9	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
3	Silencer	608		RO
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	**ElectroLynx Harness**	**QC-C* Qty x Length Wires Req'd**		**MK**
2	**Card Reader / Keypad**	**By Security Contractor (Div 28)**		**OT**
1	**Power Supply**	**By Security Contractor (Div 28)**		**OT**

~~Notes: (INFRASTRUCTURE ONLY FOR CARD READER BOTH SIDES - FAIL SAFE)~~

Notes: CARD READER BOTH SIDES: Doors are normally closed and locked. Entry and exit by presentation of valid credential at wall reader to release trim or by mechanical key override. Fail Safe - Power off, unlocks trim.

Set: 60.0
Doors: 111, 112, 227
Description: Passage (no closer)

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Passage Latch	10XU15 LND	US26D	SA
1	Door Stop	441H or 409	US26D	RO
3	Silencer	608		RO

Set: 60.1
Doors: 206, 257
Description: Passage (w/ closer)

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Passage Latch	10XU15 LND	US26D	SA
1	Surface Closer	TB 281 O	EN	SA
1	Kick Plate	K1050 8" x LAR 4BE CSK	US32D	RO
1	Door Stop	441H or 409	US26D	RO
3	Silencer	608		RO

Set: 61.0
Doors: 014B, 106A, 114B, 147A, 147B, 159
Description: Overhead Doors

1	Mortise Cylinder	Cylinder As Required	US15	SA
1	Core	DG2 6300	US15	SA
1	Door Position Switch	By Security Contractor (Div 28)		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT

Notes: Verify cylinder requirements, if any

Set: 62.0
Doors: 017D, 017E, 017F, 017G, 017H, 017J, 017K, 017L, 122B
Description: Overhead Doors

1	Mortise Cylinder	Cylinder As Required	US15	SA
1	Core	DG2 6300	US15	SA
1	Door Position Switch	By Security Contractor (Div 28)		SU

Notes: Verify cylinder requirements, if any

Set: 63.0
Doors: G019, G106, G143A, G143B
Description: Gates

1	Padlock	DG264 858 4" HS w/ Chain		SA
1	Core	DG2 6300	US15	SA

Notes: Balance of hardware by gate supplier

COORDINATE WITH GATE SUPPLIER

Set: 64.0
Doors: G175
Description: Courtyard Gate

2	Door Cord	TSB-C		SU
2	Magnetic Lock	M62FGBD		SU
2	Electromechanical Bar	WEMB-CL		SU
1	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT
2	Bracket	FMK-SW		SU

Notes: Balance of hardware by gate supplier

COORDINATE WITH GATE SUPPLIER

Set: 65.0
Description: Gate @ Dumpster Enclosure

2	Cane Bolt	0524.00023SS		RW
2	Cane Bolt Lock Pkg	0524.00024		RW
2	Padlock	DG264 858 4 HS		SA
2	Core	DG2 6300	US15	SA

Notes: Balance of hardware by gate supplier

Set: 66.0
Doors: G011A, G012A, G013A
Description: Automatic Gates @ Secured / Staff Parking

1	Card Reader On Pedestal	By Security Contractor (Div 28)		OT

Set: 67.0
Doors: G01A, G01B
Description: Gate

1	Gate Hardware	All hardware by gate supplier		OT

Notes: PROVIDE MECHANICAL COMBINATION LOCK

Set: 68.0
Doors: G011, G012, G013
Description: CHAIN LINK GATE CARD READER BOTH SIDES

1	Door Cord	TSB-C		SU
1	Magnetic Lock	M62FGBD		SU
2	Card Reader / Keypad	By Security Contractor (Div 28)		OT
1	Power Supply	By Security Contractor (Div 28)		OT
1	Bracket	FMK-SW		SU

Notes: Balance of hardware by gate supplier

COORDINATE WITH GATE SUPPLIER

END OF SECTION 08 71 00

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SECTION 10 14 19 - DIMENSIONAL LETTER SIGNAGE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Dimensional characters.

a. Cast dimensional characters.
b. Illuminated, fabricated channel dimensional characters.

1.3 DEFINITIONS

A. Illuminated: Illuminated by lighting source integrally constructed as part of the sign unit.

1.4 COORDINATION

A. Furnish templates for placement of electrical service embedded in permanent construction by other installers.

~~1.3~~**1.5** ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For signs.

1. Include fabrication and installation details and attachments to other work.
2. Show sign mounting heights, locations of supplementary supports to be provided by other installers, and accessories.
3. Show message list, typestyles, graphic elements, and layout for each sign at least half size.
4. Show locations of electrical service connections.

C. Samples for Initial Selection: For each type of sign assembly, exposed component, and exposed finish.

1. Include representative Samples of available typestyles and graphic symbols.

D. Samples for Verification: For each type of sign assembly showing all components and with the required finish(es), in manufacturer's standard size unless otherwise indicated and as follows:

1. Dimensional Characters: Half-size Sample of each type of dimensional character.
2. Exposed Accessories: Full-size Sample of each accessory type.
3. Full-size Samples, if approved, will be returned to Contractor for use in the Project.

E. Product Schedule: For dimensional letter signs. Use same designations indicated on Drawings or specified.

F. Delegated Design Submittal: For signs indicated in "Performance Requirements" Article.

1. Include structural analysis calculations for signs indicated to comply with design loads; signed and sealed by the qualified professional engineer responsible for their preparation.

~~1.4~~**1.6** INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Sample Warranty: For special warranty.

~~1.5~~**1.7** CLOSEOUT SUBMITTALS

A. Maintenance Data: For signs to include in maintenance manuals.

~~1.6~~**1.8** QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer of products.

1.9 FIELD CONDITIONS

A. Field Measurements: Verify locations of electrical service embedded in permanent construction by other installers by field measurements before fabrication, and indicate measurements on Shop Drawings.

~~1.7~~**1.10** WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

    a. Deterioration of finishes beyond normal weathering.
    b. Separation or delamination of sheet materials and components.

2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer to design sign structure and anchorage of dimensional character sign type(s) according to structural performance requirements.

B. Structural Performance: Signs and supporting elements shall withstand the effects of gravity and other loads within limits and under conditions indicated.

1. Uniform Wind Load: As indicated on Drawings.
2. Concentrated Horizontal Load: As indicated on Drawings.
3. Other Design Load: As indicated on Drawings
4. Uniform and concentrated loads need not be assumed to act concurrently.

C. Thermal Movements: For exterior fabricated channel dimensional characters, allow for thermal movements from ambient and surface temperature changes.

1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 DIMENSIONAL CHARACTERS

A. Cast Characters: Characters with uniform faces, sharp corners, and precisely formed lines and profiles, and as follows:

1. Manufacturers: Subject to compliance with requirements, provide products by the following:

    a. A.R.K. Ramos.
    b. ASI Sign Systems, Inc.
    c. Gemini Incorporated.
    d. Southwell Company (The).

2. Character Material: Cast aluminum.
3. Character Height: As indicated on Drawings.

4. Thickness: As indicated on Drawings.
5. Finishes:

    a. ~~Integral Aluminum Finish: Clear anodized~~ **Baked-Enamel or Powder-Coat Finish: Manufacturer's standard, in color as selected by Architect from manufacturer's full range.**

6. Mounting: Concealed studs.
7. Typeface: Match Architect's sample.

B. Fabricated Channel Characters: Metal face and side returns, formed free from warp and distortion; with uniform faces, sharp corners, and precisely formed lines and profiles; internally braced for stability, to meet structural performance loading without oil-canning or other surface deformation, and for securing fasteners; and as follows.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. A.R.K. Ramos.
b. Gemini Signage; Gemini, Inc.

2. Illuminated Characters: Backlighted character construction with LED lighting, including transformers, insulators, and other accessories for operability, with provision for servicing and concealing connections to building electrical system. Use tight or sealed joint construction to prevent unintentional light leakage. Space lamps apart from each other and away from character surfaces as needed to illuminate evenly.

a. Power: As indicated on electrical Drawings.
b. Weeps: Provide weep holes to drain water at lowest part of exterior characters. Equip weeps with permanent baffles to block light leakage without inhibiting drainage.

3. Character Material: Sheet or plate aluminum.
4. Material Thickness: Manufacturer's standard for size and design of character.
5. Translucent Face Sheet: Acrylic sheet with integral color as selected by Architect from manufacturer's full range.

a. Sheet Thickness: Manufacturer's standard thickness for size of character but not less than 0.25 inch.

6. Character Height: As indicated on Drawings.
7. Character Depth: As indicated on Drawings.
8. Finishes:

a. Baked-Enamel or Powder-Coat Finish: Manufacturer's standard, in color as selected by Architect from manufacturer's full range.

9. Mounting: Manufacturer's standard for size and design of character.

a. Hold characters at distance as selected by Architect from wall surface.

10. Typeface: Match Architect's sample.

2.3 DIMENSIONAL CHARACTER MATERIALS

A. Aluminum Castings: ASTM B26/B26M, alloy and temper recommended by sign manufacturer for casting process used and for type of use and finish indicated.

B. Aluminum Extrusions: ASTM B221, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.

2.4 ACCESSORIES

A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signs, noncorrosive and compatible with each material joined, and complying with the following:

1. Use concealed fasteners and anchors unless indicated to be exposed.
2. For exterior exposure, furnish stainless steel devices unless otherwise indicated.
3. Sign Mounting Fasteners:

a. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back of sign material, screwed into back of sign assembly, or screwed into tapped lugs cast integrally into back of cast sign material, unless otherwise indicated.

B. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.

2.5 FABRICATION

A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.

1. Preassemble signs and assemblies in the shop to greatest extent possible. Disassemble signs and assemblies only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation; apply markings in locations concealed from view after final assembly.
2. Comply with AWS for recommended practices in welding and brazing. Provide welds and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed connections of flux, and dress exposed and contact surfaces.

3. Conceal connections if possible; otherwise, locate connections where they are inconspicuous.
4. Provide rabbets, lugs, and tabs necessary to assemble components and to attach to existing work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match sign finish.
5. Castings: Fabricate castings free of warp, cracks, blowholes, pits, scale, sand holes, and other defects that impair appearance or strength. Grind, wire brush, sandblast, and buff castings to remove seams, gate marks, casting flash, and other casting marks before finishing.

2.6 GENERAL FINISH REQUIREMENTS

A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

C. Organic, Anodic, and Chemically Produced Finishes: Apply to formed metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.

2.7 ALUMINUM FINISHES

A. Clear Anodic Finish: AAMA 611, Class I, 0.018 mm or thicker.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.

B. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between backs of signs and support surfaces unless otherwise indicated.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

D. Verify that electrical service is correctly sized and located to accommodate signs.

3.2 INSTALLATION OF DIMENSIONAL CHARACTERS

A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.

1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
2. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
3. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

B. Mounting Methods:

1. Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.

a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place sign in position and push until flush to surface, embedding studs in holes. Temporarily support sign in position until adhesive fully sets.
b. Thin or Hollow Surfaces: Place sign in position and flush to surface, install washers and nuts on studs projecting through opposite side of surface, and tighten.

3.3 ADJUSTING AND CLEANING

A. Remove and replace damaged or deformed characters and signs that do not comply with specified requirements. Replace characters with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.

B. Remove temporary protective coverings and strippable films as signs are installed.

C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION 10 14 19

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SECTION 13 34 19 - METAL BUILDING SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Structural-steel framing.
2. Foamed-insulation-core metal wall panels.
3. Metal roof panels.
4. Metal wall panels.
5. Thermal insulation.
6. Accessories.

1.3 DEFINITIONS

A. Terminology Standard: See MBMA's "Metal Building Systems Manual" for definitions of terms for metal building system construction not otherwise defined in this Section or in standards referenced by this Section.

1.4 COORDINATION

A. Coordinate sizes and locations of concrete foundations and casting of anchor-rod inserts into foundation walls and footings. Anchor rod installation, concrete, reinforcement, and formwork requirements are specified in Section 03 30 00 "Cast-in-Place Concrete."

B. Coordinate metal panel assemblies with rain drainage work, flashing, trim, and construction of supports and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

1.5 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Review methods and procedures related to metal building systems including, but not limited to, the following:

a. Condition of foundations and other preparatory work performed by other trades.
b. Structural load limitations.
c. Construction schedule. Verify availability of materials and erector's personnel, equipment, and facilities needed to make progress and avoid delays.
d. Required tests, inspections, and certifications.
e. Unfavorable weather and forecasted weather conditions and impact on construction schedule.

2. Review methods and procedures related to metal roof panel assemblies including, but not limited to, the following:

a. Compliance with requirements for purlin and rafter conditions, including flatness and attachment to structural members.
b. Structural limitations of purlins and rafters during and after roofing.
c. Flashings, special roof details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect metal roof panels.
d. Temporary protection requirements for metal roof panel assembly during and after installation.
e. Roof observation and repair after metal roof panel installation.

3. Review methods and procedures related to metal wall panel assemblies including, but not limited to, the following:

a. Compliance with requirements for support conditions, including alignment between and attachment to structural members.
b. Structural limitations of girts and columns during and after wall panel installation.
c. Flashings, special siding details, wall penetrations, openings, and condition of other construction that will affect metal wall panels.
d. Temporary protection requirements for metal wall panel assembly during and after installation.
e. Wall observation and repair after metal wall panel installation.

1.6 ACTION SUBMITTALS

A. Product Data: For each type of metal building system component.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for the following:

a. Foamed-insulation-core metal wall panels.
b. Thermal insulation and vapor-retarder facings.

B. Shop Drawings: Indicate components by others. Include full building plan, elevations, sections, details and the following:

1. Anchor-Rod Plans: Submit anchor-rod plans and templates before foundation work begins. Include location, diameter, and minimum required projection of anchor rods required to attach metal building to foundation. Indicate column reactions at each location.
2. Structural-Framing Drawings: Show complete fabrication of primary and secondary framing; include provisions for openings. Indicate welds and bolted connections, distinguishing between shop and field applications. Include transverse cross-sections.
3. Metal Roof and Wall Panel Layout Drawings: Show layouts of panels including methods of support. Include details of edge conditions, joints, panel profiles, corners, anchorages, clip spacing, trim, flashings, closures, and special details. Distinguish between factory- and field-assembled work; show locations of exposed fasteners.

    a. Show roof-mounted items including roof hatches, equipment supports, pipe supports and penetrations, lighting fixtures, and items mounted on roof curbs.
    b. Show wall-mounted items including personnel doors, vehicular doors, windows, louvers, and lighting fixtures.

4. Accessory Drawings: Include details of the following items, at a scale of not less than 1-1/2 inches per 12 inches:

    a. Flashing and trim.
    b. Gutters.
    c. Downspouts.

C. Samples for Initial Selection: For units with factory-applied finishes.

D. Samples for Verification: For the following products:

1. Panels: Nominal 12 inches long by actual panel width. Include fasteners, closures, and other exposed panel accessories.
2. Flashing and Trim: Nominal 12 inches long. Include fasteners and other exposed accessories.
3. Vapor-Retarder Facings: Nominal 6-inch-square Samples.
4. Accessories: Nominal 12-inch-long Samples for each type of accessory.

E. Delegated Design Submittals: For metal building systems.

1. Include analysis data indicating compliance with performance requirements and design data signed and sealed by the qualified professional engineer responsible for their preparation.

1.7 INFORMATIONAL SUBMITTALS

A. Qualification Data: For erector, manufacturer, and land surveyor.

B. Welding certificates.

C. Letter of Design Certification: Signed and sealed by a qualified professional engineer. Include the following:

1. Name and location of Project.
2. Order number.
3. Name of manufacturer.
4. Name of Contractor.
5. Building dimensions including width, length, height, and roof slope.
6. Indicate compliance with AISC standards for hot-rolled steel and AISI standards for cold-rolled steel, including edition dates of each standard.
7. Governing building code and year of edition.
8. Design Loads: Include dead load, roof live load, collateral loads, roof snow load, deflection, wind loads/speeds and exposure, seismic design category or effective peak velocity-related acceleration/peak acceleration, and auxiliary loads (cranes).
9. Load Combinations: Indicate that loads were applied acting simultaneously with concentrated loads, according to governing building code.
10. Building-Use Category: Indicate category of building use and its effect on load importance factors.

D. Erector Certificates: For qualified erector, from manufacturer.

E. Material Test Reports: For each of the following products:

1. Structural steel including chemical and physical properties.
2. Bolts, nuts, and washers including mechanical properties and chemical analysis.
3. Tension-control, high-strength, bolt-nut-washer assemblies.
4. Shop primers.
5. Nonshrink grout.

F. Source quality-control reports.

G. Field quality-control reports.

H. Surveys: Show final elevations and locations of major members. Indicate discrepancies between actual installation and the Contract Documents. Have surveyor who performed surveys certify their accuracy.

I. Sample Warranties: For special warranties.

1.8 CLOSEOUT SUBMITTALS

A. Maintenance Data: For metal panel finishes to include in maintenance manuals.

1.9 QUALITY ASSURANCE

A. Manufacturer Qualifications: A qualified manufacturer.

1. Accreditation: Manufacturer's facility accredited according to IAS AC472, "Accreditation Criteria for Inspection Programs for Manufacturers of Metal Building Systems."
2. Engineering Responsibility: Preparation of comprehensive engineering analysis and Shop Drawings by a professional engineer who is legally qualified to practice in jurisdiction where Project is located.

B. Erector Qualifications: An experienced erector who specializes in erecting and installing work similar in material, design, and extent to that indicated for this Project and who is acceptable to manufacturer.

C. Welding Qualifications: Qualify procedures and personnel according to the following:

1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
2. AWS D1.3, "Structural Welding Code - Sheet Steel."

D. Land Surveyor Qualifications: A professional land surveyor who practices in jurisdiction where Project is located and who is experienced in providing surveying services of the kind indicated.

E. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.

1. Build mockups for typical wall metal panel including accessories.

a. Size: 48 inches long by 48 inches.

2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Deliver components, sheets, panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.

B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.

C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.

D. Protect foam-plastic insulation as follows:

1. Do not expose to sunlight, except to extent necessary for period of installation and concealment.

2. Protect against ignition at all times. Do not deliver foam-plastic insulation materials to Project site before installation time.
3. Complete installation and concealment of foam-plastic materials as rapidly as possible in each area of construction.

1.11 FIELD CONDITIONS

A. Weather Limitations: Proceed with panel installation only when weather conditions permit metal panels to be installed according to manufacturers' written instructions and warranty requirements.

1.12 WARRANTY

A. Special Warranty on Metal Panel Finishes: Manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.

1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:

a. Color fading more than 5 Hunter units when tested according to ASTM D2244.
b. Chalking in excess of a No. 8 rating when tested according to ASTM D4214.
c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

2. Finish Warranty Period: 20 years from date of Substantial Completion.

B. Special Weathertightness Warranty for Standing-Seam Metal Roof Panels: Manufacturer agrees to repair or replace standing-seam metal roof panel assemblies that leak or otherwise fail to remain weathertight within specified warranty period.

1. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. American Buildings Company; a Nucor Company.
2. Butler Manufacturing Company; a division of BlueScope Buildings North America, Inc.
3. Dean Steel Buildings, Inc.
4. Trident Building Systems, Inc.
5. Varco-Pruden Buildings; a division of BlueScope Buildings North America, Inc.

6. **Behlen Building Systems.**

B. Source Limitations: Obtain metal building system components, including primary and secondary framing and metal panel assemblies, from single source from single manufacturer.

2.2 SYSTEM DESCRIPTION

A. Provide a complete, integrated set of mutually dependent components and assemblies that form a metal building system capable of withstanding structural and other loads, thermally induced movement, and exposure to weather without failure or infiltration of water into building interior.

B. Primary-Frame Type:

1. Rigid Clear Span: Solid-member, structural-framing system without interior columns.

C. End-Wall Framing:

1. Manufacturer's standard, for buildings not required to be expandable, consisting of primary frame, capable of supporting one-half of a bay design load, and end-wall columns.

D. Secondary-Frame Type: Manufacturer's standard purlins and joists and exterior-framed (bypass) girts.

E. Eave Height: As indicated on the Drawings.

F. Bay Spacing: As indicated on Drawings.

G. Roof Slope: As indicated on Drawings.

H. Roof System: Standing-seam, vertical-rib, metal roof panels.

I. Exterior Wall System: Concealed-fastener, flush-profile, foamed-insulation-core metal wall panels.

J. Exterior Wall System: Concealed-fastener, flush-profile, metal wall panels.

2.3 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer to design metal building**, slab and foundation** system**s**.

B. Structural Performance: Metal building systems to withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated according to procedures in MBMA's "Metal Building Systems Manual."

1. Design Loads: As indicated on Drawings.
2. Deflection and Drift Limits:

    a. Design metal building system assemblies to withstand serviceability design loads without exceeding deflections and drift limits recommended in AISC Steel Design Guide No. 3 "Serviceability Design Considerations for Steel Buildings."
    b. No greater than the following:

        1) Purlins and Rafters: Vertical deflection of 1/240 of the span.
        2) Girts: Horizontal deflection of 1/120 of the span.
        3) Metal Roof Panels: Vertical deflection of 1/240 of the span.
        4) Metal Wall Panels: Horizontal deflection of 1/180 of the span.
        5) Design secondary-framing system to accommodate deflection of primary framing and construction tolerances, and to maintain clearances at openings.
        6) Lateral Drift: Maximum of 1/100 of the building height.

C. Seismic Performance: Metal building system to withstand the effects of earthquake motions determined according to ASCE/SEI 7.

D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

E. Fire-Resistance Ratings: Where assemblies are indicated to have a fire-resistance rating, provide metal panel assemblies identical to those of assemblies tested for fire resistance per ASTM E119 or ASTM E108 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1. Indicate design designations from UL's "Fire Resistance Directory," FM Global's "Approval Guide," or from the listings of another qualified testing agency.

F. Fire Propagation Characteristics: Exterior wall assemblies containing foam plastics pass NFPA 285 fire test.

G. Structural Performance for Metal Roof and Wall Panels: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E1592:

1. Wind Loads: As indicated on Drawings.

H. Air Infiltration for Metal Roof Panels: Air leakage of not more than 0.06 cfm/sq. ft. when tested according to ASTM E1680 or ASTM E283 at the following test-pressure difference:

1. Test-Pressure Difference: 6.24 lbf/sq. ft..

I. Air Infiltration for Metal Wall Panels: Air leakage of not more than 0.06 cfm/sq. ft. when tested according to ASTM E283 at the following test-pressure difference:

1. Test-Pressure Difference: 6.24 lbf/sq. ft..

J. Water Penetration for Metal Roof Panels: No water penetration when tested according to ASTM E1646 or ASTM E331 at the following test-pressure difference:

1. Test-Pressure Difference: 6.24 lbf/sq. ft..

K. Water Penetration for Metal Wall Panels: No water penetration when tested according to ASTM E331 at the following test-pressure difference:

1. Test-Pressure Difference: 6.24 lbf/sq. ft..

2.4 STRUCTURAL-STEEL FRAMING

A. Structural Steel: Comply with AISC 360, "Specification for Structural Steel Buildings."

B. Bolted Connections: Comply with RCSC's "Specification for Structural Joints Using High-Strength Bolts."

C. Cold-Formed Steel: Comply with AISI's "North American Specification for the Design of Cold-Formed Steel Structural Members" for design requirements and allowable stresses.

D. Primary Framing: Manufacturer's standard primary-framing system, designed to withstand required loads and specified requirements. Primary framing includes transverse and lean-to frames; rafters, rake, and canopy beams; sidewall, intermediate, end-wall, and corner columns; and wind bracing.

1. General: Provide frames with attachment plates, bearing plates, and splice members. Factory drill for field-bolted assembly. Provide frame span and spacing indicated.

a. Slight variations in span and spacing may be acceptable if necessary to comply with manufacturer's standard, as approved by Architect.

2. Rigid Clear-Span Frames: I-shaped frame sections fabricated from shop-welded, built-up steel plates or structural-steel shapes. Interior columns are not permitted.
3. Frame Configuration: One-directional, sloped.
4. Exterior Column: Tapered.
5. Rafter: Uniform depth or Tapered.

E. End-Wall Framing: Manufacturer's standard primary end-wall framing fabricated for field-bolted assembly to comply with the following:

1. End-Wall and Corner Columns: I-shaped sections fabricated from structural-steel shapes; shop-welded, built-up steel plates; or C-shaped, cold-formed, structural-steel sheet.
2. End-Wall Rafters: C-shaped, cold-formed, structural-steel sheet; or I-shaped sections fabricated from shop-welded, built-up steel plates or structural-steel shapes.

F. Secondary Framing: Manufacturer's standard secondary framing, including purlins, girts, eave struts, flange bracing, base members, gable angles, clips, headers, jambs, and other miscellaneous structural members. Unless otherwise indicated, fabricate framing from either cold-formed, structural-steel sheet or roll-formed, metallic-coated steel sheet, prepainted with coil coating, to comply with the following:

1. Purlins:

    a. C- or Z-shaped sections; fabricated from built-up steel plates, steel sheet, or structural-steel shapes; minimum 2-1/2-inch-wide flanges.

        1) Depth: As needed to comply with system performance requirements.

2. Girts: C- or Z-shaped sections; fabricated from built-up steel plates, steel sheet, or structural-steel shapes. Form ends of Z-sections with stiffening lips angled 40 to 50 degrees from flange, with minimum 2-1/2-inch-wide flanges.

    a. Depth: As indicated on Drawings.

3. Eave Struts: Unequal-flange, C-shaped sections; fabricated from built-up steel plates, steel sheet, or structural-steel shapes; to provide adequate backup for metal panels.
4. Flange Bracing: Minimum 2-by-2-by-1/8-inch structural-steel angles or 1-inch-diameter, cold-formed structural tubing to stiffen primary-frame flanges.
5. Sag Bracing: Minimum 1-by-1-by-1/8-inch structural-steel angles.
6. Base or Sill Angles: Manufacturer's standard base angle, minimum 3-by-2-inch, fabricated from zinc-coated (galvanized) steel sheet.
7. Purlin and Girt Clips: Manufacturer's standard clips fabricated from steel sheet. Provide galvanized clips where clips are connected to galvanized framing members.
8. Framing for Openings: Channel shapes; fabricated from cold-formed, structural-steel sheet or structural-steel shapes. Frame head and jamb of door openings and head, jamb, and sill of other openings.
9. Miscellaneous Structural Members: Manufacturer's standard sections fabricated from cold-formed, structural-steel sheet; built-up steel plates; or zinc-coated (galvanized) steel sheet; designed to withstand required loads.

G. Bracing: Provide adjustable wind bracing using any method as follows:

1. Rods: ASTM A36/A36M; ASTM A572/A572M, Grade 50; or ASTM A529/A529M, Grade 50; minimum 1/2-inch-diameter steel; threaded full length or threaded a minimum of 6 inches at each end.

2. Cable: ASTM A475, minimum 1/4-inch-diameter, extra-high-strength grade, Class B, zinc-coated, seven-strand steel; with threaded end anchors.
3. Angles: Fabricated from structural-steel shapes to match primary framing, of size required to withstand design loads.
4. Rigid Portal Frames: Fabricated from shop-welded, built-up steel plates or structural-steel shapes to match primary framing; of size required to withstand design loads.
5. Fixed-Base Columns: Fabricated from shop-welded, built-up steel plates or structural-steel shapes to match primary framing; of size required to withstand design loads.
6. Diaphragm Action of Metal Panels: Design metal building to resist wind forces through diaphragm action of metal panels.

H. Anchor Rods: Headed anchor rods as indicated in Anchor Rod Plan for attachment of metal building to foundation.

I. Materials:

1. W-Shapes: ASTM A992/A992M; ASTM A572/A572M, Grade 50 or 55; or ASTM A529/A529M, Grade 50 or 55.
2. Channels, Angles, M-Shapes, and S-Shapes: ASTM A36/A36M; ASTM A572/A572M, Grade 50 or 55; or ASTM A529/A529M, Grade 50 or 55.
3. Plate and Bar: ASTM A36/A36M; ASTM A572/A572M, Grade 50 or 55; or ASTM A529/A529M, Grade 50 or 55.
4. Steel Pipe: ASTM A53/A53M, Type E or S, Grade B.
5. Cold-Formed Hollow Structural Sections: ASTM A500, Grade B or C, structural tubing.
6. Structural-Steel Sheet: Hot-rolled, ASTM A1011/A1011M, Structural Steel (SS), Grades 30 through 55, or High-Strength Low-Alloy Steel (HSLAS) or High-Strength Low-Alloy Steel with Improved Formability (HSLAS-F), Grades 45 through 70; or cold-rolled, ASTM A1008/A1008M, Structural Steel (SS), Grades 25 through 80, or HSLAS, Grades 45 through 70.
7. Metallic-Coated Steel Sheet: ASTM A653/A653M, SS, Grades 33 through 80, or HSLAS or HSLAS-F, Grades 50 through 80; with G60 coating designation; mill phosphatized.
8. Metallic-Coated Steel Sheet Prepainted with Coil Coating: Steel sheet, metallic coated by the hot-dip process and prepainted by the coil-coating process to comply with ASTM A755/A755M.

    a. Zinc-Coated (Galvanized) Steel Sheet: ASTM A653/A653M, SS, Grades 33 through 80, or HSLAS or HSLAS-F, Grades 50 through 80; with G90 coating designation.
    b. Aluminum-Zinc Alloy-Coated Steel Sheet: ASTM A792/A792M, SS, Grade 50 or 80; with Class AZ50 coating.

9. Non-High-Strength Bolts, Nuts, and Washers: ASTM A307, Grade A, carbon-steel, hex-head bolts; ASTM A563 carbon-steel hex nuts; and ASTM F844 plain (flat) steel washers.

    a. Finish: Hot-dip zinc coating, ASTM F2329, Class C.

10. High-Strength Bolts, Nuts, and Washers, Grade A325: ASTM F3125/F3125M, Type 1, heavy-hex steel structural bolts; ASTM A563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers.

    a. Finish: Hot-dip zinc coating, ASTM F2329, Class C.

11. High-Strength Bolts, Nuts, and Washers, Grade A490: ASTM F3125/F3125M, Type 1, heavy-hex steel structural bolts; ASTM A563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers; all with plain finish.
12. Tension-Control, High-Strength Bolt-Nut-Washer Assemblies: ASTM F3125/F3125M, Grade F1852, Type 1, heavy-hex head assemblies consisting of steel structural bolts with splined ends; ASTM A563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1 hardened carbon-steel washers.

    a. Finish: Mechanically deposited zinc coating, ASTM B695, Class 50.

13. Unheaded Anchor Rods: ASTM F1554, Grade 36.

    a. Configuration: Straight.
    b. Nuts: ASTM A563 heavy-hex carbon steel.
    c. Plate Washers: ASTM A36/A36M carbon steel.
    d. Washers: ASTM F436 hardened carbon steel.
    e. Finish: Hot-dip zinc coating, ASTM F2329, Class C.

14. Headed Anchor Rods: ASTM F1554, Grade 36.

    a. Configuration: Straight.
    b. Nuts: ASTM A563 heavy-hex carbon steel.
    c. Plate Washers: ASTM A36/A36M carbon steel.
    d. Washers: ASTM F436 hardened carbon steel.
    e. Finish: Hot-dip zinc coating, ASTM F2329, Class C.

15. Threaded Rods: ASTM A36/A36M or ASTM A307, Grade A.

    a. Nuts: ASTM A563 heavy-hex carbon steel.
    b. Washers: ASTM A36/A36M carbon steel.
    c. Finish: Hot-dip zinc coating, ASTM F2329, Class C.

J. Finish: Factory primed. Apply specified primer immediately after cleaning and pretreating.

1. Clean and prepare in accordance with SSPC-SP2.
2. Coat with manufacturer's standard primer. Apply primer to primary and secondary framing to a minimum dry film thickness of 1 mil.

    a. Prime secondary framing formed from uncoated steel sheet to a minimum dry film thickness of 0.5 mil on each side.

2.5 METAL ROOF PANELS

A. Standing-Seam, Vertical-Rib, Metal Roof Panels: Formed with vertical ribs at panel edges and intermediate stiffening ribs symmetrically spaced between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of panels and engaging opposite edge of adjacent panels.

1. Material: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 0.024-inch nominal uncoated steel thickness. Prepainted by the coil-coating process to comply with ASTM A755/A755M.
2. Basis-of-Design Product and Manufacturer; MBCI Double-Lok.

a. Exterior Finish: ~~Three~~**Two**-coat fluoropolymer.
b. Color: As selected by Architect from manufacturer's full range.

3. Clips: One-piece fixed to accommodate thermal movement.
4. Joint Type: Mechanically seamed.
5. Panel Coverage: 24 inches.
6. Panel Height: 3 inches.

B. Roof Insulation: Refer to Section 07 22 00 “Roof Insulation.”

2.6 METAL WALL PANELS

~~A. Concealed-Fastener, Flush-Profile, Metal Wall Panels: Formed with vertical panel edges and flush surface; with flush joint between panels; with 1-inch- wide flange for attaching interior finish; designed to be installed by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners and factory-applied sealant in side laps.~~

~~1. Material: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 0.024-inch nominal uncoated steel thickness. Prepainted by the coil-coating process to comply with ASTM A755/A755M.~~
~~2. Basis-of-Design Product and Manufacturer; MBCI FW-120.~~

~~a. Exterior Finish Exterior Finish: Three-coat fluoropolymer.~~
~~b. Color: As selected by Architect from manufacturer's full range.~~

~~3. Panel Coverage: 12 inches.~~
~~4. Panel Height: As indicated.~~

A. Refer to Section 07 42 13.23 “Metal Composite Material Panels.”

2.7 FOAMED-INSULATION-CORE METAL WALL PANELS

A. Concealed-Fastener, Foamed-Insulation-Core Flush-Profile, Metal Wall Panels: Formed with vertical panel edges and flush surface; with flush joint between panels; with 1-inch-wide flange for attaching interior finish; designed to be installed by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners and factory-applied sealant in side laps.

1. Material: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 0.024-inch nominal uncoated steel thickness. Prepainted by the coil-coating process to comply with ASTM A755/A755M.
2. Basis-of-Design Product and Manufacturer; MBCI CF Light Mesa.

    a. Exterior Finish: Fluoropolymer.
    b. Color: As selected by Architect from manufacturer's full range.

3. Panel Coverage: 42 inches.
4. Panel Thickness: 2.5 inches.
5. Insulation Core: Modified polyisocyanurate or polyurethane foam using a non-CFC blowing agent, foamed-in-place or board type, with maximum flame-spread and smoke-developed indexes of 25 and 450, respectively.

    a. Closed-Cell Content: 90 percent when tested according to ASTM D6226.
    b. Density: 2.0 to 2.6 lb/cu. ft. when tested according to ASTM D1622.
    c. Compressive Strength: Minimum 20 psi when tested according to ASTM D1621.
    d. Shear Strength: 26 psi when tested according to ASTM C273/C273M.

6. Fire-Test-Response Characteristics: Class A according to ASTM E108.
7. Surface-Burning Characteristics: Flame-spread index of 25 or less and a smoke-developed index of 450 or less, per ASTM E84.

B. Finishes:

1. Exposed Coil-Coated Finish:

    a. ~~Three~~**Two**-Coat ~~Metallic~~ Fluoropolymer: AAMA 621. Fluoropolymer ~~Metallic~~ finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

2. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish, consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil.

2.8 METAL SOFFIT PANELS

A. Refer to Section 07 42 93 “Metal Soffit Panels.”

2.9 THERMAL INSULATION

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

1. Bay Insulation Systems; a division of Bay Industries.

B. Faced Metal Building Insulation: ASTM C991, Type II, glass-fiber-blanket insulation; 0.5-lb/cu. ft. density; 2-inch- wide, continuous, vapor-tight edge tabs; with a flame-spread index of 25 or less.

1. Nonreflective Faced: Type II (blankets with nonreflective membrane covering), Category 1 (membrane is a vapor retarder), Class A (membrane-faced surface with a flame-spread index of 25 or less).

C. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and penetrations in vapor retarder.

2.10 ACCESSORIES

A. General: Provide accessories as standard with metal building system manufacturer and as specified. Fabricate and finish accessories at the factory to greatest extent possible, by manufacturer's standard procedures and processes. Comply with indicated profiles and with dimensional and structural requirements.

1. Form exposed sheet metal accessories that are without excessive oil-canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.

B. Roof Panel Accessories: Provide components required for a complete metal roof panel assembly including copings, fasciae, corner units, ridge closures, clips, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal roof panels unless otherwise indicated.

1. Closures: Provide closures at eaves and ridges, fabricated of same material as metal roof panels.
2. Clips: Manufacturer's standard, formed from stainless steel sheet, designed to withstand negative-load requirements.
3. Cleats: Manufacturer's standard, mechanically seamed cleats formed from stainless steel sheet or nylon-coated aluminum sheet.
4. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.

5. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch-thick, flexible closure strips; cut or premolded to match metal roof panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
6. Thermal Spacer Blocks: Where metal panels attach directly to purlins, provide thermal spacer blocks of thickness required to provide 1-inch standoff; fabricated from extruded polystyrene.

C. Wall Panel Accessories: Provide components required for a complete metal wall panel assembly including copings, fasciae, mullions, sills, corner units, clips, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal wall panels unless otherwise indicated.

1. Closures: Provide closures at eaves and rakes, fabricated of same material as metal wall panels.
2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch-thick, flexible closure strips; cut or premolded to match metal wall panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.

D. Flashing and Trim: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 0.018-inch nominal uncoated steel thickness, prepainted with coil coating; finished to match adjacent metal panels.

1. Provide flashing and trim as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers.
2. Opening Trim: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, ~~0.030-inch~~**22 gauge** nominal uncoated steel thickness, prepainted with coil coating. Trim head and jamb of door openings, and head, jamb, and sill of other openings.

E. Gutters: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 0.018-inch nominal uncoated steel thickness, prepainted with coil coating; finished to match roof fascia and rake trim. Match profile of gable trim, complete with end pieces, outlet tubes, and other special pieces as required. Fabricate in minimum 96-inch-long sections, sized according to SMACNA's "Architectural Sheet Metal Manual."

1. Gutter Supports: Fabricated from same material and finish as gutters.
2. Strainers: Bronze, copper, or aluminum wire ball type at outlets.

F. Downspouts: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 0.018-inch nominal uncoated steel thickness, prepainted with coil coating; finished to match metal wall panels. Fabricate in minimum 10-foot-long sections, complete with formed elbows and offsets.

1. Mounting Straps: Fabricated from same material and finish as gutters.

G. Pipe Flashing: Premolded, EPDM pipe collar with flexible aluminum ring bonded to base.

H. Materials:

1. Fasteners: Self-tapping screws, bolts, nuts, self-locking rivets and bolts, end-welded studs, and other suitable fasteners designed to withstand design loads. Provide fasteners with heads matching color of materials being fastened by means of plastic caps or factory-applied coating.
2. Fasteners for Metal Roof Panels:

    a. Self-drilling or self-tapping, zinc-plated, hex-head carbon-steel screws, with a stainless steel cap or zinc-aluminum-alloy head and EPDM sealing washer.
    b. Self-drilling, Type 410 stainless steel or self-tapping, Type 304 stainless steel or zinc-alloy-steel hex washer head, with EPDM washer under heads of fasteners bearing on weather side of metal panels.

3. Fasteners for Metal Wall Panels:

    a. Self-drilling, Type 410 stainless steel or self-tapping, Type 304 stainless steel or zinc-alloy-steel hex washer head.

4. Fasteners for Flashing and Trim: Blind fasteners or self-drilling screws with hex washer head.
5. Blind Fasteners: High-strength aluminum or stainless steel rivets.
6. Corrosion-Resistant Coating: Cold-applied asphalt mastic, compounded for 15-mil dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.
7. Nonmetallic, Shrinkage-Resistant Grout: ASTM C1107/C1107M, factory-packaged, nonmetallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.
8. Metal Panel Sealants:

    a. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene-compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape of manufacturer's standard size.
    b. Joint Sealant: ASTM C920; one part elastomeric polyurethane or polysulfide; of type, grade, class, and use classifications required to seal joints in metal panels and remain weathertight; and as recommended by metal building system manufacturer.

2.11 FABRICATION

A. General: Design components and field connections required for erection to permit easy assembly.

1. Mark each piece and part of the assembly to correspond with previously prepared erection drawings, diagrams, and instruction manuals.
2. Fabricate structural framing to produce clean, smooth cuts and bends. Punch holes of proper size, shape, and location. Members to be free of cracks, tears, and ruptures.

B. Tolerances: Comply with MBMA's "Metal Building Systems Manual" for fabrication and erection tolerances.

C. Primary Framing: Shop fabricate framing components to indicated size and section, with baseplates, bearing plates, stiffeners, and other items required for erection welded into place. Cut, form, punch, drill, and weld framing for bolted field assembly.

1. Make shop connections by welding or by using high-strength bolts.
2. Join flanges to webs of built-up members by a continuous, submerged arc-welding process.
3. Brace compression flange of primary framing with steel angles or cold-formed structural tubing between frame web and purlin web or girt web, so flange compressive strength is within allowable limits for any combination of loadings.
4. Weld clips to frames for attaching secondary framing if applicable, or punch for bolts.
5. Shop Priming: Prepare surfaces for shop priming according to SSPC-SP 2. Shop prime primary framing with specified primer after fabrication.

D. Secondary Framing: Shop fabricate framing components to indicated size and section by roll forming or break forming, with baseplates, bearing plates, stiffeners, and other plates required for erection welded into place. Cut, form, punch, drill, and weld secondary framing for bolted field connections to primary framing.

1. Make shop connections by welding or by using non-high-strength bolts.
2. Shop Priming: Prepare uncoated surfaces for shop priming according to SSPC-SP 2. Shop prime uncoated secondary framing with specified primer after fabrication.

E. Metal Panels: Fabricate and finish metal panels at the factory to greatest extent possible, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements. Comply with indicated profiles and with dimensional and structural requirements.

1. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of metal panel.

2.12 SOURCE QUALITY CONTROL

A. Special Inspection: Owner will engage a qualified special inspector to perform source quality control inspections and to submit reports.

1. Accredited Manufacturers: Special inspections will not be required if fabrication is performed by an IAS AC472-accredited manufacturer approved by authorities having jurisdiction to perform such Work without special inspection.

    a. After fabrication, submit copy of certificate of compliance to authorities having jurisdiction, certifying that Work was performed according to Contract requirements.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with erector present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Before erection proceeds, survey elevations and locations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments to receive structural framing, with erector present, for compliance with requirements and metal building system manufacturer's tolerances.

1. Engage land surveyor to perform surveying.

C. Proceed with erection only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition.

B. Provide temporary shores, guys, braces, and other supports during erection to keep structural framing secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural framing, connections, and bracing are in place unless otherwise indicated.

3.3 ERECTION OF STRUCTURAL FRAMING

A. Erect metal building system according to manufacturer's written instructions and drawings.

B. Do not field cut, drill, or alter structural members without written approval from metal building system manufacturer's professional engineer.

C. Set structural framing accurately in locations and to elevations indicated, according to AISC specifications referenced in this Section. Maintain structural stability of frame during erection.

D. Base and Bearing Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.

1. Set plates for structural members on wedges, shims, or setting nuts as required.
2. Tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.
3. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.

E. Align and adjust structural framing before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that will be in permanent contact with framing. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.

1. Level and plumb individual members of structure.
2. Make allowances for difference between temperature at time of erection and mean temperature when structure will be completed and in service.

F. Primary Framing and End Walls: Erect framing level, plumb, rigid, secure, and true to line. Level baseplates to a true even plane with full bearing to supporting structures, set with double-nutted anchor bolts. Use grout to obtain uniform bearing and to maintain a level base-line elevation. Moist-cure grout for not less than seven days after placement.

1. Make field connections using high-strength bolts installed according to RCSC's "Specification for Structural Joints Using High-Strength Bolts" for bolt type and joint type specified.

    a. Joint Type: Snug tightened or pretensioned as required by manufacturer.

G. Secondary Framing: Erect framing level, plumb, rigid, secure, and true to line. Field bolt secondary framing to clips attached to primary framing.

1. Provide rake or gable purlins with tight-fitting closure channels and fasciae.
2. Locate and space wall girts to suit openings such as doors and windows.
3. Provide supplemental framing at entire perimeter of openings, including doors, windows, louvers, and other penetrations of roof and walls.

H. Steel Joists: Install joists and accessories plumb, square, and true to line; securely fasten to supporting construction according to SJI's "Standard Specifications and Load Tables for Steel Joists and Joist Girders," joist manufacturer's written instructions, and requirements in this Section.

1. Before installation, splice joists delivered to Project site in more than one piece.
2. Space, adjust, and align joists accurately in location before permanently fastening.
3. Install temporary bracing and erection bridging, connections, and anchors to ensure that joists are stabilized during construction.
4. Joint Installation:

    a. Bolt joists to supporting steel framework using carbon-steel bolts unless otherwise indicated.
    b. Bolt joists to supporting steel framework using high-strength structural bolts unless otherwise indicated. Comply with RCSC's "Specification for Structural Joints Using High-Strength Bolts" for high-strength structural bolt installation and tightening requirements.
    c. Weld joist seats to supporting steel framework.

5. Install and connect bridging concurrently with joist erection, before construction loads are applied. Anchor ends of bridging lines at top and bottom chords if terminating at walls or beams.

I. Bracing: Install bracing in roof and sidewalls where indicated on erection drawings.

1. Tighten rod and cable bracing to avoid sag.
2. Locate interior end-bay bracing only where indicated.

J. Framing for Openings: Provide shapes of proper design and size to reinforce openings and to carry loads and vibrations imposed, including equipment furnished under mechanical and electrical work. Securely attach to structural framing.

K. Erection Tolerances: Maintain erection tolerances of structural framing within AISC 303.

3.4 METAL PANEL INSTALLATION, GENERAL

A. Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.

B. Examination: Examine primary and secondary framing to verify that structural-panel support members and anchorages have been installed within alignment tolerances required by manufacturer.

1. Examine roughing-in for components and systems penetrating metal panels, to verify actual locations of penetrations relative to seams before metal panel installation.

C. General: Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.

1. Field cut metal panels as required for doors, windows, and other openings. Cut openings as small as possible, neatly to size required, and without damage to adjacent metal panel finishes.

    a. Field cutting of metal panels by torch is not permitted unless approved in writing by manufacturer.

2. Install metal panels perpendicular to structural supports unless otherwise indicated.
3. Flash and seal metal panels with weather closures at perimeter of openings and similar elements. Fasten with self-tapping screws.
4. Locate and space fastenings in uniform vertical and horizontal alignment.
5. Locate metal panel splices over structural supports with end laps in alignment.
6. Lap metal flashing over metal panels to allow moisture to run over and off the material.

D. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with corrosion-resistant coating, by applying rubberized-asphalt underlayment to each contact surface, or by other permanent separation as recommended by metal roof panel manufacturer.

E. Joint Sealers: Install gaskets, joint fillers, and sealants where indicated and where required for weatherproof performance of metal panel assemblies. Provide types of gaskets, fillers, and sealants indicated; or, if not indicated, provide types recommended by metal panel manufacturer.

1. Seal metal panel end laps with double beads of tape or sealant the full width of panel. Seal side joints where recommended by metal panel manufacturer.
2. Prepare joints and apply sealants to comply with requirements in Section 07 92 00 "Joint Sealants."

3.5 METAL ROOF PANEL INSTALLATION

A. General: Provide metal roof panels of full length from eave to ridge unless otherwise indicated or restricted by shipping limitations.

1. Install ridge caps as metal roof panel work proceeds.
2. Flash and seal metal roof panels with weather closures at eaves and rakes. Fasten with self-tapping screws.

B. Standing-Seam Metal Roof Panels: Fasten metal roof panels to supports with concealed clips at each standing-seam joint, at location and spacing and with fasteners recommended by manufacturer.

1. Install clips to supports with self-drilling or self-tapping fasteners.
2. Install pressure plates at locations indicated in manufacturer's written installation instructions.
3. Snap Joint: Nest standing seams and fasten together by interlocking and completely engaging factory-applied sealant.

4. Seamed Joint: Crimp standing seams with manufacturer-approved motorized seamer tool so that clip, metal roof panel, and factory-applied sealant are completely engaged.
5. Rigidly fasten eave end of metal roof panels and allow ridge end free movement for thermal expansion and contraction. Predrill panels for fasteners.
6. Provide metal closures at peaks rake edges each side of ridge caps.

C. Metal Fascia Panels: Align bottom of metal panels and fasten with blind rivets, bolts, or self-drilling or self-tapping screws. Flash and seal metal panels with weather closures where fasciae meet soffits, along lower panel edges, and at perimeter of all openings.

D. Metal Roof Panel Installation Tolerances: Shim and align metal roof panels within installed tolerance of 1/4 inch in 20 feet on slope and location lines and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

3.6 METAL WALL PANEL INSTALLATION

A. General: Install metal wall panels in orientation, sizes, and locations indicated on Drawings. Install panels perpendicular to girts, extending full height of building, unless otherwise indicated. Anchor metal wall panels and other components of the Work securely in place, with provisions for thermal and structural movement.

1. Unless otherwise indicated, begin metal panel installation at corners with center of rib lined up with line of framing.
2. Shim or otherwise plumb substrates receiving metal wall panels.
3. When two rows of metal panels are required, lap panels 4 inches minimum.
4. When building height requires two rows of metal panels at gable ends, align lap of gable panels over metal wall panels at eave height.
5. Rigidly fasten base end of metal wall panels and allow eave end free movement for thermal expansion and contraction. Predrill panels.
6. Flash and seal metal wall panels with weather closures at eaves and rakes, and at perimeter of all openings. Fasten with self-tapping screws.
7. Install screw fasteners in predrilled holes.
8. Install flashing and trim as metal wall panel work proceeds.
9. Apply elastomeric sealant continuously between metal base channel (sill angle) and concrete, and elsewhere as indicated on Drawings; if not indicated, as necessary for waterproofing.
10. Align bottom of metal wall panels and fasten with blind rivets, bolts, or self-drilling or self-tapping screws.
11. Provide weatherproof escutcheons for pipe and conduit penetrating exterior walls.

B. Metal Wall Panels: Install metal wall panels on exterior side of girts. Attach metal wall panels to supports with fasteners as recommended by manufacturer.

C. Installation Tolerances: Shim and align metal wall panels within installed tolerance of 1/4 inch in 20 feet, noncumulative; level, plumb, and on location lines; and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

3.7 THERMAL INSULATION INSTALLATION

A. General: Install insulation concurrently with metal panel installation, in thickness indicated to cover entire surface, according to manufacturer's written instructions.

1. Set vapor-retarder-faced units with vapor retarder toward warm side of construction unless otherwise indicated. Do not obstruct ventilation spaces except for firestopping.
2. Tape joints and ruptures in vapor retarder, and seal each continuous area of insulation to the surrounding construction to ensure airtight installation.
3. Install factory-laminated, vapor-retarder-faced blankets straight and true in one-piece lengths, with both sets of facing tabs sealed, to provide a complete vapor retarder.
4. Install blankets straight and true in one-piece lengths. Install vapor retarder over insulation, with both sets of facing tabs sealed, to provide a complete vapor retarder.

B. Blanket Roof Insulation: Comply with the following installation method:

1. Two-Layers-between-Purlin-with-Spacer-Block Installation: Extend insulation and vapor retarder between purlins. Carry vapor-retarder-facing tabs up and over purlin, overlapping adjoining facing of next insulation course and maintaining continuity of retarder. Install layer of filler insulation over first layer to fill space between purlins formed by thermal spacer blocks. Hold in place with bands and crossbands below insulation.

a. Thermal Spacer Blocks: Where metal roof panels attach directly to purlins, install thermal spacer blocks.

C. Blanket Wall Insulation: Extend insulation and vapor retarder over and perpendicular to top flange of secondary framing. Hold in place by metal wall panels fastened to secondary framing.

1. Retainer Strips: Install retainer strips at each longitudinal insulation joint, straight and taut, nesting with secondary framing to hold insulation in place.

3.8 ACCESSORY INSTALLATION

A. General: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.

1. Install components required for a complete metal roof panel assembly, including trim, copings, ridge closures, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items.
2. Install components for a complete metal wall panel assembly, including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items.

3. Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with corrosion-resistant coating, by applying rubberized-asphalt underlayment to each contact surface, or by other permanent separation as recommended by manufacturer.

B. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.

1. Install exposed flashing and trim that is without excessive oil-canning, buckling, and tool marks and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and to result in waterproof and weather-resistant performance.
2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet with no joints allowed within 24 inches of corner or intersection. Where lapped or bayonet-type expansion provisions cannot be used or would not be sufficiently weather resistant and waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).

C. Gutters: Join sections with riveted-and-soldered or lapped-and-sealed joints. Attach gutters to eave with gutter hangers spaced as required for gutter size, but not more than 36 inches o.c. using manufacturer's standard fasteners. Provide end closures and seal watertight with sealant. Provide for thermal expansion.

D. Downspouts: Join sections with 1-1/2-inch telescoping joints. Provide fasteners designed to hold downspouts securely 1 inch away from walls; locate fasteners at top and bottom and at approximately 60 inches o.c. in between.

1. Provide elbows at base of downspouts to direct water away from building.
2. Tie downspouts to underground drainage system indicated.

E. Pipe Flashing: Form flashing around pipe penetration and metal roof panels. Fasten and seal to panel as recommended by manufacturer.

3.9 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a qualified special inspector to perform field quality control special inspections and to submit reports.

B. Product will be considered defective if it does not pass tests and inspections.

C. Prepare test and inspection reports.

3.10 CLEANING AND PROTECTION

A. Repair damaged galvanized coatings on galvanized items with galvanized repair paint according to ASTM A780/A780M and manufacturer's written instructions.

B. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

C. Touchup Painting:

1. After erection, promptly clean, prepare, and prime or reprime field connections, rust spots, and abraded surfaces of prime-painted structural framing, bearing plates, and accessories.

a. Clean and prepare surfaces by SSPC-SP 2, "Hand Tool Cleaning," or by SSPC-SP 3, "Power Tool Cleaning."
b. Apply a compatible primer of same type as shop primer used on adjacent surfaces.

2. Cleaning and touchup painting are specified in Section 09 91 00 "Painting."

D. Metal Panels: Remove temporary protective coverings and strippable films, if any, as metal panels are installed. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.

1. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 13 34 19

SECTION 32 31 00 - HEAVY DUTY GATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Heavy Duty, manually operated, cantilevered slide ~~and swing~~ gates.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Inspect and discuss electrical roughing-in, equipment bases, and other preparatory work specified elsewhere.
2. Review sequence of operation for each type of gate operator.
3. Review coordination of interlocked equipment specified in this Section and elsewhere.
4. Review required testing, inspecting, and certifying procedures.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for the following:

a. Gate fabric, reinforcements, and attachments.
b. Gates and hardware.
c. Gate operators, including operating instructions and motor characteristics.

B. Shop Drawings: For each type of gate assembly.

1. Include plans, elevations, sections, details, and attachments to other work.
2. Include accessories, hardware, gate operation, and operational clearances.
3. Gate Operator: Show locations and details for installing operator components, switches, and controls. Indicate motor size, electrical characteristics, drive arrangement, mounting, and grounding provisions.

4. Wiring Diagrams: For power, signal, and control wiring.

C. Samples for Initial Selection: For each type of factory-applied finish.

D. Samples for Verification: For each type of component with factory-applied finish, prepared on Samples of size indicated below:

E. Delegated-Design Submittal: For structural performance of posts, framing and gate frameworks, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 INFORMATIONAL SUBMITTALS

A. Product Certificates: For each type of chain-link and gate.

B. Product Certificates: For each type of chain-link, operator, and gate.

C. Product Test Reports: For framework strength according to ASTM F1043, for tests performed by manufacturer and witnessed by a qualified testing agency or a qualified testing agency.

D. Welding certificates.

E. Field quality-control reports.

F. Sample Warranty: For special warranty.

1.6 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For gate operators to include in emergency, operation, and maintenance manuals.

1.7 QUALITY ASSURANCE

A. Testing Agency Qualifications: For testing grounding; member company of NETA or an NRTL.

1. Testing Agency's Field Supervisor: Certified by NETA to supervise on-site testing.

B. Welding Qualifications: Qualify procedures and personnel in accordance with the following:

1. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."

C. Emergency Access Requirements: According to requirements of authorities having jurisdiction for gates with automatic gate operators serving as a required means of access.

1.8 FIELD CONDITIONS

A. Field Measurements: Verify layout information gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

1.9 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of gates that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Failure to comply with performance requirements.
b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
c. Faulty operation of gate operators and controls.

2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, to design gate frameworks.

B. Structural Performance: Gate and frameworks shall withstand the design wind loads and stresses for gate height(s) and under exposure conditions indicated according to ASCE/SEI 7.

1. Design Wind Load: As indicated on Drawings.

C. Lightning Protection System: Maximum resistance-to-ground value of 25 ohms at each grounding location along gate under normal dry conditions.

2.2 ~~SWING~~ **CANTILEVERED SLIDE** GATES

A. Basis of Design product and Manufacturer; Tymetal a Fort Miller Group Company, Model, Fortress **TYM-2000** Heavy Duty aluminum ~~swing~~ gate.

B. Gate Frame:

1. The gate frame shall be fabricated from 6063-T6 aluminum alloy extrusions. The top member shall be a 3" x 5" aluminum structural channel/tube extrusion weighing not less than 3.0 lb/lf. The bottom member shall be a 2” x 5" aluminum structural tube weighing not less than 2.0 lb/lf.
2. Vertical Members:

a. ~~Chain Link:~~ The vertical members at the ends of the opening portion of the frame shall be "P" shaped in cross section with a nominal base dimension of no less than 2” x 2” and weighing not less than 1.6 lb/lf. The intermediate vertical members shall alternate between 2” x 2” and 1” x 2” in cross section weighing not less than 1.1 lb/lf and 0.82 lb/lf respectively. The spacing for the vertical intermediates shall be less than 50% of the gate frame height.

b. Intermediate 1” x 2” vertical members weighing not less than .82 lb/lf shall alternate between 2” x 2” major members.

3. All welds on the gate frame shall conform to Welding Procedure Specification and Procedure Qualification Record to insure conformance to the AWS D1.2 Structural Welding Code. All individual welders shall be certified to AWS D1.2 welding code.
4. Each gate leaf shall be provided with a minimum of two pivoting hinges to allow proper operation, and shall be connected to the gate side of the hinge by means of two through-bolts.

C. Gate Track:

1. The gate frame shall have a separate semi-enclosed “keyed” track, extruded from 6005A-T61 or 6105-T5 aluminum alloy, weighing not less than 2.9 lb/lf. The track member is to be located on only one side of the top primary. Welds to be placed alternately along the top and side of the track at 9" centers with welds being a minimum of 2".

D. Gate Mounting:

1. The gate frame is to be supported from the track by two (2) swivel type, self-aligning, 4-wheeled, sealed lubricant, ball-bearing truck assemblies.
2. The bottom of each support post shall have a bracket equipped with a pair of 3” UHMW guide wheels Wheel cover protectors shall be included with bottom guides to comply with UL325.
3. Gap protectors shall be provided and installed, compliant with ASTM F 2200-05.

E. The gate shall be completed by installation of approved filler as specified.

1. Chain Link: 2” x 2” x 9 gauge aluminized steel chain link fabric shall extend the entire length of the gate (if operated gate, counterbalance must also have fabric to prevent reach through and comply with ASTM F2200) Fabric shall be attached at each end of the gate frame by standard fence industry tension bars and tied at each 2” x 2” vertical member with standard fence industry ties. ASTM F2200 requires attachment method that leaves no leading or bottom edge protrusions cannot exceed 0.5 inch.

~~C.~~**F.** Diagonal Bracing:

1. Diagonal "X" bracing of 3/16" or 1/4” diameter stainless or galvanized steel cable shall be installed throughout the gate to provide additional vertical adjustment.

~~D.~~**G.** Posts:

1. Gate hanger posts shall be sized in accordance with gate dimensions as specified by the manufacturer. **Minimum 4" O.D. round x 3/16" wall steel tubing, grade 500. Gate posts shall be galvanized or coated and supported in concrete footings.** Height of the post and depth of footing shall be as ~~specified by the engineer~~**indicated**.

~~E.~~**H.** Lock:

1. Single gates shall have a latch assembly to provide a means for locking with a padlock.
2. Double gates shall have a drop-bar mechanism extending into the ground, and a center locking kit to provide a means for locking with a padlock.

~~F.~~**I.** The gate shall be completed by installation of approved filler as specified.

1. Chain Link: 2" x 2" x 9 gauge aluminized steel chain link fabric shall extend the entire length of the gate panel. Fabric shall be attached at each end of the gate frame by standard fence industry tension bars and tied at each 2" x 2" (51mm x 51mm) vertical member with standard fence industry ties. ASTM F 2200 requires attachment method that leaves no leading or bottom edge protrusions (cannot exceed 0.5 inch).

~~G.~~**J.** Finish:

~~1. Gate to be color coated with polyester powder as specified. If powder coated, the gate (including track member) and all accessories shall be pretreated chemically by sand blasting or other acceptable method to ensure proper coating adherence.~~

1. Gate to be mill finish aluminum.

2.3 GATE OPERATOR DETAILS

A. Model TYM-200~~-SW swing~~ gate operator shall open and close ~~swing~~ gates, providing convenience and security. This model is adapted to function with most accessories including: radio controls, single and three button control stations, digital keypads, sensing loops. The TYM-200-SW is available in 115/208/230 Volt AC single phase or 208/230/460 Volt AC three phase power. Control voltage in each case is 24 Volt DC.

2.4 CONTROLLER

A. Features include and integral APeX Controller. Operation shall be by means of 1 horsepower single or three phase C-faced instant reversing motor, transferring power to a heavy-duty right-angle oil bath gear reducer. Power is transferred from the gear reducer to a heavy duty 3 inch diameter torque limiter and #40 plate sprocket. From the torque limiter, power transfers to the 1-1/8 inch output drive shaft with solid cast aluminum arm crank and harmonic action articulating ~~swing~~ gate arm attached to the gate.

2.5 ARTICULATING ARM

A. The Articulating arm shall cycle the gate through to a 90-degree opening in approximately 13-15 seconds using manufacturer recommended installation. By use of an articulating arm design, the gate will start moving slowly, gradually increase in speed, the slow down again as it approaches full open.

2.6 COMPONENTS

A. Standard mechanical components shall include as a minimum:

1. 14 Gauge weather-resistant galvannealed steel cabinet.
2. Gasketed cabinet door which is removable and lockable.
3. 1 – inch solid steel output drive shaft.
4. Heavy-duty right angle oil bath C-face gear reducer.
5. Heavy-duty pillow block bearings with grease fittings for easy maintenance.
6. Heavy-duty 3 inch diameter torque limiter.
7. Dual C-face 6 foot pound brake.
8. All welded interior steel framework.
9. Steel articulating style gate arm with manual disconnect pin, which is lockable.
10. Powder coat finish.

B. Standard electrical components shall include as a minimum:

1. 1 HP motor with thermal overload protection in 115 and 230 VAC single phase or 230 or 460 VAC three phase.
2. APeX Solid state logic controller featuring 15 diagnostic L.E.D. indicators and auto-close timer (1 second to 9 minutes)
3. Inherent, adjustable motor over-current sensing to detect obstructions, with separate adjustments for opening and closing directions.
4. Controller housed in zinc plated control box.
5. Power On/Off switch. In 115 VAC units, 115 VAC duplex outlets included.
6. Contacts for opening, closing and reversing accessories, as well as contact and non-contact obstruction sensing devices. 24 VDC available on terminal strip to power accessory devices.

7. Adjustable limits with precision snap-action type limit switches to control gate position.
8. Paired operation / master slave or stand alone capable with dip switch selection. Three wire twisted pair shielded cable required for paired operation.

C. Accessories, contact, non-contact, and control devices.

1. Control devices include pushbuttons, radio controls, keypad, card readers, key switches.
2. Contact and non-contact devices include photoelectric sensors, vehicle detectors, proximity sensors, and contact devices.
3. UL325 requires that should there be a space greater than 4” between the lowest point of grade and the bottom of the gate frame, Safety Edges are required on both sides of the gate frame on the leading edge of the gate panel. (See 3.01 B).
4. Accessories include flashing strobe lights, cycle counters, and intercom systems.

2.7 GROUT AND ANCHORING CEMENT

A. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout, recommended in writing by manufacturer, for exterior applications.

B. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound. Provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating, and that is recommended in writing by manufacturer for exterior applications.

2.8 GROUNDING MATERIALS

A. Connectors and Grounding Rods: Listed and labeled for complying with UL 467.

1. Connectors for Below-Grade Use: Exothermic welded type.
2. Grounding Rods: Copper-clad steel, 5/8 by 96 inches.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for a certified survey of property lines and legal boundaries, site clearing, earthwork, pavement work, and other conditions affecting performance of the Work.

1. Do not begin installation before final grading is completed unless otherwise permitted by Architect.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 GATE INSTALLATION

A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation.

3.3 GATE-OPERATOR INSTALLATION

A. Install gate operators according to manufacturer's written instructions, aligned and true to fence line and grade.

B. Vehicle Loop Detector System: Bury wire loop according to manufacturer's written instructions. Connect to equipment operated by detector.

C. Ground electric-powered motors, controls, and other devices according to NFPA 70 and manufacturer's written instructions.

3.4 GROUNDING AND BONDING

A. Gate Grounding:

1. Ground for fence and fence posts shall be a separate system from ground for gate and gate posts.
2. Fences within 100 Feet of Buildings, Structures, Walkways, and Roadways: Ground at maximum intervals of 750 feet.
3. Ground fence on each side of gates and other fence openings.

    a. Bond metal gates to gate posts.
    b. Bond across openings, with and without gates, except openings indicated as intentional fence discontinuities. Use No. 2 AWG wire and bury it at least 18 inches below finished grade.

B. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at grounding location.

C. Connections:

1. Make connections with clean, bare metal at points of contact.
2. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.
3. Make above-grade ground connections with mechanical fasteners.
4. Make below-grade ground connections with exothermic welds.

5. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.

D. Bonding to Lightning Protection System: Ground and bond grounding conductor to lightning protection down conductor or lightning protection grounding conductor according to NFPA 780.

3.5 SYSTEM VALIDATION

A. The complete system shall be adjusted to assure it is performing properly.

B. The system shall be operated for a sufficient period of time to determine that the system is in proper working order.

C. For operated gate systems - test and explain safety features:

1. Each system feature and device is a separate component of the gate system.
2. Read and follow all instructions for each component.
3. Ensure that all instructions for mechanical components, safety devices and the gate operator are available for everyone who will be using the gate system.
4. The warning signs shipped with the gate operator must be installed in prominent position on both sides of the gate.
5. Ensure the owner is clear with regard to the safety points concerning the basic operational guidelines of the safety features of the gate operator system. These safety points are listed in the gate operator manual and must be read prior to system use.

3.6 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests.

B. Prepare test reports.

3.7 FACTORY INSPECTION AND TESTING

A. Manufacturer shall test each operator at factory to assure smooth operation.

B. Manufacturer shall test all control inputs to ensure proper function.

3.8 ADJUSTING

A. Gates: Adjust gates to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.

B. Automatic Gate Operator: Energize circuits to electrical equipment and devices, start units, and verify proper motor rotation and unit operation.

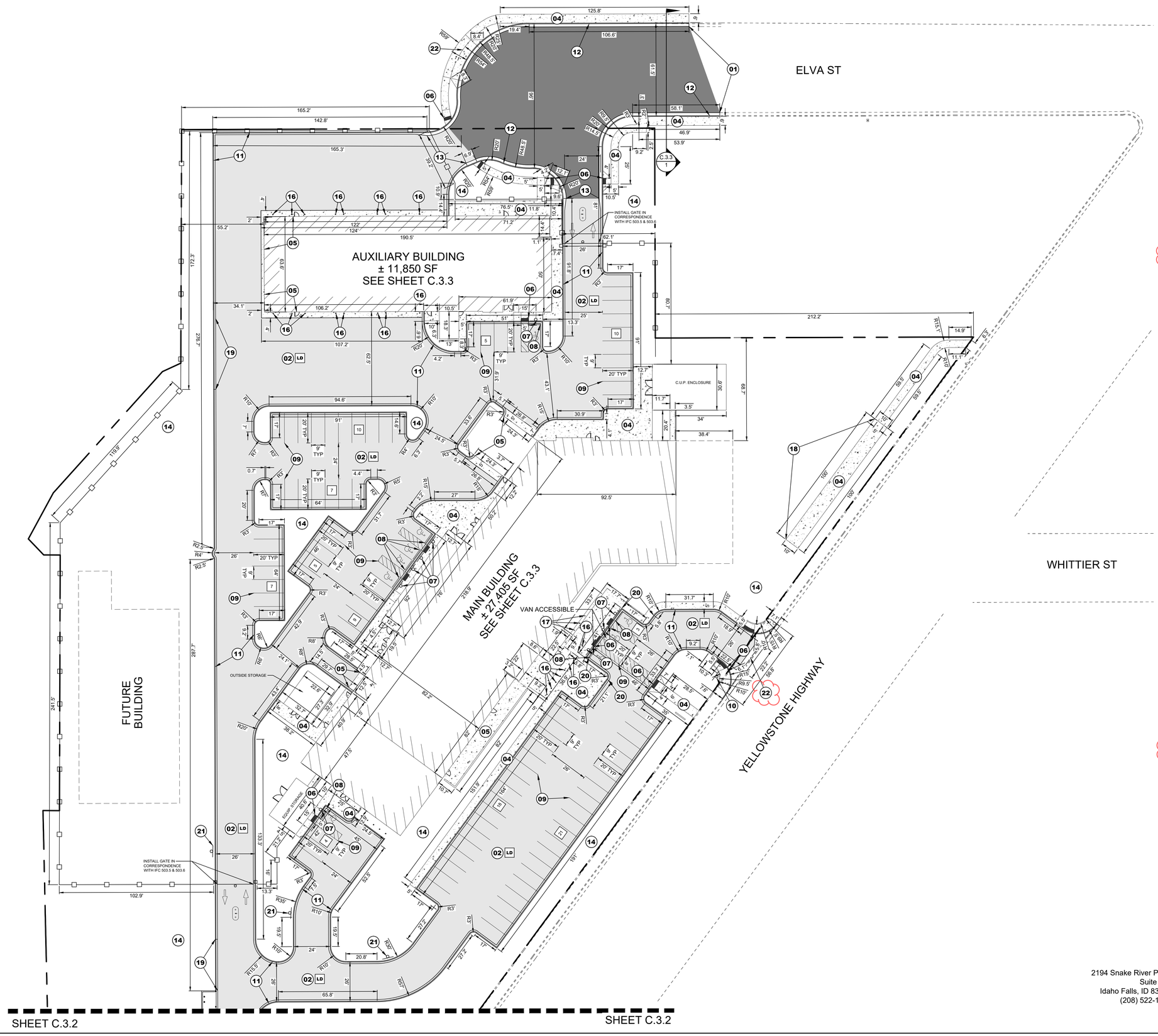
1. Hydraulic Operator: Purge operating system, adjust pressure and fluid levels, and check for leaks.
2. Test and adjust operators, controls, alarms, and safety devices. Replace damaged and malfunctioning controls and equipment.
3. Lubricate operator and related components.

C. Lubricate hardware and other moving parts.

3.9 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain gates.

END OF SECTION 32 31 00



SITE PLAN KEYNOTES

01 TIE INTO EXISTING ASPHALT, 2' SAWCUT AS REQUIRED

02 INSTALL LIGHT DUTY ASPHALT (SEE FLEXIBLE PAVEMENT SECTION SUMMARY TABLE SHEET C.3.3)

03 NOT USED

04 INSTALL 4" THICK SIDEWALK, (WIDTH PER PLAN) PER ISPWC SD-709, 714, 714A, 714B UNLESS OTHERWISE NOTED

05 INSTALL CONCRETE PAVEMENT PER PCCP PAVEMENT SECTION PER TABLE SHEET C.3.3

06 INSTALL ADA RAMP WITH TRUNCATED DOMES PER ISPWC SD-712

07 ADA SIGN PER DETAIL 3 SHEET C.3.3

08 INSTALL WHEEL BLOCKS PER CITY OF IDAHO FALLS STANDARDS IF-400-3

09 STRIPING PER MUTCD STANDARDS

10 INSTALL STOP SIGN PER MUTCD STANDARDS

11 INSTALL 1.5' FLAT PAN CURB & GUTTER SEE DETAIL 4 SHEET C.3.3

12 INSTALL 2.5' CURB & GUTTER PER ISPWC SD-701

13 INSTALL CURB TRANSITION PER ISPWC SD-707 (LENGTH AND WIDTH PER PLANS)

14 INSTALL LANDSCAPE PER LANDSCAPE PLAN

15 INSTALL TRASH ENCLOSURE PAD PER DETAIL 5, 5A, 5B , 6, SHEET C.3.3

16 INSTALL BOLLARD PER DETAIL 6 SHEET C.3.3

17 FLAG POLE BASE, SEE LANDSCAPE PLANS FOR DETAIL

18 HISTORICAL MONUMENT, SEE LANDSCAPE PLANS FOR DETAIL

19 INSTALL DEPRESSED (MOUNTABLE) CURB PER DETAIL 7, SHEET C.3.3

20 CURB TRANSITION FROM FULL HEIGHT TO ZERO

21 INSTALL "NO PARKING - FIRE LANE" SIGN PER INTERNATIONAL FIRE CODE APPENDIX "D" SECTION 103.6 SIGN TYPE "D" WITH SIGN POST PER DETAIL 3 THIS SHEET. INSTALL IN PIPE BOLLARDS WHERE APPLICABLE. NO PARKING ZONE TO BE MARKED WITH RED CURBING

22 INSTALL CONCRETE DRIVEWAY APPROACH PER CITY OF IDAHO FALLS STANDARDS IF-708A

SHEET NOTES:

1. DRIVE AISLE DIMENSIONS MEASURED TO FACE OF CURB, WHERE CURB IS PROPOSED OR TO EDGE OF PAVEMENT OTHERWISE.

PARKING STALL COUNT #

0 30' 60'
SCALE: 1" = 30'

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Stamp:

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IDAHO FALLS POLICE HEADQUARTERS

775 NORTHGATE MILE,
IDAHO FALLS, ID 83401

Project No.
ID-2562-2007

Revisions:
2-28-22 - ADDENDUM #1

BID SET

Issue Date: 12/23/2021
Design by: JTS
Drawn by: JTS
Checked by: LTS

PRELIMINARY
NOT FOR CONSTRUCTION

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HORROCKS ENGINEERS

SITE PLAN NORTH

C.3.1

PLANT SCHEDULE

TREES	BOTANICAL / COMMON NAME	CONT	CAL	QTY
	BETULA PAPYRIFERA PAPER BIRCH	B & B	2"	4
	CERCIS CANADENSIS EASTERN REDBUD	2" CAL.	B&B	8
	FAGUS SYLVATICA 'RED OBELISK' RED OBELISK EUROPEAN BEECH	B & B	2"	6
	GLEDITSIA TRIACANTHOS INERMIS `SHADEMASTER` TM SHADEMASTER LOCUST	2" CAL.	B&B	9
	GYMNOCLADUS DIOICA `ESPRESSO` KENTUCKY COFFEETREE	2" CAL.	B&B	11
	JUNIPERUS SCOPULORUM `SKYROCKET` SKYROCKET JUNIPER	6-7' HT.	B&B	24
	KOELREUTERIA PANICULATA `JFS-SUNLEAF` TM SUMMERBURST GOLDENRAIN TREE	B & B	2"	6
	MALUS X `RADIANT` RADIANT CRAB APPLE	2" CAL.	B&B	35
	PICEA ABIES `CUPRESSINA` NORWAY SPRUCE	6-7' HT.	B&B	3
	PICEA GLAUCA `DENSATA` BLACK HILLS SPRUCE	6-7' HT.	B&B	6
	PICEA PUNGENS `FASTIGATA` FASTIGIATE COLORADO SPRUCE	6-7' HT.	B&B	2
	PINUS NIGRA `ARNOLD SENTINEL` ARNOLD SENTINEL AUSTRIAN BLACK PINE	6-7' HT.	B&B	20
	PINUS SYLVESTRIS `FASTIGIATA` ERECT SCOTCH PINE	6-7' HT.	B&B	1
	PRUNUS VIRGINIANA `CANADA RED` CANADA RED CHOKECHERRY	2" CAL.	B&B	3
	PYRUS CALLERYANA `CHANTICLEER` CHANTICLEER PEAR	2" CAL.	B&B	2

SHRUBS	BOTANICAL / COMMON NAME	SIZE	
	BERBERIS THUNBERGII `CRIMSON PYGMY` CRIMSON PYGMY BARBERRY	2 GAL	12
	BERBERIS THUNBERGII `SUNJOY TANGELO` SUNJOY BARBERRY	2 GAL.	20
	CORNUS SERICEA `KELSEYI` KELSEYI DOGWOOD	2 GAL	33
	COTINUS COGGYGRIA `WINECRAFT BLACK SMOKEBUSH	2 GAL	14
	EUONYMUS FORTUNEI `GOLDEN PRINCE` TM GOLDEN PRINCE EUONYMUS	2 GAL	11
	PHYSOCARPUS OPULIFOLIUS `DIABLO` DIABLO NINEBARK	2 GAL	38
	PRUNUS X CISTENA PURPLE LEAF SAND CHERRY	2 GAL	37
	RHUS AROMATICA `GRO-LOW` GRO-LOW FRAGRANT SUMAC	2 GAL	94
	ROSA X `RADRAZZ` KNOCK OUT SHRUB ROSE	2 GAL	68
	SPIRAEA X BUMALDA BUMALD SPIRAEA	2 GAL	67
	SYRINGA X `BLOOMERANG` LILAC	2 GAL	3
	VIBURNUM DENTATUM `ARROWWOOD` ARROWWOOD VIBURNUM	2 GAL	6
	YUCCA FILAMENTOSA `GOLDEN SWORD` ADAM`S NEEDLE	1 GAL	25

ANNUALS/PERENNIALS	BOTANICAL / COMMON NAME	SIZE	
	EUPHORBIA POLYCHROMA `BONFIRE` MULTICOLOR CUSHION SPURGE	1 GAL.	3
	HEUCHERA X `OBSIDIAN` CORAL BELLS	1 GAL	11

GRASSES	BOTANICAL / COMMON NAME	SIZE	
	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` FEATHER REED GRASS	1 GAL	105

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY
1	4" DEPTH OF 1-2" DECORATIVE LANDSCAPE ROCK	1,426 CY
3	2-4' BOULDER	28
5	HYDRO SEED NATIVE VEGETATION AREA	90,652 SF
6	6" DEPTH OF 1" WASHED GRAVEL FOR OVERFLOW PARKING	39,286 SF
7	6' BENCH - CONTRACTOR PROVIDED. SUBMIT MANUFACTURER AND MODEL NUMBER TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.	3
8	12" DEPTH OF 6-8" RIP RAP. COLOR TO MATCH DECORATIVE LANDSCAPE ROCK USED ON SITE	10,633 SF
9	HISTORIC INTERPRETIVE SIGNAGE - CONTRACTOR TO PROVIDE A 4' X 8' EXTERIOR SIGN DISLAY WITH BASE. BOTTOM OF DISPLAY SHALL BE 3' ABOVE FINISHED GRADE. OWNER TO PROVDE SIGN DETAIL TO BE PLACED ON DISPLAY. SUBMIT SHOP DRAWINGS TO OWNER FOR APPROVAL PRIOR TO FABRICATION	1
10	OVERHEAD WOOD STRUCTURE FROM RECLAIMED WOOD. DESIGN BY OTHERS.	

GENERAL LANDSCAPE NOTES

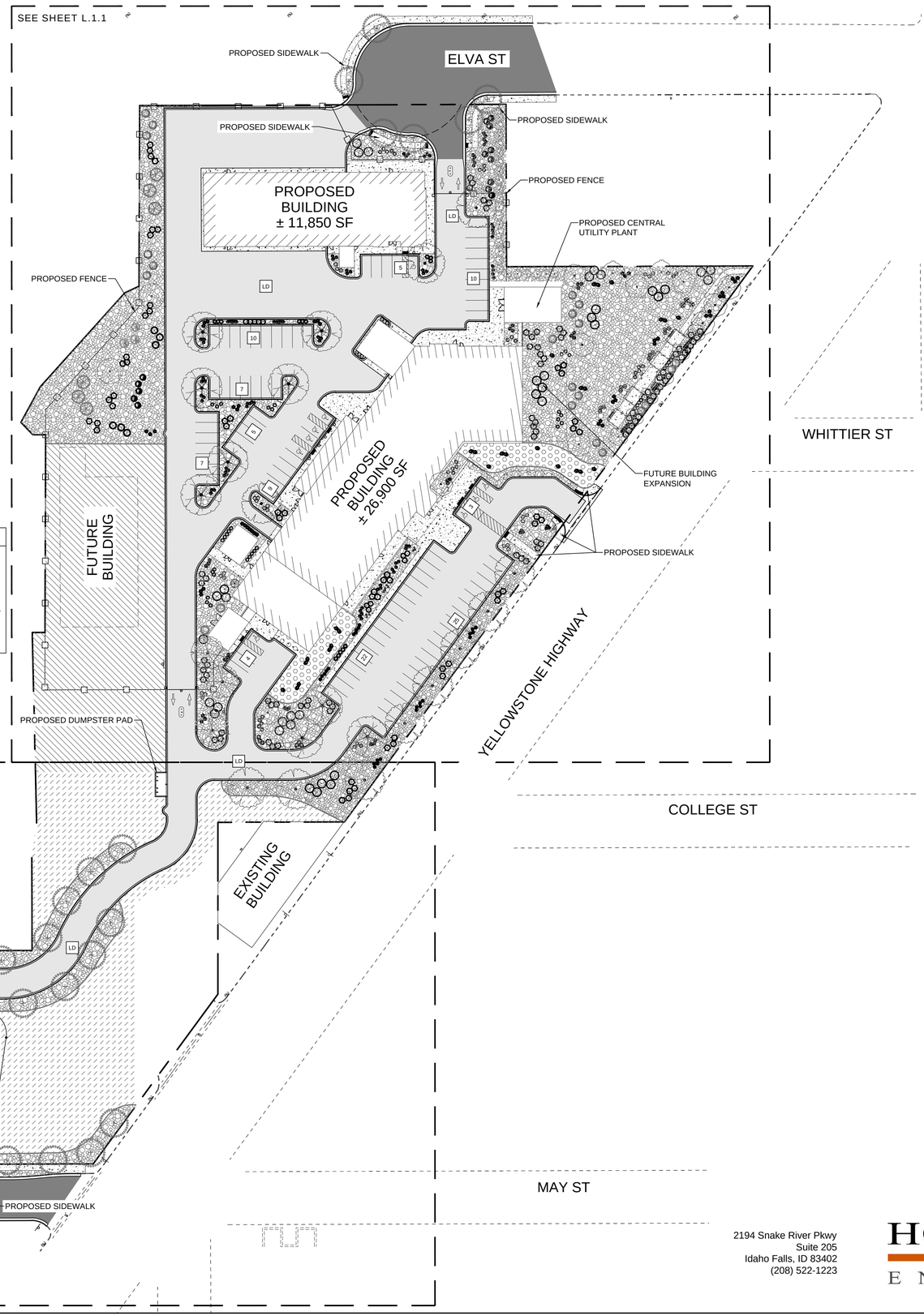
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2. PLANT MATERIAL TO BE INSTALLED PER PLANT LEGEND. IF SUBSTITUTIONS ARE WANTED, PROPOSED CHANGES MUST BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PLANTING.
3. TOPSOIL TO BE IMPLEMENTED AT THE FOLLOWING DEPTHS:
   - 3.1. 6" DEPTH IN ALL PLANTER BED AREAS
   - 3.2. 4" DEPTH IN ALL TURF SOD AREAS
   - 3.3. 4" DEPTH IN ALL NEW SEED AREAS.
   - 3.4. 2" DEPTH IN ALL RESTORATION AREAS THAT WERE PREVIOUSLY VEGETATED.
4. EDGING SHALL BE IMPLEMENTED BETWEEN ALL VARYING LANDSCAPE MATERIALS SUCH AS TURF GRASS AND BARK MULCH, BARK MULCH AND ROCK MULCH, TURF GRASS AND BROADCAST SEED, ETC. EXACT TYPE OF EDGING SHALL BE INDICATED ON THE PLANS. IF NO EDGING IS INDICATED ON THE PLANS A 6" X 6" SLIP FORMED, SQUARE CONCRETE CURB SHALL BE USED.
5. LANDSCAPE ROCK AND BARK MULCH COLOR AND TYPE TO BE APPROVED BY OWNER. SUBMIT SAMPLES FOR APPROVAL PRIOR TO INSTALLATION. MULCH MATERIAL SHALL BE IMPLEMENTED IN ALL PLANTER BED AREAS INDICATED ON THE PLANS AT THE FOLLOWING DEPTHS:
   - 5.1. 1-2" DIAMETER FRACTURED STONE : 4"
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   - 5.6. PULL MULCH MIN. OF 3" AWAY FROM BASE OF ALL PERENNIALS AND SHRUBS AND MIN. 6" AWAY FROM ALL TREES.
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7. ALL MATERIALS SHALL BE NEW AND WITHOUT FLAWS OR DEFECTS OF THE QUALITY AND PERFORMANCE SPECIFIED, AND SHALL MEET THE REQUIREMENTS OF THIS SYSTEM. USE MATERIALS AS SPECIFIED. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT WRITTEN PERMISSION OF THE OWNER OR LANDSCAPE ARCHITECT
8. BASE PLAN & LOCATION OF EXISTING EQUIPMENT ARE SCHEMATIC IN NATURE. FIELD VERIFY ALL BASE & EXISTING ELEMENTS PRIOR TO CONSTRUCTION & PROVIDE NECESSARY ADJUSTMENTS.
9. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED ON A REGULAR SCHEDULE DURING THE FIRST GROWING SEASON.
10. THE CONTRACTOR SHALL WARRANTY ALL PLANT MATERIAL FOR ONE-YEAR AFTER DATE OF FINAL ACCEPTANCE.
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12. CAREFULLY SALVAGE AND REMOVED ARTIFACTS (MARKED WITH "S") FOR RE-USE PER STATE HISTORIC PRESERVATION OFFICE MEMORANDUM OF AGREEMENT (SHPO MOA). RELOCATE ARTIFACTS TO DESIGNATED AREAS ON SITE. RESET 8 SETS OF EXISTING POSTS AND OVERHEAD BEAMS FROM THE STOCKYARD, EVENLY SPACED ALONG THE PATHWAY.
13. PADS FOR BENCHES SHOWN ON PLANS SHALL BE CONSTRUCTED BY CONTRACTOR AND SHALL BE LOCATED ON THE WEST SIDE OF THE PATHWAY SO THEY FACE EAST.

⚠1

OVERALL LANDSCAPING TABLE

OVERALL SITE LANDSCAPING
SITE AREA = 329,829 SF
TOTAL HARDSCAPE = 157,898 SF (48% OF SITE)
PROPOSED BUILDINGS = 39,255 SF
TOTAL LANDSCAPING = 132,676 SF (40.2% OF SITE)
***(20% MINIMUM LANDSCAPING REQUIRED OF TOTAL SITE SF)**

TOTAL INTERIOR PARKING = 33,494 SF
TOTAL PROVIDED INTERIOR PARKING LANDSCAPE = 8583 SF (**25.6%** OF PARKING SF)
***(10% MINIMUM PARKING REQUIRED)**



HORROCKS ENGINEERS

Architects Design Group
Ian A. Reeves, A.I.A.
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Stamp:

LICENSED LANDSCAPE ARCHITECT
ZACHARY AARON SCOTT
LA-23886
12-23-2021
ELECTRONIC SEAL
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IDAHO FALLS, ID 83401

Project No.
ID-2562-2007

Revisions:
2-28-22 - ADDENDUM #1

BID SET

Issue Date: 12/23/2021
Design by: JTS
Drawn by: JTS
Checked by: LTS

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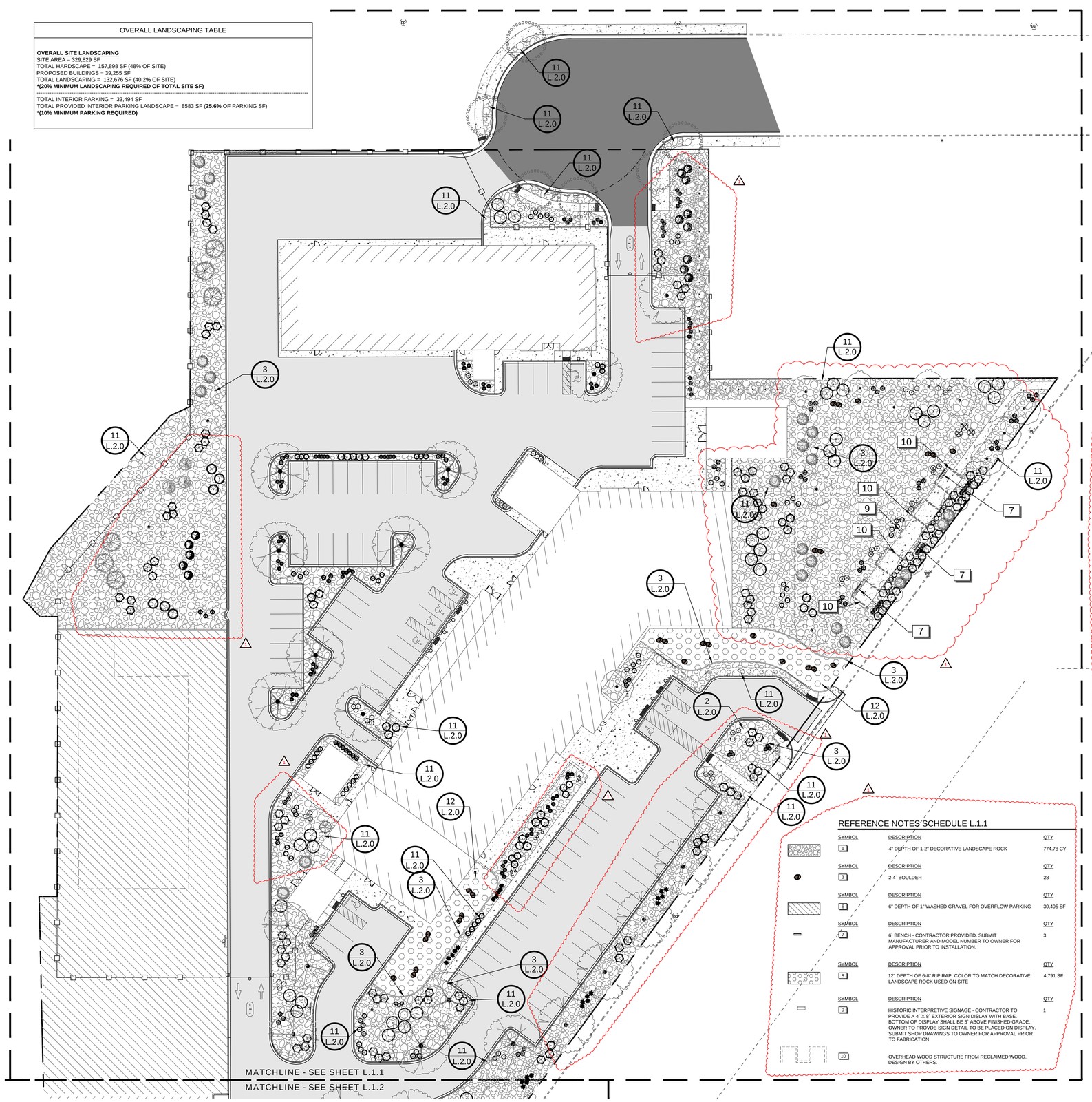
LANDSCAPE OVERVIEW

L.1.0

2194 Snake River Pkwy
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Idaho Falls, ID 83402
(208) 522-1223

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PLANT SCHEDULE L.1.1

TREES	BOTANICAL / COMMON NAME	CONT	CAL	QTY
	BETULA PAPYRIFERA PAPER BIRCH	B & B	2"	4
	CERCIS CANADENSIS EASTERN REDBUD	2" CAL.	B&B	8
	FAGUS SYLVATICA 'RED OBELISK' RED OBELISK EUROPEAN BEECH	B & B	2"	6
	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' TM SHADEMASTER LOCUST	2" CAL.	B&B	9
	GYMNOCLADUS DIOICA 'ESPRESSO' KENTUCKY COFFEETREE	2" CAL.	B&B	8
	JUNIPERUS SCOPULORUM 'SKYROCKET' SKYROCKET JUNIPER	6-7' HT.	B&B	24
	MALUS X 'RADIANT' RADIANT CRAB APPLE	2" CAL.	B&B	6
	PICEA ABIES 'CUPRESSINA' NORWAY SPRUCE	6-7' HT.	B&B	3
	PICEA GLAUCA 'DENSATA' BLACK HILLS SPRUCE	6-7' HT.	B&B	6
	PICEA PUNGENS 'FASTIGATA' FASTIGIATE COLORADO SPRUCE	6-7' HT.	B&B	2
	PINUS NIGRA 'ARNOLD SENTINEL' ARNOLD SENTINEL AUSTRIAN BLACK PINE	6-7' HT.	B&B	20
	PINUS SYLVESTRIS 'FASTIGIATA' ERECT SCOTCH PINE	6-7' HT.	B&B	1
	PRUNUS VIRGINIANA 'CANADA RED' CANADA RED CHOKECHERRY	2" CAL.	B&B	3
	PYRUS CALLERYANA 'CHANTICLEER' CHANTICLEER PEAR	2" CAL.	B&B	2

SHRUBS	BOTANICAL / COMMON NAME	SIZE	
	BERBERIS THUNBERGII 'CRIMSON PYGMY' CRIMSON PYGMY BARBERRY	2 GAL	12
	BERBERIS THUNBERGII 'SUNJOY TANGELO' SUNJOY BARBERRY	2 GAL	20
	CORNUS SERICEA 'KELSEYI' KELSEYI DOGWOOD	2 GAL	33
	COTINUS COGGYGRIA 'WINECRAFT BLACK SMOKEBUSH	2 GAL	14
	EUONYMUS FORTUNEI 'GOLDEN PRINCE' TM GOLDEN PRINCE EUONYMUS	2 GAL	11
	PHYSOCARPUS OPULIFOLIUS 'DIABLO' DIABLO NINEBARK	2 GAL	38
	PRUNUS X CISTENA PURPLE LEAF SAND CHERRY	2 GAL	32
	RHUS AROMATICA 'GRO-LOW' GRO-LOW FRAGRANT SUMAC	2 GAL	89
	ROSA X 'RADRAZZ' KNOCK OUT SHRUB ROSE	2 GAL	68
	SPIRAEA X BUMALDA BUMALD SPIRAEA	2 GAL	67
	SYRINGA X 'BLOOMERANG' LILAC	2 GAL	3
	VIBURNUM DENTATUM 'ARROWWOOD' ARROWWOOD VIBURNUM	2 GAL	6
	YUCCA FILAMENTOSA 'GOLDEN SWORD' ADAM'S NEEDLE	1 GAL	22

ANNUALS/PERENNIALS	BOTANICAL / COMMON NAME	SIZE	
	EUPHORBIA POLYCHROMA 'BONFIRE' MULTICOLOR CUSHION SPURGE	1 GAL	3
	HEUCHERA X 'OBSIDIAN' CORAL BELLS	1 GAL	11

GRASSES	BOTANICAL / COMMON NAME	SIZE	
	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' FEATHER REED GRASS	1 GAL	105

REFERENCE NOTES SCHEDULE L.1.1

SYMBOL	DESCRIPTION	QTY
1	4" DEPTH OF 1-2" DECORATIVE LANDSCAPE ROCK	774.78 CY
3	2-4' BOULDER	28
6	6" DEPTH OF 1" WASHED GRAVEL FOR OVERFLOW PARKING	30,405 SF
7	6' BENCH - CONTRACTOR PROVIDED. SUBMIT MANUFACTURER AND MODEL NUMBER TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.	3
8	12" DEPTH OF 6-8" RIP RAP. COLOR TO MATCH DECORATIVE LANDSCAPE ROCK USED ON SITE	4,791 SF
9	HISTORIC INTERPRETIVE SIGNAGE - CONTRACTOR TO PROVIDE A 4' X 8' EXTERIOR SIGN DISLAY WITH BASE. BOTTOM OF DISPLAY SHALL BE 3' ABOVE FINISHED GRADE. OWNER TO PROVDE SIGN DETAIL TO BE PLACED ON DISPLAY. SUBMIT SHOP DRAWINGS TO OWNER FOR APPROVAL PRIOR TO FABRICATION	1
10	OVERHEAD WOOD STRUCTURE FROM RECLAIMED WOOD. DESIGN BY OTHERS.	

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HORROCKS ENGINEERS

HORROCKS ENGINEERS

0 30' 60'

SCALE: 1" = 30'

Architects Design Group

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Stamp:

LICENSED LANDSCAPE ARCHITECT
ZACHARY AARON SCOTT
LA-13880
12-31-2021
ELECTRONIC SEAL
STATE OF IDAHO

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Project No.
ID-2562-2007

Revisions:
2-28-22 - ADDENDUM #1

BID SET

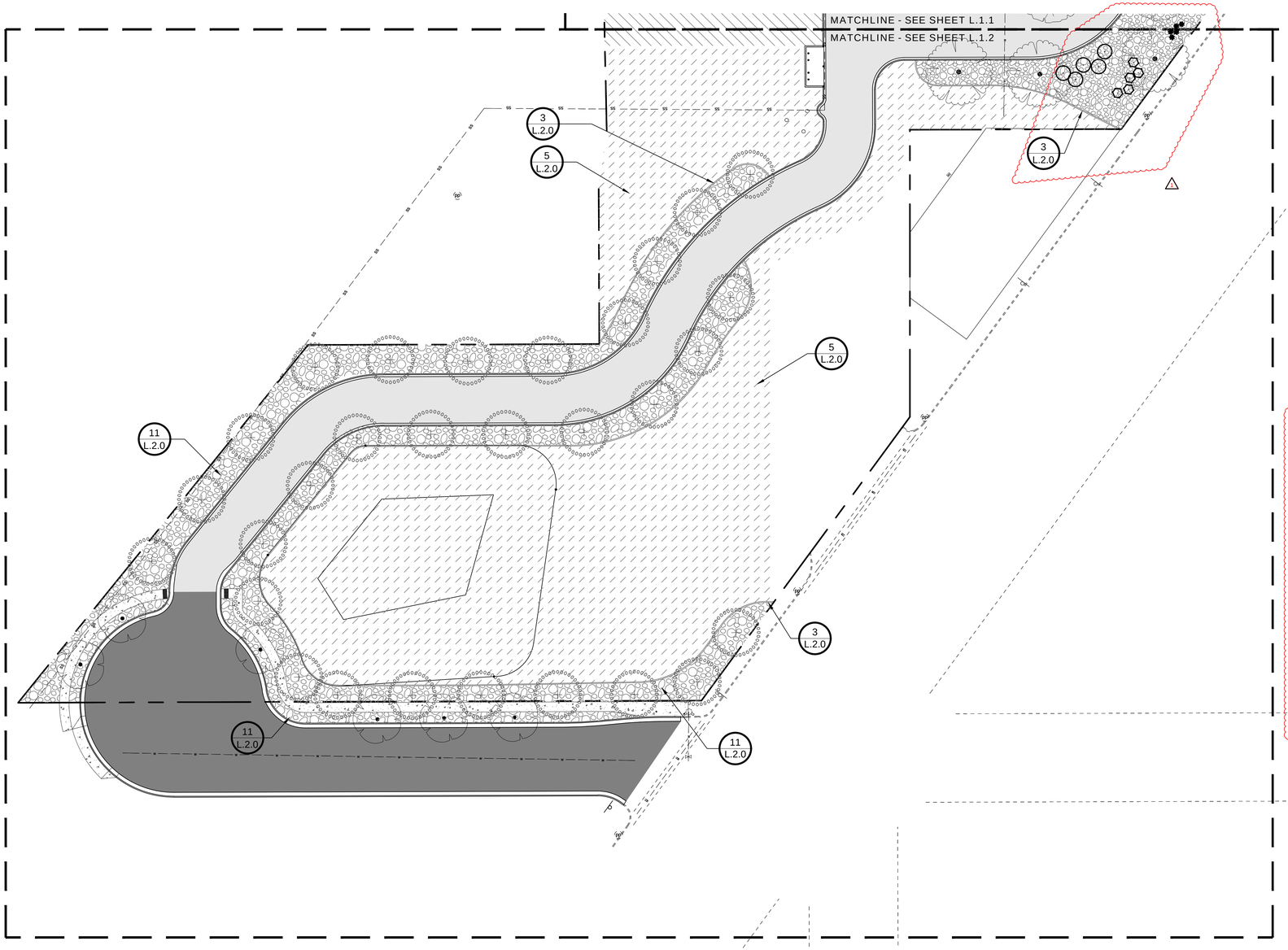
Issue Date: 12/23/2021

Design by: JTS
Drawn by: JTS
Checked by: LTS

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LANDSCAPE PLAN NORTH

L.1.1



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PLANT SCHEDULE L.1.2

TREES	BOTANICAL / COMMON NAME	CONT	CAL	QTY
	GYMNOCLADUS DIOICA `ESPRESSO` KENTUCKY COFFEETREE	2" CAL.	B&B	3
	KOELREUTERIA PANICULATA `JFS-SUNLEAF` TM SUMMERBURST GOLDENRAIN TREE	B & B	2"	6
	MALUS X `RADIANT` RADIANT CRAB APPLE	2" CAL.	B&B	29
SHRUBS	**BOTANICAL / COMMON NAME**	**SIZE**		
	PRUNUS X CISTENA PURPLE LEAF SAND CHERRY	2 GAL		5
	RHUS AROMATICA `GRO-LOW` GRO-LOW FRAGRANT SUMAC	2 GAL		5
	YUCCA FILAMENTOSA `GOLDEN SWORD` ADAM`S NEEDLE	1 GAL		3

REFERENCE NOTES SCHEDULE L.1.2

SYMBOL	DESCRIPTION	QTY
1	4" DEPTH OF 1-2" DECORATIVE LANDSCAPE ROCK	280.63 CY
5	HYDRO SEED NATIVE VEGETATION AREA	45,326 SF

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SCALE: 1" = 50'

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IDAHO FALLS POLICE HEADQUARTERS

775 NORTHGATE MILE,
IDAHO FALLS, ID 83401

Project No.
ID-2562-2007

Revisions:
2-28-22 - ADDENDUM #1

BID SET

Issue Date: 12/23/2021

Design by: JTS
Drawn by: JTS
Checked by: LTS

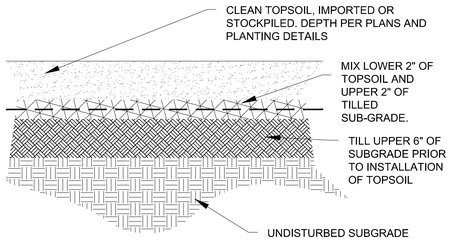
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2194 Snake River Pkwy
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Idaho Falls, ID 83402
(208) 522-1223

HORROCKS ENGINEERS

LANDSCAPE PLAN SOUTH

L.1.2



NOTES:

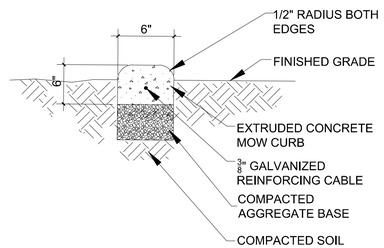
1. CONFIRM SUBBASE FINISH GRADE WITH CONTRACTOR PRIOR TO INSTALLATION OF TOPSOIL.
2. CONTRACTOR RESPONSIBLE TO LEAVE TOPSOIL FINISH GRADE AT THE CORRECT LEVEL TO ACCOMMODATE TURFGRASS OR MULCH AND STILL BE ½ - 1" BELOW ADJACENT HARDSCAPES.
3. CONTRACTOR RESPONSIBLE TO COMPACT AND ALLOW SETTLING OF TOPSOIL AND SUB-GRADE PRIOR TO PLANTING, SEEDING, OR LAYING OF TURF SOD.

1 TOPSOIL

NOT TO SCALE P-CO-35

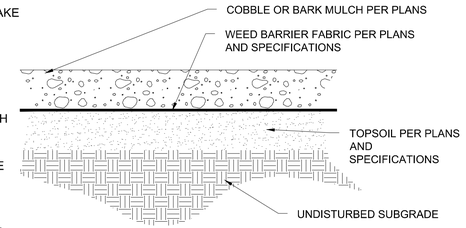
NOTES:

1. WHEN INSTALLING CONCRETE MOWCURB FOR CURVED PLANTER BEDS MAKE SURE THAT CURVES ARE SMOOTH AND EVEN.
2. LANDSCAPE ARCHTIECT TO APPROVE PRIOR TO BACKFILL.



3 CONCRETE MOWCURB

NOT TO SCALE P-CO-31

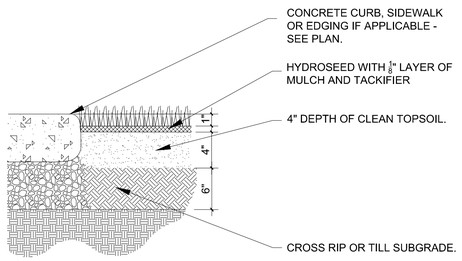


NOTES:

1. OVERLAP ALL WEED BARRIER SEAMS A MINIMUM OF 6".
2. INSTALL LANDSCAPE STAPLES EVERY 36" ON CENTER ALONG SEAMS.
3. CUT FABRIC AROUND ACCENT BOULDERS AS CLOSE TO THE EDGE OF THE BOULDER AS POSSIBLE.
4. CUT FABRIC IN AN "X" TO ALLOW INSTALLATION OF PLANT. FOLD BACK FLAPS UNDERNEATH THE FABRIC AND STAKE INTO PLACE. LEAVE ROOT BALL AREA UNCOVERED FOR AIR CIRCULATION TO ROOT MASS.

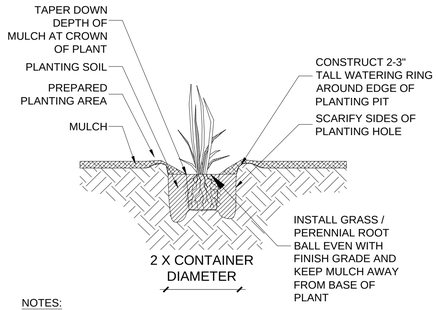
4 WEED BARRIER

NOT TO SCALE P-CO-36



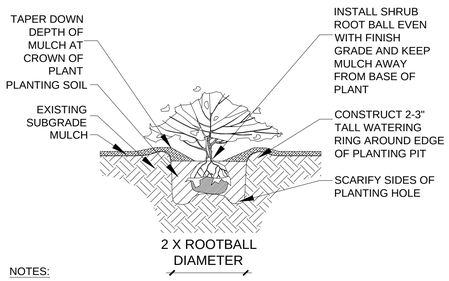
NOTES:

1. ENSURE FINISH GRADE IS 1" BELOW TOP OF CURB, WALK, OR EDGING.
2. SEED MIX SHALL BE PER PLANS.



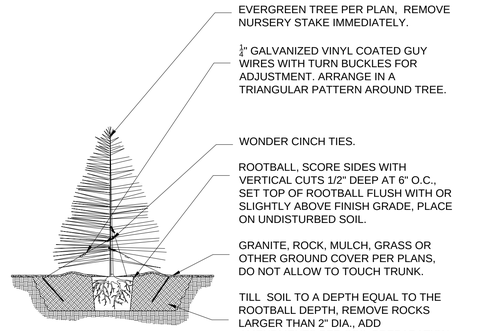
NOTES:

1. EXCAVATE ORNAMENTAL GRASS/PERENNIAL PITS AS ROUND HOLES.



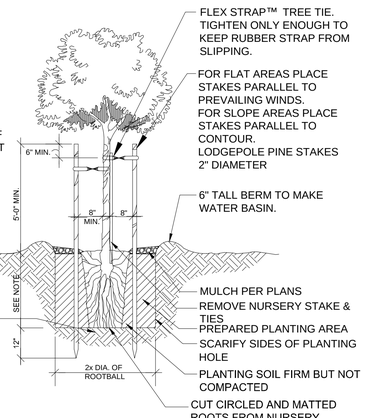
NOTES:

1. EXCAVATE SHRUB PITS AS ROUND PLANTING HOLES.
2. LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE SHALL APPROVE PLANT MATERIAL HEALTH AND CONDITION PRIOR TO PLANTING.



NOTES:

1. PLANT PIT DEPTH TO BE 1" LESS THAN ROOTBALL DEPTH. CROWN BOTTOM OF PIT SO THAT TREE WILL SIT AT 3" ABOVE GRADE.

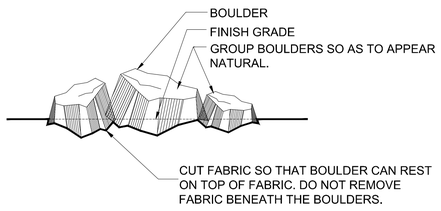


5 HYDROSEED

NOT TO SCALE P-CO-30

NOTES:

1. PLACE ALL BOULDERS SUCH THAT 1/4 OF THE TOTAL MASS OF EACH BOULDER IS BELOW FINISH GRADE.
2. BOULDERS SHALL BE A MINIMUM OF 3' IN DIAMETER WITH A MAX DIAMETER OF 5'.
3. COLOR SHALL BE A MIXTURE OF BROWNS, BLUES, GRAYS AND TANS AND SHALL COMPLIMENT THE DECORATIVE LANDSCAPE ROCK IN PLANTER AREAS.

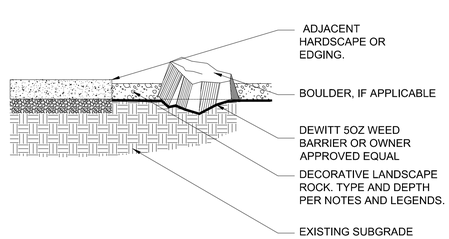


6 ORNAMENTAL GRASS

NOT TO SCALE P-CO-25

NOTES:

1. KEEP TOP OF DECORATIVE ROCK 1/2" BELOW ADJACENT WALKS AND CURBS. DO NOT ALLOW MULCH TO TOUCH THE TRUNK OF ANY PLANT. INSTALL MULCH AFTER INSTALLATION OF WEED BARRIER FABRIC AND PLANT MATERIAL.
2. CONTRACTOR TO ENSURE THAT TOP OF WEED BARRIER FABRIC IS FREE OF SOILS AND DEBRIS PRIOR TO PLACING MULCH.
3. ROCK/STONE MULCH COLOR AND SIZE PER LEGEND AND SPECIFICATIONS.

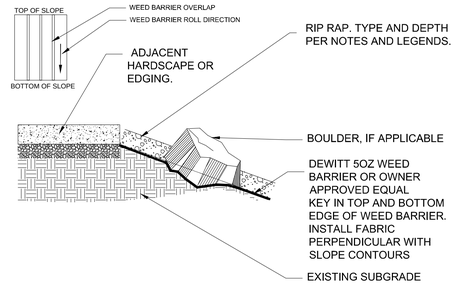


7 SHRUB AND PERENNIAL

NOT TO SCALE P-CO-26

NOTES:

1. KEEP TOP OF RIP RAP 1/2" BELOW ADJACENT WALKS AND CURBS.
2. CONTRACTOR TO ENSURE THAT TOP OF WEED BARRIER FABRIC IS FREE OF SOILS AND DEBRIS PRIOR TO PLACING MULCH.
3. ROCK/STONE COLOR AND SIZE PER LEGEND AND SPECIFICATIONS.
4. OVERLAP ALL EDGES BY 6" MIN. STAKE ON 36" CENTERS ALONG ALL EDGES.



8 CONIFER TREE

NOT TO SCALE P-CO-21

9 DECIDUOUS TREE

NOT TO SCALE P-CO-27

10 ACCENT BOULDERS

NOT TO SCALE P-CO-24

11 DECORATIVE LANDSCAPE ROCK

NOT TO SCALE P-CO-22

12 RIP RAP SLOPE PROTECTION

NOT TO SCALE P-CO-115

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HORROCKS ENGINEERS

LANDSCAPE DETAILS

L.2.0

MAIN PD HEADQUARTERS

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T-505	TECHNOLOGY DETAILS
T-506	TECHNOLOGY DETAILS
T-507	TECHNOLOGY DETAILS
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2022.02.28
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IDAHO FALLS, ID

Project No.
1047-20

Revisions:

1	2022.02.28	ADDENDUM #1

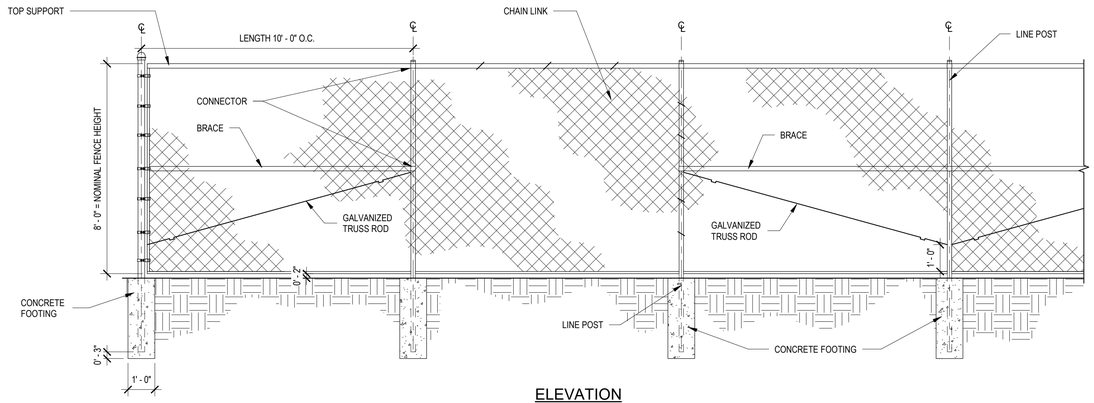
BID ISSUE

Issue Date:
2022.02.10

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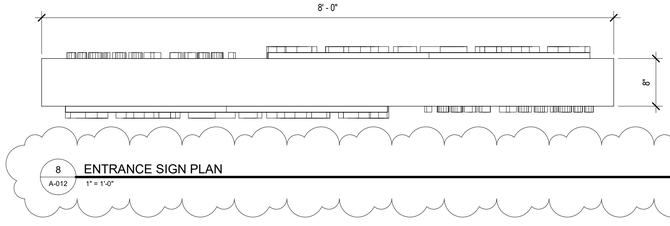
INDEX OF DRAWINGS

G-000

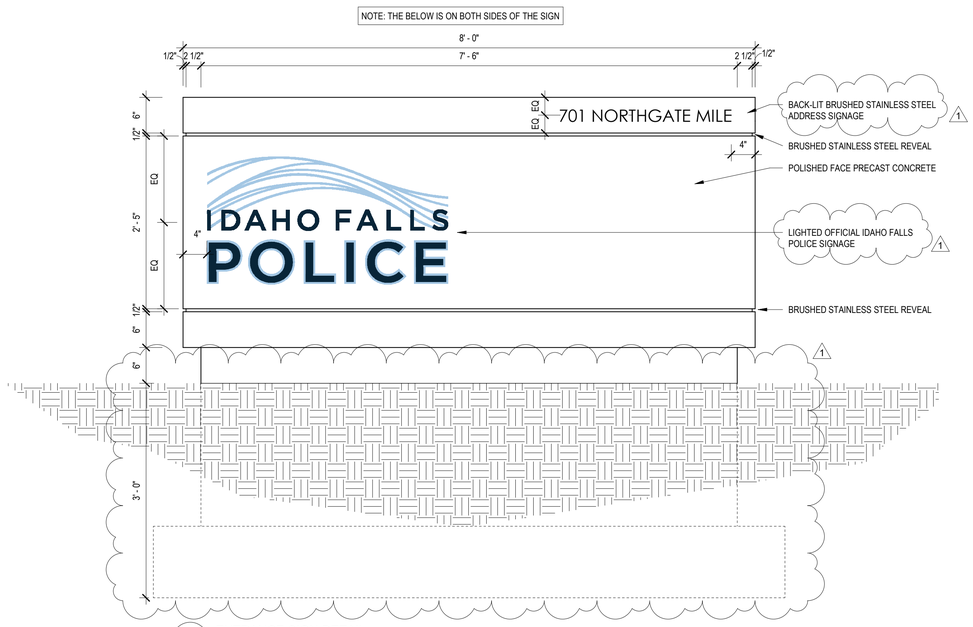


ELEVATION

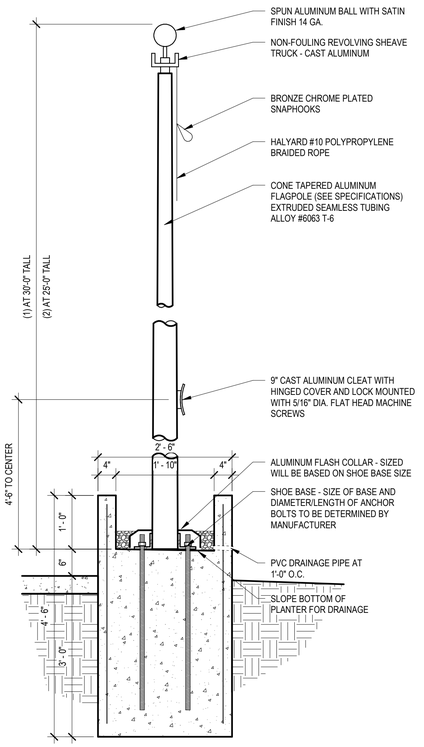
6 A-012 FENCE CHAIN LINK DETAIL AT PERIMETER
3/8" = 1'-0"



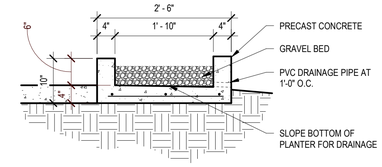
8 A-012 ENTRANCE SIGN PLAN
1" = 1'-0"



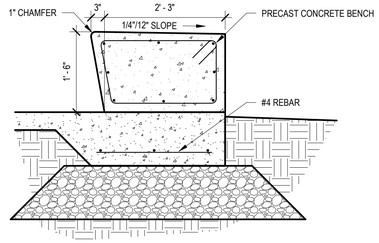
7 A-012 ENTRANCE SIGN DETAIL
1" = 1'-0"



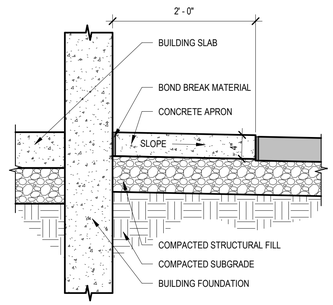
5 A-012 SITE SECTION
3/4" = 1'-0"



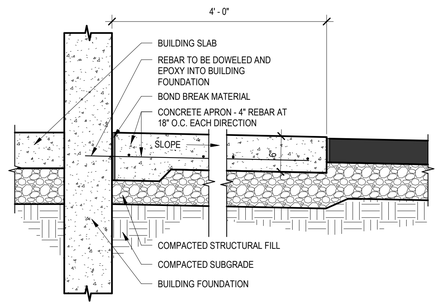
4 A-012 SITE SECTION
3/4" = 1'-0"



3 A-012 SITE SECTION
3/4" = 1'-0"



2 A-012 SITE SECTION
1" = 1'-0"



1 A-012 SITE SECTION
1" = 1'-0"

Architects Design Group
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LICENSED ARCHITECT AR-986743
2022.02.28
IAN A. REEVES, STATE OF IDAHO

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:
1 2022.02.28 ADDENDUM #1

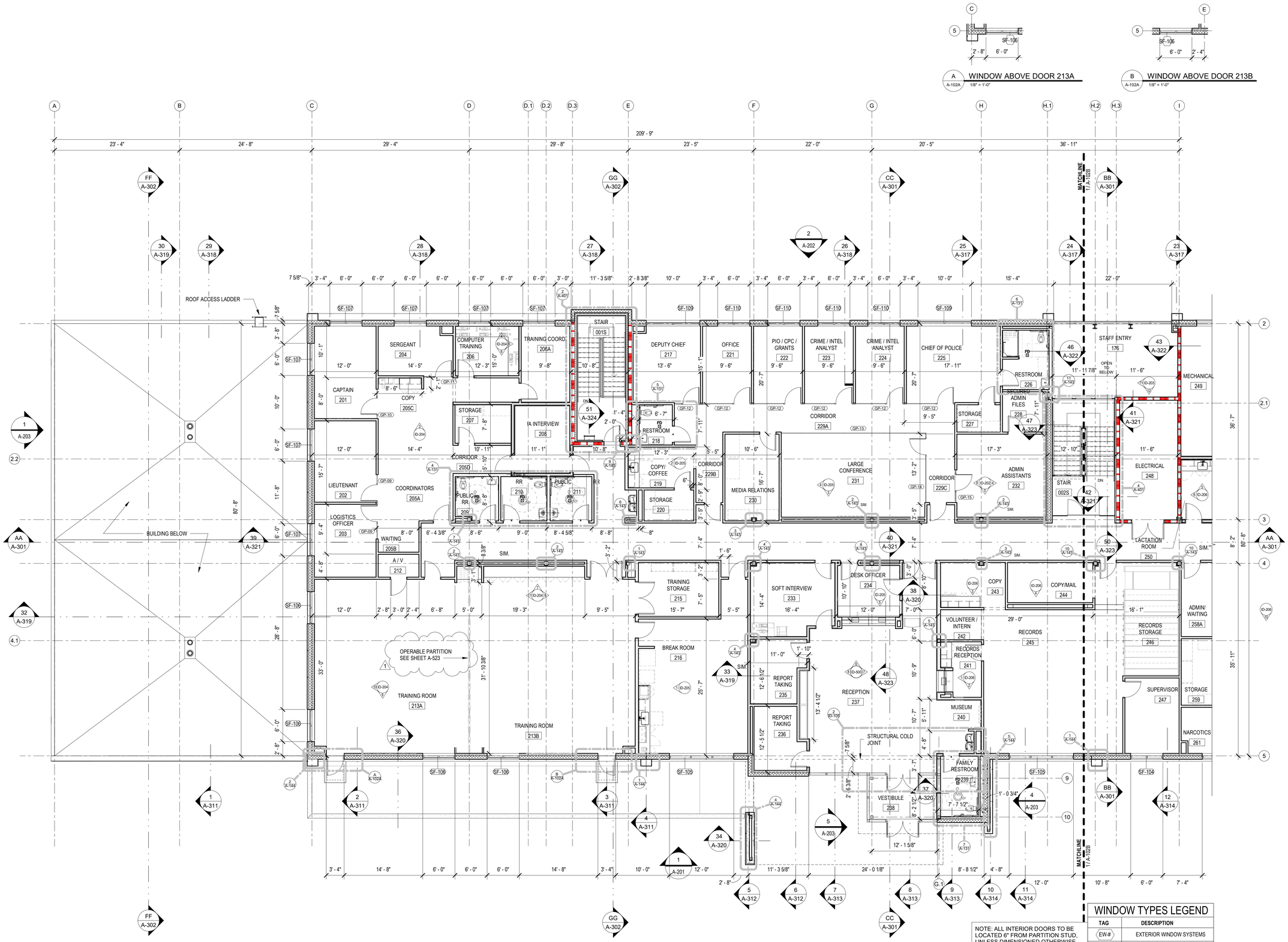
BID ISSUE

Issue Date:
2022.02.10

Drawn by: GT
Checked by: Checker

SITE DETAILS

A-012



1 A-102A UPPER FLOOR PLAN - AREA A
1/8" = 1'-0"

WINDOW TYPES LEGEND	
TAG	DESCRIPTION
EW-#	EXTERIOR WINDOW SYSTEMS
IW-#	INTERIOR WINDOW SYSTEMS
SF-#	STOREFRONT SYSTEMS

NOTE: ALL INTERIOR DOORS TO BE LOCATED 6" FROM PARTITION STUD, UNLESS DIMENSIONED OTHERWISE. SEE INTERIOR STOREFRONT ELEVATIONS FOR STOREFRONT DOORS DIMENSIONS.

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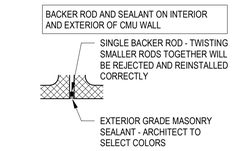
Project North:

UPPER FLOOR PLAN - AREA A

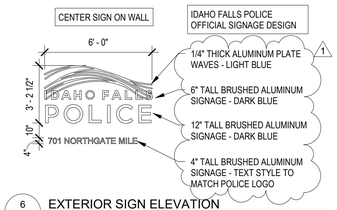
A-102A

ELEVATIONS GENERAL NOTES

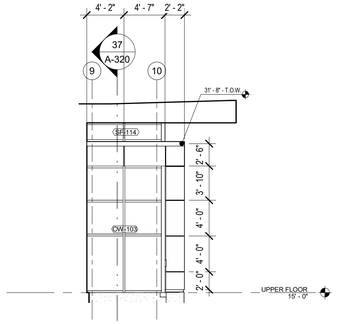
1. THE ACM PANEL LAYOUT CAN ADJUST BASED OFF MANUFACTURERS PANEL SIZE REQUIREMENT/RECOMMENDATIONS.
2. AN EXTERIOR SEALANT SHALL BE APPLIED TO ALL EXPOSED CMU.



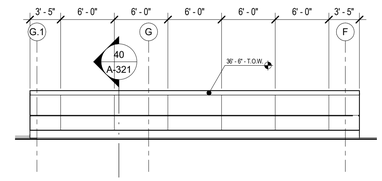
7 A-203 CMU CONTROL JOINT
1 1/2" = 1'-0"



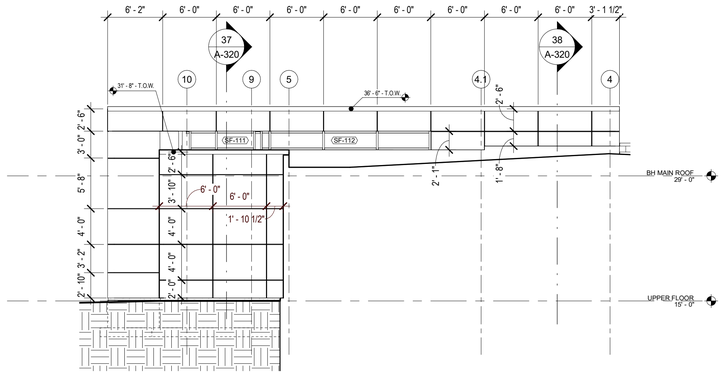
6 A-203 EXTERIOR SIGN ELEVATION
1/4" = 1'-0"



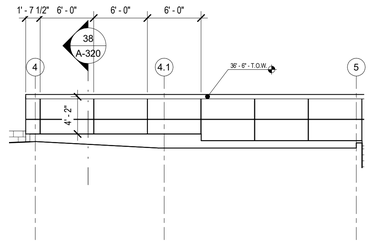
5 A-203 BLDG ELEV - CANOPY S
1/8" = 1'-0"



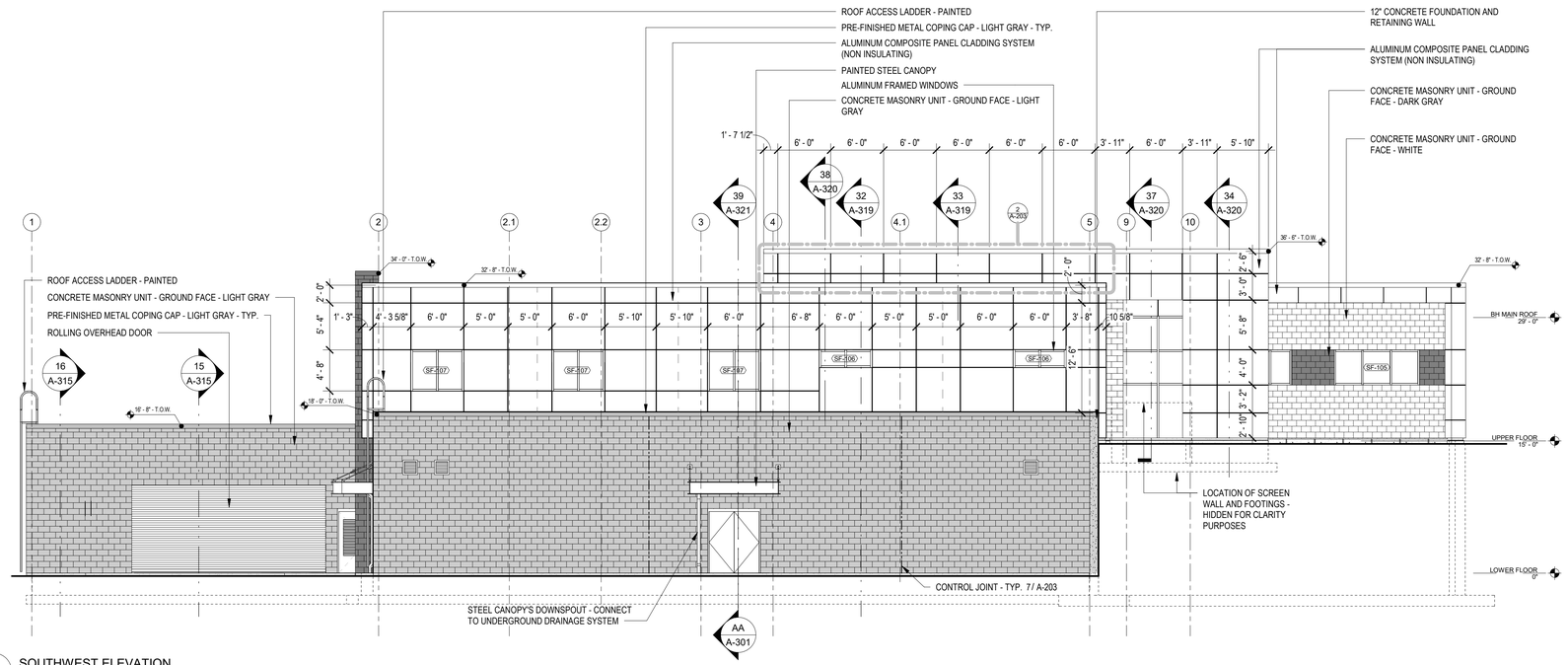
3 A-203 ELEVATION - CANOPY
1/8" = 1'-0"



4 A-203 ELEVATION - CANOPY
1/8" = 1'-0"



2 A-203 ELEVATION - CANOPY
1/8" = 1'-0"



1 A-203 SOUTHWEST ELEVATION
1/8" = 1'-0"

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Revisions:
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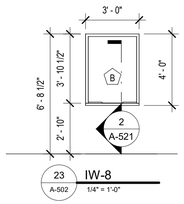
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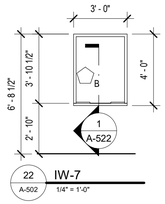
Project North:

ELEVATIONS

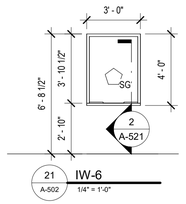
A-203



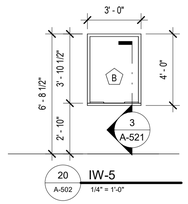
23 A-502 IW-8 1/4" = 1'-0"



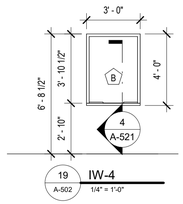
22 A-502 IW-7 1/4" = 1'-0"



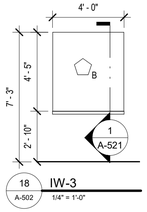
21 A-502 IW-6 1/4" = 1'-0"



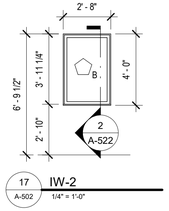
20 A-502 IW-5 1/4" = 1'-0"



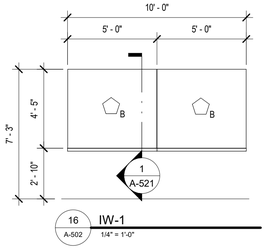
19 A-502 IW-4 1/4" = 1'-0"



18 A-502 IW-3 1/4" = 1'-0"



17 A-502 IW-2 1/4" = 1'-0"

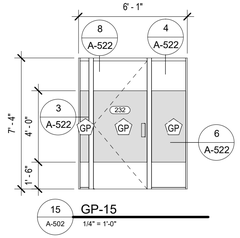


16 A-502 IW-1 1/4" = 1'-0"

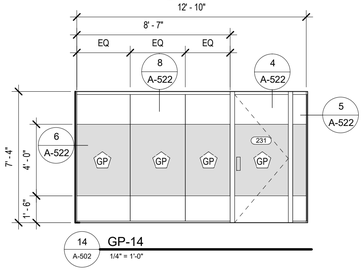
GLAZING SCHEDULE

A	1" INSULATED GLAZING
B	1/4" GLAZING
S	SPANDREL PANEL
T	TEMPERED GLAZING
B	BALLISTIC RATED GLAZING
GP	GLASS PARTITION SYSTEM
SG	SECURITY GLAZING

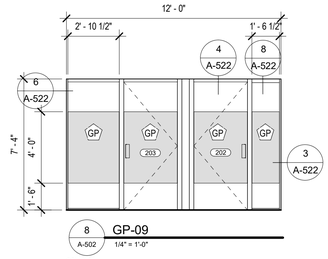
60% OPAQUE INTEGRAL PRIVACY FILM



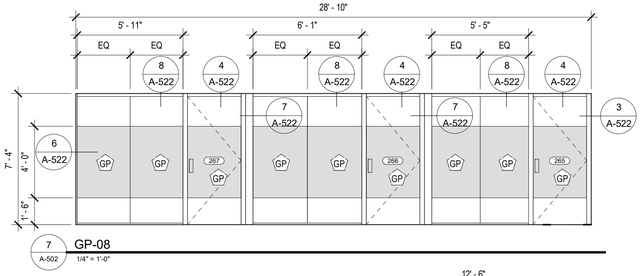
15 A-502 GP-15 1/4" = 1'-0"



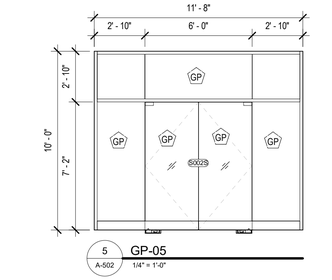
14 A-502 GP-14 1/4" = 1'-0"



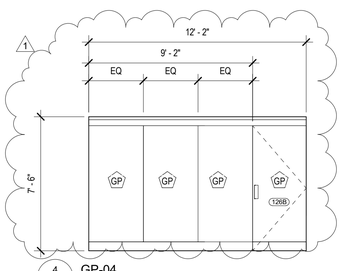
8 A-502 GP-09 1/4" = 1'-0"



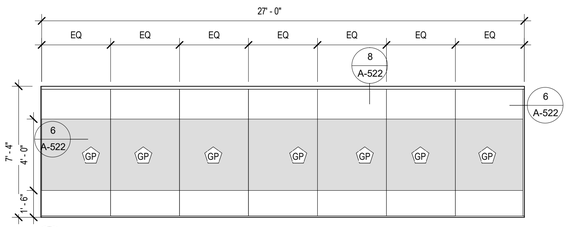
7 A-502 GP-08 1/4" = 1'-0"



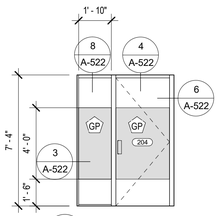
5 A-502 GP-05 1/4" = 1'-0"



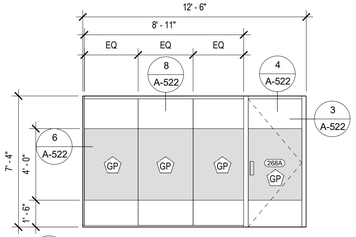
4 A-502 GP-04 1/4" = 1'-0"



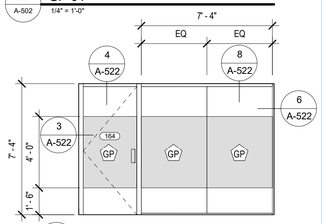
13 A-502 GP-13 1/4" = 1'-0"



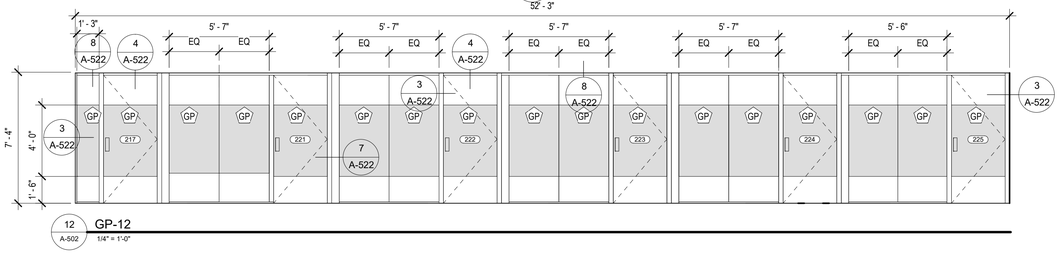
11 A-502 GP-11 1/4" = 1'-0"



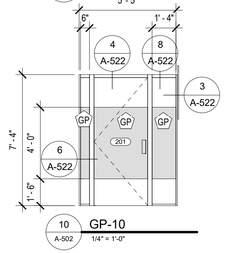
6 A-502 GP-07 1/4" = 1'-0"



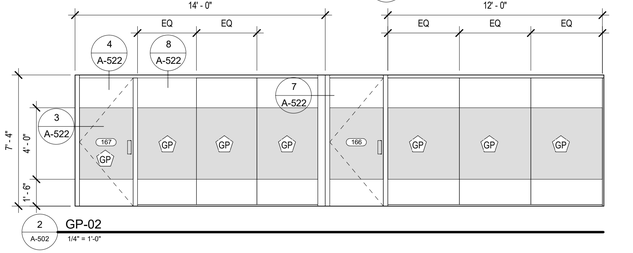
3 A-502 GP-03 1/4" = 1'-0"



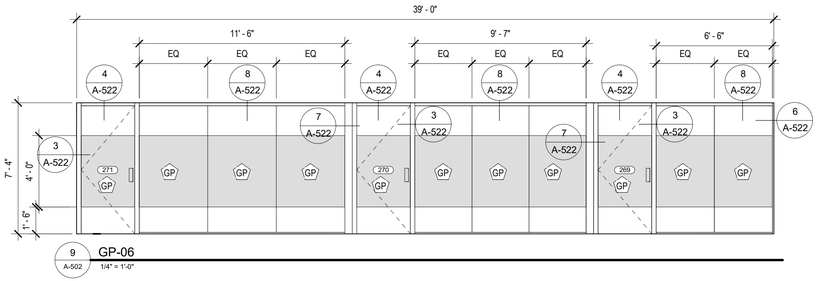
12 A-502 GP-12 1/4" = 1'-0"



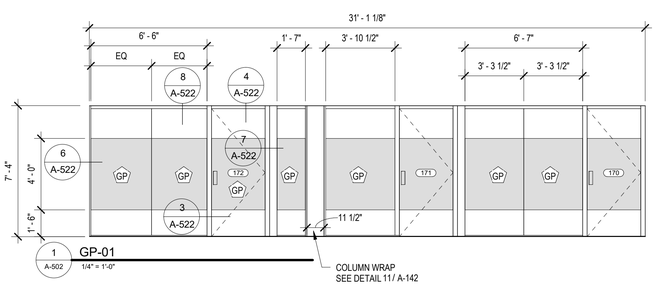
10 A-502 GP-10 1/4" = 1'-0"



2 A-502 GP-02 1/4" = 1'-0"



9 A-502 GP-06 1/4" = 1'-0"



1 A-502 GP-01 1/4" = 1'-0"

COLUMN WRAP
SEE DETAIL 11/ A-142

INTERIOR GLASS PARTITION NOTES:

GP-04:
BASIS OF DESIGN:
ASSA ABLOY
P-STYLE GLASS OPENING SYSTEM

GP-05:
BASIS OF DESIGN:
ASSA ABLOY
BP -STYLE GLASS OPENING SYSTEM

ALL OTHERS:
BASIS OF DESIGN:
STEELCASE LITESCALE
GLASS PARTITION SYSTEM

Architects Design Group

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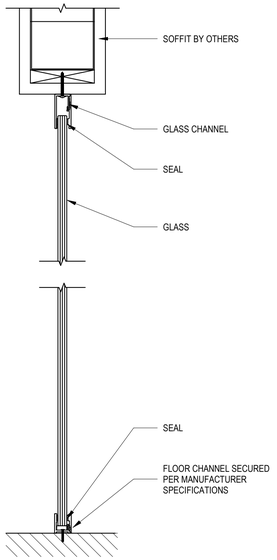
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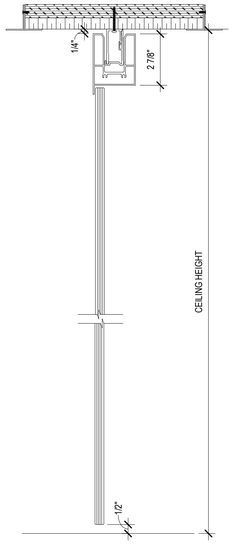
Drawn by: GT/MM
Checked by: Checker

INTERIOR WINDOW SCHEDULE

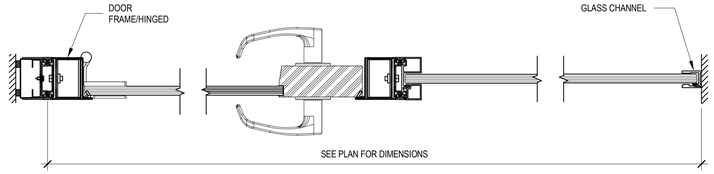
A-502



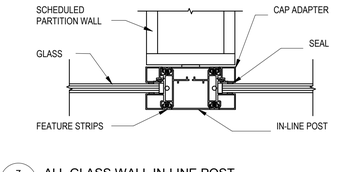
8 A-522 — ALL GLASS WALL SECTION THRU
3" = 1'-0"



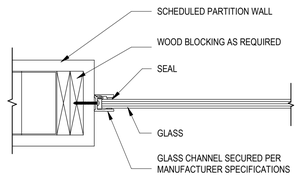
4 A-522 — FULL HEIGHT FRAMELESS GLASS BUTT - HINGED DOOR
3" = 1'-0"



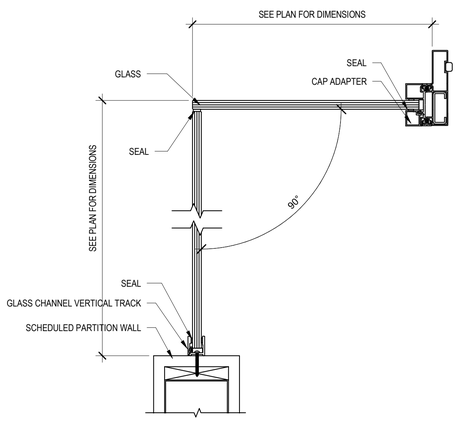
3 A-522 — ALL GLASS SELECTIONS FULL HEIGHT PIVOT GLASS DOOR POLISHED EDGE - VERTICAL SECTION
3" = 1'-0"



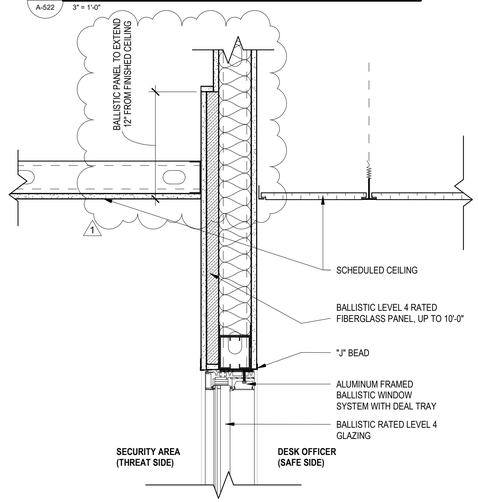
7 A-522 — ALL GLASS WALL IN-LINE POST
3" = 1'-0"



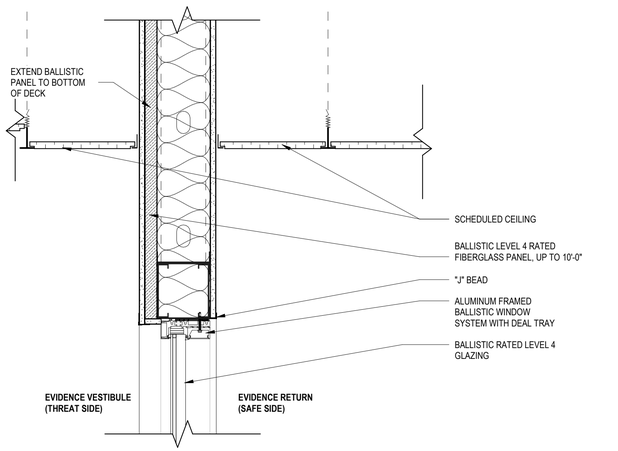
6 A-522 — ALL GLASS WALL AT VERTICAL TRACK
3" = 1'-0"



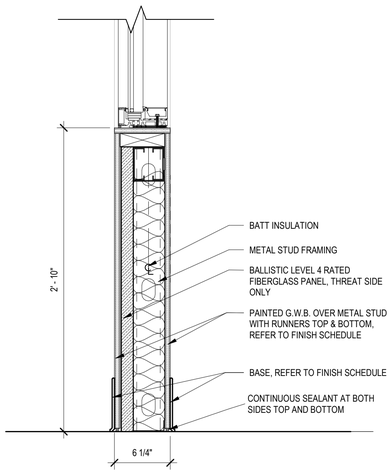
5 A-522 — ALL GLASS WALL AT L UNIT
3" = 1'-0"

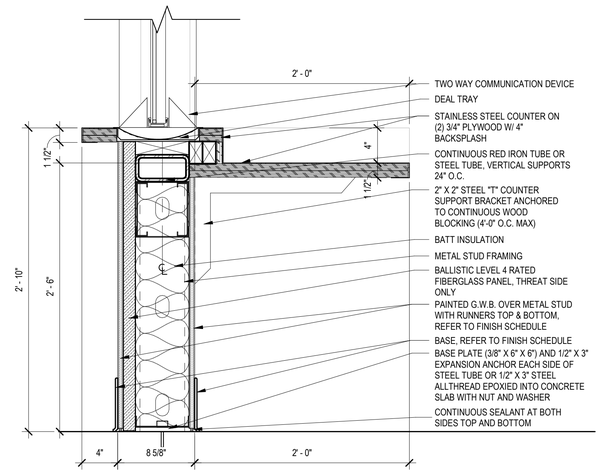


2 A-522 — DESK OFFICER WINDOW DETAIL - IW-02 - BULLET RESISTANT
1 1/2" = 1'-0"



1 A-522 — EVIDENCE VESTIBULE WINDOW DETAIL - IW-07 - BULLET RESISTANT
1 1/2" = 1'-0"





Architects Design Group

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Signature and Seal:

LICENSED ARCHITECT AR-986743
2022.02.28
IAN A. REEVES, STATE OF IDAHO

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:
1 2022.02.28 ADDENDUM #1

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Issue Date:
2022.02.10

Drawn by: GT/MM
Checked by: Checker

SPECIALTY WINDOW DETAILS

A-522

WALL FINISH TREATMENT LEGEND

WG	WALL PROTECTION RAIL OR STRIP
CG-1	STAINLESS-STEEL CORNER GUARD
CG-2	VINYL CORNER GUARD
P--	WALL FINISH TAG
	'SUPER-GRAPHIC' LOCATIONS, REFER TO ELEVATIONS, (N.I.C.)
	SEALED CONCRETE - CONTROL JOINTS - REFER TO STRUCTURAL DRAWINGS

WALL FINISH & WINDOW TREATMENT GENERAL NOTES

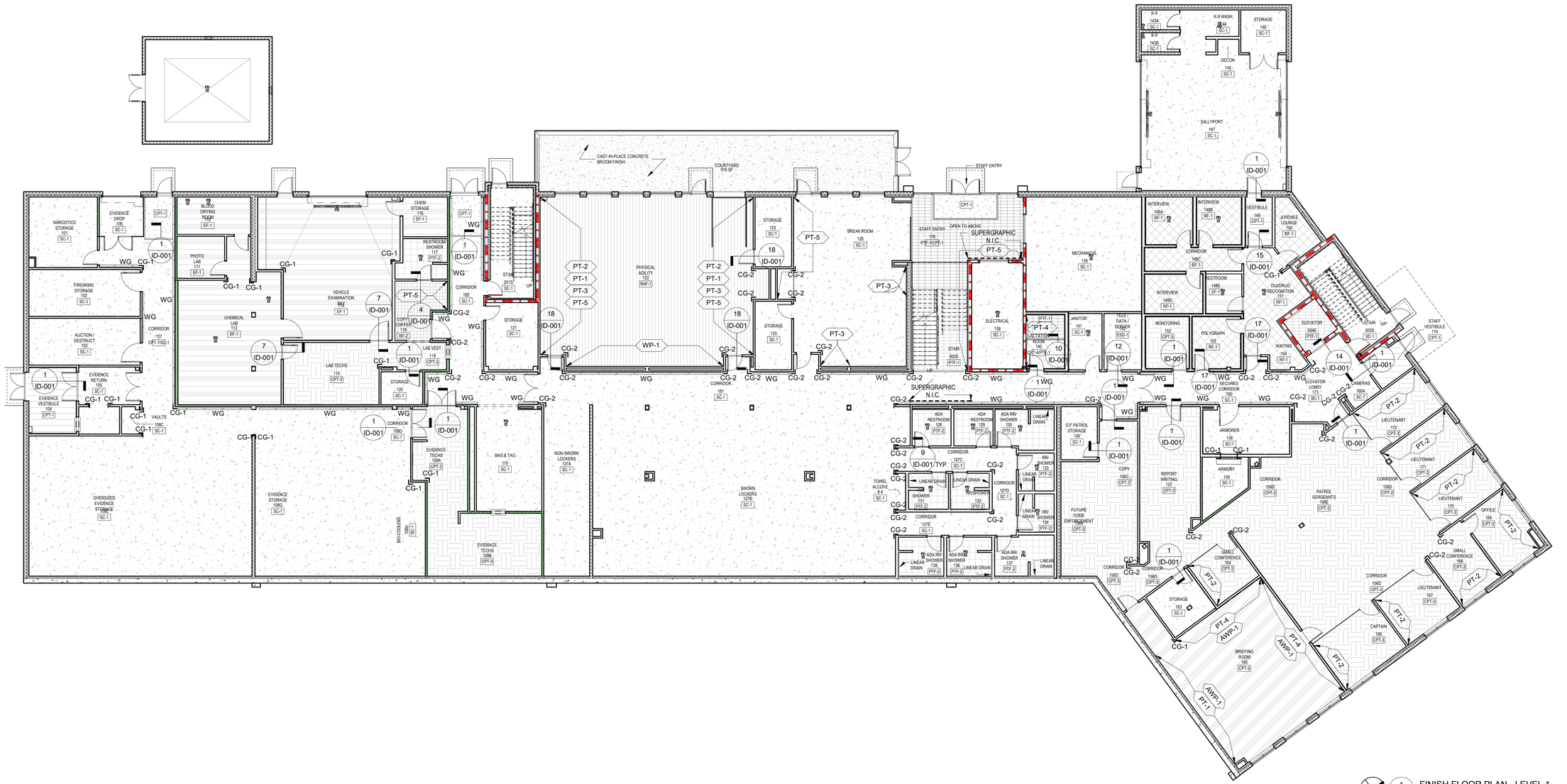
1. ALL EXPOSED STRUCTURE AND COLUMNS TO BE PAINTED PER FINISHED SCHEDULE, REFER TO INTERIOR FINISH LEGEND, SHEET ID-401 AND ID-402, FOR COLOR.
2. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS IN MAIN CORRIDORS
3. REFER TO INTERIOR FINISH LEGEND FOR COLOR / FINISHES.

FLOOR FINISH LEGEND:

- CPT-1: WALK-OFF CARPET
- CPT-2: CARPET TILE
- CPT-3: CARPET TILE
- CPT-4: CARPET TILE
- CPT-5: CARPET TILE
- EF-1: EPOXY
- ESD-1: ELECTROSTATIC DISSIPATIVE VINYL
- PTF-1: PORCELAIN TILE
- PTF-2: PORCELAIN TILE
- PTF-3: PORCELAIN TILE
- RAF-1: RUBBER ATHLETIC FLOORING
- RF-1: RESILIENT VINYL FLOORING
- RF-2: RESILIENT VINYL FLOORING
- SC-1: SEALED CONCRETE

GENERAL NOTES:

1. REFER TO SHEETS ID-101, ID-102, ID-103, ID-104, ID-105, ID-106, AB ID-107, ID-401, ID-402, ID-403, ID-404, AND AB ID-405 FOR FINISH INFORMATION.
2. FD - FLOOR DRAINS, COORDINATE LOCATION WITH FLOOR FINISHES
3. PROVIDE LINEAR DRAINS IN ALL ROLL-IN SHOWERS
4. REFER TO SHEETS, ID-001, ID-101, ID-104 AND FINISH LEGEND FOR FLOOR TRANSITION TYPES.
5. ALL HATCHES ON FINISH FLOOR LEGEND ARE REPRESENTATIVE ONLY AND DO NOT REFLECT INSTALLATION PATTERNS. FOR INSTALLATION PATTERNS REFER TO THE INTERIOR FINISH LEGENDS ON SHEETS, ID-400, ID-401 AND ID-402.



1 ID-101 FINISH FLOOR PLAN - LEVEL 1
3/32" = 1'-0"

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Project No.
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Checked by: Checker

Project North:

FINISH FLOOR PLAN - LEVEL 1

ID-101

WALL FINISH TREATMENT LEGEND

WG	WALL PROTECTION RAIL OR STRIP
CG-1	STAINLESS-STEEL CORNER GUARD
CG-2	VINYL CORNER GUARD
P--	WALL FINISH TAG
	'SUPER-GRAPHIC' LOCATIONS, REFER TO ELEVATIONS, (N.I.C.)
	SEALED CONCRETE - CONTROL JOINTS - REFER TO STRUCTURAL DRAWINGS

WALL FINISH & WINDOW TREATMENT GENERAL NOTES

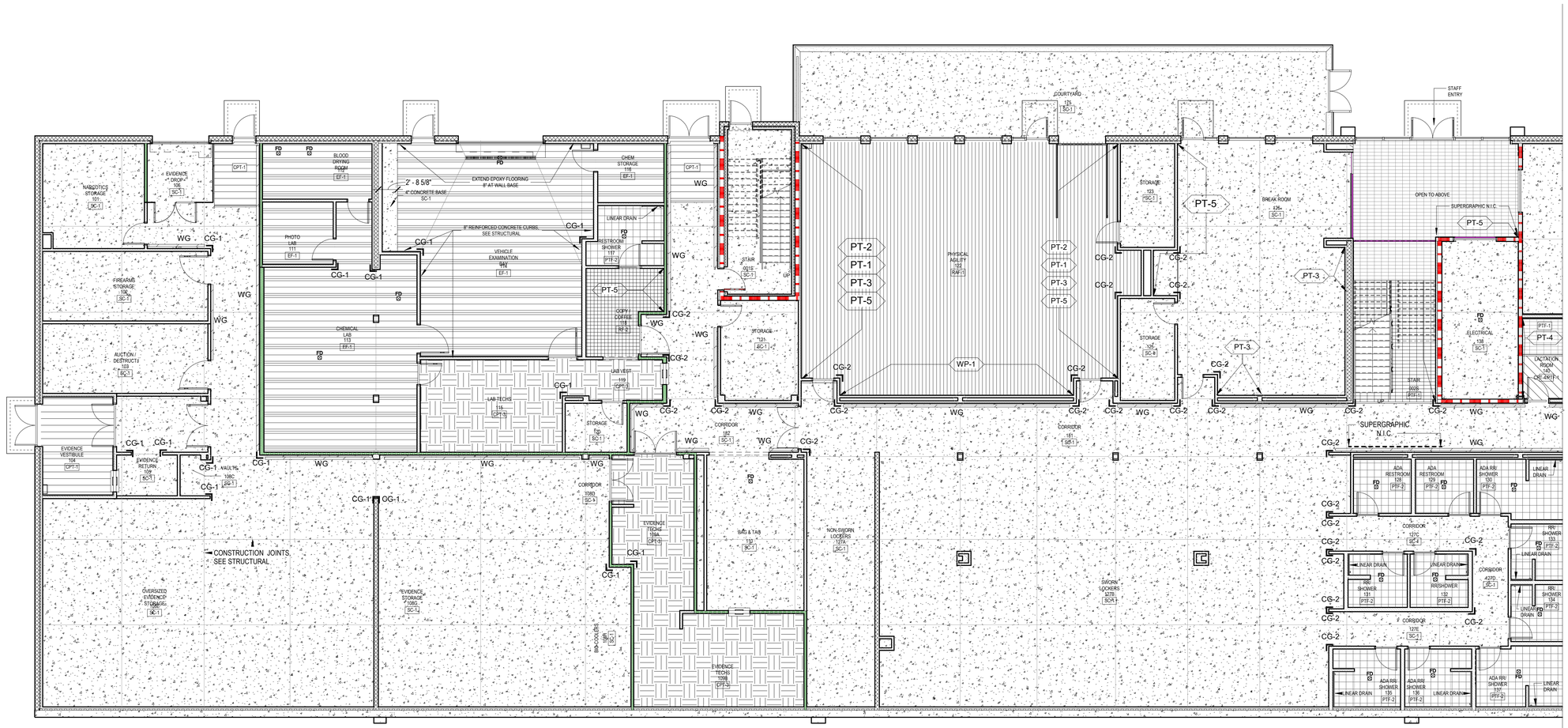
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FLOOR FINISH LEGEND:

- CPT-1: WALK-OFF CARPET
- CPT-2: CARPET TILE
- CPT-3: CARPET TILE
- CPT-4: CARPET TILE
- CPT-5: CARPET TILE
- EF-1: EPOXY
- ESD-1: ELECTROSTATIC DISSIPATIVE VINYL
- PTF-1: PORCELAIN TILE
- PTF-2: PORCELAIN TILE
- PTF-3: PORCELAIN TILE
- RAF-1: RUBBER ATHLETIC FLOORING
- RF-1: RESILIENT VINYL FLOORING
- RF-2: RESILIENT VINYL FLOORING
- SC-1: SEALED CONCRETE

GENERAL NOTES:

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2. FD - FLOOR DRAINS, COORDINATE LOCATION WITH FLOOR FINISHES
3. PROVIDE LINEAR DRAINS IN ALL ROLL-IN SHOWERS
4. REFER TO SHEETS, ID-001, ID-101, ID-104 AND FINISH LEGEND FOR FLOOR TRANSITION TYPES.
5. ALL HATCHES ON FINISH FLOOR LEGEND ARE REPRESENTATIVE ONLY AND DO NOT REFLECT INSTALLATION PATTERNS. FOR INSTALLATION PATTERNS REFER TO THE INTERIOR FINISH LEGENDS ON SHEETS, ID-400, ID-401 AND ID-402.



1 ID-102 FINISH FLOOR PLAN - LEVEL 1 - AREA A
1/8" = 1'-0"

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Project North:

FINISH FLOOR PLAN - LEVEL 1 - AREA A

ID-102



1 ID-103 FINISH FLOOR PLAN - LEVEL 1 - AREA B
1/8" = 1'-0"

FLOOR FINISH LEGEND:

- CPT-1: WALK-OFF CARPET
- CPT-2: CARPET TILE
- CPT-3: CARPET TILE
- CPT-4: CARPET TILE
- CPT-5: CARPET TILE
- EF-1: EPOXY
- ESD-1: ELECTROSTATIC DISSIPATIVE VINYL
- PTF-1: PORCELAIN TILE
- PTF-2: PORCELAIN TILE
- PTF-3: PORCELAIN TILE
- RAF-1: RUBBER ATHLETIC FLOORING
- RF-1: RESILIENT VINYL FLOORING
- RF-2: RESILIENT VINYL FLOORING
- SC-1: SEALED CONCRETE

GENERAL NOTES:

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WALL FINISH TREATMENT LEGEND

- WG — WALL PROTECTION RAIL OR STRIP
- CG-1 — STAINLESS-STEEL CORNER GUARD
- CG-2 — VINYL CORNER GUARD
- P-- — WALL FINISH TAG
- 'SUPER-GRAPHIC' LOCATIONS, REFER TO ELEVATIONS, (N.I.C.)
- SEALED CONCRETE - CONTROL JOINTS - REFER TO STRUCTURAL DRAWINGS

WALL FINISH & WINDOW TREATMENT GENERAL NOTES

1. ALL EXPOSED STRUCTURE AND COLUMNS TO BE PAINTED PER FINISHED SCHEDULE, REFER TO INTERIOR FINISH LEGEND, SHEET ID-401 AND ID-402, FOR COLOR
2. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS IN MAIN CORRIDORS
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Architects Design Group
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2022.02.28
IAN A. REEVES, STATE OF IDAHO

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IDAHO FALLS, ID

Project No.
1047-20

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1	2022.02.28	ADDENDUM #1

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Issue Date:
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Checked by: Checker

Project North:

FINISH FLOOR PLAN - LEVEL 1 - AREA B

ID-103

WALL FINISH TREATMENT LEGEND

- WG — WALL PROTECTION RAIL OR STRIP
- CG-1 — STAINLESS-STEEL CORNER GUARD
- CG-2 — VINYL CORNER GUARD
- P-- — WALL FINISH TAG
- 'SUPER-GRAPHIC' LOCATIONS, REFER TO ELEVATIONS, (N.I.C.)
- SEALED CONCRETE - CONTROL JOINTS - REFER TO STRUCTURAL DRAWINGS

WALL FINISH & WINDOW TREATMENT GENERAL NOTES

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3. REFER TO INTERIOR FINISH LEGEND FOR COLOR / FINISHES.

FLOOR FINISH LEGEND:

- CPT-1: WALK-OFF CARPET
- CPT-2: CARPET TILE
- CPT-3: CARPET TILE
- CPT-4: CARPET TILE
- CPT-5: CARPET TILE
- EF-1: EPOXY
- ESD-1: ELECTROSTATIC DISSIPATIVE VINYL
- PTF-1: PORCELAIN TILE
- PTF-2: PORCELAIN TILE
- PTF-3: PORCELAIN TILE
- RAF-1: RUBBER ATHLETIC FLOORING
- RF-1: RESILIENT VINYL FLOORING
- RF-2: RESILIENT VINYL FLOORING
- SC-1: SEALED CONCRETE

GENERAL NOTES:

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3. PROVIDE LINEAR DRAINS IN ALL ROLL-IN SHOWERS
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1 ID-104 FINISH FLOOR PLAN - LEVEL 2
3/32" = 1'-0"

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Project North:

FINISH FLOOR PLAN - LEVEL 2

ID-104

WALL FINISH TREATMENT LEGEND

WG	WALL PROTECTION RAIL OR STRIP
CG-1	STAINLESS-STEEL CORNER GUARD
CG-2	VINYL CORNER GUARD
P--	WALL FINISH TAG
	'SUPER-GRAPHIC' LOCATIONS, REFER TO ELEVATIONS, (N.I.C.)
	SEALED CONCRETE - CONTROL JOINTS - REFER TO STRUCTURAL DRAWINGS

WALL FINISH & WINDOW TREATMENT GENERAL NOTES

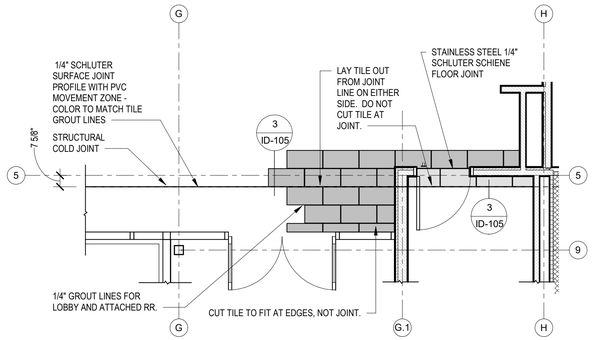
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FLOOR FINISH LEGEND:

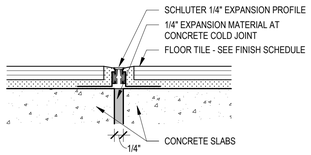
- CPT-1: WALK-OFF CARPET
- CPT-2: CARPET TILE
- CPT-3: CARPET TILE
- CPT-4: CARPET TILE
- CPT-5: CARPET TILE
- EF-1: EPOXY
- ESD-1: ELECTROSTATIC DISSIPATIVE VINYL
- PTF-1: PORCELAIN TILE
- PTF-2: PORCELAIN TILE
- PTF-3: PORCELAIN TILE
- RAF-1: RUBBER ATHLETIC FLOORING
- RF-1: RESILIENT VINYL FLOORING
- RF-2: RESILIENT VINYL FLOORING
- SC-1: SEALED CONCRETE

GENERAL NOTES:

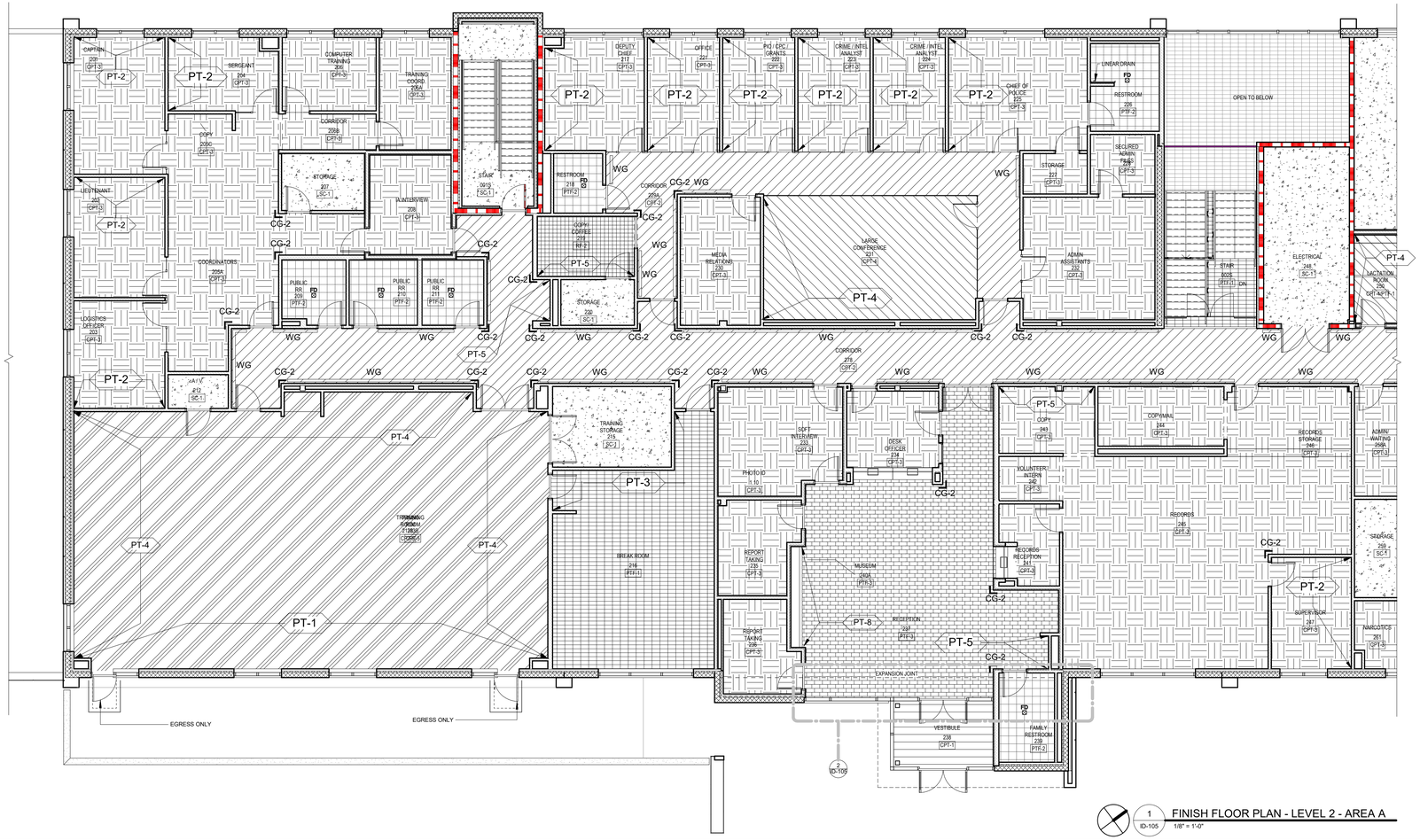
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2 ID-105 LOBBY JOINT AND TILE DIAGRAM
1/4" = 1'-0"



3 ID-105 DETAIL
6" = 1'-0"



1 ID-105 FINISH FLOOR PLAN - LEVEL 2 - AREA A
1/8" = 1'-0"

Architects Design Group
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IDAHO FALLS, ID

Project No.
1047-20

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Checked by: Checker

Project North:

FINISH FLOOR PLAN - LEVEL 2 - AREA A

ID-105

FLOOR FINISH LEGEND:

- CPT-1: WALK-OFF CARPET
- CPT-2: CARPET TILE
- CPT-3: CARPET TILE
- CPT-4: CARPET TILE
- CPT-5: CARPET TILE
- EF-1: EPOXY
- ESD-1: ELECTROSTATIC DISSIPATIVE VINYL
- PTF-1: PORCELAIN TILE
- PTF-2: PORCELAIN TILE
- PTF-3: PORCELAIN TILE
- RAF-1: RUBBER ATHLETIC FLOORING
- RF-1: RESILIENT VINYL FLOORING
- RF-2: RESILIENT VINYL FLOORING
- SC-1: SEALED CONCRETE

GENERAL NOTES:

1. REFER TO SHEETS ID-101, ID-102, ID-103, ID-104, ID-105, ID-106, AB ID-107, ID-401, ID-402, ID-403, ID-404, AND AB ID-405 FOR FINISH INFORMATION.
2. FD - FLOOR DRAINS, COORDINATE LOCATION WITH FLOOR FINISHES
3. PROVIDE LINEAR DRAINS IN ALL ROLL-IN SHOWERS
4. REFER TO SHEETS, ID-001, ID-101, ID-104 AND FINISH LEGEND FOR FLOOR TRANSITION TYPES.
5. ALL HATCHES ON FINISH FLOOR LEGEND ARE REPRESENTATIVE ONLY AND DO NOT REFLECT INSTALLATION PATTERNS. FOR INSTALLATION PATTERNS REFER TO THE INTERIOR FINISH LEGENDS ON SHEETS, ID-400, ID-401 AND ID-402.

WALL FINISH TREATMENT LEGEND

- WG — WALL PROTECTION RAIL OR STRIP
- CG-1 — STAINLESS-STEEL CORNER GUARD
- CG-2 — VINYL CORNER GUARD
- P-- — WALL FINISH TAG
- 'SUPER-GRAPHIC' LOCATIONS, REFER TO ELEVATIONS, (N.I.C.)
- SEALED CONCRETE - CONTROL JOINTS - REFER TO STRUCTURAL DRAWINGS

WALL FINISH & WINDOW TREATMENT GENERAL NOTES

1. ALL EXPOSED STRUCTURE AND COLUMNS TO BE PAINTED PER FINISHED SCHEDULE, REFER TO INTERIOR FINISH LEGEND, SHEET ID-401 AND ID-402, FOR COLOR
2. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS IN MAIN CORRIDORS
3. REFER TO INTERIOR FINISH LEGEND FOR COLOR / FINISHES.



1 ID-106 FINISH FLOOR PLAN - LEVEL 2 - AREA B
1/8" = 1'-0"

Architects Design Group
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LICENSED ARCHITECT AR-986743
2022.02.28
IAN A. REEVES, STATE OF IDAHO

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:

1	2022.02.28	ADDENDUM #1

BID ISSUE

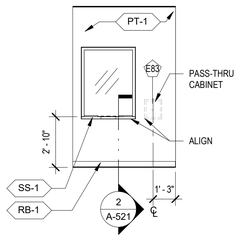
Issue Date:
2022.02.10

Drawn by: JM/ZR
Checked by: Checker

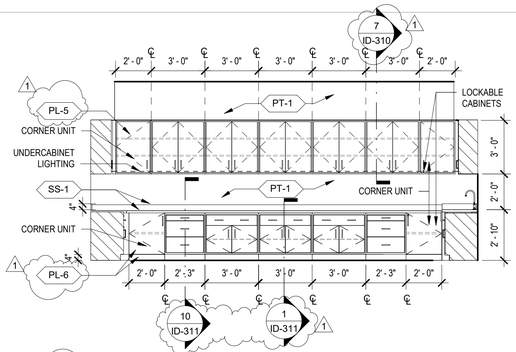
Project North:

FINISH FLOOR PLAN - LEVEL 2 - AREA B

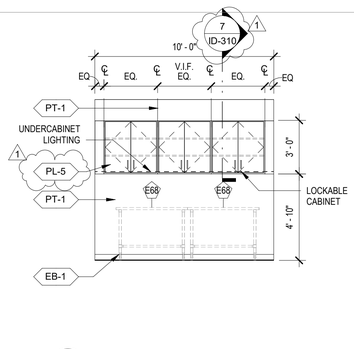
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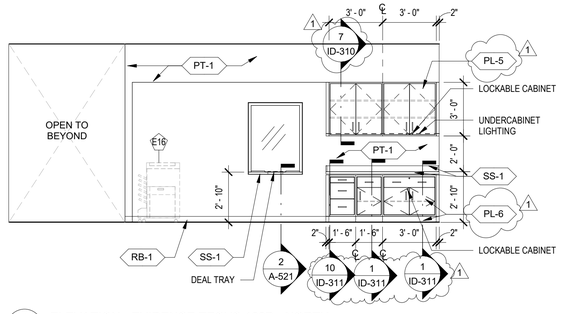
15 ID-201 ELEVATION - LAB VEST 119 - SOUTH 1/4" = 1'-0"



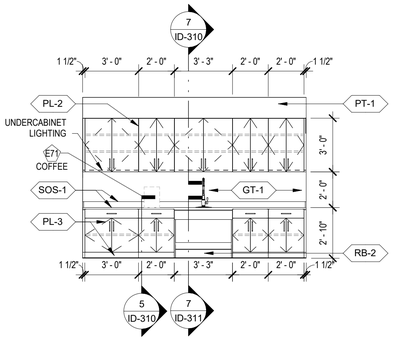
12 ID-201 ELEVATION - CHEMICAL LAB 113 - SOUTH 1/4" = 1'-0"



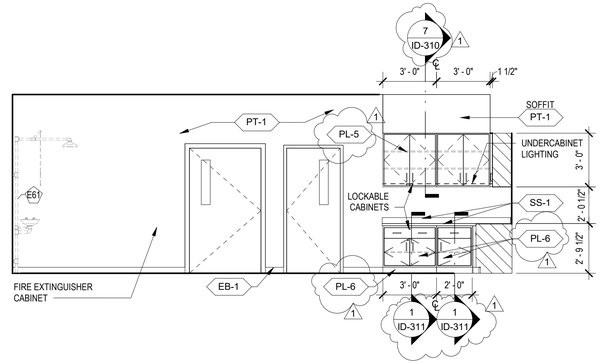
8 ID-201 ELEVATION - PHOTO LAB 111 - NORTH 1/4" = 1'-0"



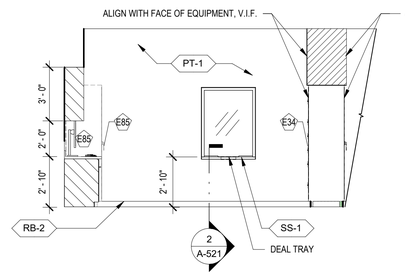
4 ID-201 ELEVATION - EVIDENCE TECHS 109B - NORTH 1/4" = 1'-0"



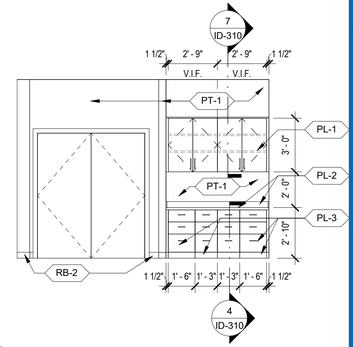
14 ID-201 ELEVATION - COPY/COFFEE 118 - WEST 1/4" = 1'-0"



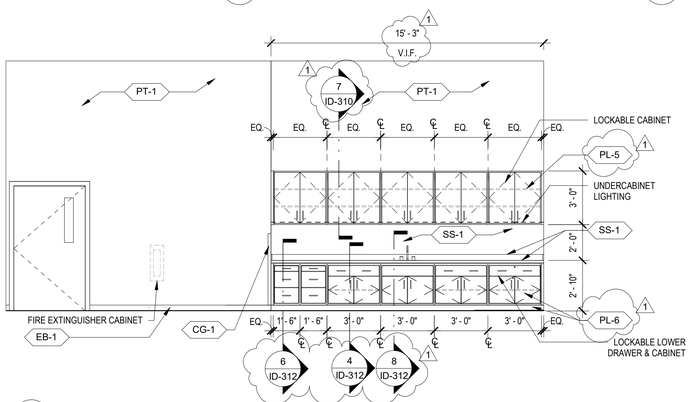
11 ID-201 ELEVATION - CHEMICAL LAB 113 - EAST 1/4" = 1'-0"



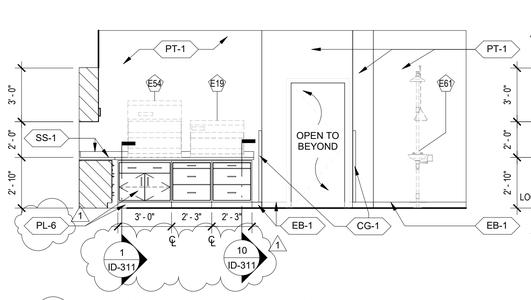
7 ID-201 ELEVATION - BAG & TAG 110 - SOUTH 1/4" = 1'-0"



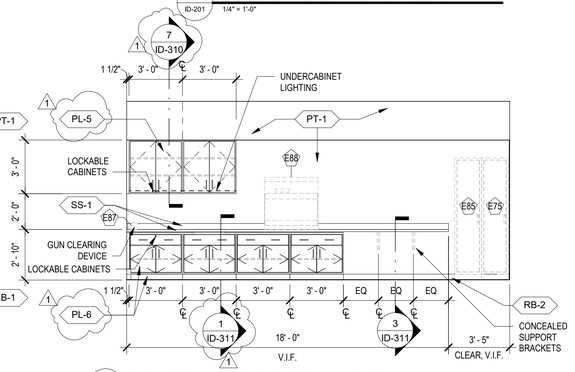
3 ID-201 ELEVATION - EVIDENCE RETURN 105 - EAST 1/4" = 1'-0"



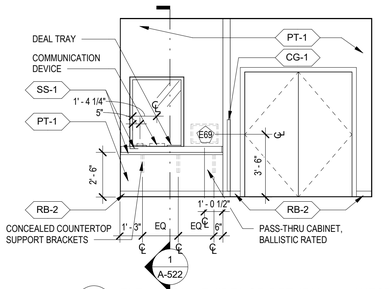
13 ID-201 ELEVATION - VEHICLE EXAMINATION BAY 114 - WEST 1/4" = 1'-0"



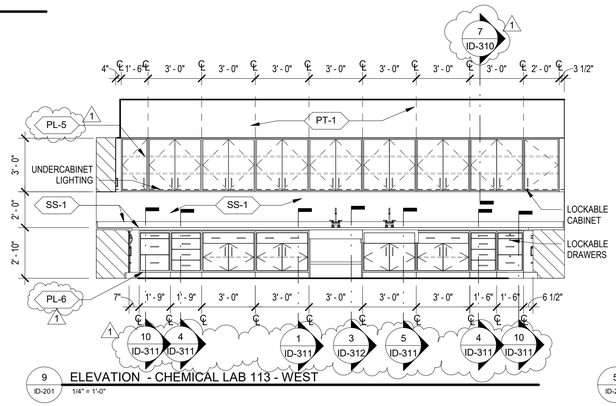
10 ID-201 ELEVATION - CHEMICAL LAB 113 - NORTH 1/4" = 1'-0"



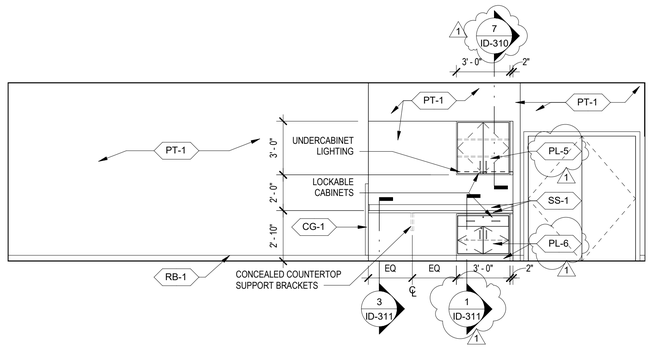
6 ID-201 ELEVATION - BAG & TAG AREA 110 - EAST 1/4" = 1'-0"



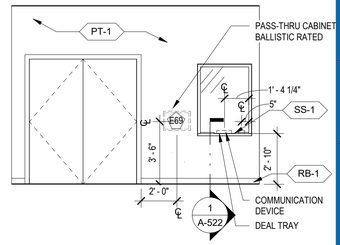
2 ID-201 ELEVATION - EVIDENCE RETURN 105 - WEST 1/4" = 1'-0"



9 ID-201 ELEVATION - CHEMICAL LAB 113 - WEST 1/4" = 1'-0"



5 ID-201 ELEVATION - EVIDENCE TECHS 109A - WEST 1/4" = 1'-0"



1 ID-201 ELEVATION - EVIDENCE VESTIBULE 104 - EAST 1/4" = 1'-0"

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:

1	2022.02.28	ADDENDUM #1

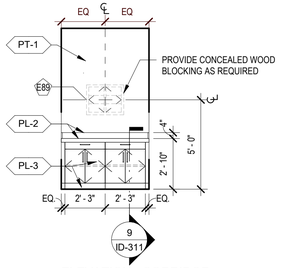
BID ISSUE

Issue Date:
2022.02.10

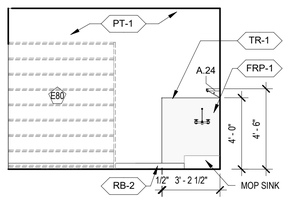
Drawn by: JM/ZR
Checked by: Checker

INTERIOR ELEVATIONS

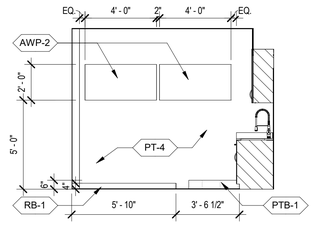
ID-201



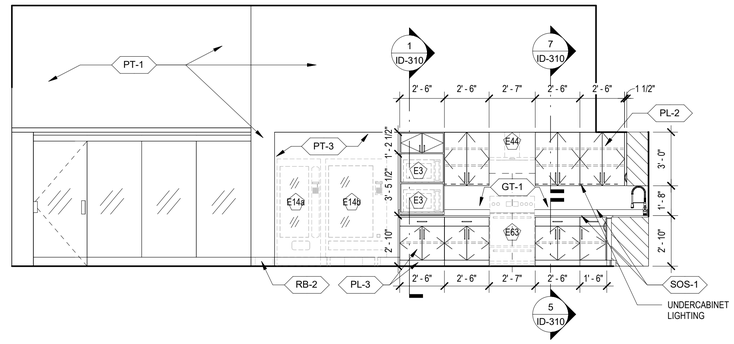
14 ID-202 ELEVATION - CORRIDOR 148C - WEST
1/4" = 1'-0"



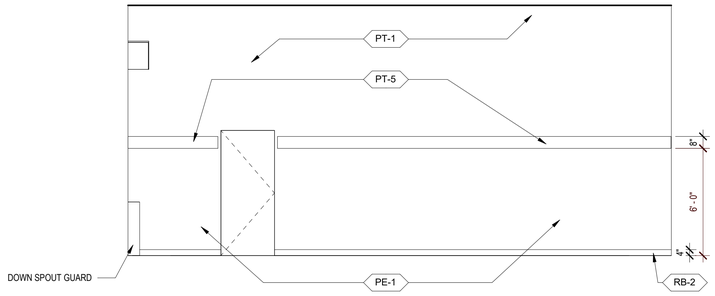
10 ID-202 ELEVATION - JANITOR 141 - WEST
1/4" = 1'-0"



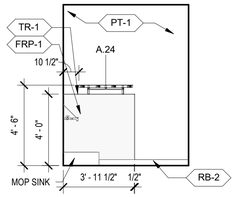
8 ID-202 ELEVATION - LACTATION ROOM 140 - WEST
1/4" = 1'-0"



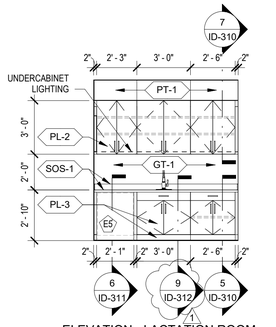
4 ID-202 ELEVATION - BREAK ROOM 126 - EAST
1/4" = 1'-0"



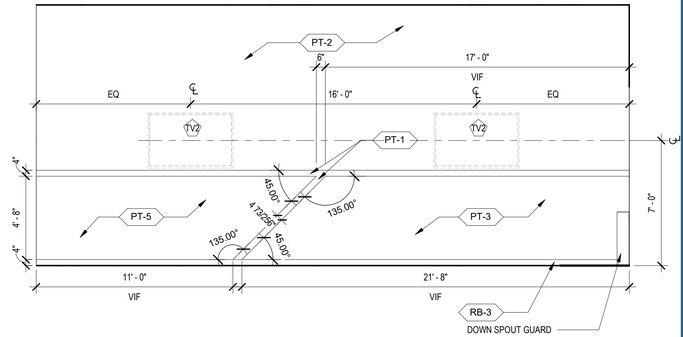
13 ID-202 ELEVATION - SALLYPORT 147 - SOUTH
1/4" = 1'-0"



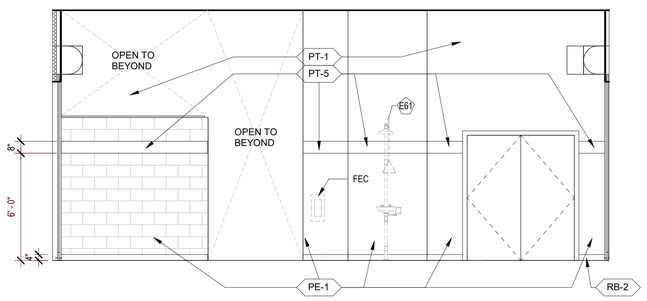
9 ID-202 ELEVATION-JANITOR 141-NORTH
1/4" = 1'-0"



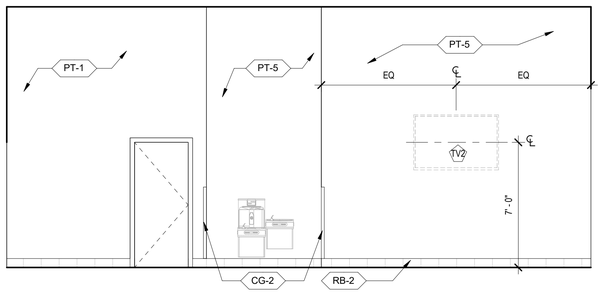
7 ID-202 ELEVATION - LACTATION ROOM 140 - EAST
1/4" = 1'-0"



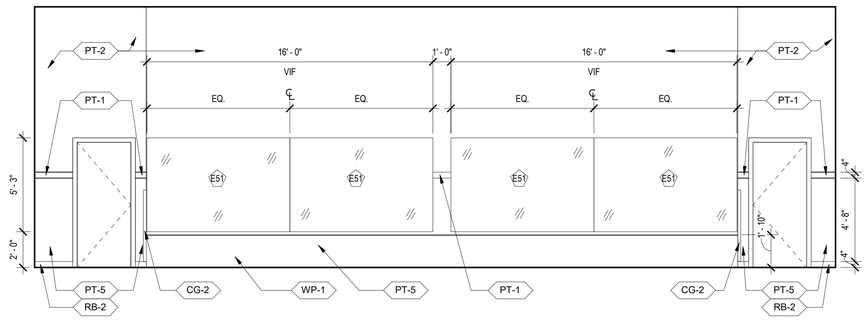
3 ID-202 ELEVATION - PHYSICAL AGILITY 122 - WEST
1/4" = 1'-0"



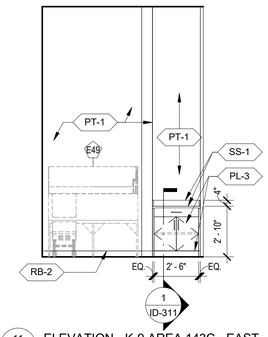
12 ID-202 ELEVATION - SALLYPORT 147 - NORTH
1/4" = 1'-0"



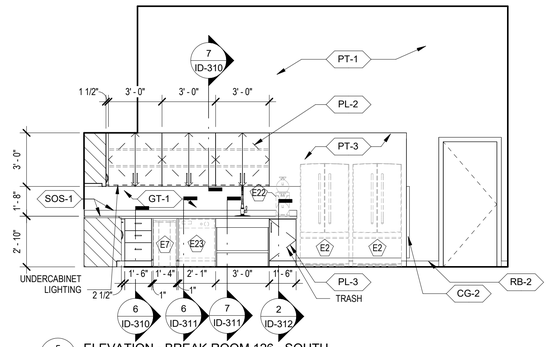
6 ID-202 ELEVATION - BREAK ROOM 126 - WEST
1/4" = 1'-0"



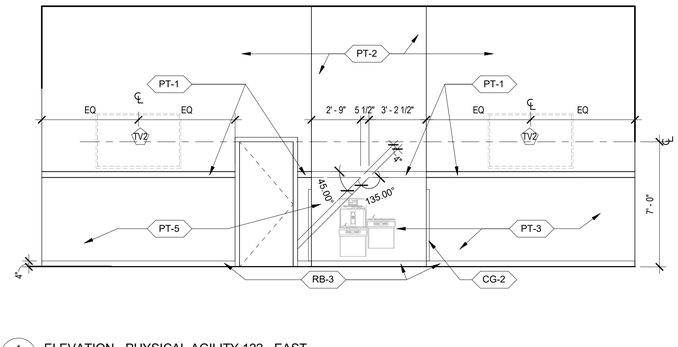
2 ID-202 ELEVATION - PHYSICAL AGILITY 122 - SOUTH
1/4" = 1'-0"



11 ID-202 ELEVATION - K-9 AREA 143C - EAST
1/4" = 1'-0"



5 ID-202 ELEVATION - BREAK ROOM 126 - SOUTH
1/4" = 1'-0"



1 ID-202 ELEVATION - PHYSICAL AGILITY 122 - EAST
1/4" = 1'-0"

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:
1 2022.02.28 ADDENDUM #1

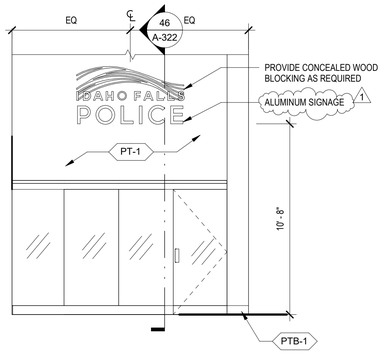
BID ISSUE

Issue Date:
2022.02.10

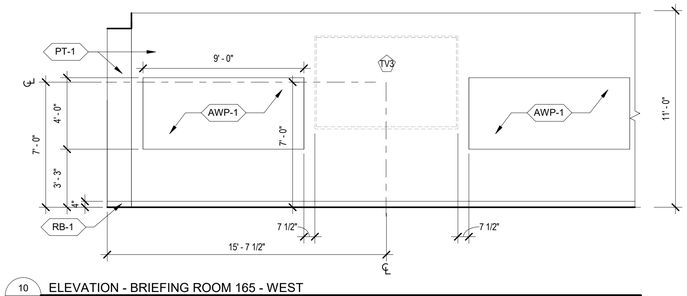
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Checked by: Checker

INTERIOR ELEVATIONS

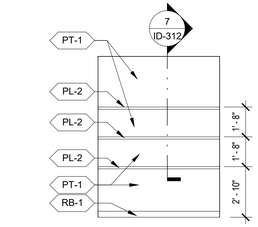
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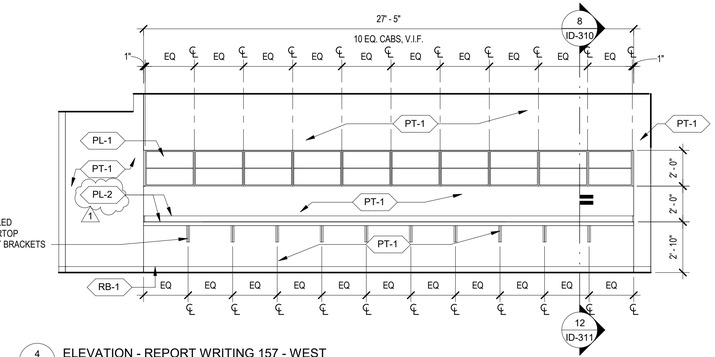
11 ID-203 ELEVATION-STAFF ENTRY - WEST
1/4" = 1'-0"



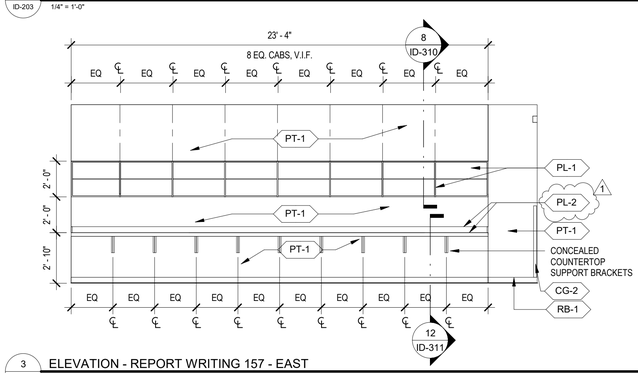
10 ID-203 ELEVATION - BRIEFING ROOM 165 - WEST
1/4" = 1'-0"



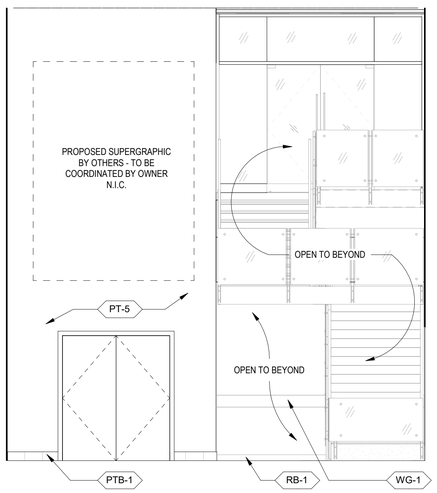
7 ID-203 ELEVATION - PATROL NICHE 156E - NORTH
1/4" = 1'-0"



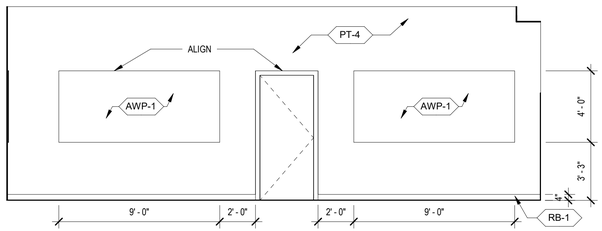
4 ID-203 ELEVATION - REPORT WRITING 157 - WEST
1/4" = 1'-0"



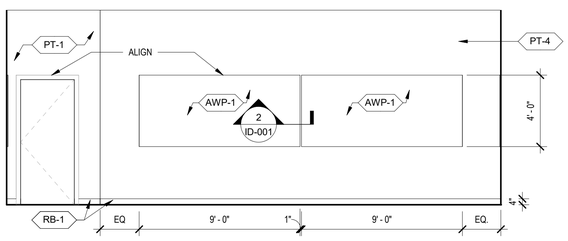
3 ID-203 ELEVATION - REPORT WRITING 157 - EAST
1/4" = 1'-0"



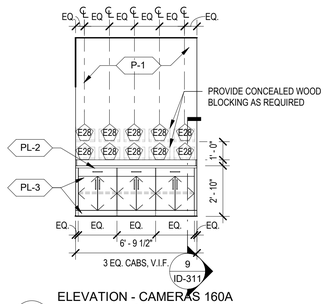
12 ID-203 ELEVATION - STAFF ENTRY 176 - SOUTH
1/4" = 1'-0"



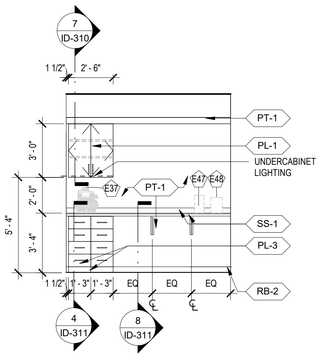
9 ID-203 ELEVATION - BRIEFING ROOM 165 - EAST
1/4" = 1'-0"



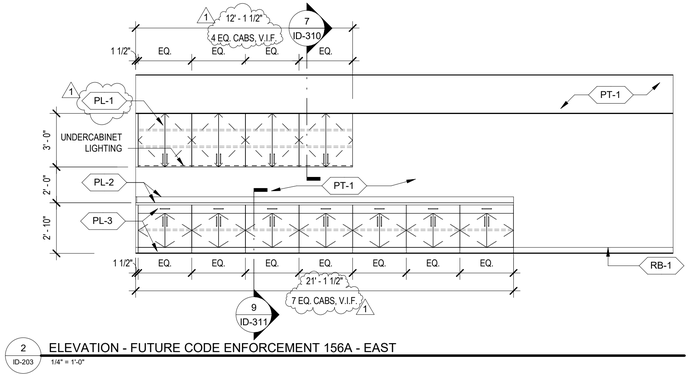
8 ID-203 ELEVATION - BRIEFING ROOM 165 - NORTH
1/4" = 1'-0"



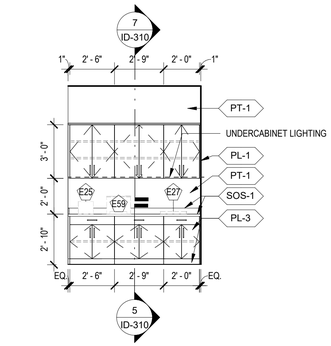
ELEVATION - CAMERAS 160A - SOUTH EAST
6 ID-203 1/4" = 1'-0"



5 ID-203 ELEVATION - ARMORER 158 - WEST
1/4" = 1'-0"



2 ID-203 ELEVATION - FUTURE CODE ENFORCEMENT 156A - EAST
1/4" = 1'-0"



1 ID-203 ELEVATION - DUI/DRUG RECOGNITION 151 - NORTH EAST
1/4" = 1'-0"

Architects Design Group
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LICENSED ARCHITECT AR-986743
2022.02.28
IAN A. REEVES, STATE OF IDAHO

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:
1 2022.02.28 ADDENDUM #1

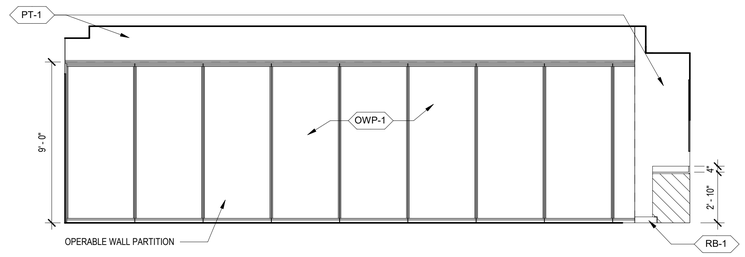
BID ISSUE

Issue Date:
2022.02.10

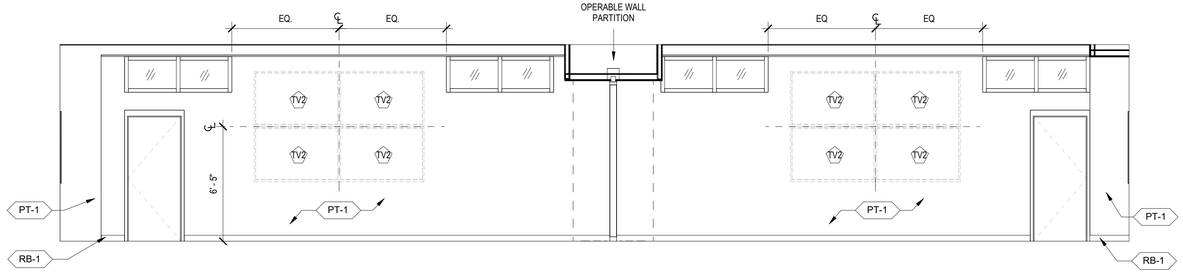
Drawn by: JM/ZR
Checked by: Checker

INTERIOR ELEVATIONS

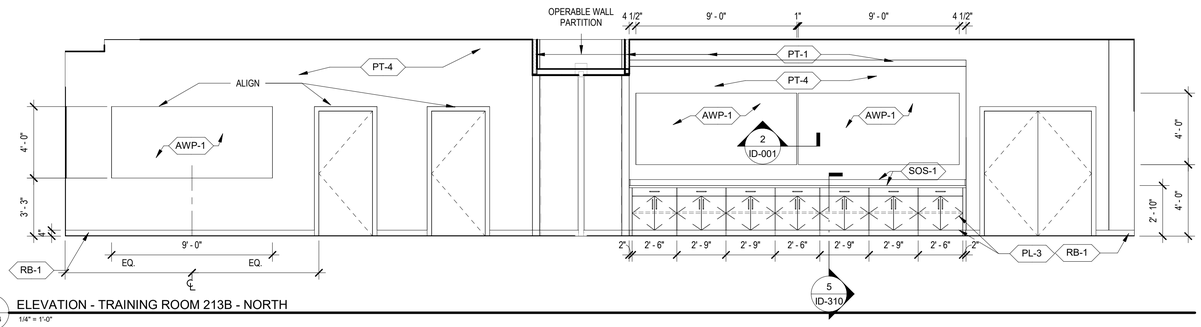
ID-203



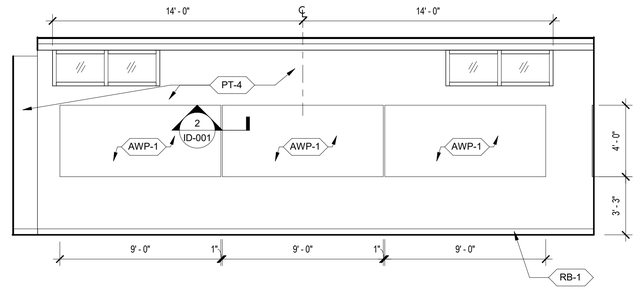
11 ID-204 ELEVATION - TRAINING ROOM 213B- WEST
1/4" = 1'-0"



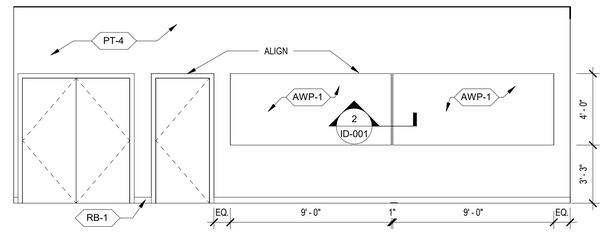
9 ID-204 ELEVATION - TRAINING ROOM 213B - SOUTH
1/4" = 1'-0"



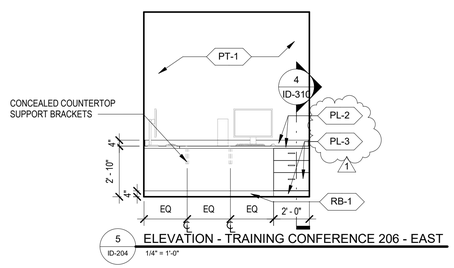
7 ID-204 ELEVATION - TRAINING ROOM 213B - NORTH
1/4" = 1'-0"



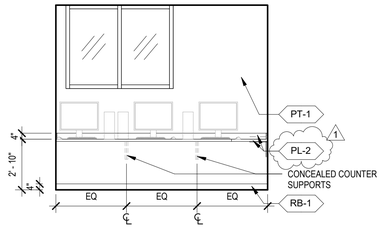
10 ID-204 ELEVATION - TRAINING ROOM 213A - WEST
1/4" = 1'-0"



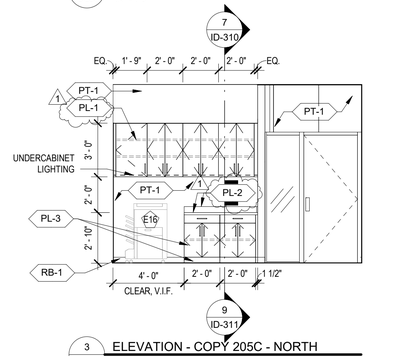
8 ID-204 ELEVATION - TRAINING ROOM 213B - EAST
1/4" = 1'-0"



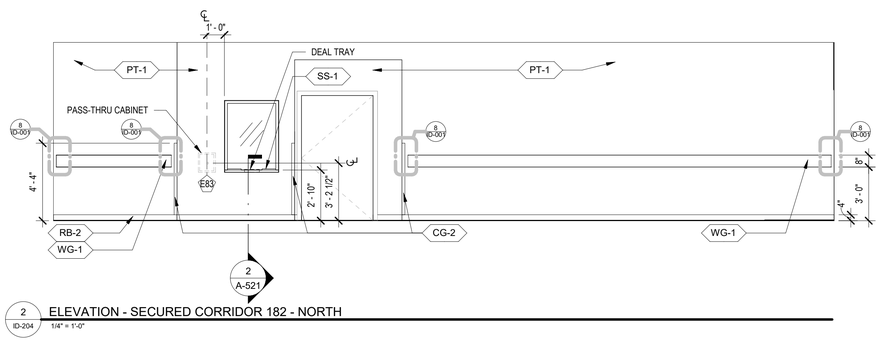
5 ID-204 ELEVATION - TRAINING CONFERENCE 206 - EAST
1/4" = 1'-0"



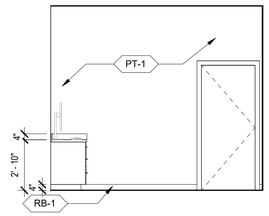
4 ID-204 ELEVATION - COMPUTER TRAINING 206 - NORTH
1/4" = 1'-0"



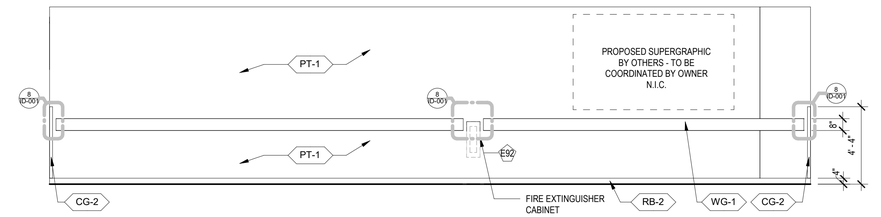
3 ID-204 ELEVATION - COPY 205C - NORTH
1/4" = 1'-0"



2 ID-204 ELEVATION - SECURED CORRIDOR 182 - NORTH
1/4" = 1'-0"



6 ID-204 ELEVATION - TRAINNG CONFERENCE 206 - SOUTH
1/4" = 1'-0"



1 ID-204 ELEVATION - CORRIDOR 181 - SOUTH
1/4" = 1'-0"

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Signature and Seal:

LICENSED ARCHITECT
AR-986743
2022.02.28
IAN A. REEVES
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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:
1 2022.02.28 ADDENDUM #1

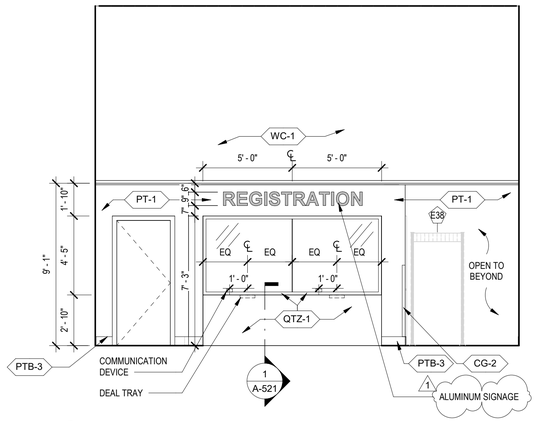
BID ISSUE

Issue Date:
2022.02.10

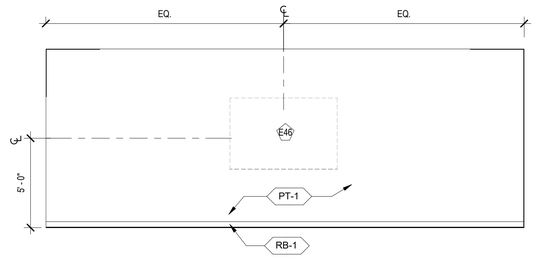
Drawn by: JM/ZR
Checked by: Checker

INTERIOR ELEVATIONS

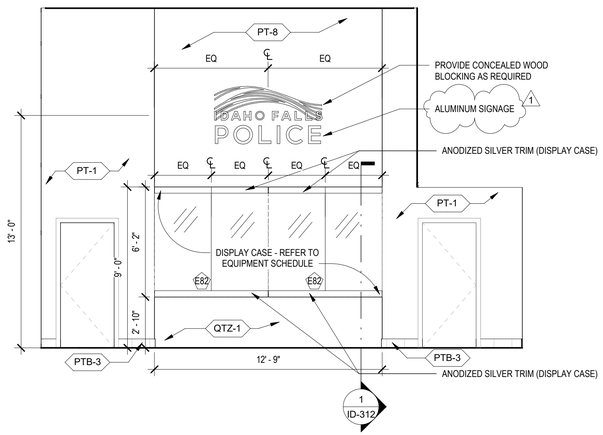
ID-204



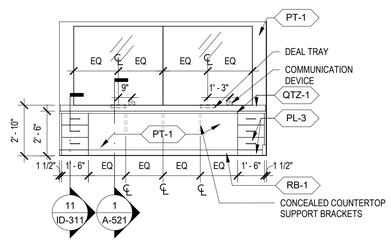
6 ID-205 ELEVATION - RECEPTION 237 - NORTH
1/4" = 1'-0"



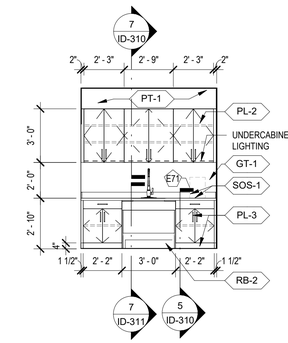
3 ID-205 ELEVATION - LARGE CONFERENCE 231 - SOUTH
1/4" = 1'-0"



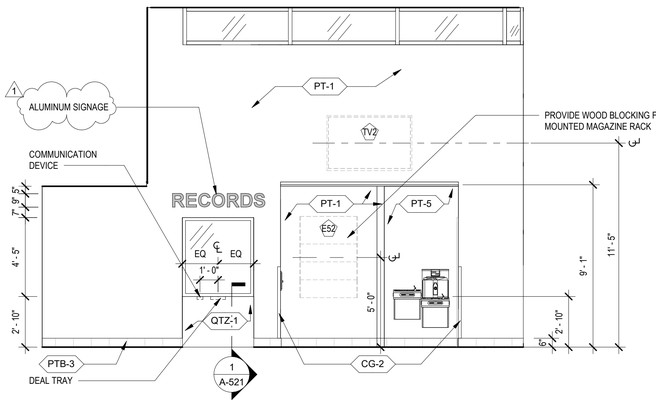
8 ID-205 ELEVATION - RECEPTION 237 - WEST
1/4" = 1'-0"



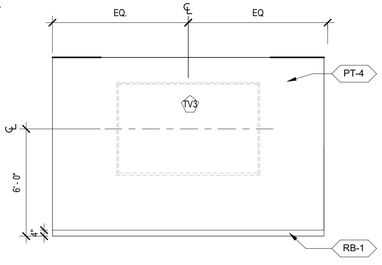
5 ID-205 ELEVATION - DESK OFFICER 234 - SOUTH
1/4" = 1'-0"



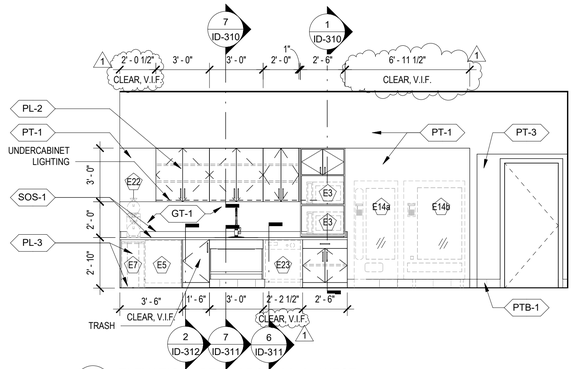
2 ID-205 ELEVATION - COPY/COFFEE 219 - WEST
1/4" = 1'-0"



7 ID-205 ELEVATION - RECEPTION 237 - EAST
1/4" = 1'-0"



4 ID-205 ELEVATION - LARGE CONFERENCE 231 - WEST
1/4" = 1'-0"



1 ID-205 ELEVATION - BREAK ROOM 216 - WEST
1/4" = 1'-0"

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:

1	2022.02.28	ADDENDUM #1

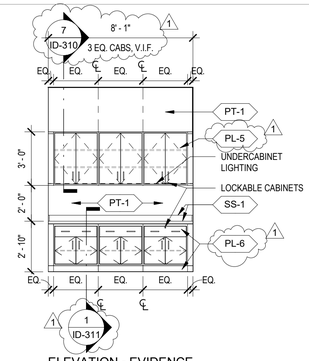
BID ISSUE

Issue Date:
2022.02.10

Drawn by: JM/ZR
Checked by: Checker

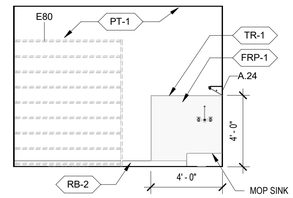
INTERIOR ELEVATIONS

ID-205



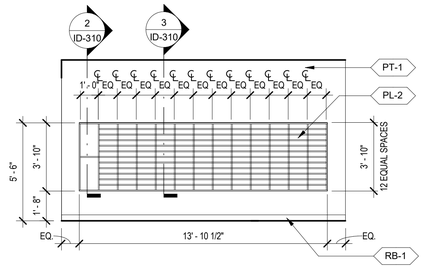
12 ID-206 1/4" = 1'-0"

ELEVATION - EVIDENCE PROCESSING 260A - SOUTH



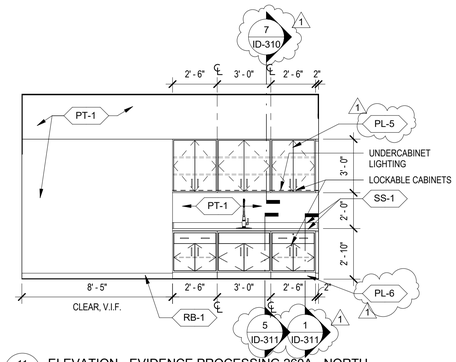
8 ID-206 1/4" = 1'-0"

ELEVATION - JANITOR 251 - WEST



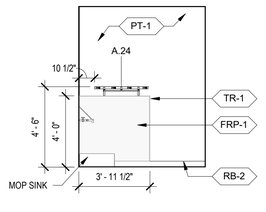
4 ID-206 1/4" = 1'-0"

ELEVATION - COPY/MAIL 244 - SOUTH



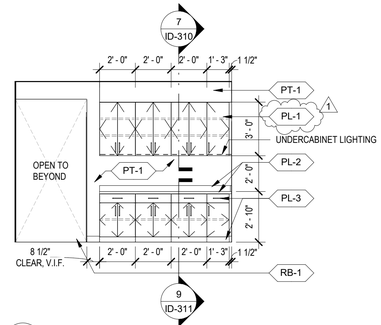
11 ID-206 1/4" = 1'-0"

ELEVATION - EVIDENCE PROCESSING 260A - NORTH



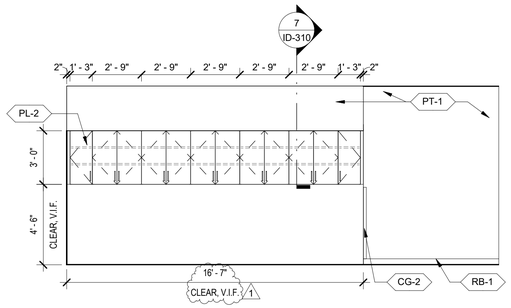
7 ID-206 1/4" = 1'-0"

ELEVATION - JANITOR 251 - NORTH



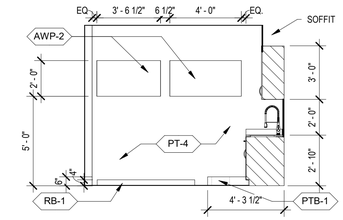
3 ID-206 1/4" = 1'-0"

ELEVATION - COPY 243 - WEST



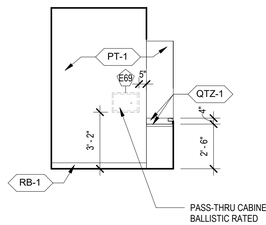
10 ID-206 1/4" = 1'-0"

ELEVATION - ADMIN/WAITING 258A - SOUTH



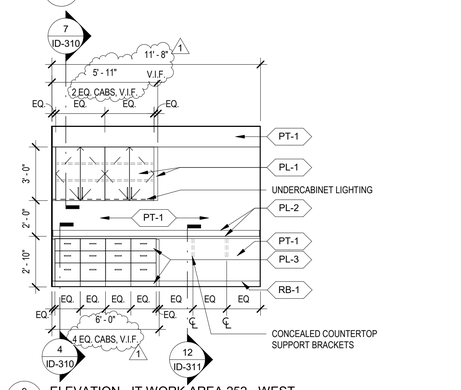
6 ID-206 1/4" = 1'-0"

ELEVATION - LACTATION ROOM 250 - WEST



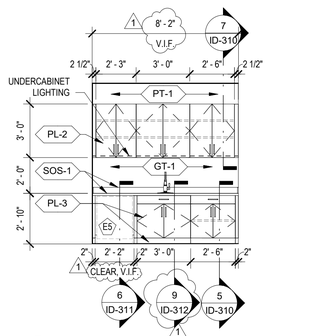
2 ID-206 1/4" = 1'-0"

ELEVATION - RECORDS RECEPTION 241 - SOUTH



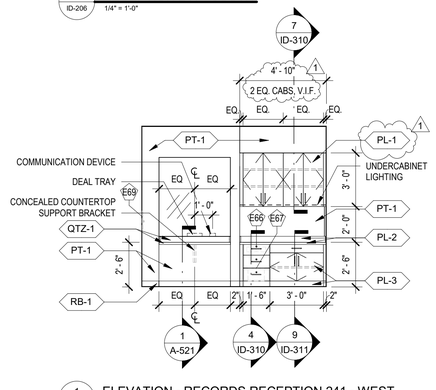
9 ID-206 1/4" = 1'-0"

ELEVATION - IT WORK AREA 252 - WEST



5 ID-206 1/4" = 1'-0"

ELEVATION - LACTATION ROOM 250 - EAST



1 ID-206 1/4" = 1'-0"

ELEVATION - RECORDS RECEPTION 241 - WEST

Architects Design Group

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:

1	2022.02.28	ADDENDUM #1

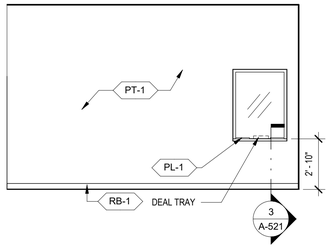
BID ISSUE

Issue Date:
2022.02.10

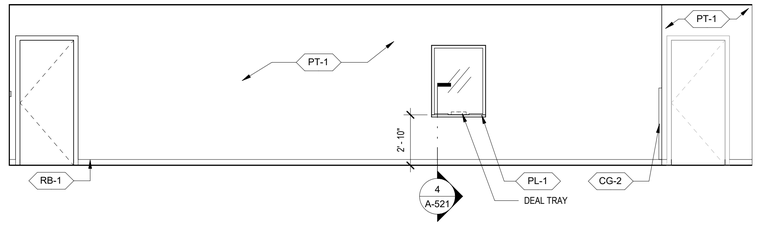
Drawn by: JM/ZR
Checked by: Checker

INTERIOR ELEVATIONS

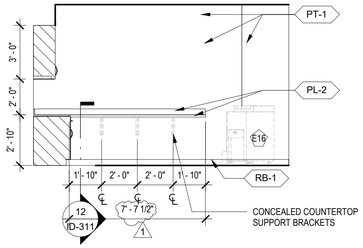
ID-206



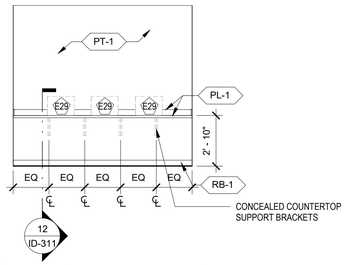
13 ID-207 ELEVATION - ICAC 274 - SOUTH
1/4" = 1'-0"



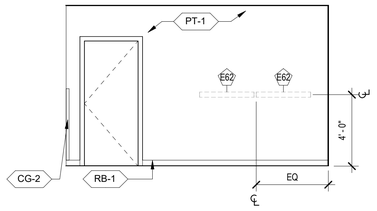
8 ID-207 ELEVATION - DETECTIVES 264D - EAST
1/4" = 1'-0"



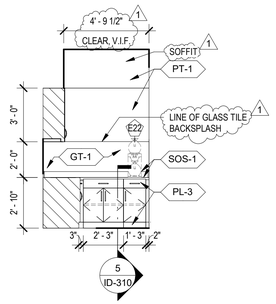
4 ID-207 ELEVATION - COPY 263 - NORTH
1/4" = 1'-0"



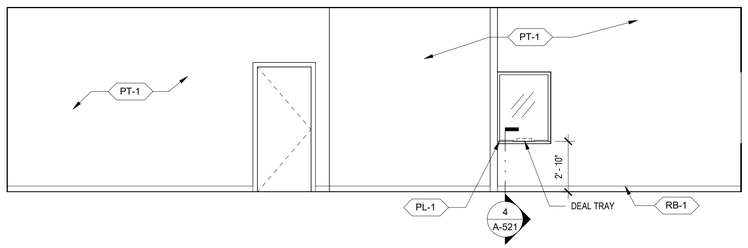
12 ID-207 ELEVATION - FARADAY 273 - NORTH
1/4" = 1'-0"



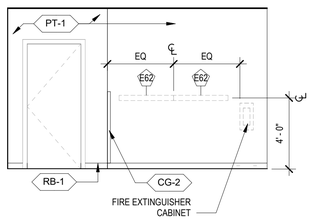
7 ID-207 ELEVATION - DETECTIVES 264D - NORTH
1/4" = 1'-0"



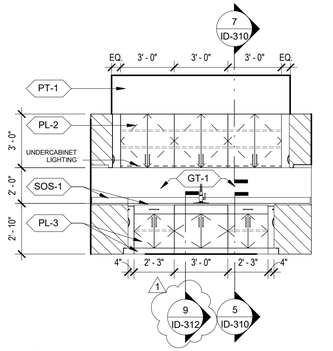
3 ID-207 ELEVATION - COFFEE 262 - SOUTH
1/4" = 1'-0"



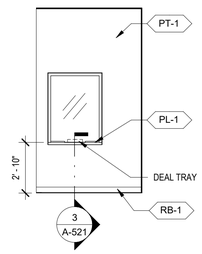
11 ID-207 ELEVATION - COMPUTER CRIMES 272 - WEST
1/4" = 1'-0"



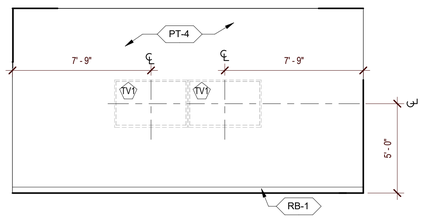
6 ID-207 ELEVATION - CORRIDOR 264A - NORTH
1/4" = 1'-0"



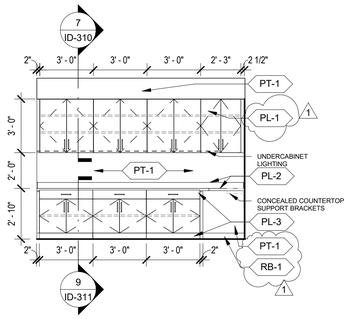
2 ID-207 ELEVATION - COFFEE 262 - EAST
1/4" = 1'-0"



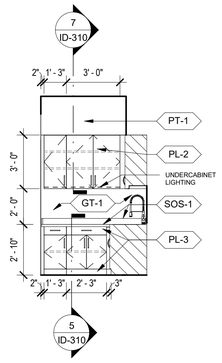
10 ID-207 ELEVATION - COMPUTER CRIMES 272 - NORTH
1/4" = 1'-0"



9 ID-207 ELEVATION - CONFERENCE 268 - EAST
1/4" = 1'-0"



5 ID-207 ELEVATION - COPY 263 - WEST
1/4" = 1'-0"



1 ID-207 ELEVATION - COFFEE 262 - NORTH
1/4" = 1'-0"

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IDAHO FALLS, ID

Project No.
1047-20

Revisions:
1 2022.02.28 ADDENDUM #1

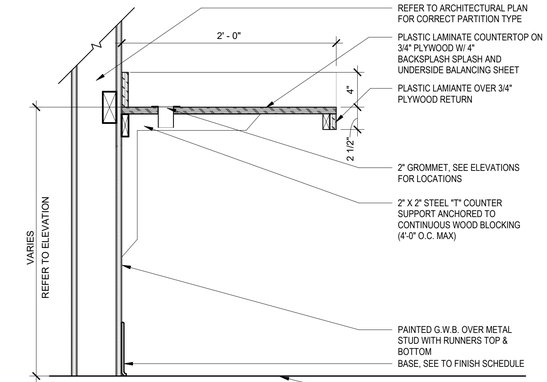
BID ISSUE

Issue Date:
2022.02.10

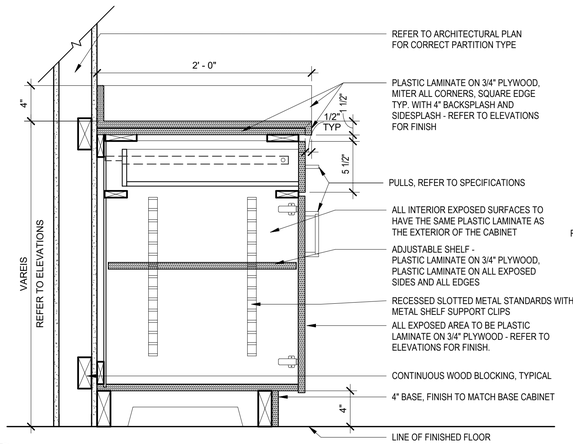
Drawn by: JM/ZR
Checked by: Checker

INTERIOR ELEVATIONS

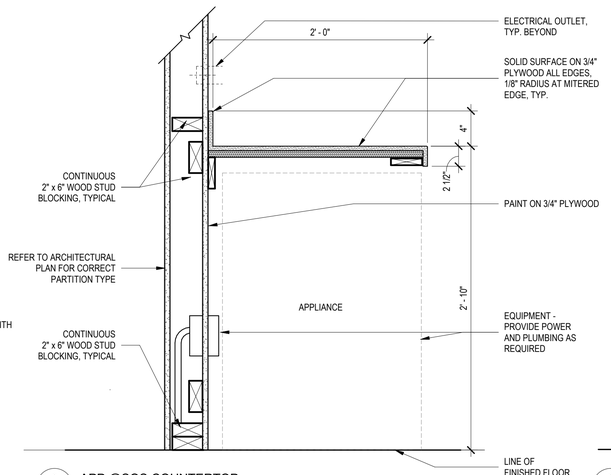
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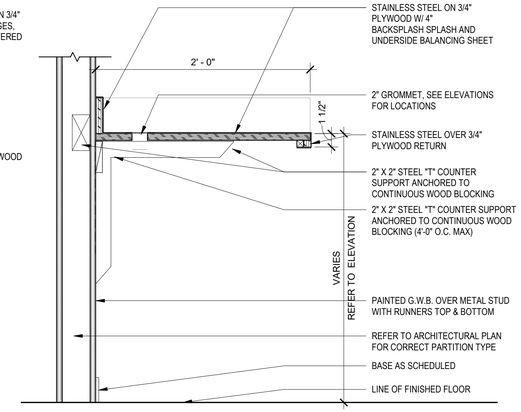
12 / ID-311 — 1 — PLASTIC LAMINATE COUNTER
1 1/2" = 1'-0"



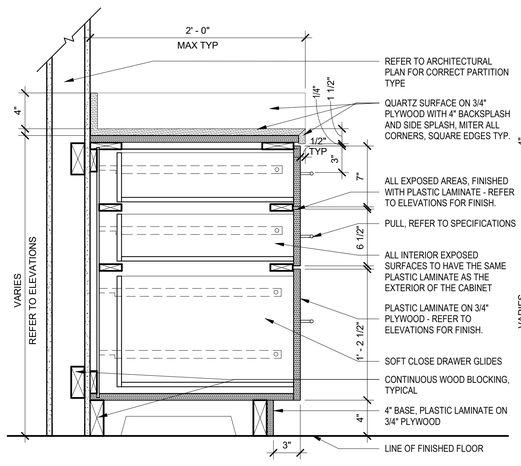
9 / ID-311 — BASE CABINET, PLASTIC LAMINATE COUNTERTOP
1 1/2" = 1'-0"



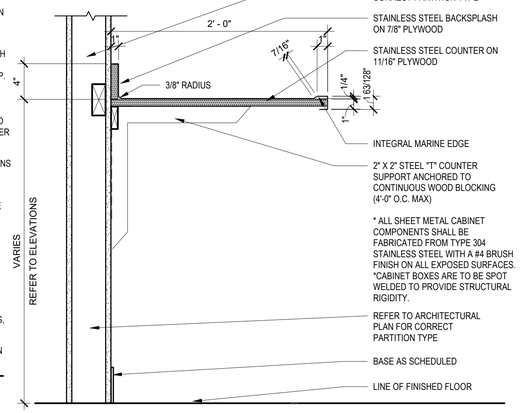
6 / ID-311 — APP @SOS COUNTERTOP
1 1/2" = 1'-0"



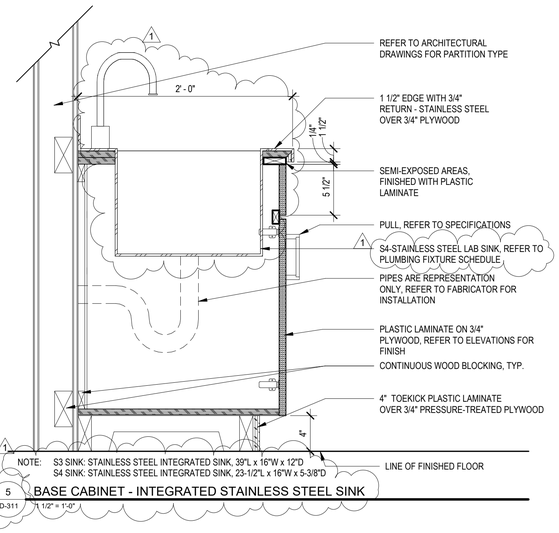
3 / ID-311 — STAINLESS STEEL COUNTER
1 1/2" = 1'-0"



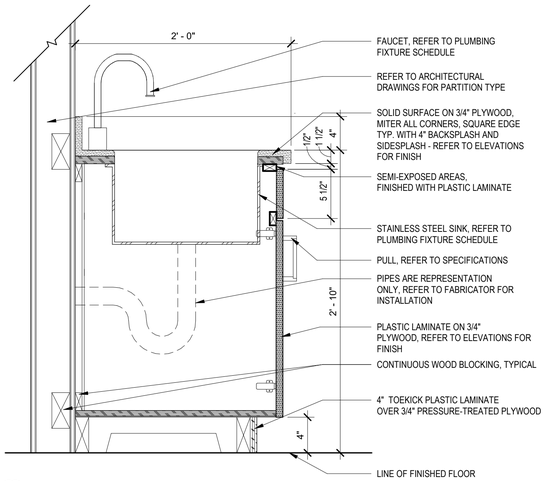
11 / ID-311 — 1 — BASE CABINET, 3 DRAWERS, QUARTZ COUNTERTOP
1 1/2" = 1'-0"



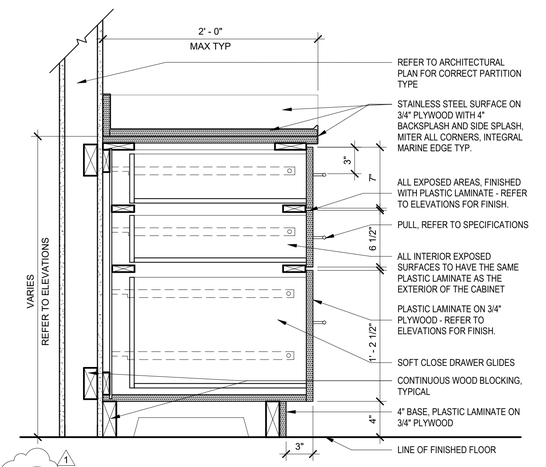
8 / ID-311 — STAINLESS STEEL COUNTER W MARINE EDGE
1 1/2" = 1'-0"



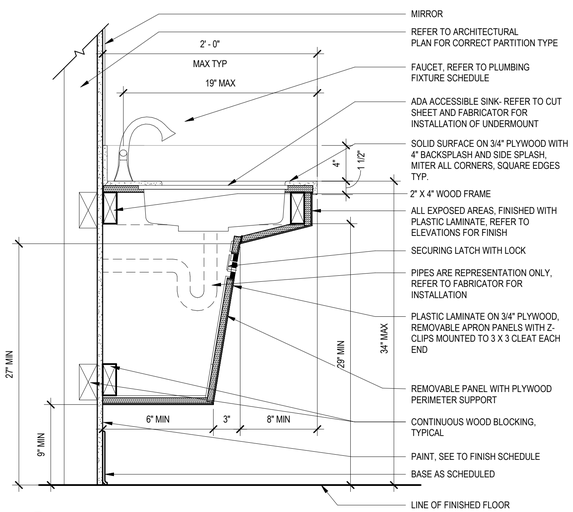
5 / ID-311 — BASE CABINET - INTEGRATED STAINLESS STEEL SINK
1 1/2" = 1'-0"



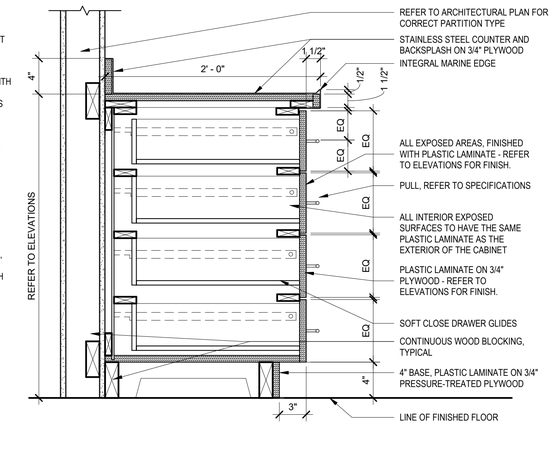
2 / ID-311 — BASE CABINET - UNDERMOUNT SINK
1 1/2" = 1'-0"



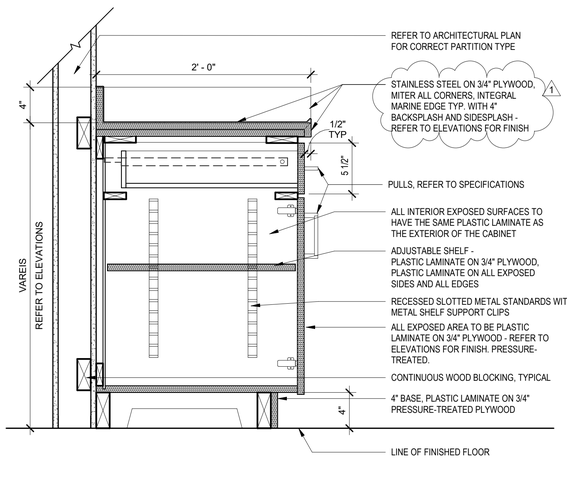
10 / ID-311 — 1 — BASE CABINET, 3 DRAWERS, STAINLESS STEEL COUNTERTOP
1 1/2" = 1'-0"



7 / ID-311 — DETAIL - ADA SINK APRON
1 1/2" = 1'-0"



4 / ID-311 — SS COUNTER W MARINE EDGE 4 DRAWER BASE
1 1/2" = 1'-0"



1 / ID-311 — BASE CABINET - STAINLESS STEEL COUNTERTOP
1 1/2" = 1'-0"

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IDAHO FALLS, ID

Project No.
1047-20

Revisions:
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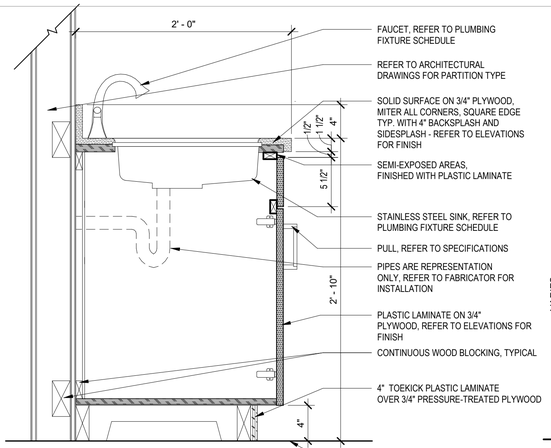
BID ISSUE

Issue Date:
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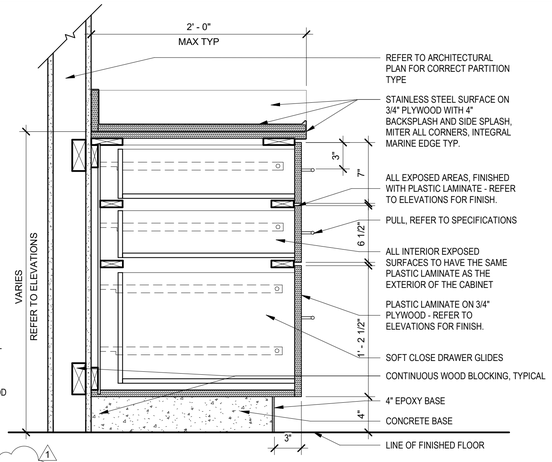
Drawn by: JM/ZR
Checked by: Checker

MILLWORK DETAILS

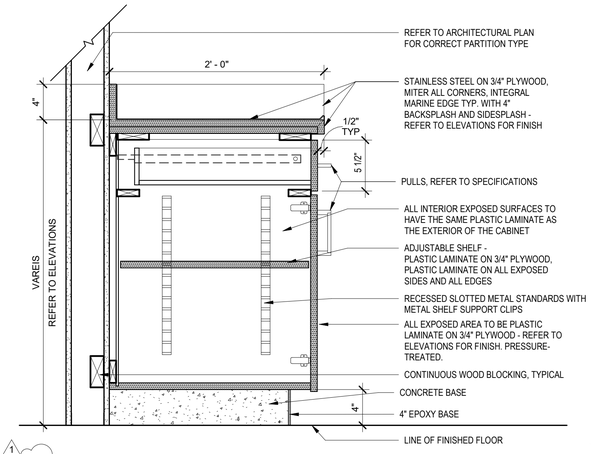
ID-311



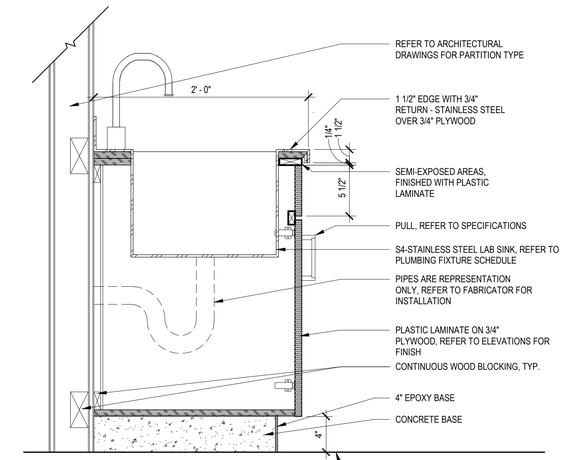
9 ID-312 — 1 — BASE CABINET - UNDERMOUNT ADA SIDE SINK
1 1/2" = 1'-0"



6 ID-312 — 1 — BASE CABINET, 3 DRAWERS, STAINLESS STEEL COUNTERTOP WITH CURB
1 1/2" = 1'-0"

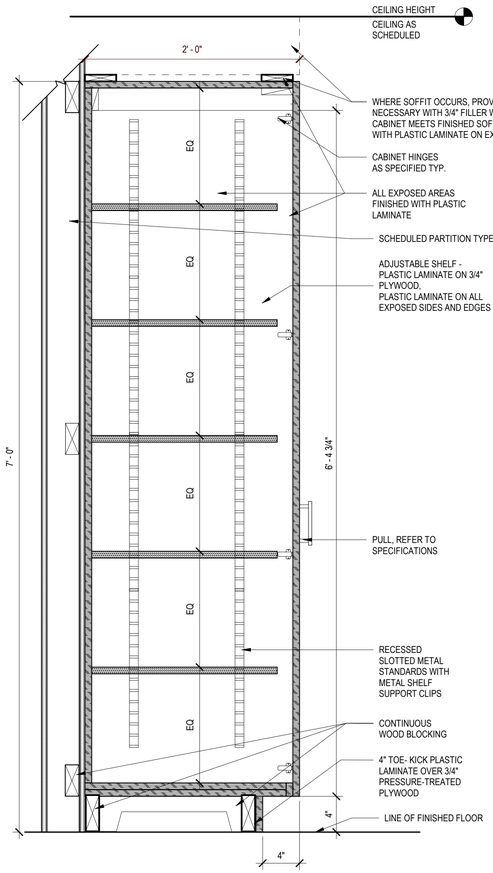


4 ID-312 — 1 — BASE CABINET - STAINLESS STEEL COUNTERTOP WITH CURB
1 1/2" = 1'-0"

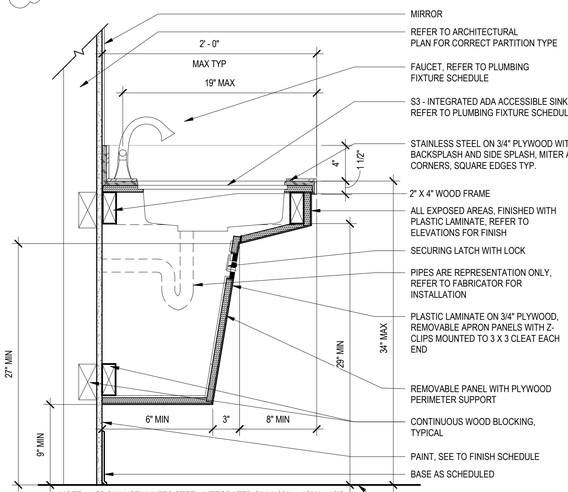


NOTE: S3 SINK: STAINLESS STEEL INTEGRATED SINK, 39"L x 16"W x 12"D
S4 SINK: STAINLESS STEEL INTEGRATED SINK, 23-1/2"L x 16"W x 5-3/8"D

8 ID-312 — 1 — BASE CABINET - INTEGRATED STAINLESS STEEL SINK WITH CURB
1 1/2" = 1'-0"

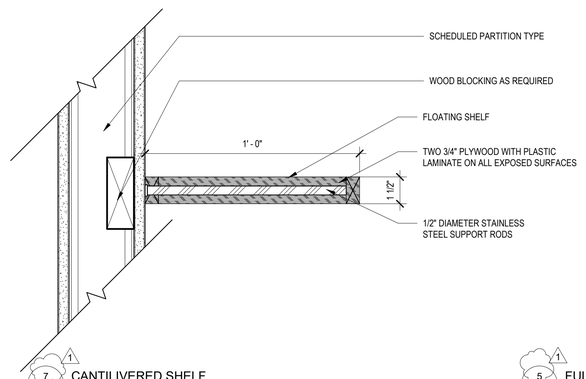


5 ID-312 — 1 — FULL HEIGHT CABINET
1 1/2" = 1'-0"

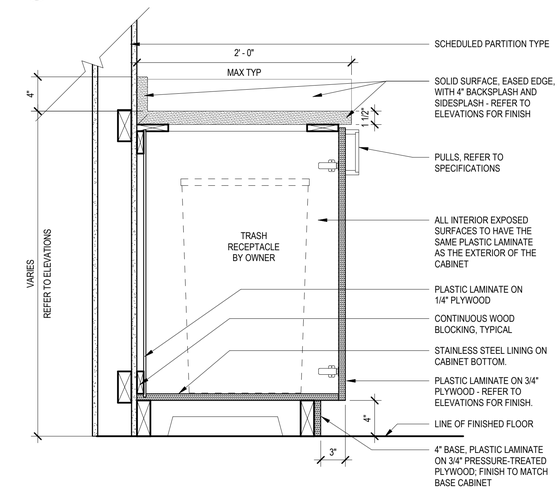


NOTE: S3 SINK: STAINLESS STEEL INTEGRATED SINK, 39"L x 16"W x 12"D
S4 SINK: STAINLESS STEEL INTEGRATED SINK, 23-1/2"L x 16"W x 5-3/8"D

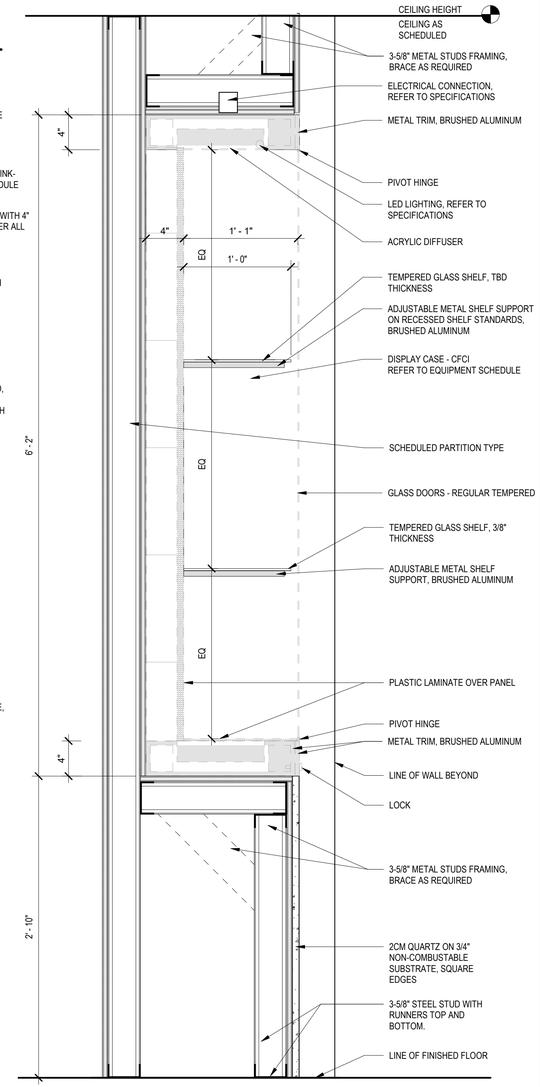
3 ID-312 — 1 — DETAIL - ADA APRON, SS COUNTER SINK
1 1/2" = 1'-0"



7 ID-312 — 1 — CANTILIVERED SHELF
3" = 1'-0"



2 ID-312 — SOS BASE CAB - OPEN TRASH
1 1/2" = 1'-0"



1 ID-312 — DISPLAY CASE SECTION
1 1/2" = 1'-0"

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Drawn by: JM/ZR
Checked by: Checker

MILLWORK DETAILS

ID-312

INTERIOR FINISH LEGEND - CD PAGE 1

FINISH TAG	MATERIAL	MANUFACTURER	STYLE	COLOR / FINISH	SIZE	COMMENTS
033545	**Sealed Concrete Finishing**					
SC-1	Sealed Concrete Finishing	L.M. Scofield Co.	-	Clear / Matte	-	Sally Port, General storage rooms, stairs, K-9, Courtyard, Elec/Mech, Janitor, Elev. Machine
064116	**High-Pressure Plastic Laminate**					
PL-1	Plastic Laminate	Nevamar	Neutral Gray	S6012T, Standard HPL 1	-	Upper cabinets 1
PL-2	Plastic Laminate	Nevamar	Frappe	LN6001T, Standard HPL 1	-	Dry Countertops; Upper Cabinets at Breakrooms and Copy/Coffee where there are sinks; Grain to run vertical 1
PL-3	Plastic Laminate	Nevamar	Maritime Gray	S6027T, Standard HPL 1	-	Base cabinets; Restroom vanity shrouds, Training, Breakrooms, Labs and Armory 1
PL-4	Plastic Laminate	Wilsonart	Silver Velvet Traceless	15503-31	-	Reception
PL-5 1	Plastic Laminate	Nevamar	Neutral Gray	S6012T, ChemGuard HPL	-	Upper cabinets; Labs & Armory
PL-6 1	Plastic Laminate	Nevamar	Maritime Gray	S6027T, ChemGuard HPL	-	Base cabinets; Labs and Armory
123616	**Stainless Steel**					
SS-1	Stainless Steel	OnePointe Solutions	Type 316	Stainless Steel	-	Armory, Labs, & Evidence Backsplashes 1
123661	**Solid Polymer Fabrication**					
SOS-1	Solid Surface	Livingstone	Sea Peal	L719, Polished	2 cm	Reception, Breakroom, Copy/Coffee, Lactation & Training Room countertops & 4" backsplashes
081416	**Flush High-Pressure Laminate-Faced Doors**					
DR-1	Flush Laminate-Finished Doors	VT Industries-Wilsonart	Heritage Collection / High-Pressure Laminate Finish (HPL)	Limber Maple 10734-60	Refer to Door Schedule	AEON scuff-resistant finish
093000	**Tiling**					
PTF-1	Porcelain Tile Floor	Atlas Concorde	Fray	Smoke	12" x 24" x 9mm thick	Field tile in Elevator, Break Rooms, Staff Entry, Water Fountains; Ashlar Installation, 1/8" grout joint, sanded. Grout: Laticrete #45 Raven. 1
PTF-2	Porcelain Tile Floor	Ceramic Technics	Fiorano, Basaltina	Light Grey, Natural	12" x 24" x 10mm thick	Flooring in Restrooms; Stacked pattern, 1/8" grout joint, sanded. Grout: Laticrete #24 Natural Grey
PTF-3	Porcelain Tile Floor	Atlas Concorde	Fray	Gray	12" x 24" x 9mm thick	Reception; Ashlar Installation, 1/4" grout joint, sanded. Grout: Laticrete #78 Sterling Silver
PTB-1	Porcelain Tile Base	Atlas Concorde	Fray	Smoke	6" x 12" x 9mm thick, coved	Elevator, Break Rooms, Staff Entry, Water Fountains; Ashlar Installation; 1/8" grout joint, sanded. Grout: Laticrete #45 Raven. 1
PTB-2	Porcelain Tile Base	Ceramic Technics	Fiorano, Basaltina	Light Grey, Natural	6" x 12" x 10mm thick, coved	Restrooms, Stacked Pattern; 1/8" grout joint, sanded. Grout: Laticrete # 24 Natural Grey
PTB-3	Porcelain Tile Base	Atlas Concorde	Fray	Gray	6" x 12" x 9mm thick, coved	Reception, Ashlar Installation; 1/4" grout joint, sanded. Grout: Laticrete #78 Sterling Silver
PTW-1	Porcelain Wall Tile	Ceramic Technics	Fiorano, Basaltina	White, Natural	12" x 24" x 10mm thick	Restroom Walls; Stacked pattern, 1/8" grout joint, unsanded. Grout: Laticrete #89 Smoke Grey.
093000	**Glass Tile**					
GT-1	Glass Mosaic Tile	Mosaic Tile Outlet	Staggered Brick	MTO0616 Blue, Yellow; Glossy	1" x 2"	Breakroom & Copy/Coffee backsplash, Ashlar Installation; install above the countertop backsplash. Install TR-1 at exposed edges.
093050	**Tile Setting Accessories**					
TR-1	Finishing Edge Protection Trim	Schluter	Jolly - A100ACGB	Brushed Chrome Anodized Alum.	3/8"	To finish exposed edges of wall tile at Restrooms & Break Rooms Backsplash edges at Armory, Labs & Evidence
TR-2	Border Profile Trim	Schluter	Designline - ACGB	Brushed Chrome Anodized Alum.	1" wide visible surface	Band at Restrooms
TR-3	Stainless Steel Trim	Schluter	TREP-SE/S/B	Brushed Chrome Anodized Alum.	TBD at time of Installation	Tiled Stairs; Backfill cavities
TR-4	Stainless Steel Trim	Schluter	Reno Ramp-K	Brushed Chrome Anodized Alum.	TBD at time of Installation	Concrete to Concrete transitions; Backfill cavities
TR-5	Stainless Steel Trim	Schluter	Schiene	Brushed Chrome Anodized Alum.	TBD at time of Installation	Lobby Tile Flooring to Walk-Off Carpet
TR-6	Stainless Steel Trim	Schluter	DILEX-EKE	PG, Classic Grey	TBD at time of Installation	Restroom Shower Inside Corners-PTW-1
TR-7	Stainless Steel Trim	Schluter	Quadec	Brushed Chrome Anodized Alum.	TBD at time of Installation	Restroom Shower Outside Corners with Caps

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BID ISSUE

Issue Date:
2022.02.10

Drawn by: JM/ZR
Checked by: Checker

INTERIOR FINISH LEGEND

ID-400

INTERIOR FINISH LEGEND - CD PAGE 3

FINISH TAG	MATERIAL	MANUFACTURER	STYLE	COLOR / FINISH	SIZE	COMMENTS
124800	**Walk-Off Mats**					
CPT-1	Walk-Off Carpet Tile	EF Contract	Access	Ingress AX-AX904	24" x 24" x 0.135" thick	Walk-off carpet at building entrances; Monolithic Installation
096813	**Carpet Tile**					
CPT-2	Carpet Tile	Shaw Contract	Assembly, Convene 5T269	Clear Network 67538	12" x 48" x 6.35mm thick	General carpet for corridors; Ashlar Installation
CPT-3	Carpet Tile	Shaw Contract	Assembly, Establish 5T268	Network 67535	12" x 48" x 6.1mm thick	Offices & Open Offices, Desk Receptionists, Records, Report Writing, Code Enforcement, Sm.; Ashlar Installation
CPT-4	Carpet Tile	Shaw Contract	Canopy, Habitat 5T390	Calm 88595	9" x 36" x 6.3mm thick	Conference Rooms; Ashlar Installation
CPT-5	Carpet Tile	Shaw Contract	Floor Architecture, Poured Tile 5T206	Lapis 06486	24" x 24" x 5.79mm thick	Training & Briefing Rooms; Ashlar Installation
097200	**Wall Coverings**					
WC-1	Wall Covering	MDC: Len-Tex Contract	Kai	Nautilus 6813KI	54" width, Random Reversible	Reception
097720	**Fiberglass-Reinforced Wall Panels**					
FRP-1	Fiberglass-Reinforced Wall Panels & Trim	Marlite	Standard FRP	P4770N Dark Grey	4'-0" wide, 3/32" thick	In Janitor's Closets, frame mop sink; M370 edge, M350 inside corner
098413	**Acoustical Wall Panels**					
AWP-1	Sound-Absorbing Panels	MDC	Zintra, Mandava Performance 100 Fiberglass core w/ square edge detail	Chambray ZTR4703/4157	4'-0" x 9'-0" x 1/2" thick	Install with Z-clips: 0.45-0.95 NRC; Training Rooms, Briefing Room
AWP-1	Sound-Absorbing Panels	MDC	Zintra, Mandava Performance 100 Fiberglass core w/ square edge detail	Chambray ZTR4703/4157	2'-0" x 4'-0" x 1/2" thick	Install with Z-clips: 0.45-0.95 NRC; Lactation Rooms
099100	**Painting and Special Coatings**					
PT-1	Interior Paint	Benjamin Moore	Egg-Shell	Horizon OC-53	-	General Wall Color for Corridors, Offices, Training, Briefing, Conf., Restrooms, Copy/Coffee, Breakrooms, Physical Agility, Lactations, Interviews, Labs, IT & Storage
PT-2	Interior Paint	Sherwin Williams	Eg-Shel	Uncertain Gray SW-6234	-	Accent Color 1, Offices & Physical Agility
PT-3	Interior Paint	Sherwin Williams	Eg-Shel	Golden Plumeria SW-9019	-	Accent Color 2, Breakrooms & Physical Agility
PT-4	Interior Paint	Sherwin Williams	Flat	Smoky Blues SW-7604	-	Accent Color 3, Training, Briefing, Conferences & Lactation Rooms
PT-5	Interior Paint	Sherwin Williams	Semi-Gloss	Dress Blues SW-9176	-	Accent Color 4, Open Offices, Corridors, Copy/Coffee Sally Ports & Physical Agility; Level 4 paint at Physical Agility South Wall 1
PT-6	Interior Paint	Sherwin Williams	Flat	Ceiling Bright White SW-7007	-	Gypsum wallboard ceiling throughout, U.N.O.
PT-7	Interior Paint	Sherwin Williams	Eg-Shel	Revel Blue SW-6530	-	Reception Soffit
PT-8	Interior Paint	Sherwin Williams	Eg-Shel	Silver Tipped Sage SW-9642	-	Reception
PT-9	Interior Paint	Sherwin Williams	Semi-Gloss	Ceiling Bright White SW-7007	-	Shower Ceilings
PE-1	Interior Paint	Benjamin Moore	Semi-Gloss	Horizon OC-53	-	Epoxy Field Color - Sally Port
PM-1	Interior Paint	Benjamin Moore	Semi-Gloss	Shaker Gray 1594	-	Metal Doors & Frames
PM-2	Interior Paint	Sherwin Williams	Flat	Acier SW-9170	-	Exposed Structure and Metal Decking
PM-3	Interior Paint	Sherwin Williams	Flat	Acier SW-9170	-	Storages, Electricals, Mechanicals and Stairs exposed ductwork
PM-4	Interior Paint	Sherwin Williams	Flat	Dress Blues SW-9176	-	Kitchen & Physical Agility's exposed ductwork
PM-5	Interior Paint	Sherwin Williams	Semi-Gloss	Golden Plumeria SW-9019	-	Bollards (Sally Port)
102600	**Wall Protection/Corner Guards**					
CG-1	Stainless Steel Corner Guards	InPro	Stainless Steel Corner Guard, SAS-181124C-304, 16 guage	Type 304 (standard)	4'-0" high, 2" wings	Back of House spaces; wall mounted on top of wall base
CG-2	Corner Guards	Korogard	Wall Protection Systems, G100, with 1/4" radius over a continuous aluminum retainer	Silhouette 5G, P1 Dune	4'-0" high, 2" wings, 0.078" thick	Main Corridors wall mounted on top of wall base, at 52"AFF
WG-1	Wall Guards	Korogard	Wall Protection Systems, C800	Silhouette 5G, P1 Dune	8"H x 1-1/4"D x 0.100" thick	Main Corridors wall mounted at 36"AFF
WP-1	Wall Protection	Korogard	Wall Protection Systems, with M082, Black (01) J-Molding Plastic Trim System	P1 Dune, Black (01)	22"H, 0.060" thick	Physical Agility South Wall; XT2000 Adhesive with Level 4 Paint and Acrylic Primer for proper bond. 1
102600	**Operable Wall Partition**					
OPW-1	Partition Wall Surfaces	Hufcor	Refer to specifications	Vinyl: Cascade Crisp 44-742 / Trim: Gray 9010-70226	-	Training Room 213A/213B
116600	**Athletic & Recreational**					
MP-1	Mat Padding - Floors	Resilite Sports Products	Resilite Zip Mat	Cobalt Deep Blue	5' x 40' x 1-5/8" Thickness	See finished floor plan. Mats placed over RAF-1.
MP-2	Mat Padding - Walls	Resilite Sports Products	Kwik-Stik Wall Padding	Cobalt Deep Blue	6' High x 1" Thickness x Roll	See finished floor plan for wall locations. Custom logo by others.
122413	**Roller Shades**					
RS-1	Manual Single Solar Roller Shade	MechoShade	ThermoVeil, 1300 Series, 5% Open	1320 Shadow Grey	TBD	Windows facing east, west, south, parking lots, water & other glare-producing outdoor areas
RS-2	Motorized Dual Solar / Black-Out Roller Shades - Blackout	MechoShade	ThermoVeil, 1300 Series, 5% Open & Equinox Blackout, 0100 Series, Opaque	1320 Shadow Grey & 0117 Graphite	TBD	Windows in Conference Rooms & Training Rooms
123661	**Quartz Surfacing**					
QTZ-1	Quartz	Cambria	Portrush	Polished	2 cm	Reception Desk, Records Reception
142400	**Elevator**					
ELEV-1	Elevator Cab	Thyssen Krupp	Hoistway Entrance, Doors: Forms+Surfaces Mirror Stainless Steel; Ceiling: 6-LED Forms+Surfaces Mirror Stainless Steel Drop Ceiling Panels; Forms+Surfaces Satin Stainless Steel w/Ceramiloc Top Wall Panels, Forms+Surfaces Sandstone Stainless Steel Handrail, Forms + Surfaces Seastone Handrail Panels, Forms+Surfaces Diamond Stainless Steel Bottom Wall Panels; Floor: PTF-1			

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2022.02.28
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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:
1 2022.02.28 ADDENDUM #1

BID ISSUE

Issue Date:
2022.02.10

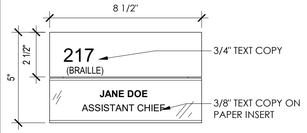
Drawn by: JM/ZR
Checked by: Checker

INTERIOR FINISH LEGEND

ID-402

INTERIOR SIGN TYPE LEGEND

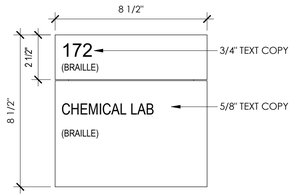
ROOM IDENTIFICATION SIGNS



PL.1

SIGN TYPE: PERSONNEL SIGN

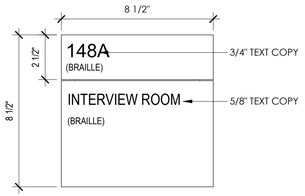
BASIS OF DESIGN: APCO (ELEVATE) FRAMELESS SYSTEM WITH INSERTS FOR PERSONNEL



A1

SIGN TYPE: ROOM SIGN

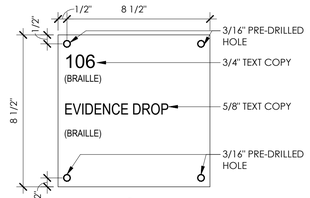
BASIS OF DESIGN: APCO (ELEVATE) FRAMELESS SYSTEM



A2

SIGN TYPE: ROOM SIGN - TAMPER RESISTANT

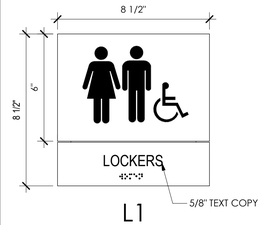
BASIS OF DESIGN: APCO (ELEVATE), TAMPER RESISTANT, SECURE SYSTEM



A3

SIGN TYPE: ACRYLIC PLAQUE

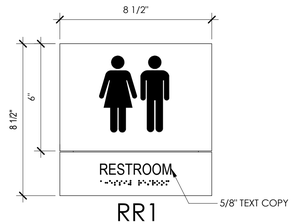
BASIS OF DESIGN: APCO SIMPLE ACRYLIC FRAMELESS SYSTEM; MECHANICALLY FASTENED TO CHAIN LINK FENCE



L1

SIGN TYPE: LOCKER ROOM ID

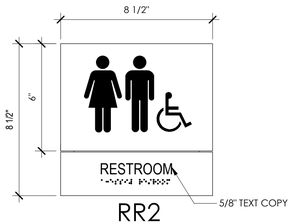
BASIS OF DESIGN: APCO (ELEVATE) FRAMELESS SYSTEM



RR1

SIGN TYPE: RESTROOM ID

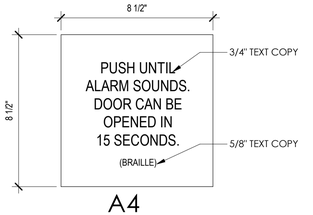
BASIS OF DESIGN: APCO (ELEVATE) FRAMELESS SYSTEM



RR2

SIGN TYPE: ADA RESTROOM ID

BASIS OF DESIGN: APCO (ELEVATE) FRAMELESS SYSTEM



A4

SIGN TYPE: INTERVIEW ROOM SIGN - TAMPER RESISTANT

BASIS OF DESIGN: APCO (ELEVATE), TAMPER RESISTANT, SECURE SYSTEM

SIGN TYPE A4 NOTES:
1. TO BE LOCATED AT ALL DELAYED EGRESS DOORS, TYPICAL. REFER TO LIFE SAFETY PLANS.
2. THE SIGN SHALL COMPLY WITH THE VISUAL CHARACTER REQUIREMENTS IN ICC A117.1.
3. THE DELAYED EGRESS LOCKING SYSTEM UNITS SHALL BE LISTED IN ACCORDANCE WITH UL 294.

INFORMATIONAL SIGNS



B1

SIGN TYPE: INFORMATIONAL SIGN

BASIS OF DESIGN: APCO (ELEVATE) FRAMELESS SYSTEM

FIRE / SAFETY SIGNS

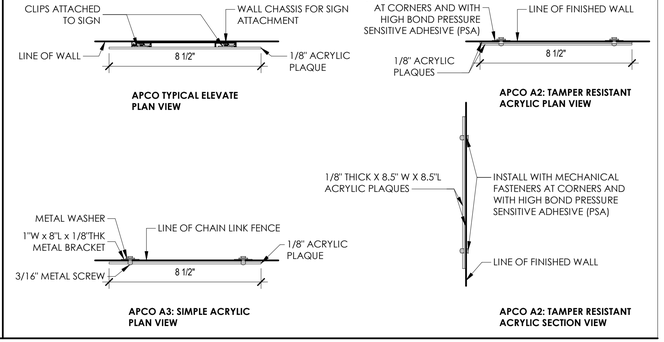


F1

SIGN TYPE: FIRE SAFETY SIGN

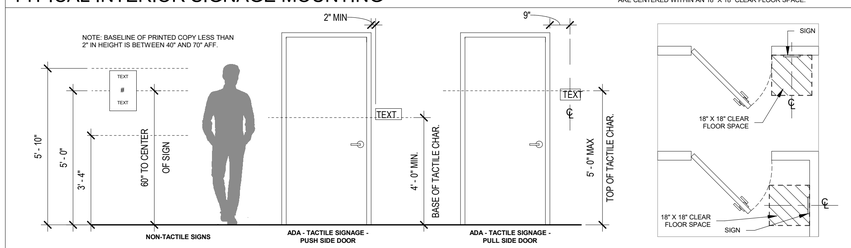
BASIS OF DESIGN: APCO (ELEVATE) FRAMELESS SYSTEM

PLAN & SECTION VIEWS



TYPICAL INTERIOR SIGNAGE MOUNTING

NOTE: WHEN SIGN IS ON PULL SIDE OF DOOR, TACTILE CHARACTERS ARE CENTERED WITHIN AN 18" X 18" CLEAR FLOOR SPACE.



SIGNAGE NOTES:

1. **ELEVATE SERIES: (NO CHASSIS)**
SIGN TYPE CODE:
MOUNTING:

2. SIGN INSERTS:
PART CODE:
BACKGROUND COLOR: A89 SATIN SILVER

3. FLATBED PRINTED GRAPHICS (SURFACE):
HORIZONTAL RULE LINE:
SIZE: 1/8" X 8-1/2"
COLOR: TBD

4. DIRECT PRINT TACTILE GRAPHICS:
COPY: HELVETICANEUE-ROMAN (HR)
SIZE: 3/4"
COLOR: A54 GRAPHITE
(BRAILLE COLOR SAME AS BACKGROUND)

5. PART CODE: EV-341A-A (ADA)
BACKGROUND COLOR: A72 BONE WHITE (SUBSURFACE)

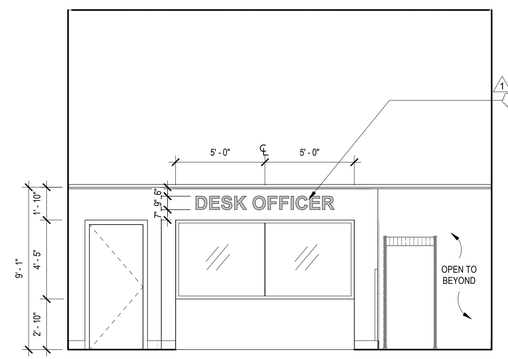
6. DIRECT PRINT TACTILE GRAPHICS:
COPY: HELVETICANEUE-ROMAN (HR)
SIZE: 5/8"
COLOR: A54 GRAPHITE
(BRAILLE COLOR SAME AS BACKGROUND)

7. PVC BACKER:
PART CODE: 1/4" THICK PVC
COLOR: A02 BLACK
SIZE: TO FIT TO SIGN

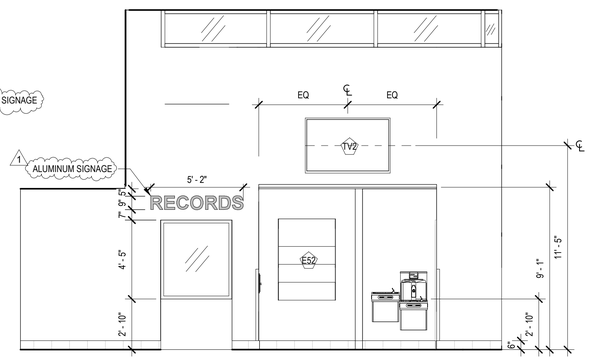
8. **ACRYLIC PLAQUE**
PART CODE:
SIZE:
COLOR: A01 WHITE
MOUNTING:
PRINTED GRAPHICS:
COPY: HELVETICANEUE-ROMAN (HR)
SIZE: 3/4"
COLOR: A54 GRAPHITE
(BRAILLE COLOR SAME AS BACKGROUND)

9"H x 1/4" THK HELVETICA NEUE-BOLD (HM)
DESK OFFICER
7'-9" APPROXIMATE

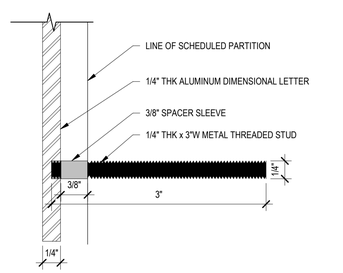
9"H x 1/4" THK HELVETICA NEUE-BOLD (HM)
RECORDS
5'-2" APPROXIMATE



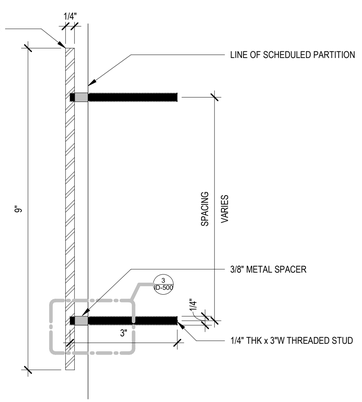
5 ID-500 ELEVATION - RECEPTION 237 SIGNAGE - NORTH
1/4" = 1'-0"



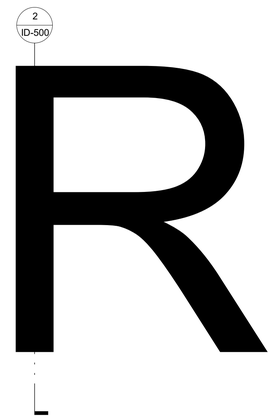
4 ID-500 ELEVATION - RECEPTION 237 SIGNAGE - EAST
1/4" = 1'-0"



3 ID-500 DETAIL - DIMENSIONAL LETTER ATTACHMENT
12" = 1'-0"



2 ID-500 SECTION - DIMENSIONAL LETTER
6" = 1'-0"



1 ID-500 DIMENSIONAL LETTERS
6" = 1'-0"

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:

1	2022.02.28	ADDENDUM #1

BID ISSUE

Issue Date:
2022.02.10

Drawn by: JM/ZR
Checked by: Checker

INTERIOR SIGNAGE NOTES

ID-500

Room #	Sign Type	Sign Information	Comments
100	A1	Line 1 - 100 Line 2 - EVIDENCE/ Line 3 - LAB	
101	A1	Line 1 - 101 Line 2 - NARCOTICS Line 3 - STORAGE	
102	A1	Line 1 - 102 Line 2 - FIREARMS Line 3 - STORAGE	
103	A1	Line 1 - 103 Line 2 - AUCTION/ Line 3 - DESTRUCT	
105	A1	Line 1 - 105 Line 2 - EVIDENCE Line 3 - RETURN	
105	A2	Line 1 - 105A Line 2 - EVIDENCE Line 3 - RETURN	
106	A3	Line 1 - 106 Line 2 - EVIDENCE Line 3 - DROP	
108	A1	Line 1 - 108 Line 2 - EVIDENCE Line 3 - STORAGE	
109	A1	Line 1 - 109 Line 2 - EVIDENCE Line 3 - STAFF	
110	A1	Line 1 - 110 Line 2 - BAG & Line 3 - TAG	
111	A1	Line 1 - 111 Line 2 - PHOTO Line 3 - LAB	
112	A1	Line 1 - 112 Line 2 - BLOOD Line 3 - DRYING	
113	A1	Line 1 - 113 Line 2 - CHEMICAL Line 3 - LAB	
113	A1	Line 1 - 113A Line 2 - CHEMICAL Line 3 - LAB	
114	A1	Line 1 - 114 Line 2 - VEHICLE Line 3 - EXAMINATION BAY	
114	A1	Line 1 - 114A Line 2 - VEHICLE Line 3 - EXAMINATION BAY	
115	A1	Line 1 - 115 Line 2 - LAB Line 3 - STAFF	
115	A1	Line 1 - 115A Line 2 - LAB Line 3 - STAFF	
116	A1	Line 1 - 116 Line 2 - CHEMICAL Line 3 - STORAGE	
117	RR2	Line 1 - M/F/HC SYMBOL Line 2 - Line 3 - RESTROOM	
118	A1	Line 1 - 118 Line 2 - COPY/ Line 3 - COFFEE	
119	A1	Line 1 - 119 Line 2 - LAB Line 3 - STAFF	
120	A1	Line 1 - 120 Line 2 - STORAGE Line 3 -	
121	A1	Line 1 - 121 Line 2 - STORAGE Line 3 -	
122	A1	Line 1 - 122 Line 2 - PHYSICAL Line 3 - READINESS	
122	A1	Line 1 - 122A Line 2 - PHYSICAL Line 3 - READINESS	
123	A1	Line 1 - 123 Line 2 - STORAGE Line 3 -	
125	A1	Line 1 - 125 Line 2 - STORAGE Line 3 -	
126	A1	Line 1 - 126 Line 2 - BREAK Line 3 - ROOM	
126	A1	Line 1 - 126A Line 2 - BREAK Line 3 - ROOM	Glass Installation, Backer Required
127B	L1	Line 1 - M/F/HC SYMBOL Line 2 - Line 3 - LOCKERS	
128	RR2	Line 1 - M/F/HC SYMBOL Line 2 - Line 3 - RESTROOM	
129	RR2	Line 1 - M/F/HC SYMBOL Line 2 - Line 3 - RESTROOM	
130	RR2	Line 1 - M/F/HC SYMBOL Line 2 - Line 3 - RESTROOM	
131	RR1	Line 1 - M/F SYMBOL Line 2 - Line 3 - RESTROOM	
132	RR1	Line 1 - M/F SYMBOL Line 2 - Line 3 - RESTROOM	
133	RR1	Line 1 - M/F SYMBOL Line 2 - Line 3 - RESTROOM	
134	RR1	Line 1 - M/F SYMBOL Line 2 - Line 3 - RESTROOM	
135	RR2	Line 1 - M/F/HC SYMBOL Line 2 - Line 3 - RESTROOM	
136	RR2	Line 1 - M/F/HC SYMBOL Line 2 - Line 3 - RESTROOM	
137	RR2	Line 1 - M/F/HC SYMBOL Line 2 - Line 3 - RESTROOM	
138	A1	Line 1 - 138 Line 2 - ELECTRICAL Line 3 -	
139	A1	Line 1 - 139 Line 2 - MECHANICAL Line 3 -	
140	A1	Line 1 - 140 Line 2 - LACTATION Line 3 - ROOM	
141	A1	Line 1 - 141 Line 2 - JANITOR Line 3 -	
142	A1	Line 1 - 142 Line 2 - TELE/DATA Line 3 - SERVER	
143C	A1	Line 1 - 143 Line 2 - K-9 AREA Line 3 -	
146	A1	Line 1 - 146 Line 2 - STORAGE Line 3 -	
147	A1	Line 1 - 147 Line 2 - SALLYPORT Line 3 -	
147	A4	Line 1 - PUSH UNTIL Line 2 - ALARM SOUNDS Line 3 - DOOR CAN BE Line 4 - OPENED IN Line 5 - 15 SECONDS	Mount on door according to 2018 IBC 1010.1.9.8.1 Delayed egress locking system. Note 6: A sign shall be provided on the door and shall be located above and within 12 inches (305 mm) of the door exit hardware.
148A	A2	Line 1 - 148A Line 2 - INTERVIEW Line 3 -	
148B	A2	Line 1 - 148B Line 2 - INTERVIEW Line 3 -	
148C	A2	Line 1 - 148 Line 2 - INTERVIEW Line 3 - CORRIDOR	
148D	A2	Line 1 - 148C Line 2 - INTERVIEW Line 3 -	
148E	RR2	Line 1 - M/F/HC SYMBOL Line 2 - Line 3 - RESTROOM	
149	A1	Line 1 - 149 Line 2 - VESTIBULE Line 3 -	
149A	A1	Line 1 - 149A Line 2 - VESTIBULE Line 3 -	
150	A1	Line 1 - 150 Line 2 - JUVENILE Line 3 - LOUNGE	
151	A1	Line 1 - 151 Line 2 - DUI/DRUG Line 3 - RECOGNITION	
151A	A1	Line 1 - 151A Line 2 - DUI/DRUG Line 3 - RECOGNITION	
152	A1	Line 1 - 152 Line 2 - MONITORING Line 3 -	
153	A1	Line 1 - 153 Line 2 - POLYGRAPH Line 3 -	
153A	A1	Line 1 - 153A Line 2 - POLYGRAPH Line 3 -	
154	A1	Line 1 - 154 Line 2 - WAITING Line 3 - ROOM	
154	A4	Line 1 - PUSH UNTIL Line 2 - ALARM SOUNDS Line 3 - DOOR CAN BE OPENED Line 4 - IN 15 SECONDS	Mount on door according to 2018 IBC 1010.1.9.8.1 Delayed egress locking system. Note 6: A sign shall be provided on the door and shall be located above and within 12 inches (305 mm) of the door exit hardware.
155	A1	Line 1 - 155 Line 2 - STORAGE Line 3 -	
156	A1	Line 1 - 156 Line 2 - PATROL Line 3 -	
156	A1	Line 1 - 156A Line 2 - PATROL Line 3 -	
157	A1	Line 1 - 157 Line 2 - REPORT Line 3 - WRITING	
158	A1	Line 1 - 158 Line 2 - ARMORER Line 3 -	
163	A1	Line 1 - 163 Line 2 - STORAGE Line 3 -	
164	A1	Line 1 - 164 Line 2 - SMALL Line 3 - CONFERENCE	Glass Installation, Backer Required
165	A1	Line 1 - 165 Line 2 - BRIEFING Line 3 - ROOM	
165	A1	Line 1 - 165A Line 2 - BRIEFING Line 3 - ROOM	
166	PL.1	Line 1 - 166 Line 2 - CAPTAIN Line 3 - B. SQUIRES	Glass Installation, Backer Required
167	PL.1	Line 1 - 167 Line 2 - LIEUTENANT Line 3 - J. MARLEY	Glass Installation, Backer Required
168	A1	Line 1 - 168 Line 2 - SMALL Line 3 - CONFERENCE	
169	PL.1	Line 1 - 169 Line 2 - OFFICE Line 3 -	
170	PL.1	Line 1 - 170 Line 2 - LIEUTENANT Line 3 - T. DOWNS	Glass Installation, Backer Required
171	PL.1	Line 1 - 171 Line 2 - LIEUTENANT Line 3 - B. TRIMBLE	Glass Installation, Backer Required
172	PL.1	Line 1 - 172 Line 2 - LIEUTENANT Line 3 -	Glass Installation, Backer Required
173	A1	Line 1 - 173 Line 2 - LEVEL 1 Line 3 - PATROL	
174	A1	Line 1 - 174 Line 2 - STAFF Line 3 - EXIT	
001S	A1	Line 1 - 001S Line 2 - STAIRS Line 3 -	
002S	A1	Line 1 - 002S Line 2 - STAIRS Line 3 -	
003S	A1	Line 1 - 003S Line 2 - STAIRS Line 3 -	
004E	F1	Line 1 - IN CASE OF FIRE Line 2 - ELEVATOR IS Line 3 - OUT OF SERVICE Line 4 - USE EXIT STAIRS	

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LICENSED ARCHITECT AR-986743
2022.02.28
IAN A. REEVES, STATE OF IDAHO

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:

1	2022.02.28	ADDENDUM #1

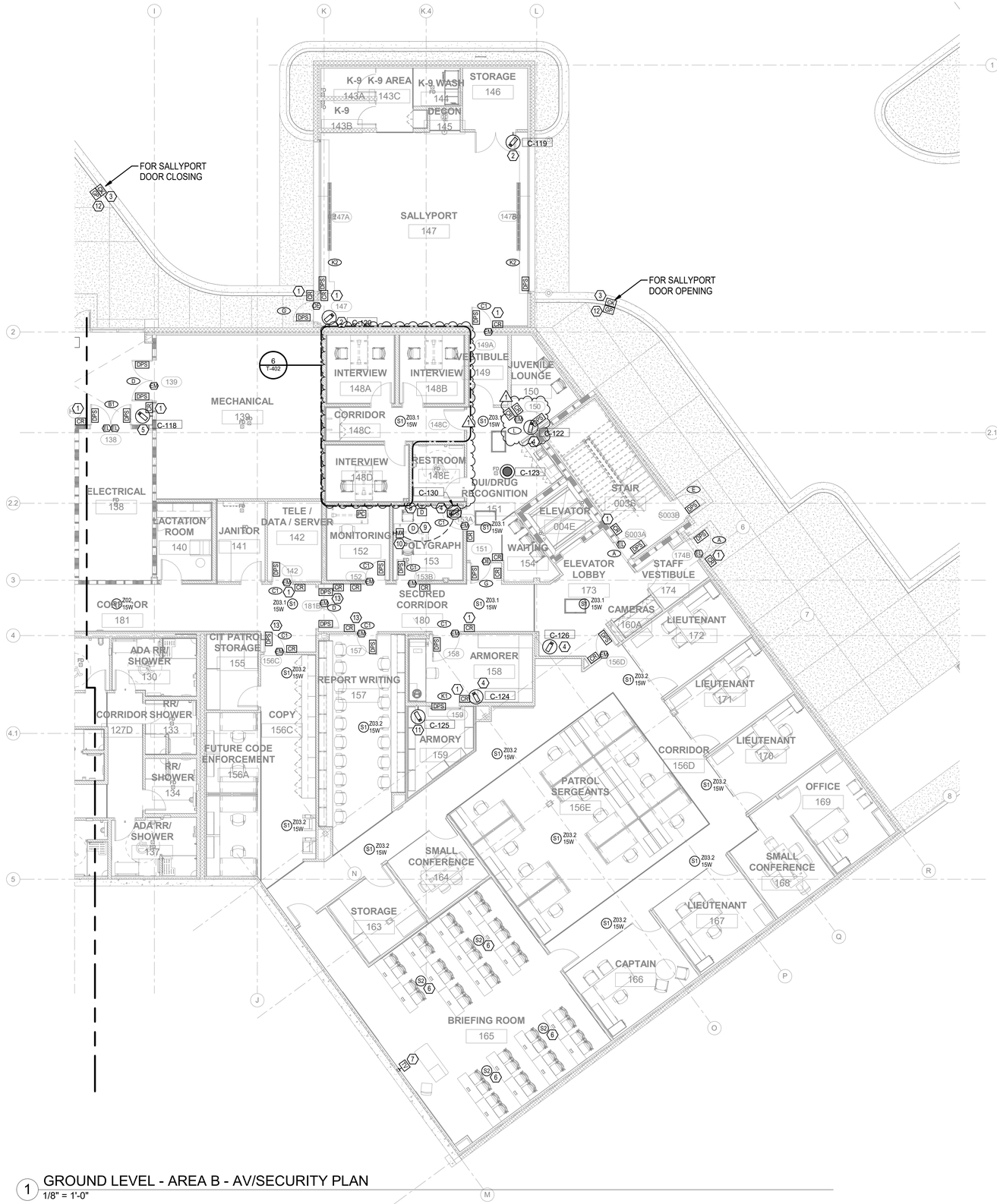
BID ISSUE

Issue Date:
2022.02.10

Drawn by: **JM/ZR**
Checked by: **Checker**

INTERIOR SIGNAGE SCHEDULE

ID-501



1 GROUND LEVEL - AREA B - AV/SECURITY PLAN
1/8" = 1'-0"

1. PROVIDE AND INSTALL WALL SWITCH STYLE CONTACTLESS SMART CARD READER. DESIGN SELECTION: HID ICLASS SE R40
2. PROVIDE AND INSTALL FIXED INTERIOR 2MP WALL MOUNTED CAMERA. PROVIDE CAT 6A CABLE TO CAMERA LOCATION. PROVIDE SOFTWARE LICENSE TO OWNER FOR RECORDING. DESIGN SELECTION: AXIS Q3515-LV.
3. PROVIDE AND INSTALL WALL SWITCH STYLE CONTACTLESS SMART CARD READER WITH KEYPAD. DESIGN SELECTION: HID ICLASS SE RK40
4. PROVIDE AND INSTALL INTERIOR 2MP RECESSED CEILING MOUNTED FIXED DOME CAMERA. PROVIDE CAT 6A CABLE TO CAMERA LOCATION. PROVIDE SOFTWARE LICENSE TO OWNER FOR RECORDING. DESIGN SELECTION: AXIS Q3515-LV.
5. PROVIDE AND INSTALL FIXED EXTERIOR 5MP WALL MOUNTED CAMERA. PROVIDE UNSHIELDED CAT 6A CABLE TO CAMERA LOCATION. DESIGN SELECTION: AXIS Q3517-LVE WITH WALL MOUNT T91H61.
6. PROVIDE CEILING MOUNTED SPEAKERS (TYPE S2). DESIGN SELECTION: CRESTRON SAROS IC6LPT-W-T OR APPROVED EQUAL. COORDINATE EXACT MOUNTING LOCATION WITH RCP DRAWINGS.
7. PROVIDE (1) CAT 6A CABLE IN 1" CONDUIT BACK TO TELECOM ROOM 142. PROVIDE WALL MOUNTING BRACKET AND IN-WALL STORAGE. DESIGN SELECTION: CHIEF XTM1U-G AND PAC525F OR APPROVED EQUAL. PROVIDE 1-1/4" CONDUIT TO ACCESSIBLE CEILING FOR AV CABLING. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.
8. PROVIDE AND INSTALL WALL MOUNTED MUSHROOM STYLE DURESS BUTTON.
9. PROVIDE AND INSTALL UNDER DESK MOUNTED DURESS BUTTON.
10. PROVIDE AND INSTALL WALL MOUNTED MICROPHONE ABOVE DESK LEVEL. MICROPHONE TO BE CONNECTED TO CAMERA.
11. PROVIDE AND INSTALL FIXED INTERIOR 5MP SURFACED WALL MOUNTED CAMERA. DESIGN SELECTION: AXIS Q3517-LV.
12. PROVIDE 64" SINGLE HEIGHT GOOSENECK PEDESTAL AND HOUSING FOR CARD READER AND INTERCOMS. DESIGN SELECTION: PEDESTAL PRO 64-9C-S WITH HOUSING MC-CS-10-E.
13. PROVIDE INFRASTRUCTURE ONLY AT DOOR FOR FUTURE ACCESS CONTROL.

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IDAHO FALLS POLICE HEADQUARTERS - AUXILIARY BUILDING

IDAHO FALLS, ID

Project No.
1047-20A

Revisions:

1	02/28/2022	ADDENDUM #1

BID ISSUE

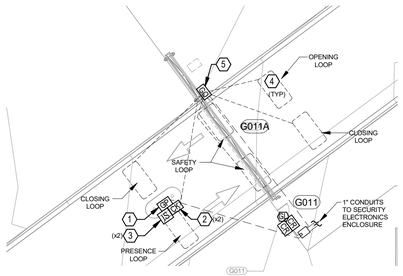
Issue Date:
2022.02.10

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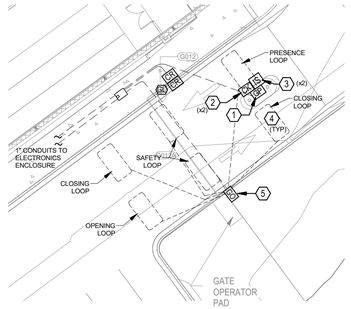
Project North:

TECHNOLOGY GROUND FLOOR PLAN - AV/SECURITY - AREA B

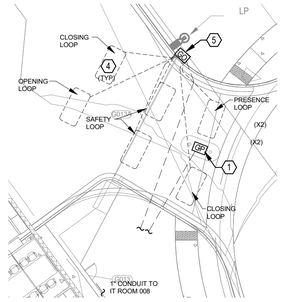
T-102B



1 ENLARGED PLAN - MAIN BUILDING GATE G011A
1/16" = 1'-0"



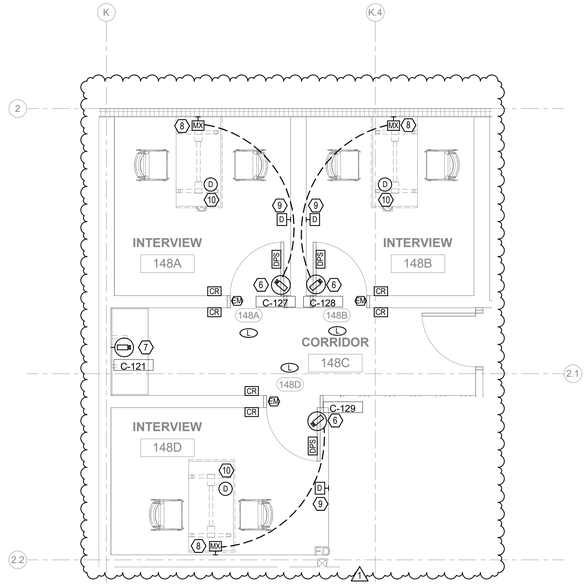
2 ENLARGED PLAN - AUX BUILDING GATE G012A
1/16" = 1'-0"



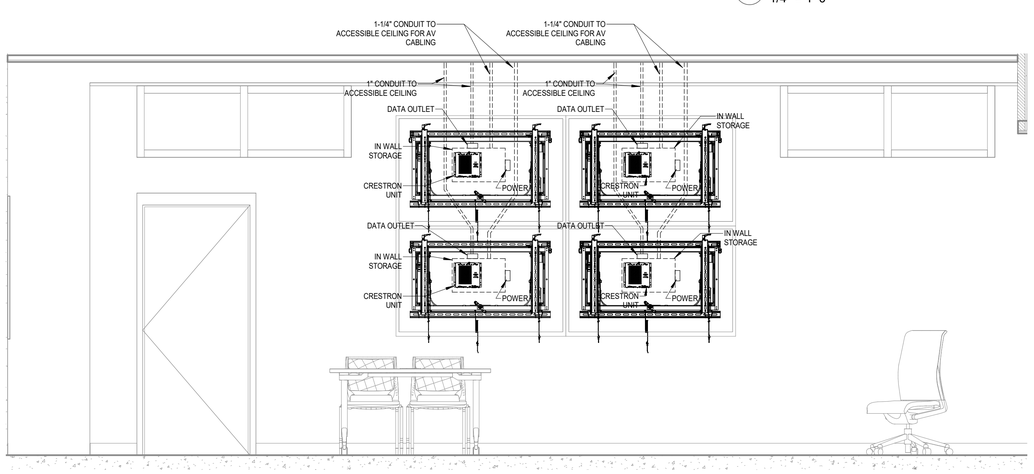
3 ENLARGED PLAN - AUX BUILDING GATE G013A
1/16" = 1'-0"

PLAN NOTES

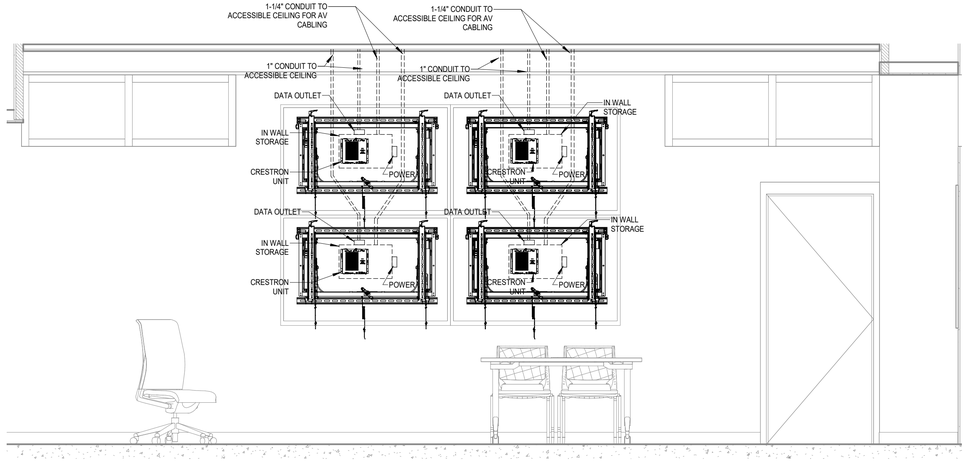
1. PROVIDE 64" DUAL HEIGHT GOOSENECK PEDESTAL AND HOUSINGS FOR CARD READERS AND INTERCOMS. DESIGN SELECTION: PEDESTAL PRO 64-9C-D WITH HOUSING MC-CS-10-E.
2. PROVIDE ACCESS CONTROL PROXIMITY CARD READER WITH INTEGRATED KEYPAD MOUNTED TO PEDESTAL ENCLOSURE. PROVIDE 6 CONDUCTOR 22 GAUGE CABLING TO SECURITY ELECTRONICS ENCLOSURE & TERMINATE ON READER BOARD. DESIGN SELECTION: SCHLAGE MTK15
3. SIP ENABLED VIDEO INTERCOM SUB STATION WITH CAMERA. PROVIDE (1) CAT 6A HORIZONTAL CABLE TO LOCATION SHOWN. TERMINATE CAT 6A TO SURGE PROTECTOR IN SECURITY ELECTRONICS ENCLOSURE. PROVIDE PATCH CABLE TO INTERCOM. DESIGN SELECTION: 2N IP FORCE 9151101CW.
4. VEHICLE DETECTION LOOP BY OTHERS.
5. GATE CONTROLLER BY OTHERS. PROVIDE (4) 2 CONDUCTOR 18AWG CABLES BETWEEN GATE CONTROL BOARD AND ACS BOARD TO SIGNAL "OPEN" ON A VALID CARD READ, "TROUBLE" WHEN MALFUNCTION IS DETECTED, AND "HOLD OPEN" WHEN GATE IS LEFT OPEN FOR TOO LONG. PROVIDE CONNECTION BETWEEN GATE CONTROL BOARD AND "CLICK 2 ENTER" SENSOR MOUNTED TO SIDE OF CONTROLLER TO SIGNAL "EMERGENCY OPEN". CONNECTIONS MUST BE SURGE PROTECTED.
6. PROVIDE AND INSTALL INTERIOR 2MP RECESSED CEILING MOUNTED FIXED DOME CAMERA. PROVIDE CAT 6A CABLE TO CAMERA LOCATION. PROVIDE SOFTWARE LICENSE TO OWNER FOR RECORDING. DESIGN SELECTION: AXIS Q3515-LV
7. PROVIDE AND INSTALL FIXED INTERIOR 2MP WALL MOUNTED CAMERA. PROVIDE CAT 6A CABLE TO CAMERA LOCATION. PROVIDE SOFTWARE LICENSE TO OWNER FOR RECORDING. DESIGN SELECTION: AXIS Q3515-LV.
8. PROVIDE AND INSTALL WALL MOUNTED MICROPHONE ABOVE DESK LEVEL. MICROPHONE TO BE CONNECTED TO CAMERA.
9. PROVIDE AND INSTALL WALL MOUNTED MUSHROOM STYLE DURESS BUTTON.
10. PROVIDE AND INSTALL UNDER DESK MOUNTED DURESS BUTTON.



6 ENLARGED PLAN - INTERVIEW ROOMS
1/4" = 1'-0"



4 TRAINING ROOM 213B ELEVATION
1/2" = 1'-0"



5 TRAINING ROOM 213A ELEVATION
1/2" = 1'-0"

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IDAHO FALLS POLICE HEADQUARTERS - AUXILIARY BUILDING

IDAHO FALLS, ID

Project No.
1047-20A

Revisions:
1 02/28/2022 ADDENDUM #1

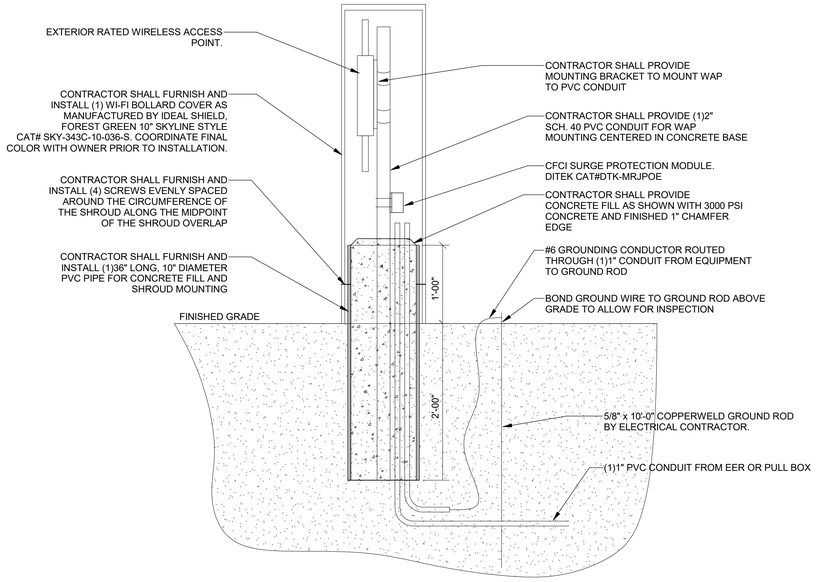
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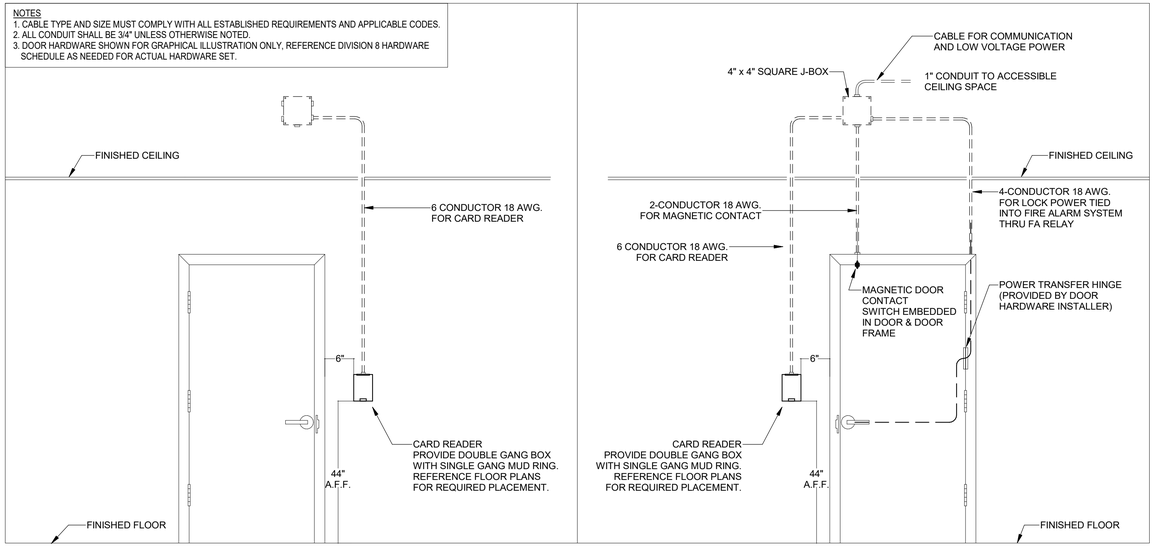
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TECHNOLOGY ENLARGED PLANS AND ELEVATIONS

T-402



1 WI-FI BOLLARD MOUNTING DETAIL
12" = 1'-0"



1 2 DOOR TYPE L - SINGLE DOOR WITH ELECTRIC MORTISE LOCK AND CARD READER IN/OUT
1" = 1'-0"

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Issue Date:
2022.02.10

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TECHNOLOGY DETAILS

T-507

T - CCTV CAMERA SCHEDULE

CAMERA NUMBER	ROOM OR LOCATION	SHEET NUMBER	CAMERA TYPE	HOUSING TYPE	CAMERA MOUNTING	MOUNTING HEIGHT	COMMENTS
C-001	PUBLIC ENTRY	T-100	FIXED	EXTERIOR	SURFACE CEILING MOUNTED	15' - 0"	
C-002	EXTERIOR TRAINING ROOM 213A	T-100	180°	EXTERIOR	BRACKET WALL MOUNTED	0' - 0"	
C-003	EXTERIOR VEHICLE EXAM BAY	T-100	180°	EXTERIOR	BRACKET WALL MOUNTED	10' - 0"	
C-004	EXTERIOR SALLY PORT	T-100	FIXED	EXTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-005	NE WALL NEAR CUP	T-100	FIXED	EXTERIOR	SURFACE CEILING MOUNTED	15' - 5"	MOUNTED UNDER OVERHANG
C-006	SE EXTERIOR WALL	T-100	180°	EXTERIOR	SURFACE CEILING MOUNTED	15' - 5"	MOUNTED UNDER OVERHANG
C-007	MAIN BLDG GATE	T-100	FIXED	EXTERIOR	POLE MOUNTED	15' - 0"	VIEWING PUBLIC PARKING ROADWAY
C-008	MAIN BLDG GATE	T-100	FIXED	EXTERIOR	POLE MOUNTED	15' - 0"	VIEWING UNSECURED SIDE OF GATE
C-009	MAIN BLDG GATE	T-100	FIXED	EXTERIOR	POLE MOUNTED	15' - 0"	VIEWING SECURED SIDE OF GATE
C-010	MAIN BLDG GATE	T-100	FIXED	EXTERIOR	POLE MOUNTED	15' - 0"	VIEWING EVIDENCE PARKING AREA
C-101	NARCOTICS STORAGE 101	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-102	NARCOTICS STORAGE 101	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-103	NARCOTICS STORAGE 101	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-104	NARCOTICS STORAGE 101	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-105	NARCOTICS STORAGE 101	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-106	FIREARM STORAGE 102	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-107	FIREARM STORAGE 102	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-108	FIREARM STORAGE 102	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-109	FIREARM STORAGE 102	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-110	CORRIDOR 107	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-111	CORRIDOR 107	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-112	EVIDENCE VESTIBULE 104	T-102A	FIXED	INTERIOR	RECESSED CEILING MOUNTED	10' - 0"	
C-113	CORRIDOR 108D	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	VIEWING CORRIDOR AREA
C-114	OVERSIZED EVIDENCE 108E	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-115	CORRIDOR 108D	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	VIEWING CORRIDOR AREA
C-116	CORRIDOR 182	T-102A	FIXED	INTERIOR	RECESSED CEILING MOUNTED	10' - 0"	
C-117	CORRIDOR 182	T-102A	FIXED	INTERIOR	RECESSED CEILING MOUNTED	10' - 0"	
C-118	STAFF ENTRY 176	T-102B	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-119	SALLYPORT 147	T-102B	FIXED	INTERIOR	BRACKET WALL MOUNTED	10' - 0"	
C-120	SALLYPORT 147	T-102B	FIXED	INTERIOR	BRACKET WALL MOUNTED	10' - 0"	
C-121	CORRIDOR 148C	T-402	FIXED	INTERIOR	SURFACE WALL MOUNTED	9' - 0"	
C-122	JUVENILE LOUNGE 150	T-102B	FIXED	INTERIOR	RECESSED CEILING MOUNTED	9' - 0"	
C-123	DUI/DRUG RECOGNITION 151	T-102B	360°	INTERIOR	SURFACE CEILING MOUNTED	0' - 0"	
C-124	ARMORER 158	T-102B	FIXED	INTERIOR	RECESSED CEILING MOUNTED	10' - 0"	
C-125	ARMORY 159	T-102B	FIXED	INTERIOR	SURFACE WALL MOUNTED	9' - 0"	
C-126	ELEVATOR LOBBY 173	T-102B	FIXED	INTERIOR	RECESSED CEILING MOUNTED	10' - 0"	
C-127	INTERVIEW 148A	T-402	FIXED	INTERIOR	RECESSED CEILING MOUNTED	9' - 0"	
C-128	INTERVIEW 148B	T-402	FIXED	INTERIOR	RECESSED CEILING MOUNTED	9' - 0"	
C-129	INTERVIEW 148D	T-402	FIXED	INTERIOR	RECESSED CEILING MOUNTED	9' - 0"	
C-130	POLYGRAPH 153	T-102B	FIXED	INTERIOR	RECESSED CEILING MOUNTED	9' - 0"	
C-131	COVERED STORAGE 01C	T-102A	FIXED	INTERIOR	BRACKET WALL MOUNTED	9' - 0"	
C-132	COVERED STORAGE 01C	T-102A	FIXED	EXTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-133	AUCTION/DESTRUCT 103	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-134	AUCTION/DESTRUCT 103	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	
C-135	VAULTS 108C	T-102A	FIXED	INTERIOR	RECESSED CEILING MOUNTED	14' - 7"	
C-136	CORRIDOR 108D	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	VIEWING EVIDENCE STORAGE 108F
C-137	CORRIDOR 108D	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	VIEWING EVIDENCE STORAGE 108F
C-138	BIO-COOLERS 108H	T-102A	FIXED	INTERIOR	SURFACE WALL MOUNTED	10' - 0"	VIEWING FRONT OF BIO-COOLERS
C-139	BAG & TAG 110	T-102A	FIXED	INTERIOR	RECESSED CEILING MOUNTED	10' - 0"	VIEWING WORK TABLE
C-140	BAG & TAG 110	T-102A	FIXED	INTERIOR	RECESSED CEILING MOUNTED	10' - 0"	VIEWING PERSONNEL AT DOOR
C-201	VESTIBULE 238	T-202A	FIXED	INTERIOR	BRACKET WALL MOUNTED	10' - 0"	
C-202	RECEPTION 237	T-202A	FIXED	INTERIOR	RECESSED CEILING MOUNTED	9' - 0"	RECESSED IN THE OVERHANG
C-203	SECURITY 237A	T-202A	FIXED	INTERIOR	RECESSED CEILING MOUNTED	9' - 0"	
C-204	CORRIDOR 275	T-202B	FIXED	INTERIOR	RECESSED CEILING MOUNTED	10' - 0"	
C-205	CORRIDOR 278	T-202B	FIXED	INTERIOR	RECESSED CEILING MOUNTED	10' - 0"	
C-206	SOFT INTERVIEW 233	T-202A	FIXED	INTERIOR	RECESSED CEILING MOUNTED	10' - 0"	VIEW WILL BE OF THE INTERVIEWEE
C-207	IA INTERVIEW 208	T-202A	FIXED	INTERIOR	RECESSED CEILING MOUNTED	9' - 0"	VIEW WILL BE OF THE INTERVIEWEE

DOOR HARDWARE SCHEDULE

DOOR NUMBER	SHEET NUMBER	ROOM OR LOCATION	DOOR TYPE	READER TYPE	LOCKING DEVICE	INTRUSION DETECTION	COMMENTS
101	T-102A	NARCOTICS STORAGE 101	SINGLE	BR	EM	DPS	
102	T-102A	FIREARMS STORAGE 102	SINGLE	BR	EM	DPS	
103	T-102A	AUCTION/DESTRUCT 103	SINGLE	BR	EM	DPS	
104	T-102A	EVIDENCE VESTIBULE 104	DOUBLE	CR	2 EL	2 DPS	
105	T-102A	EVIDENCE RETURN 105	DOUBLE	CR	2 EL	2 DPS	
106A	T-102A	EVIDENCE DROP 106	ROLL-UP DOOR	CR		DPS	
107A	T-102A	CORRIDOR 107	SINGLE	CK	EL	DPS	
107B	T-102A	CORRIDOR 107	DOUBLE	CR	2 EL	2 DPS	
108D	T-102A	CORRIDOR 108D	DOUBLE	CR	2 EL	2 DPS	
109A	T-102A	EVIDENCE TECHS 109A	DOUBLE	CR	2 EL	2 DPS	
113A	T-102A	CHEMICAL LAB 113	SINGLE	CK	EM	DPS	
114A	T-102A	VEHICLE EXAMINATION BAY 114	SINGLE	CK	EM	DPS	
114B	T-102A	VEHICLE EXAMINATION BAY 114	ROLL-UP DOOR	CR		DPS	
115	T-102A	LAB TECHS 115	SINGLE	CK	EM	DPS	
119	T-102A	COPY / COFFEE 118	SINGLE	CK	EM	DPS	
122A	T-102A	PHYSICAL AGILITY 122	SINGLE	CR	EL	DPS	
122B	T-102A	PHYSICAL AGILITY 122	ROLLUP			DPS	
126A	T-102A	BREAK ROOM 126	SINGLE	CR	EL	DPS	
138	T-102B	ELECTRICAL 138	DOUBLE	CR	2 EL	2 DPS	
139	T-102B	MECHANICAL 139	DOUBLE	CR	EM	2 DPS	
142	T-102B	TELE/DATA/SERVER 142	SINGLE	CR	EM	DPS	
147	T-102B	SALLYPORT 147	SINGLE	CR ENTRY / CR EXIT	DE	DPS	
147A	T-102B	SALLYPORT 147	ROLL-UP DOOR	CK		DPS	
147B	T-102B	SALLYPORT 147	ROLL-UP DOOR	CK		DPS	
148A	T-402	INTERVIEW 148A	SINGLE	CR ENTRY / CR EXIT	EM	DPS	TIE TO FIRE ALARM SYSTEM
148B	T-402	INTERVIEW 148B	SINGLE	CR ENTRY / CR EXIT	EM	DPS	TIE TO FIRE ALARM SYSTEM
148D	T-402	INTERVIEW 148D	SINGLE	CR ENTRY / CR EXIT	EM	DPS	TIE TO FIRE ALARM SYSTEM
149A	T-102B	VESTIBULE 149	SINGLE	CR	EM	DPS	
150	T-102B	JUVENILE LOUNGE 150	SINGLE	CR ENTRY / CR EXIT	EM	DPS	TIE TO FIRE ALARM SYSTEM
151	T-102B	DUI/DRUG RECOGNITION 151	SINGLE	CR ENTRY / CR EXIT	DE	DPS	
152	T-102B	MONITORING 152	SINGLE	CR	EM	DPS	
153A	T-102B	POLYGRAPH 153	SINGLE	CR	EM	DPS	
153B	T-102B	POLYGRAPH 153	SINGLE	CR	EM	DPS	
156	T-102B	COPY 156C	SINGLE	CR	EM	DPS	
156D	T-102B	CORRIDOR 156D	SINGLE	CR	EM	DPS	
157	T-102B	REPORT WRITING 157	SINGLE	CR	EM	DPS	
158	T-102B	ARMORER 158	SINGLE	CR	EM	DPS	
159	T-102B	ARMORY 159	ROLLUP	CR		DPS	
174B	T-102B	STAFF VESTIBULE 174	SINGLE	CR	EL	DPS	
176	T-102A	STAFF ENTRY 176	DOUBLE	CR	2 EL	2 DPS	
181A	T-102A	CORRIDOR 181	DOUBLE	CR	EM	2 DPS	INFRASTRUCTURE ONLY
181B	T-102A	CORRIDOR 181	DOUBLE	CR	EM	2 DPS	INFRASTRUCTURE ONLY
182	T-102A	CORRIDOR 182	DOUBLE	CR	2 EL	2 DPS	
205A	T-202A	COORDINATORS 205A	SINGLE	CR	EM	DPS	
207	T-202A	STORAGE 207	SINGLE	CR	EM	DPS	
208A	T-202A	IA INTERVIEW 208	SINGLE	CR	EM	DPS	
208B	T-202A	IA INTERVIEW 208	SINGLE	CR	EM	DPS	
213A	T-202A	TRAINING ROOM 213A	SINGLE	CR	EL	DPS	
213B	T-202A	TRAINING ROOM 213B	SINGLE	CR	EL	DPS	
229B	T-202A	CORRIDOR 229B	SINGLE	CR	EL	DPS	
229C	T-202A	CORRIDOR 229C	SINGLE	CR	EL	DPS	
233A	T-202A	SOFT INTERVIEW 233	SINGLE	CR	EM	DPS	
233B	T-202A	SOFT INTERVIEW 233	SINGLE	CR	EM	DPS	
234A	T-202A	DESK OFFICER 234	SINGLE	CR	EM	DPS	
234B	T-202A	DESK OFFICER 234	SINGLE	CR	EM	DPS	
237	T-202A	SECURITY 237A	DOUBLE	CR	2 EL	2 DPS	
238A	T-202A	VESTIBULE 238	DOUBLE	CR	2 EL	2 DPS	AUTO OPERATED DOOR
238B	T-202A	VESTIBULE 238	DOUBLE	CR	2 EL	2 DPS	AUTO OPERATED DOOR
245	T-202A	RECORDS 245	SINGLE	CR	EM	DPS	
248	T-202B	ELECTRICAL 245	DOUBLE	CR	2 EL	2 DPS	
249	T-202B	MECHANICAL 249	DOUBLE	CR	EM	2 DPS	
253	T-202B	TELE/DATA/SERVER 253	SINGLE	CR	EM	DPS	
254	T-202B	IT ADMIN 254	SINGLE	CR	EM	DPS	
258A	T-202B	ADMIN/WAITING 258A	SINGLE	CR	EM	DPS	
258B	T-202B	ADMIN/WAITING 258A	SINGLE	CR	EM	DPS	
259	T-202B	STORAGE 259	SINGLE	CK	EM	DPS	
264A	T-202B	DETECTIVES 264	SINGLE	CR	EL	DPS	
264D	T-202B	DETECTIVES 264	SINGLE	CR	EL	DPS	
272	T-202B	COMPUTER CRIMES 272	SINGLE	CR	EM	DPS	
273	T-202B	FARADAY 273	SINGLE	CR	EM	DPS	
274	T-202B	ICAC 274	SINGLE	CR	EM	DPS	
G01C	T-102A	COVERED STORAGE 01C	DOUBLE	CR	EM	2 DPS	
S001A	T-102A	STAIR 001S	SINGLE	CR	EL	DPS	
S001B	T-102A	STAIR 001S	SINGLE			DPS	
S001C	T-202A	STAIR 001S	SINGLE	CR	EL	DPS	
S003A	T-102B	STAIR 003S	SINGLE	CR	EL	DPS	
S003B	T-102B	STAIR 003S	SINGLE			DPS	
S003C	T-202B	STAIR 003S	SINGLE	CR	EL	DPS	

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IDAHO FALLS POLICE HEADQUARTERS - AUXILIARY BUILDING

IDAHO FALLS, ID

Project No.
1047-20A

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1 02/28/2022 ADDENDUM #1

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